

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: <input type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.
1b. Type of Well: <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address		9. API Well No. <b>Bond 33 34 Federal Com 207H # &amp; Name Changed by NOI (attached)</b> <b>30-025-55721</b>
3b. Phone No. (include area code)		10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		
The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)		
1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).		4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the BLM.
25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		Office
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		

(Continued on page 2)

\*(Instructions on page 2)



Approval Date: 09/23/2025



## INSTRUCTIONS

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

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

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

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

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

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

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

## NOTICES

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

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

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

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

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

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

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

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



## Additional Operator Remarks

### Location of Well

0. SHL: NESE / 1625 FSL / 1221 FEL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.701222 / LONG: -103.783858 ( TVD: 0 feet, MD: 0 feet )  
PPP: SWNE / 2200 FNL / 2540 FEL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.705233 / LONG: -103.788148 ( TVD: 7820 feet, MD: 8649 feet )  
PPP: SWNW / 2200 FNL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7052167 / LONG: -103.7798903 ( TVD: 7820 feet, MD: 11189 feet )  
PPP: SENW / 2200 FNL / 1320 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7051737 / LONG: -103.7584431 ( TVD: 7820 feet, MD: 17786 feet )  
PPP: SWNE / 2200 FNL / 2635 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7051999 / LONG: -103.771323 ( TVD: 7820 feet, MD: 13824 feet )  
BHL: SENE / 2200 FNL / 10 FEL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.705146 / LONG: -103.745591 ( TVD: 7820 feet, MD: 21739 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**

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

<b>WELL NAME &amp; NO.:</b>	<b>Bond 32-34 Fed Com 101H</b>
<b>ATS/API ID:</b>	<b>ATS-25-1256</b>
<b>APD ID:</b>	<b>10400103826</b>
<b>Sundry ID:</b>	<b>N/a</b>

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

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

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

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

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

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



<b>WELL NAME &amp; NO.:</b> <b>ATS/API ID:</b> <b>APD ID:</b> <b>Sundry ID:</b>	<b>Bond 32-34 Fed Com 201H</b> <b>ATS-25-1257</b> <b>10400103830</b> <b>N/a</b>
<b>WELL NAME &amp; NO.:</b> <b>ATS/API ID:</b> <b>APD ID:</b> <b>Sundry ID:</b>	<b>Bond 32-34 Fed Com 203H</b> <b>ATS-25-1258</b> <b>10400103831</b> <b>N/a</b>
<b>WELL NAME &amp; NO.:</b> <b>ATS/API ID:</b> <b>APD ID:</b> <b>Sundry ID:</b>	<b>Bond 33-34 Fed Com 207H</b> <b>ATS-25-1244</b> <b>10400103899</b> <b>N/a</b>
<b>WELL NAME &amp; NO.:</b> <b>ATS/API ID:</b> <b>APD ID:</b> <b>Sundry ID:</b>	<b>Bond 33-34 Fed Com 211H</b> <b>ATS-25-1239</b> <b>10400103917</b> <b>N/a</b>
<b>WELL NAME &amp; NO.:</b> <b>ATS/API ID:</b> <b>APD ID:</b> <b>Sundry ID:</b>	<b>Bond 32-34 Fed Com 2H</b> <b>ATS-25-1253</b> <b>10400103818</b> <b>N/a</b>
<b>WELL NAME &amp; NO.:</b> <b>ATS/API ID:</b> <b>APD ID:</b> <b>Sundry ID:</b>	<b>Bond 32-34 Fed Com 3H</b> <b>ATS-25-1252</b> <b>10400103869</b> <b>N/a</b>
<b>WELL NAME &amp; NO.:</b> <b>ATS/API ID:</b> <b>APD ID:</b> <b>Sundry ID:</b>	<b>Bond 33-34 Fed Com 4H</b> <b>ATS-25-1249</b> <b>10400103892</b> <b>N/a</b>
<b>WELL NAME &amp; NO.:</b> <b>ATS/API ID:</b> <b>APD ID:</b> <b>Sundry ID:</b>	<b>Bond 33-34 Fed Com 5H</b> <b>ATS-25-1247</b> <b>10400103901</b> <b>N/a</b>
<b>WELL NAME &amp; NO.:</b> <b>ATS/API ID:</b> <b>APD ID:</b> <b>Sundry ID:</b>	<b>Bond 33-34 Fed Com 6H</b> <b>ATS-25-1245</b> <b>10400103916</b> <b>N/a</b>



## COA

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



## A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) 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 2<sup>nd</sup> 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: 10400103869

Submission Date: 03/17/2025

Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 32-34 FED COM

Well Number: 003H

Well Type: OIL WELL

Well Work Type: Drill

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

### Section 1 - General

APD ID: 10400103869

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: 003H

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:** 003H**Is the proposed well in an area containing other mineral resources?** NATURAL GAS,OIL**Is the proposed well in a Helium production area?** N**Use Existing Well Pad?** N**New surface disturbance?****Type of Well Pad:** MULTIPLE WELL**Multiple Well Pad Name:** BOND 32-34 FED COM SOUTH**Number:** 2**Well Class:** HORIZONTAL**Number of Legs:** 1**Well Work Type:** Drill**Well Type:** OIL WELL**Describe Well Type:****Well sub-Type:** INFILL**Describe sub-type:****Distance to town:** 10 Miles**Distance to nearest well:** 863 FT**Distance to lease line:** 1221 FT**Reservoir well spacing assigned acres Measurement:** 800 Acres**Well plat:** 24\_041778\_BOND\_FED\_COM\_003H\_C102\_20250403073332.pdf

24\_041778\_BOND\_FED\_COM\_003H\_C102\_Add\_Pool\_20250403073336.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	1625	FSL	1221	FEL	18S	32E	32	Aliquot NESE	32.701222	-103.783858	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	3687			Y
KOP Leg #1	1625	FSL	1221	FEL	18S	32E	32	Aliquot NESE	32.701222	-103.783858	LEA	NEW MEXI CO	NEW MEXI CO	S	STATE	-3560	7749	7247	Y



**Operator Name:** PBEX OPERATIONS LLC**Well Name:** BOND 32-34 FED COM**Well Number:** 003H

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	2200	FNL	2540	FEL	18S	32E	32	Aliquot SWNE	32.705233	- 103.788148	LEA	NEW MEXICO	NEW MEXICO	S	STATE	- 4133	8649	7820	Y
PPP Leg #1-2	2200	FNL	0	FWL	18S	32E	33	Aliquot SWNW	32.7052167	- 103.7798903	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18232	- 4133	11189	7820	Y
PPP Leg #1-3	2200	FNL	2635	FWL	18S	32E	33	Aliquot SWNE	32.7051999	- 103.771323	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 0556094	- 4133	13824	7820	Y
PPP Leg #1-4	2200	FNL	1320	FWL	18S	32E	34	Aliquot SENW	32.7051737	- 103.7584431	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 4133	17786	7820	Y
EXIT Leg #1	2200	FNL	100	FEL	18S	32E	34	Aliquot SENE	32.705147	- 103.745884	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 4133	21649	7820	Y
BHL Leg #1	2200	FNL	10	FEL	18S	32E	34	Aliquot SENE	32.705146	- 103.745591	LEA	NEW MEXICO	NEW MEXICO	F	NMNM 18302	- 4133	21739	7820	Y



**Please Refer to Amended C-102 and Plat (attached to this document)**

<b>C-102</b>  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled	

## WELL LOCATION INFORMATION

API Number	Pool Code <b>41450</b>	Pool Name <b>LUSK;BONE SPRING, NORTH</b>
Property Code	Property Name <b>BOND 32-34 FED COM</b>	Well Number <b>003H</b>
OGRID No. <b>332544</b>	Operator Name <b>PBEX Operations, LLC</b>	Ground Level Elevation <b>3,687.41'</b>
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

## Surface Location

UL <b>I</b>	Section <b>32</b>	Township <b>18S</b>	Range <b>32E</b>	Lot	Ft. from N/S <b>1,625' FSL</b>	Ft. from E/W <b>1,221' FEL</b>	Latitude <b>32.701222°</b>	Longitude <b>-103.783858°</b>	County <b>LEA</b>
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## Bottom Hole Location

UL <b>H</b>	Section <b>34</b>	Township <b>18S</b>	Range <b>32E</b>	Lot	Ft. from N/S <b>2,200' FNL</b>	Ft. from E/W <b>10' FEL</b>	Latitude <b>32.705146°</b>	Longitude <b>-103.745591°</b>	County <b>LEA</b>
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Dedicated Acres <b>480</b>	Infill or Defining Well <b>Infill</b>	Defining Well API <b>n/a</b>	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidation Code <b>n/a</b>
Order Numbers: <b>R-23685</b>			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

## Kick Off Point (KOP)

UL <b>I</b>	Section <b>32</b>	Township <b>18S</b>	Range <b>32E</b>	Lot	Ft. from N/S <b>1,625' FSL</b>	Ft. from E/W <b>1,221' FEL</b>	Latitude <b>32.701222°</b>	Longitude <b>-103.783858°</b>	County <b>LEA</b>
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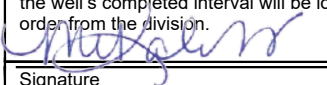
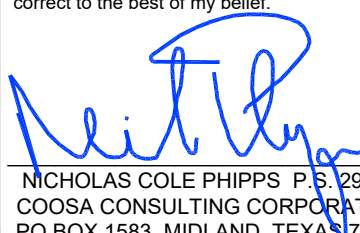
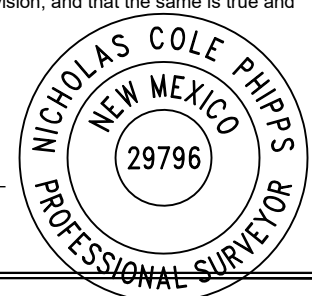
## First Take Point (FTP)

UL <b>G</b>	Section <b>32</b>	Township <b>18S</b>	Range <b>32E</b>	Lot	Ft. from N/S <b>2,200' FNL</b>	Ft. from E/W <b>2,540' FEL</b>	Latitude <b>32.705233°</b>	Longitude <b>-103.788148°</b>	County <b>LEA</b>
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## Last Take Point (LTP)

UL <b>H</b>	Section <b>34</b>	Township <b>18S</b>	Range <b>32E</b>	Lot	Ft. from N/S <b>2,200' FNL</b>	Ft. from E/W <b>100' FEL</b>	Latitude <b>32.705147°</b>	Longitude <b>-103.745884°</b>	County <b>LEA</b>
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Unitized Area or Area of Uniform Interest <b>n/a</b>	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: <b>3,687.41</b>
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<b>OPERATOR CERTIFICATIONS</b>  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.   Signature <b>Mikah Thomas</b> Printed Name <b>mikah@pbex.com</b> Email Address		<b>SURVEYOR CERTIFICATIONS</b>  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.   NICHOLAS COLE PHIPPS P.S. 29796 COOSA CONSULTING CORPORATION PO BOX 1583, MIDLAND, TEXAS 79701 Signature and Seal of Professional Surveyor  Certificate Number <b>29796</b> Date of Survey <b>11/14/2024</b>	
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Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

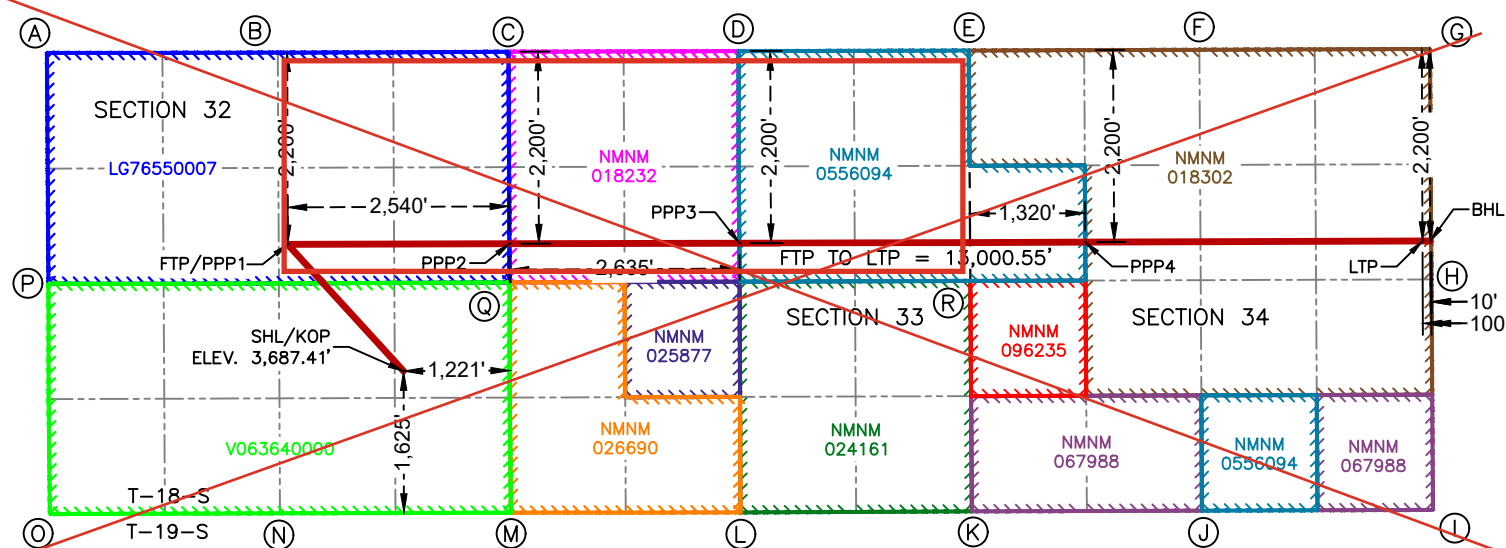


## ACREAGE DEDICATION PLATS

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

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

**Please Refer to Amended C-102 and Plat (attached to this document)**



11-14-24

**SURFACE HOLE LOCATION  
& KICK-OFF POINT**  
1,625' FSL & 1,221' FEL  
ELEV. = 3,687.41'

NAD 83 X = 710,360.35'  
NAD 83 Y = 619,273.62'  
NAD 83 LAT = 32.701222°  
NAD 83 LONG = -103.783858°

**FIRST TAKE POINT &  
PENETRATION POINT 1**  
2,200' FNL & 2,540' FEL

NAD 83 X = 709,033.27'  
NAD 83 Y = 620,726.25'  
NAD 83 LAT = 32.705233°  
NAD 83 LONG = -103.788148°

**PENETRATION POINT 2**  
2,200' FNL & 0' FWL

NAD 83 X = 711,573.26'  
NAD 83 Y = 620,733.14'  
NAD 83 LAT = 32.705216°  
NAD 83 LONG = -103.779890°

**PENETRATION POINT 3**  
2,200' FNL & 2,635' FWL

NAD 83 X = 714,208.57'  
NAD 83 Y = 620,739.96'  
NAD 83 LAT = 32.705197°  
NAD 83 LONG = -103.771323°

**PENETRATION POINT 4**  
2,200' FNL & 1,320' FWL

NAD 83 X = 718,170.46'  
NAD 83 Y = 620,751.24'  
NAD 83 LAT = 32.705169°  
NAD 83 LONG = -103.758443°

**LAST TAKE POINT**  
2,200' FNL & 100' FEL

NAD 83 X = 722,033.76'  
NAD 83 Y = 620,764.25'  
NAD 83 LAT = 32.705147°  
NAD 83 LONG = -103.745884°

**BOTTOM HOLE LOCATION**  
2,200' FNL & 10' FEL

NAD 83 X = 722,123.76'  
NAD 83 Y = 620,764.57'  
NAD 83 LAT = 32.705146°  
NAD 83 LONG = -103.745591°

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



**Please Refer to Amended C-102 and Plat (attached to this document)**

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		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
		<input type="checkbox"/> As Drilled	

## WELL LOCATION INFORMATION

API Number	Pool Code <b>50600</b>	Pool Name <b>QUERECHO PLAINS; UPPER BS</b>
Property Code	Property Name <b>BOND 32-34 FED COM</b>	Well Number <b>003H</b>
OGRID No. <b>332544</b>	Operator Name <b>PBEX Operations, LLC</b>	Ground Level Elevation <b>3,687.41'</b>
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

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Dedicated Acres <b>320</b>	Infill or Defining Well <b>Infill</b>	Defining Well API <b>n/a</b>	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidation Code <b>n/a</b>
Order Numbers: <b>R-23685</b>			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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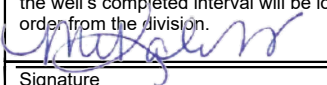
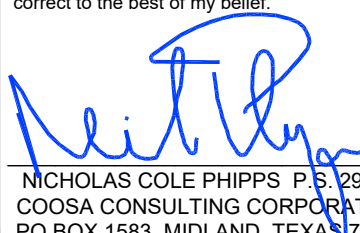
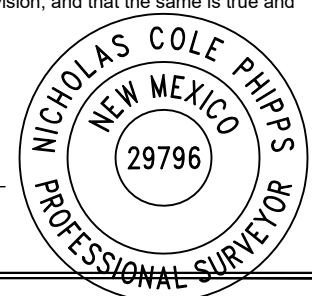
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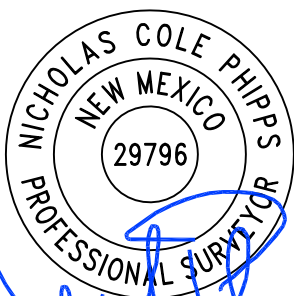
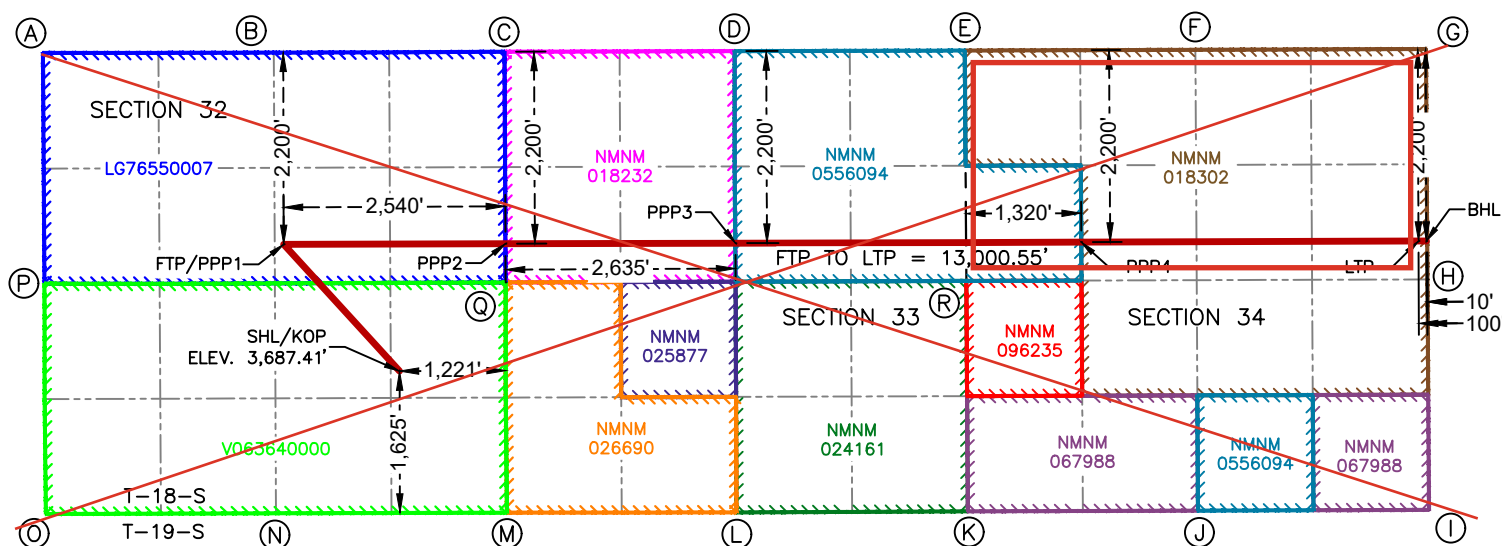


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K	N:617,667.42' E:716,871.24'
L	N:617,654.91' E:714,220.52'
M	N:617,652.16' E:711,590.74'
N	N:617,645.07' E:708,944.55'
O	N:617,637.10' E:706,308.57'
P	N:620,268.56' E:706,292.10'
Q	N:620,290.05' E:711,575.35'
R	N:620,307.39' E:716,853.63'





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

# Drilling Plan Data Report

11/30/2025

APD ID: 10400103869

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: 003H

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
16446771	QUATERNARY	3695	0	0	ALLUVIUM	NONE	N
16446773	RUSTLER	2545	1150	1150	ANHYDRITE, LIMESTONE, SALT	NONE	N
16446774	TOP OF SALT	2265	1430	1430	ANHYDRITE, SALT	NONE	N
16446775	BASE OF SALT	1520	2175	2185	ANHYDRITE, SALT	NONE	N
16446790	YATES	823	2872	2872	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16446791	SEVEN RIVERS	500	3195	3215	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16446792	QUEEN	-80	3775	3805	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16446794	SAN ANDRES	-570	4265	4295	ANHYDRITE, DOLOMITE, SANDSTONE, SHALE	NONE	N
16446779	CHERRY CANYON	-920	4615	4655	LIMESTONE, SANDSTONE, SHALE	NONE	N
16446780	BRUSHY CANYON	-1350	5045	5085	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446781	BONE SPRING LIME	-3274	6969	6999	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446782	AVALON SAND	-3495	7190	7230	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	Y
16446795	BONE SPRING 1ST	-4625	8320	8370	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446796	BONE SPRING 2ND	-4930	8625	8685	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446797	BONE SPRING 2ND	-5195	8890	8950	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446798	BONE SPRING 3RD	-5735	9430	9500	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N
16446799	BONE SPRING 3RD	-6140	9835	9915	LIMESTONE, SANDSTONE, SHALE	NATURAL GAS, OIL	N



Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 32-34 FED COM

Well Number: 003H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
16446800	WOLFCAMP	-6490	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	3687	2377	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	-283	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	-818	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: 003H

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	21739	0	7820	3643	-4133	21739	P- 110	17	OTHER - CDC HTQ	1.12 5	1.12 5	BUOY	1.6	BUOY	1.6

Casing Attachments

Casing ID: 1StringSURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

13.375\_54.5000\_0.3800\_J55\_data\_sheet\_20250228071458.pdf

Casing\_Design\_Assmpt\_3\_string\_casing\_20250228071502.pdf

Casing ID: 2StringINTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Data\_Sheet\_9.625\_Inch\_40.00\_\_J55\_BTC\_SEAH\_20250228071914.pdf

Casing\_Design\_Assmpt\_3\_string\_casing\_20250228071918.pdf



Operator Name: PBEX OPERATIONS LLC

Well Name: BOND 32-34 FED COM

Well Number: 003H

## 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\_20250228071947.pdf

Casing\_Design\_Assmpt\_3\_string\_casing\_20250228071951.pdf

## Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	1200	751	2.22	12.5	1667.3	100	C	Gel, Accelerator, LCM
SURFACE	Tail		1200	1310	83	1.84	13.2	152.8	100	C	Gel, Accelerator, LCM
INTERMEDIATE	Lead		0	3785	804	2.65	10.5	2129.5	100	C or H	Fluid Loss, Retarder, LCM, Possibly beads



**Operator Name:** PBEX OPERATIONS LLC**Well Name:** BOND 32-34 FED COM**Well Number:** 003H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail		3785	4535	240	1.33	13.2	319.2	100	C or H	Fluid Loss, Retarder, LCM
PRODUCTION	Lead		4035	7820	275	4.3	10.5	1184.4	20	H	Fluid Loss, Retarder, LCM
PRODUCTION	Tail		7820	21739	2589	1.68	13	4349.8	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	21739	OIL-BASED MUD	9.7	9.7							



**Operator Name:** PBEX OPERATIONS LLC**Well Name:** BOND 32-34 FED COM**Well Number:** 003H

## 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:** 5083**Anticipated Surface Pressure:** 3362**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\_\_003H\_\_Plan\_1\_\_20250228072157.pdf

BOND\_32\_34\_FED\_COM\_\_003H\_\_Plan\_1\_AC\_Report\_20250228072200.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\_Mid\_Avalon\_20241229113444.pdf

PBEX\_Operations\_\_LLC\_NGMP\_Best\_Practices\_20250212141054.pdf

Wellhead\_Schematic\_9.625\_10M\_3T\_20250212135648.pdf

Bond\_32\_34\_FED\_COM\_\_003H\_Drill\_Plan\_v4\_20250228072236.pdf

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



**Operator Name:** PBEX OPERATIONS LLC

**Well Name:** BOND 32-34 FED COM

**Well Number:** 003H

CONFIDENTIAL









E. G. L. Resources, Inc.

E.G.L. Resources, Inc.

Date

1/26/2024

223 W Wall St, Midland, TX 79701

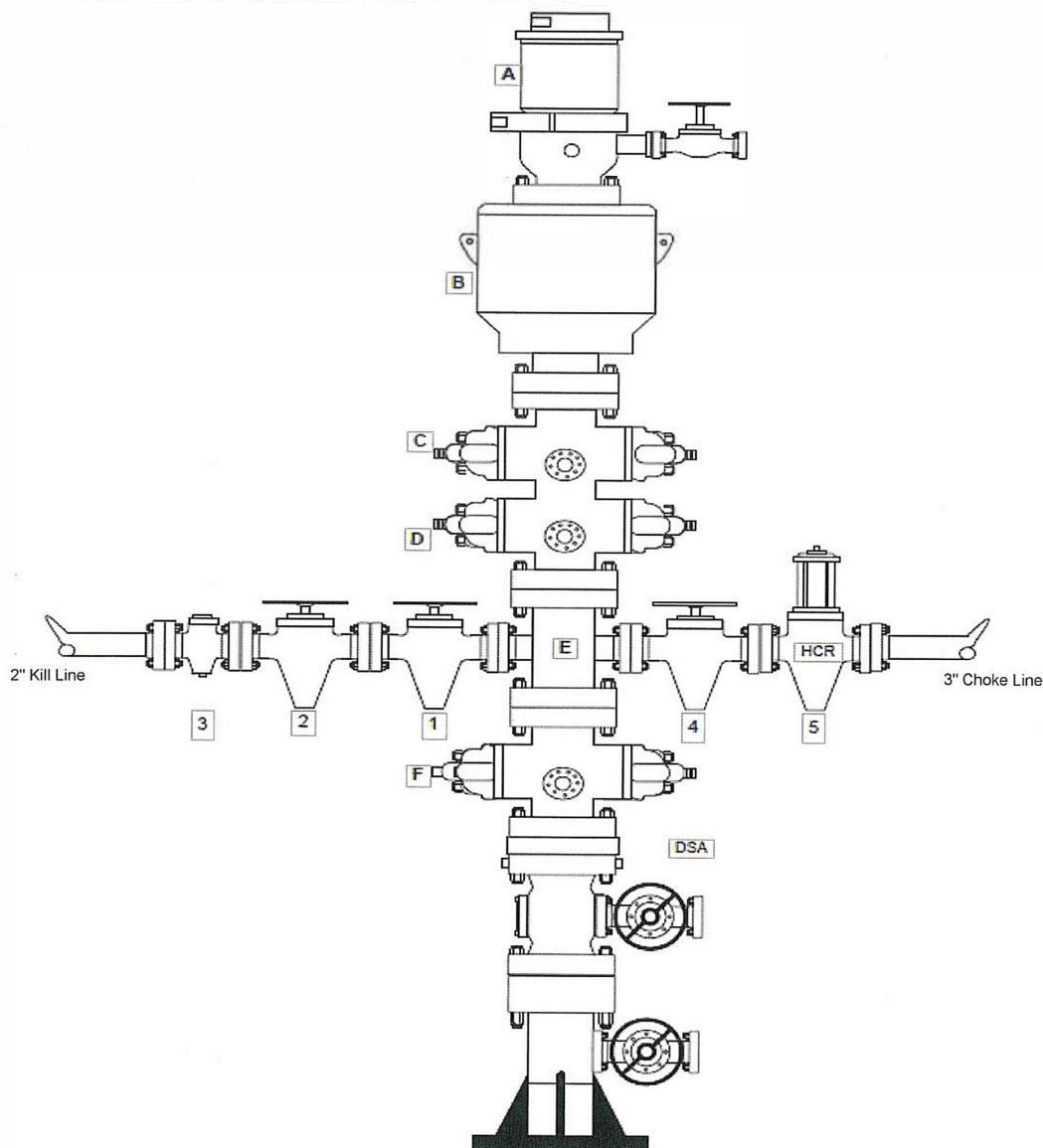
Page No.

1 of 1

## 5M BLOWOUT PREVENTER SCHEMATIC

BLOWOUT PREVENTER COMPONENTS

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



KILL LINE

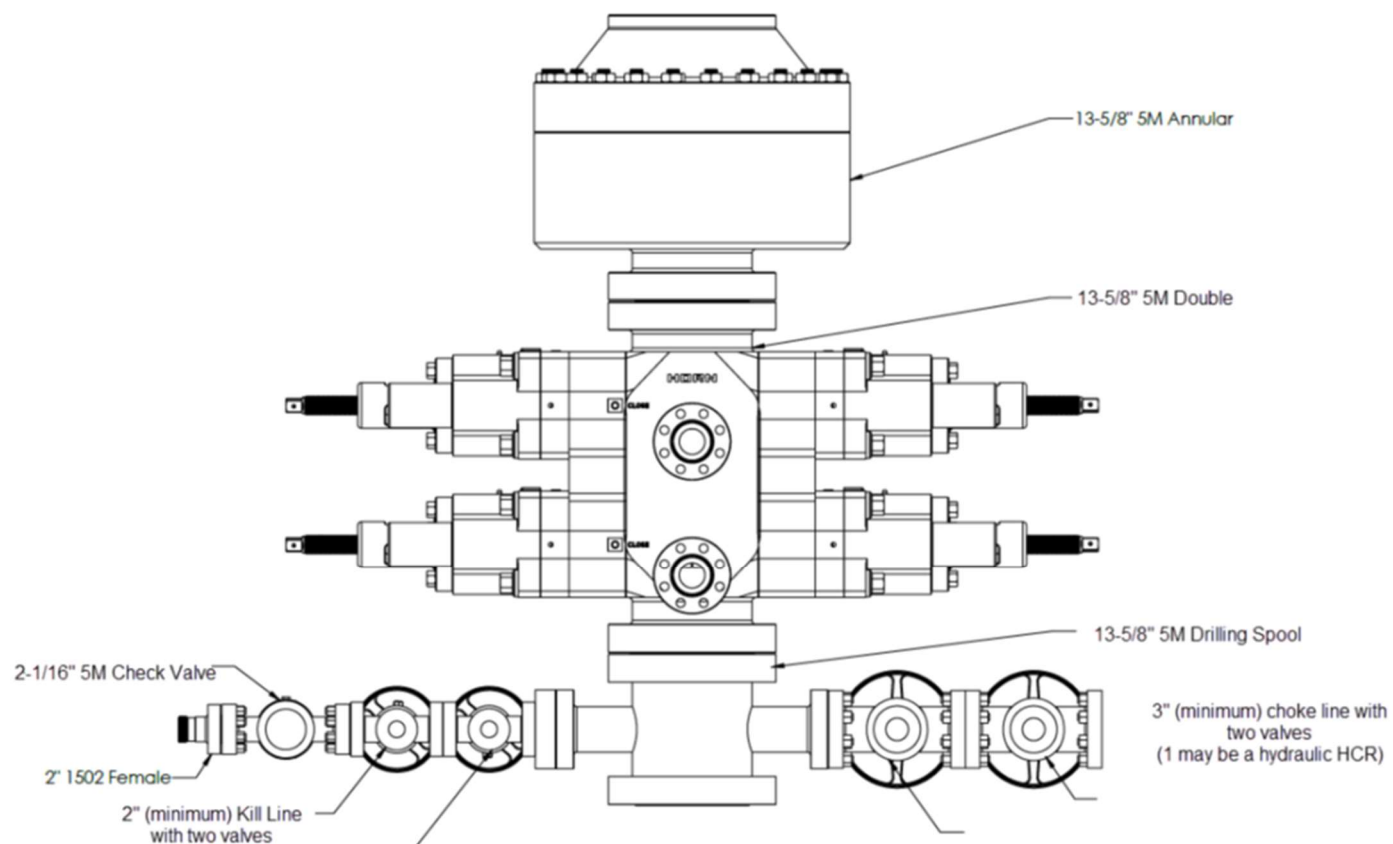
ITEM	SIZE	PRESSURE	DESCRIPTION
1	2"	5,000 psi	Gate Valve
2	2"	5,000 psi	Gate Valve
3	2"	5,000 psi	Check Valve

CHOKE LINE

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



BOP Diagram 502H





### 3-string Casing Design Assumptions

#### Surface Casing

Collapse:  $DF_C = 1.125$

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

Burst:  $DF_B = 1.125$

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

Tensile:  $DF_T = 1.60$

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

#### Intermediate Casing

Collapse:  $DF_C = 1.125$

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

Burst:  $DF_B = 1.125$

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

Tensile:  $DF_T = 1.60$

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

#### Production Casing

Collapse:  $DF_C = 1.125$

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

Burst:  $DF_B = 1.125$

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

Tensile:  $DF_T = 1.60$

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



# API 5CT Casing Performance Data Sheet

## 9 5/8" 40.00 lb/ft L80 HC

Properties are based on the requirements of API 5CT 10th edition and service characteristics of L80 Grade, and bears the API monogram.

Designed for enhanced performance through increased collapse resistance.

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

### Sizes and Weights

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

### Pipe Body Mechanical Properties

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

### Minimum Performance

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

### Inspection and Testing

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

### Color code

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





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

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

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Spring, Texas 77380

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connections@uss.com  
www.usstubular.com



### 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.
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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).





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.



### 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.
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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).



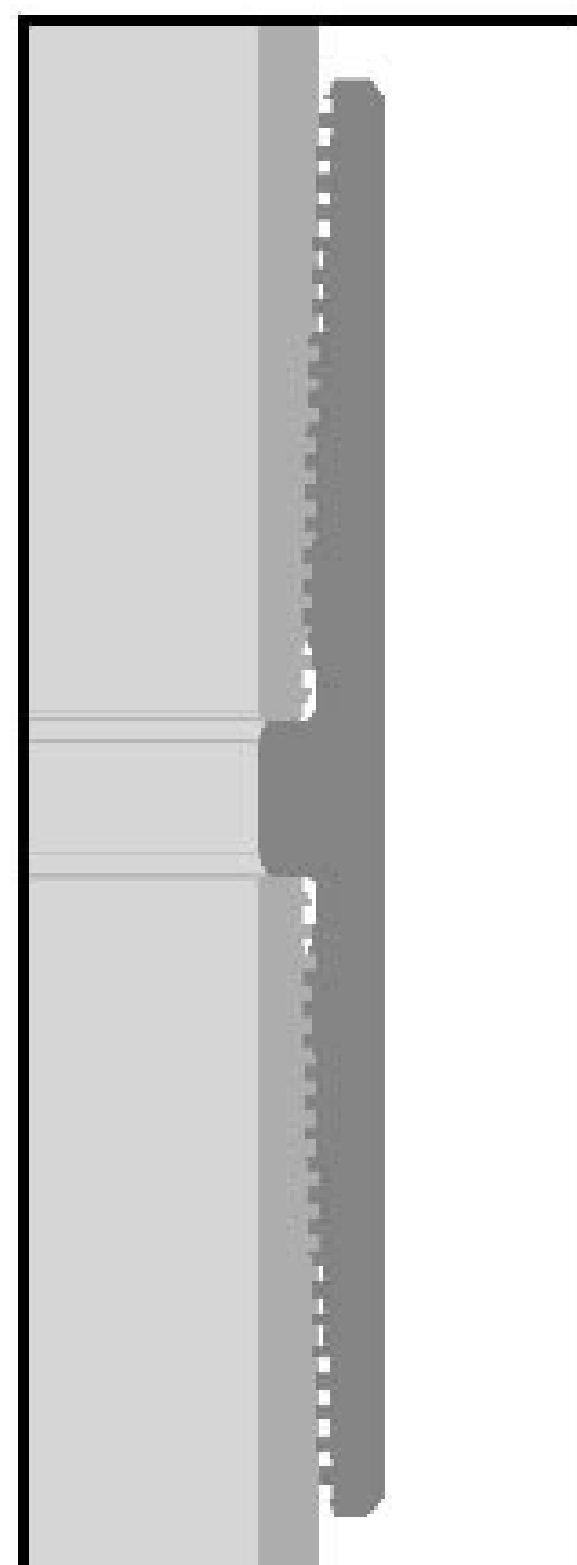
## Technical Specifications

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

VST P110 EC	<b>Material</b>
125,000	Grade
135,000	Minimum Yield Strength (psi)
	Minimum Ultimate Strength (psi)
	<b>Pipe Dimensions</b>
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)
	<b>Pipe Body Performance Properties</b>
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)
	<b>Connection Dimensions</b>
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 (%)
	<b>Connection Performance Properties</b>
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]
	<b>Appoximated Field End Torque Values</b>
16,600	Minimum Final Torque (ft-lbs)
19,100	Maximum Final Torque (ft-lbs)
21,600	Connection Yield Torque (ft-lbs)



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Fax: 713-479-3234  
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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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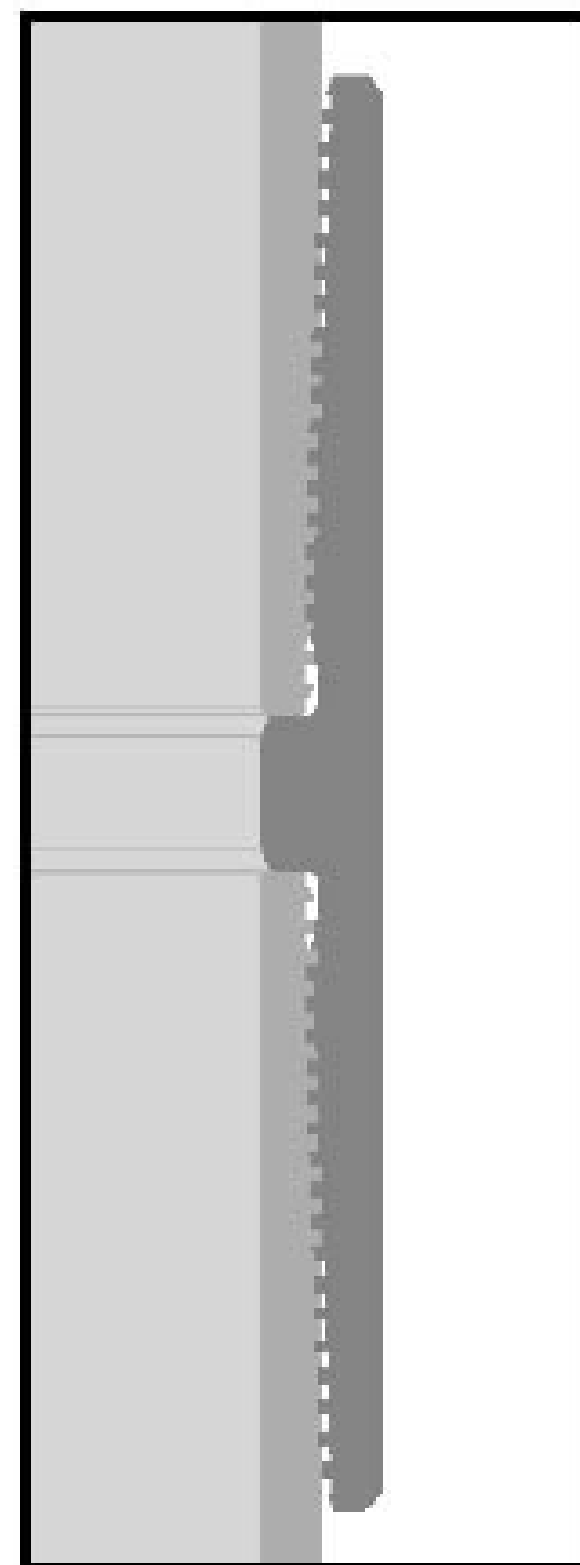
2/6/2015





### 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



### 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).





# PBEX Operations, LLC

## Hydrogen Sulfide Contingency Plan

# Safety Is Paramount!

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

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



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## 1. INTRODUCTION

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

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

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

## 2. PURPOSE

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

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

In the event there is an accidental H2S release:

- Notify and protect the general public.

- Notify the state and local government agencies.

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

This is a mandatory notification.

### A. OPERATING PROCEDURES

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

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

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

### GENERAL:

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

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





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

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

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

**C. DRILLING BELOW CONTINGENCY PLAN DEPTH**

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

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

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

**D. PROCEDURES PROGRAM**

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

**E. GENERAL**

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





### 3. EMERGENCY PHONE NUMBERS

Emergency Contact List			
Person	State	Location	Cell Phone
<b>PBEX Operations, LLC Contacts</b>			
EHS/Regulatory Manager - Mikah Thomas	Tx	Midland	(432) 661-7106
VP of Operations - Bryce Oman	Tx	Midland	(281) 627-6166
<b>Regulatory Agencies</b>			
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
<b>Medical Facilities</b>			
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
<b>Law Enforcement - Sheriff</b>			
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
<b>Law Enforcement - Police</b>			
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
<b>Law Enforcement - FBI</b>			
FBI	NM	Albuquerque	(505) 224-2000
FBI	Tx	Midland	(432) 570-0255
<b>Law Enforcement - DPS (911)</b>			
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
<b>Firefighting and Rescue (911)</b>			
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
<b>Ambulance (911)</b>			
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
<b>Medical Air Ambulance Service</b>			
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”**

<b>CONDITION I</b>	
Warning Flags:	<b>Green</b>
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 <sub>2</sub> 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.
<b>CONDITION II</b>	
Warning Flags:	<b>Yellow</b>
Alarms:	Activated at 10 ppm H <sub>2</sub> 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 <sub>2</sub> 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 <sub>2</sub> 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.
<b>CONDITION III</b>	
Warning Flags:	<b>Red</b>
Alarms:	Actuate at 15 ppm. Continuous Sirens and Flashing Lights
Characterized by:	Critical well operations which pose an immediate threat of H <sub>2</sub> 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 <sub>2</sub> S Safety Company Representative
	f. On-site personnel shall ensure that their breathing apparatus is properly fitted and operational before entering an H <sub>2</sub> 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 <sub>2</sub> S release condition.
	h. If well is ignited do not assume area is safe. SO <sub>2</sub> is hazardous and not all H <sub>2</sub> 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 <sub>1</sub>	Lethal Formula	Gravity <sub>1</sub>	PEL (OSHA) <sub>2</sub>	STEL <sub>3</sub>	LD
Hydrogen Cyanide	HCN	0.94	10	150	300
Hydrogen Sulfide	H <sub>2</sub> S	1.18	20	Peak- 50ppm	600
Sulfur Dioxide	SO <sub>2</sub>	2.21	2	5 ppm	1000
Chlorine	CL <sub>2</sub>	2.45	1		
Carbon Monoxide	CO	0.97	35	200/1 Hour	1000
Carbon Dioxide	CO <sub>2</sub>	1.52	5000	5%	10%
Methane	CH <sub>4</sub>	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 (CO<sub>2</sub>) 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% CO<sub>2</sub> without losing conscience or becoming disorientated in a few minutes. Continued exposure to CO<sub>2</sub> after being affected will cause convulsions, coma, and respiratory failure.
- The threshold limit of CO<sub>2</sub> 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 (H<sub>2</sub>S) is a colorless, transparent, flammable gas. It is heavier than air and may accumulate in low places.
- Although the slightest presence of H<sub>2</sub>S 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 H<sub>2</sub>S.





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 (SO<sub>2</sub>) is a colorless, non-flammable, transparent gas.
- b. SO<sub>2</sub> is produced during the burning of H<sub>2</sub>S. Although SO<sub>2</sub> is heavier than air, it can be picked up by a breeze and carried downwind at elevated temperatures. Since SO<sub>2</sub> 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 SO<sub>2</sub>:

SO2 CONCENTRATION		
% SO2	PPM	EFFECTS
0.0005	3 to 5	Pungent odor, normally a person can detect SO <sub>2</sub> 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 DIRECTIONAL INCLUDED IN THIS DOC



## **PBEX**

Lea, County NM (NAD 83)

Sec 33-18S-32E

BOND 32-34 FED COM #003H

Wellbore #1

Plan: Plan 1

## **Standard Planning Report**

04 February, 2025







## Planning Report



<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BOND 32-34 FED COM #003H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Project:</b>	Lea, County NM (NAD 83)	<b>MD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Site:</b>	Sec 33-18S-32E	<b>North Reference:</b>	Grid
<b>Well:</b>	BOND 32-34 FED COM #003H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

<b>Project</b>	Lea, County NM (NAD 83)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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 #003H					
Well Position	+N/-S	0.00 usft	Northing:	619,273.62 usft	Latitude:	32.70122164
	+E/-W	0.00 usft	Easting:	710,360.35 usft	Longitude:	-103.78385790
Position Uncertainty		0.50 usft	Wellhead Elevation:	usft	Ground Level:	3,687.41 usft
Grid Convergence:		0.30 °				

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

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

<b>Plan Survey Tool Program</b>	<b>Date</b>	2/4/2025			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	21,739.29 Plan 1 (Wellbore #1)	MWD+IFR1+MS		
			OWSG MWD + IFR1 + Multi-St		

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	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	
2,109.00	25.23	307.36	2,076.72	132.62	-173.71	2.50	2.50	0.00	307.36	
6,692.65	25.23	307.36	6,223.28	1,318.01	-1,726.37	0.00	0.00	0.00	0.00	
7,701.66	0.00	0.00	7,200.00	1,450.63	-1,900.08	2.50	-2.50	0.00	180.00	
7,748.70	0.00	0.00	7,247.04	1,450.63	-1,900.08	0.00	0.00	0.00	0.00	
8,648.70	90.00	89.83	7,820.00	1,452.32	-1,327.12	10.00	10.00	9.98	89.83	
21,739.29	90.00	89.83	7,820.00	1,490.95	11,763.41	0.00	0.00	0.00	0.00	BOND 32-34 003H P1





## Planning Report



<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BOND 32-34 FED COM #003H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Project:</b>	Lea, County NM (NAD 83)	<b>MD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Site:</b>	Sec 33-18S-32E	<b>North Reference:</b>	Grid
<b>Well:</b>	BOND 32-34 FED COM #003H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
Start Build 2.50									
1,200.00	2.50	307.36	1,199.97	1.32	-1.73	-1.73	2.50	2.50	0.00
1,300.00	5.00	307.36	1,299.75	5.29	-6.93	-6.93	2.50	2.50	0.00
1,400.00	7.50	307.36	1,399.14	11.90	-15.58	-15.58	2.50	2.50	0.00
1,500.00	10.00	307.36	1,497.97	21.13	-27.67	-27.67	2.50	2.50	0.00
1,600.00	12.50	307.36	1,596.04	32.97	-43.18	-43.18	2.50	2.50	0.00
1,700.00	15.00	307.36	1,693.17	47.39	-62.07	-62.07	2.50	2.50	0.00
1,800.00	17.50	307.36	1,789.17	64.37	-84.31	-84.31	2.50	2.50	0.00
1,900.00	20.00	307.36	1,883.85	83.87	-109.86	-109.86	2.50	2.50	0.00
2,000.00	22.50	307.36	1,977.05	105.86	-138.66	-138.66	2.50	2.50	0.00
2,109.00	25.23	307.36	2,076.72	132.62	-173.71	-173.71	2.50	2.50	0.00
Start 4583.65 hold at 2109.00 MD									
2,200.00	25.23	307.36	2,159.04	156.15	-204.53	-204.53	0.00	0.00	0.00
2,300.00	25.23	307.36	2,249.51	182.01	-238.41	-238.41	0.00	0.00	0.00
2,400.00	25.23	307.36	2,339.97	207.88	-272.28	-272.28	0.00	0.00	0.00
2,500.00	25.23	307.36	2,430.43	233.74	-306.16	-306.16	0.00	0.00	0.00
2,600.00	25.23	307.36	2,520.90	259.60	-340.03	-340.03	0.00	0.00	0.00
2,700.00	25.23	307.36	2,611.36	285.46	-373.90	-373.90	0.00	0.00	0.00
2,800.00	25.23	307.36	2,701.83	311.32	-407.78	-407.78	0.00	0.00	0.00
2,900.00	25.23	307.36	2,792.29	337.18	-441.65	-441.65	0.00	0.00	0.00
3,000.00	25.23	307.36	2,882.75	363.04	-475.53	-475.53	0.00	0.00	0.00
3,100.00	25.23	307.36	2,973.22	388.90	-509.40	-509.40	0.00	0.00	0.00
3,200.00	25.23	307.36	3,063.68	414.77	-543.27	-543.27	0.00	0.00	0.00
3,300.00	25.23	307.36	3,154.15	440.63	-577.15	-577.15	0.00	0.00	0.00
3,400.00	25.23	307.36	3,244.61	466.49	-611.02	-611.02	0.00	0.00	0.00
3,500.00	25.23	307.36	3,335.07	492.35	-644.89	-644.89	0.00	0.00	0.00
3,600.00	25.23	307.36	3,425.54	518.21	-678.77	-678.77	0.00	0.00	0.00
3,700.00	25.23	307.36	3,516.00	544.07	-712.64	-712.64	0.00	0.00	0.00
3,800.00	25.23	307.36	3,606.47	569.93	-746.52	-746.52	0.00	0.00	0.00
3,900.00	25.23	307.36	3,696.93	595.79	-780.39	-780.39	0.00	0.00	0.00
4,000.00	25.23	307.36	3,787.40	621.66	-814.26	-814.26	0.00	0.00	0.00
4,100.00	25.23	307.36	3,877.86	647.52	-848.14	-848.14	0.00	0.00	0.00
4,200.00	25.23	307.36	3,968.32	673.38	-882.01	-882.01	0.00	0.00	0.00
4,300.00	25.23	307.36	4,058.79	699.24	-915.89	-915.89	0.00	0.00	0.00
4,400.00	25.23	307.36	4,149.25	725.10	-949.76	-949.76	0.00	0.00	0.00
4,500.00	25.23	307.36	4,239.72	750.96	-983.63	-983.63	0.00	0.00	0.00
4,600.00	25.23	307.36	4,330.18	776.82	-1,017.51	-1,017.51	0.00	0.00	0.00
4,700.00	25.23	307.36	4,420.64	802.68	-1,051.38	-1,051.38	0.00	0.00	0.00
4,800.00	25.23	307.36	4,511.11	828.55	-1,085.26	-1,085.26	0.00	0.00	0.00
4,900.00	25.23	307.36	4,601.57	854.41	-1,119.13	-1,119.13	0.00	0.00	0.00
5,000.00	25.23	307.36	4,692.04	880.27	-1,153.00	-1,153.00	0.00	0.00	0.00





## Planning Report



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<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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	25.23	307.36	4,782.50	906.13	-1,186.88	-1,186.88	0.00	0.00	0.00	
5,200.00	25.23	307.36	4,872.96	931.99	-1,220.75	-1,220.75	0.00	0.00	0.00	
5,300.00	25.23	307.36	4,963.43	957.85	-1,254.62	-1,254.62	0.00	0.00	0.00	
5,400.00	25.23	307.36	5,053.89	983.71	-1,288.50	-1,288.50	0.00	0.00	0.00	
5,500.00	25.23	307.36	5,144.36	1,009.58	-1,322.37	-1,322.37	0.00	0.00	0.00	
5,600.00	25.23	307.36	5,234.82	1,035.44	-1,356.25	-1,356.25	0.00	0.00	0.00	
5,700.00	25.23	307.36	5,325.28	1,061.30	-1,390.12	-1,390.12	0.00	0.00	0.00	
5,800.00	25.23	307.36	5,415.75	1,087.16	-1,423.99	-1,423.99	0.00	0.00	0.00	
5,900.00	25.23	307.36	5,506.21	1,113.02	-1,457.87	-1,457.87	0.00	0.00	0.00	
6,000.00	25.23	307.36	5,596.68	1,138.88	-1,491.74	-1,491.74	0.00	0.00	0.00	
6,100.00	25.23	307.36	5,687.14	1,164.74	-1,525.62	-1,525.62	0.00	0.00	0.00	
6,200.00	25.23	307.36	5,777.61	1,190.60	-1,559.49	-1,559.49	0.00	0.00	0.00	
6,300.00	25.23	307.36	5,868.07	1,216.47	-1,593.36	-1,593.36	0.00	0.00	0.00	
6,400.00	25.23	307.36	5,958.53	1,242.33	-1,627.24	-1,627.24	0.00	0.00	0.00	
6,500.00	25.23	307.36	6,049.00	1,268.19	-1,661.11	-1,661.11	0.00	0.00	0.00	
6,600.00	25.23	307.36	6,139.46	1,294.05	-1,694.99	-1,694.99	0.00	0.00	0.00	
6,692.65	25.23	307.36	6,223.28	1,318.01	-1,726.37	-1,726.37	0.00	0.00	0.00	
<b>Start Drop -2.50</b>										
6,700.00	25.04	307.36	6,229.93	1,319.90	-1,728.85	-1,728.85	2.50	-2.50	0.00	
6,800.00	22.54	307.36	6,321.43	1,344.38	-1,760.91	-1,760.91	2.50	-2.50	0.00	
6,900.00	20.04	307.36	6,414.59	1,366.41	-1,789.77	-1,789.77	2.50	-2.50	0.00	
7,000.00	17.54	307.36	6,509.26	1,385.96	-1,815.37	-1,815.37	2.50	-2.50	0.00	
7,100.00	15.04	307.36	6,605.23	1,402.98	-1,837.67	-1,837.67	2.50	-2.50	0.00	
7,200.00	12.54	307.36	6,702.34	1,417.45	-1,856.61	-1,856.61	2.50	-2.50	0.00	
7,300.00	10.04	307.36	6,800.40	1,429.33	-1,872.18	-1,872.18	2.50	-2.50	0.00	
7,400.00	7.54	307.36	6,899.22	1,438.60	-1,884.32	-1,884.32	2.50	-2.50	0.00	
7,500.00	5.04	307.36	6,998.61	1,445.25	-1,893.03	-1,893.03	2.50	-2.50	0.00	
7,600.00	2.54	307.36	7,098.38	1,449.26	-1,898.29	-1,898.29	2.50	-2.50	0.00	
7,701.66	0.00	0.00	7,200.00	1,450.63	-1,900.08	-1,900.08	2.50	-2.50	0.00	
<b>Start 47.04 hold at 7701.65 MD</b>										
7,748.70	0.00	0.00	7,247.04	1,450.63	-1,900.08	-1,900.08	0.00	0.00	0.00	
<b>Start DLS 10.00 TFO 89.83</b>										
7,750.00	0.13	89.83	7,248.35	1,450.63	-1,900.08	-1,900.08	10.00	10.00	0.00	
7,800.00	5.13	89.83	7,298.28	1,450.64	-1,897.78	-1,897.78	10.00	10.00	0.00	
7,850.00	10.13	89.83	7,347.82	1,450.66	-1,891.15	-1,891.15	10.00	10.00	0.00	
7,900.00	15.13	89.83	7,396.59	1,450.69	-1,880.22	-1,880.22	10.00	10.00	0.00	
7,950.00	20.13	89.83	7,444.23	1,450.73	-1,865.08	-1,865.08	10.00	10.00	0.00	
8,000.00	25.13	89.83	7,490.36	1,450.79	-1,845.85	-1,845.85	10.00	10.00	0.00	
8,050.00	30.13	89.83	7,534.65	1,450.86	-1,822.66	-1,822.66	10.00	10.00	0.00	
8,100.00	35.13	89.83	7,576.74	1,450.94	-1,795.71	-1,795.71	10.00	10.00	0.00	
8,150.00	40.13	89.83	7,616.33	1,451.03	-1,765.19	-1,765.19	10.00	10.00	0.00	
8,200.00	45.13	89.83	7,653.10	1,451.13	-1,731.34	-1,731.34	10.00	10.00	0.00	
8,250.00	50.13	89.83	7,686.79	1,451.24	-1,694.41	-1,694.41	10.00	10.00	0.00	
8,300.00	55.13	89.83	7,717.13	1,451.35	-1,654.69	-1,654.69	10.00	10.00	0.00	
8,350.00	60.13	89.83	7,743.89	1,451.48	-1,612.47	-1,612.47	10.00	10.00	0.00	
8,400.00	65.13	89.83	7,766.87	1,451.61	-1,568.08	-1,568.08	10.00	10.00	0.00	
8,450.00	70.13	89.83	7,785.89	1,451.75	-1,521.86	-1,521.86	10.00	10.00	0.00	
8,500.00	75.13	89.83	7,800.81	1,451.89	-1,474.16	-1,474.16	10.00	10.00	0.00	
8,550.00	80.13	89.83	7,811.52	1,452.03	-1,425.33	-1,425.33	10.00	10.00	0.00	
8,600.00	85.13	89.83	7,817.93	1,452.18	-1,375.76	-1,375.76	10.00	10.00	0.00	
8,648.70	90.00	89.83	7,820.00	1,452.32	-1,327.12	-1,327.12	10.00	10.00	0.00	
<b>Start 13090.59 hold at 8648.69 MD</b>										
8,700.00	90.00	89.83	7,820.00	1,452.47	-1,275.82	-1,275.82	0.00	0.00	0.00	





## Planning Report



<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BOND 32-34 FED COM #003H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Project:</b>	Lea, County NM (NAD 83)	<b>MD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Site:</b>	Sec 33-18S-32E	<b>North Reference:</b>	Grid
<b>Well:</b>	BOND 32-34 FED COM #003H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Plan 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,800.00	90.00	89.83	7,820.00	1,452.77	-1,175.82	-1,175.82	0.00	0.00	0.00	
8,900.00	90.00	89.83	7,820.00	1,453.06	-1,075.82	-1,075.82	0.00	0.00	0.00	
9,000.00	90.00	89.83	7,820.00	1,453.36	-975.82	-975.82	0.00	0.00	0.00	
9,100.00	90.00	89.83	7,820.00	1,453.65	-875.82	-875.82	0.00	0.00	0.00	
9,200.00	90.00	89.83	7,820.00	1,453.95	-775.82	-775.82	0.00	0.00	0.00	
9,300.00	90.00	89.83	7,820.00	1,454.24	-675.82	-675.82	0.00	0.00	0.00	
9,400.00	90.00	89.83	7,820.00	1,454.54	-575.82	-575.82	0.00	0.00	0.00	
9,500.00	90.00	89.83	7,820.00	1,454.83	-475.82	-475.82	0.00	0.00	0.00	
9,600.00	90.00	89.83	7,820.00	1,455.13	-375.82	-375.82	0.00	0.00	0.00	
9,700.00	90.00	89.83	7,820.00	1,455.42	-275.82	-275.82	0.00	0.00	0.00	
9,800.00	90.00	89.83	7,820.00	1,455.72	-175.82	-175.82	0.00	0.00	0.00	
9,900.00	90.00	89.83	7,820.00	1,456.01	-75.83	-75.83	0.00	0.00	0.00	
10,000.00	90.00	89.83	7,820.00	1,456.31	24.17	24.17	0.00	0.00	0.00	
10,100.00	90.00	89.83	7,820.00	1,456.60	124.17	124.17	0.00	0.00	0.00	
10,200.00	90.00	89.83	7,820.00	1,456.90	224.17	224.17	0.00	0.00	0.00	
10,300.00	90.00	89.83	7,820.00	1,457.19	324.17	324.17	0.00	0.00	0.00	
10,400.00	90.00	89.83	7,820.00	1,457.49	424.17	424.17	0.00	0.00	0.00	
10,500.00	90.00	89.83	7,820.00	1,457.78	524.17	524.17	0.00	0.00	0.00	
10,600.00	90.00	89.83	7,820.00	1,458.08	624.17	624.17	0.00	0.00	0.00	
10,700.00	90.00	89.83	7,820.00	1,458.37	724.17	724.17	0.00	0.00	0.00	
10,800.00	90.00	89.83	7,820.00	1,458.67	824.17	824.17	0.00	0.00	0.00	
10,900.00	90.00	89.83	7,820.00	1,458.96	924.17	924.17	0.00	0.00	0.00	
11,000.00	90.00	89.83	7,820.00	1,459.26	1,024.17	1,024.17	0.00	0.00	0.00	
11,100.00	90.00	89.83	7,820.00	1,459.55	1,124.17	1,124.17	0.00	0.00	0.00	
11,200.00	90.00	89.83	7,820.00	1,459.85	1,224.17	1,224.17	0.00	0.00	0.00	
11,300.00	90.00	89.83	7,820.00	1,460.14	1,324.17	1,324.17	0.00	0.00	0.00	
11,400.00	90.00	89.83	7,820.00	1,460.44	1,424.17	1,424.17	0.00	0.00	0.00	
11,500.00	90.00	89.83	7,820.00	1,460.73	1,524.17	1,524.17	0.00	0.00	0.00	
11,600.00	90.00	89.83	7,820.00	1,461.03	1,624.17	1,624.17	0.00	0.00	0.00	
11,700.00	90.00	89.83	7,820.00	1,461.32	1,724.17	1,724.17	0.00	0.00	0.00	
11,800.00	90.00	89.83	7,820.00	1,461.62	1,824.17	1,824.17	0.00	0.00	0.00	
11,900.00	90.00	89.83	7,820.00	1,461.92	1,924.17	1,924.17	0.00	0.00	0.00	
12,000.00	90.00	89.83	7,820.00	1,462.21	2,024.17	2,024.17	0.00	0.00	0.00	
12,100.00	90.00	89.83	7,820.00	1,462.51	2,124.17	2,124.17	0.00	0.00	0.00	
12,200.00	90.00	89.83	7,820.00	1,462.80	2,224.16	2,224.16	0.00	0.00	0.00	
12,300.00	90.00	89.83	7,820.00	1,463.10	2,324.16	2,324.16	0.00	0.00	0.00	
12,400.00	90.00	89.83	7,820.00	1,463.39	2,424.16	2,424.16	0.00	0.00	0.00	
12,500.00	90.00	89.83	7,820.00	1,463.69	2,524.16	2,524.16	0.00	0.00	0.00	
12,600.00	90.00	89.83	7,820.00	1,463.98	2,624.16	2,624.16	0.00	0.00	0.00	
12,700.00	90.00	89.83	7,820.00	1,464.28	2,724.16	2,724.16	0.00	0.00	0.00	
12,800.00	90.00	89.83	7,820.00	1,464.57	2,824.16	2,824.16	0.00	0.00	0.00	
12,900.00	90.00	89.83	7,820.00	1,464.87	2,924.16	2,924.16	0.00	0.00	0.00	
13,000.00	90.00	89.83	7,820.00	1,465.16	3,024.16	3,024.16	0.00	0.00	0.00	
13,100.00	90.00	89.83	7,820.00	1,465.46	3,124.16	3,124.16	0.00	0.00	0.00	
13,200.00	90.00	89.83	7,820.00	1,465.75	3,224.16	3,224.16	0.00	0.00	0.00	
13,300.00	90.00	89.83	7,820.00	1,466.05	3,324.16	3,324.16	0.00	0.00	0.00	
13,400.00	90.00	89.83	7,820.00	1,466.34	3,424.16	3,424.16	0.00	0.00	0.00	
13,500.00	90.00	89.83	7,820.00	1,466.64	3,524.16	3,524.16	0.00	0.00	0.00	
13,600.00	90.00	89.83	7,820.00	1,466.93	3,624.16	3,624.16	0.00	0.00	0.00	
13,700.00	90.00	89.83	7,820.00	1,467.23	3,724.16	3,724.16	0.00	0.00	0.00	
13,800.00	90.00	89.83	7,820.00	1,467.52	3,824.16	3,824.16	0.00	0.00	0.00	
13,900.00	90.00	89.83	7,820.00	1,467.82	3,924.16	3,924.16	0.00	0.00	0.00	
14,000.00	90.00	89.83	7,820.00	1,468.11	4,024.16	4,024.16	0.00	0.00	0.00	
14,100.00	90.00	89.83	7,820.00	1,468.41	4,124.16	4,124.16	0.00	0.00	0.00	





## Planning Report



<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BOND 32-34 FED COM #003H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Project:</b>	Lea, County NM (NAD 83)	<b>MD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Site:</b>	Sec 33-18S-32E	<b>North Reference:</b>	Grid
<b>Well:</b>	BOND 32-34 FED COM #003H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
14,200.00	90.00	89.83	7,820.00	1,468.70	4,224.16	4,224.16	0.00	0.00	0.00	
14,300.00	90.00	89.83	7,820.00	1,469.00	4,324.16	4,324.16	0.00	0.00	0.00	
14,400.00	90.00	89.83	7,820.00	1,469.29	4,424.16	4,424.16	0.00	0.00	0.00	
14,500.00	90.00	89.83	7,820.00	1,469.59	4,524.15	4,524.15	0.00	0.00	0.00	
14,600.00	90.00	89.83	7,820.00	1,469.88	4,624.15	4,624.15	0.00	0.00	0.00	
14,700.00	90.00	89.83	7,820.00	1,470.18	4,724.15	4,724.15	0.00	0.00	0.00	
14,800.00	90.00	89.83	7,820.00	1,470.47	4,824.15	4,824.15	0.00	0.00	0.00	
14,900.00	90.00	89.83	7,820.00	1,470.77	4,924.15	4,924.15	0.00	0.00	0.00	
15,000.00	90.00	89.83	7,820.00	1,471.06	5,024.15	5,024.15	0.00	0.00	0.00	
15,100.00	90.00	89.83	7,820.00	1,471.36	5,124.15	5,124.15	0.00	0.00	0.00	
15,200.00	90.00	89.83	7,820.00	1,471.65	5,224.15	5,224.15	0.00	0.00	0.00	
15,300.00	90.00	89.83	7,820.00	1,471.95	5,324.15	5,324.15	0.00	0.00	0.00	
15,400.00	90.00	89.83	7,820.00	1,472.24	5,424.15	5,424.15	0.00	0.00	0.00	
15,500.00	90.00	89.83	7,820.00	1,472.54	5,524.15	5,524.15	0.00	0.00	0.00	
15,600.00	90.00	89.83	7,820.00	1,472.83	5,624.15	5,624.15	0.00	0.00	0.00	
15,700.00	90.00	89.83	7,820.00	1,473.13	5,724.15	5,724.15	0.00	0.00	0.00	
15,800.00	90.00	89.83	7,820.00	1,473.42	5,824.15	5,824.15	0.00	0.00	0.00	
15,900.00	90.00	89.83	7,820.00	1,473.72	5,924.15	5,924.15	0.00	0.00	0.00	
16,000.00	90.00	89.83	7,820.00	1,474.01	6,024.15	6,024.15	0.00	0.00	0.00	
16,100.00	90.00	89.83	7,820.00	1,474.31	6,124.15	6,124.15	0.00	0.00	0.00	
16,200.00	90.00	89.83	7,820.00	1,474.60	6,224.15	6,224.15	0.00	0.00	0.00	
16,300.00	90.00	89.83	7,820.00	1,474.90	6,324.15	6,324.15	0.00	0.00	0.00	
16,400.00	90.00	89.83	7,820.00	1,475.19	6,424.15	6,424.15	0.00	0.00	0.00	
16,500.00	90.00	89.83	7,820.00	1,475.49	6,524.15	6,524.15	0.00	0.00	0.00	
16,600.00	90.00	89.83	7,820.00	1,475.78	6,624.15	6,624.15	0.00	0.00	0.00	
16,700.00	90.00	89.83	7,820.00	1,476.08	6,724.15	6,724.15	0.00	0.00	0.00	
16,800.00	90.00	89.83	7,820.00	1,476.37	6,824.15	6,824.15	0.00	0.00	0.00	
16,900.00	90.00	89.83	7,820.00	1,476.67	6,924.14	6,924.14	0.00	0.00	0.00	
17,000.00	90.00	89.83	7,820.00	1,476.96	7,024.14	7,024.14	0.00	0.00	0.00	
17,100.00	90.00	89.83	7,820.00	1,477.26	7,124.14	7,124.14	0.00	0.00	0.00	
17,200.00	90.00	89.83	7,820.00	1,477.55	7,224.14	7,224.14	0.00	0.00	0.00	
17,300.00	90.00	89.83	7,820.00	1,477.85	7,324.14	7,324.14	0.00	0.00	0.00	
17,400.00	90.00	89.83	7,820.00	1,478.15	7,424.14	7,424.14	0.00	0.00	0.00	
17,500.00	90.00	89.83	7,820.00	1,478.44	7,524.14	7,524.14	0.00	0.00	0.00	
17,600.00	90.00	89.83	7,820.00	1,478.74	7,624.14	7,624.14	0.00	0.00	0.00	
17,700.00	90.00	89.83	7,820.00	1,479.03	7,724.14	7,724.14	0.00	0.00	0.00	
17,800.00	90.00	89.83	7,820.00	1,479.33	7,824.14	7,824.14	0.00	0.00	0.00	
17,900.00	90.00	89.83	7,820.00	1,479.62	7,924.14	7,924.14	0.00	0.00	0.00	
18,000.00	90.00	89.83	7,820.00	1,479.92	8,024.14	8,024.14	0.00	0.00	0.00	
18,100.00	90.00	89.83	7,820.00	1,480.21	8,124.14	8,124.14	0.00	0.00	0.00	
18,200.00	90.00	89.83	7,820.00	1,480.51	8,224.14	8,224.14	0.00	0.00	0.00	
18,300.00	90.00	89.83	7,820.00	1,480.80	8,324.14	8,324.14	0.00	0.00	0.00	
18,400.00	90.00	89.83	7,820.00	1,481.10	8,424.14	8,424.14	0.00	0.00	0.00	
18,500.00	90.00	89.83	7,820.00	1,481.39	8,524.14	8,524.14	0.00	0.00	0.00	
18,600.00	90.00	89.83	7,820.00	1,481.69	8,624.14	8,624.14	0.00	0.00	0.00	
18,700.00	90.00	89.83	7,820.00	1,481.98	8,724.14	8,724.14	0.00	0.00	0.00	
18,800.00	90.00	89.83	7,820.00	1,482.28	8,824.14	8,824.14	0.00	0.00	0.00	
18,900.00	90.00	89.83	7,820.00	1,482.57	8,924.14	8,924.14	0.00	0.00	0.00	
19,000.00	90.00	89.83	7,820.00	1,482.87	9,024.14	9,024.14	0.00	0.00	0.00	
19,100.00	90.00	89.83	7,820.00	1,483.16	9,124.14	9,124.14	0.00	0.00	0.00	
19,200.00	90.00	89.83	7,820.00	1,483.46	9,224.13	9,224.13	0.00	0.00	0.00	
19,300.00	90.00	89.83	7,820.00	1,483.75	9,324.13	9,324.13	0.00	0.00	0.00	
19,400.00	90.00	89.83	7,820.00	1,484.05	9,424.13	9,424.13	0.00	0.00	0.00	
19,500.00	90.00	89.83	7,820.00	1,484.34	9,524.13	9,524.13	0.00	0.00	0.00	





## Planning Report



<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BOND 32-34 FED COM #003H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Project:</b>	Lea, County NM (NAD 83)	<b>MD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Site:</b>	Sec 33-18S-32E	<b>North Reference:</b>	Grid
<b>Well:</b>	BOND 32-34 FED COM #003H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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)	
19,600.00	90.00	89.83	7,820.00	1,484.64	9,624.13	9,624.13	0.00	0.00	0.00	
19,700.00	90.00	89.83	7,820.00	1,484.93	9,724.13	9,724.13	0.00	0.00	0.00	
19,800.00	90.00	89.83	7,820.00	1,485.23	9,824.13	9,824.13	0.00	0.00	0.00	
19,900.00	90.00	89.83	7,820.00	1,485.52	9,924.13	9,924.13	0.00	0.00	0.00	
20,000.00	90.00	89.83	7,820.00	1,485.82	10,024.13	10,024.13	0.00	0.00	0.00	
20,100.00	90.00	89.83	7,820.00	1,486.11	10,124.13	10,124.13	0.00	0.00	0.00	
20,200.00	90.00	89.83	7,820.00	1,486.41	10,224.13	10,224.13	0.00	0.00	0.00	
20,300.00	90.00	89.83	7,820.00	1,486.70	10,324.13	10,324.13	0.00	0.00	0.00	
20,400.00	90.00	89.83	7,820.00	1,487.00	10,424.13	10,424.13	0.00	0.00	0.00	
20,500.00	90.00	89.83	7,820.00	1,487.29	10,524.13	10,524.13	0.00	0.00	0.00	
20,600.00	90.00	89.83	7,820.00	1,487.59	10,624.13	10,624.13	0.00	0.00	0.00	
20,700.00	90.00	89.83	7,820.00	1,487.88	10,724.13	10,724.13	0.00	0.00	0.00	
20,800.00	90.00	89.83	7,820.00	1,488.18	10,824.13	10,824.13	0.00	0.00	0.00	
20,900.00	90.00	89.83	7,820.00	1,488.47	10,924.13	10,924.13	0.00	0.00	0.00	
21,000.00	90.00	89.83	7,820.00	1,488.77	11,024.13	11,024.13	0.00	0.00	0.00	
21,100.00	90.00	89.83	7,820.00	1,489.06	11,124.13	11,124.13	0.00	0.00	0.00	
21,200.00	90.00	89.83	7,820.00	1,489.36	11,224.13	11,224.13	0.00	0.00	0.00	
21,300.00	90.00	89.83	7,820.00	1,489.65	11,324.13	11,324.13	0.00	0.00	0.00	
21,400.00	90.00	89.83	7,820.00	1,489.95	11,424.13	11,424.13	0.00	0.00	0.00	
21,500.00	90.00	89.83	7,820.00	1,490.24	11,524.12	11,524.12	0.00	0.00	0.00	
21,600.00	90.00	89.83	7,820.00	1,490.54	11,624.12	11,624.12	0.00	0.00	0.00	
21,700.00	90.00	89.83	7,820.00	1,490.83	11,724.12	11,724.12	0.00	0.00	0.00	
21,739.29	90.00	89.83	7,820.00	1,490.95	11,763.41	11,763.41	0.00	0.00	0.00	
TD at 21739.29										





## Planning Report



<b>Database:</b>	1 - EDM Production	<b>Local Co-ordinate Reference:</b>	Well BOND 32-34 FED COM #003H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Project:</b>	Lea, County NM (NAD 83)	<b>MD Reference:</b>	RKB 30' + 3687.41 GL @ 3717.41usft
<b>Site:</b>	Sec 33-18S-32E	<b>North Reference:</b>	Grid
<b>Well:</b>	BOND 32-34 FED COM #003H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	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
BOND 32-34 003H SHLI - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	619,273.62	710,360.35	32.70122164	-103.78385790
BOND 32-34 003H PP2( - plan misses target center by 0.30usft at 11188.74usft MD (7820.00 TVD, 1459.82 N, 1212.91 E) - Point	0.00	0.00	7,820.00	1,459.52	1,212.91	620,733.14	711,573.26	32.70521590	-103.77989025
BOND 32-34 003H LTP( - plan misses target center by 0.05usft at 21649.29usft MD (7820.00 TVD, 1490.68 N, 11673.41 E) - Point	0.00	0.00	7,820.00	1,490.63	11,673.41	620,764.25	722,033.76	32.70514673	-103.74588370
BOND 32-34 003H FTP( - plan misses target center by 0.31usft at 8648.74usft MD (7820.00 TVD, 1452.32 N, -1327.08 E) - Point	0.00	0.00	7,820.00	1,452.63	-1,327.08	620,726.25	709,033.27	32.70523313	-103.78814765
BOND 32-34 003H PBH - plan hits target center - Point	0.00	0.00	7,820.00	1,490.95	11,763.41	620,764.57	722,123.76	32.70514624	-103.74559111
BOND 32-34 003H PP3( - plan misses target center by 1.25usft at 13824.06usft MD (7820.00 TVD, 1467.59 N, 3848.22 E) - Point	0.00	0.00	7,820.00	1,466.34	3,848.22	620,739.96	714,208.57	32.70519655	-103.77132299
BOND 32-34 003H PP4( - plan misses target center by 1.66usft at 17785.96usft MD (7820.00 TVD, 1479.28 N, 7810.11 E) - Point	0.00	0.00	7,820.00	1,477.62	7,810.11	620,751.24	718,170.46	32.70516917	-103.75844310

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
21,739.29	7,820.00	20" Casing	20	24	

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,100.00	1,100.00	0.00	0.00	Start Build 2.50
2,109.00	2,076.72	132.62	-173.71	Start 4583.65 hold at 2109.00 MD
6,692.65	6,223.28	1,318.01	-1,726.37	Start Drop -2.50
7,701.66	7,200.00	1,450.63	-1,900.08	Start 47.04 hold at 7701.65 MD
7,748.70	7,247.04	1,450.63	-1,900.08	Start DLS 10.00 TFO 89.83
8,648.70	7,820.00	1,452.32	-1,327.12	Start 13090.59 hold at 8648.69 MD
21,739.29	7,820.00	1,490.95	11,763.41	TD at 21739.29





LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

CERTIFICATE OF QUALITY

LTYT/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 <sup>rd</sup> edition
Inspection Department	Q.C. Department	Inspection date	2023.04.22

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



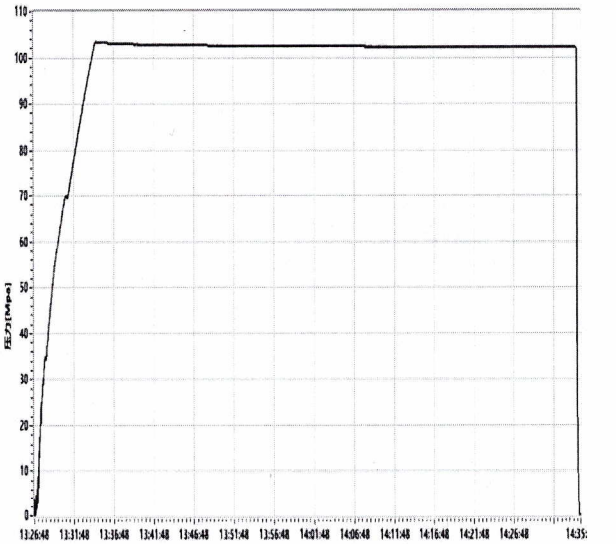
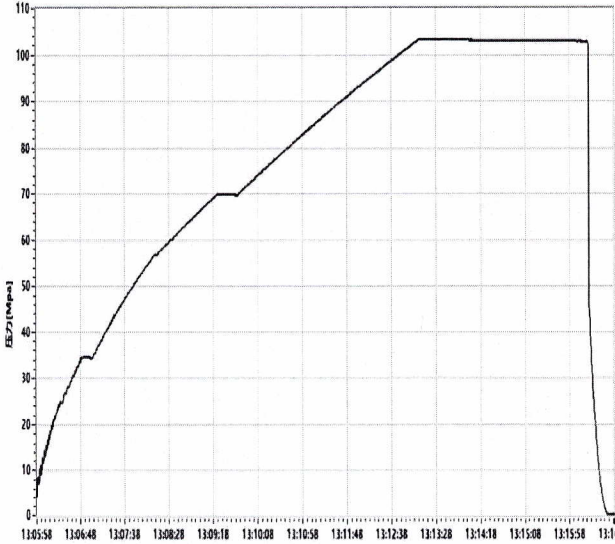


LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD

HYDROSTATIC TESING REPORT

LTTY/QR-5.7.1-28

No: 230422006

Product Name	Choke And Kill Hose	Standard	API Spec 16C 3 <sup>rd</sup> 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:					
<div></div>					
Conclusion	The inspected items meet standard requirements of API Spec 16C 3 <sup>rd</sup> edition				
Approver	Jiaolong Chen	Auditor	Huiling Dong	Inspector	Zhansheng Wang



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

Product Name: Choke And Kill Hose

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

Serial Number: 7660103~7660110

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

The Choke And Kill Hose assembly was produced by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD . in April 2023, and inspected by LUOHE LETONE HYDRAULICS TECHNOLOGY CO.,LTD. according to API Spec 16C 3<sup>rd</sup> 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 3<sup>rd</sup> 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:

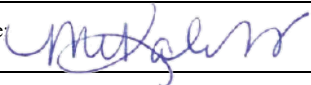
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit 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
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval:



LSE_NAME	ProdDate	Proj Oil	Proj Gas	Proj NGL	Proj Water
MIDDLE AVALON TIER 1	Month 1	13076	42564	232400	43821
MIDDLE AVALON TIER 1	Month 2	40843	153416	837650	72767
MIDDLE AVALON TIER 1	Month 3	31729	149837	818108	52435
MIDDLE AVALON TIER 1	Month 4	25424	142088	775800	43439
MIDDLE AVALON TIER 1	Month 5	20173	127119	694069	35192
MIDDLE AVALON TIER 1	Month 6	17722	122204	667235	31355
MIDDLE AVALON TIER 1	Month 7	15409	114173	623383	27549
MIDDLE AVALON TIER 1	Month 8	13234	103818	566847	23846
MIDDLE AVALON TIER 1	Month 9	12308	101209	552601	22313
MIDDLE AVALON TIER 1	Month 10	10837	92724	506273	19744
MIDDLE AVALON TIER 1	Month 11	10281	90994	496827	18807
MIDDLE AVALON TIER 1	Month 12	9497	86587	472766	17432
MIDDLE AVALON TIER 1	Month 13	8000	74775	408273	14727
MIDDLE AVALON TIER 1	Month 14	8304	79326	433120	15323
MIDDLE AVALON TIER 1	Month 15	7550	73596	401837	13963
MIDDLE AVALON TIER 1	Month 16	7360	73047	398834	13637
MIDDLE AVALON TIER 1	Month 17	6743	68014	371355	12515
MIDDLE AVALON TIER 1	Month 18	6617	67727	369792	12299
MIDDLE AVALON TIER 1	Month 19	6296	65324	356667	11719
MIDDLE AVALON TIER 1	Month 20	5817	61090	333552	10840
MIDDLE AVALON TIER 1	Month 21	5751	61080	333495	10730
MIDDLE AVALON TIER 1	Month 22	5336	57258	312630	9966
MIDDLE AVALON TIER 1	Month 23	5297	57376	313275	9902
MIDDLE AVALON TIER 1	Month 24	5094	55669	303952	9530
MIDDLE AVALON TIER 1	Month 25	4439	48900	266995	8312
MIDDLE AVALON TIER 1	Month 26	4749	52697	287726	8898
MIDDLE AVALON TIER 1	Month 27	4441	49633	270995	8327
MIDDLE AVALON TIER 1	Month 28	4440	49955	272753	8330
MIDDLE AVALON TIER 1	Month 29	4162	47122	257286	7814
MIDDLE AVALON TIER 1	Month 30	4171	47496	259328	7834
MIDDLE AVALON TIER 1	Month 31	4047	46341	253023	7604
MIDDLE AVALON TIER 1	Month 32	3805	43801	239153	7154
MIDDLE AVALON TIER 1	Month 33	3824	44232	241509	7192
MIDDLE AVALON TIER 1	Month 34	3602	41856	228536	6777
MIDDLE AVALON TIER 1	Month 35	3625	42316	231043	6824
MIDDLE AVALON TIER 1	Month 36	3532	41407	226081	6652
MIDDLE AVALON TIER 1	Month 37	3224	37948	207196	6074
MIDDLE AVALON TIER 1	Month 38	3366	39759	217084	6343



## 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.

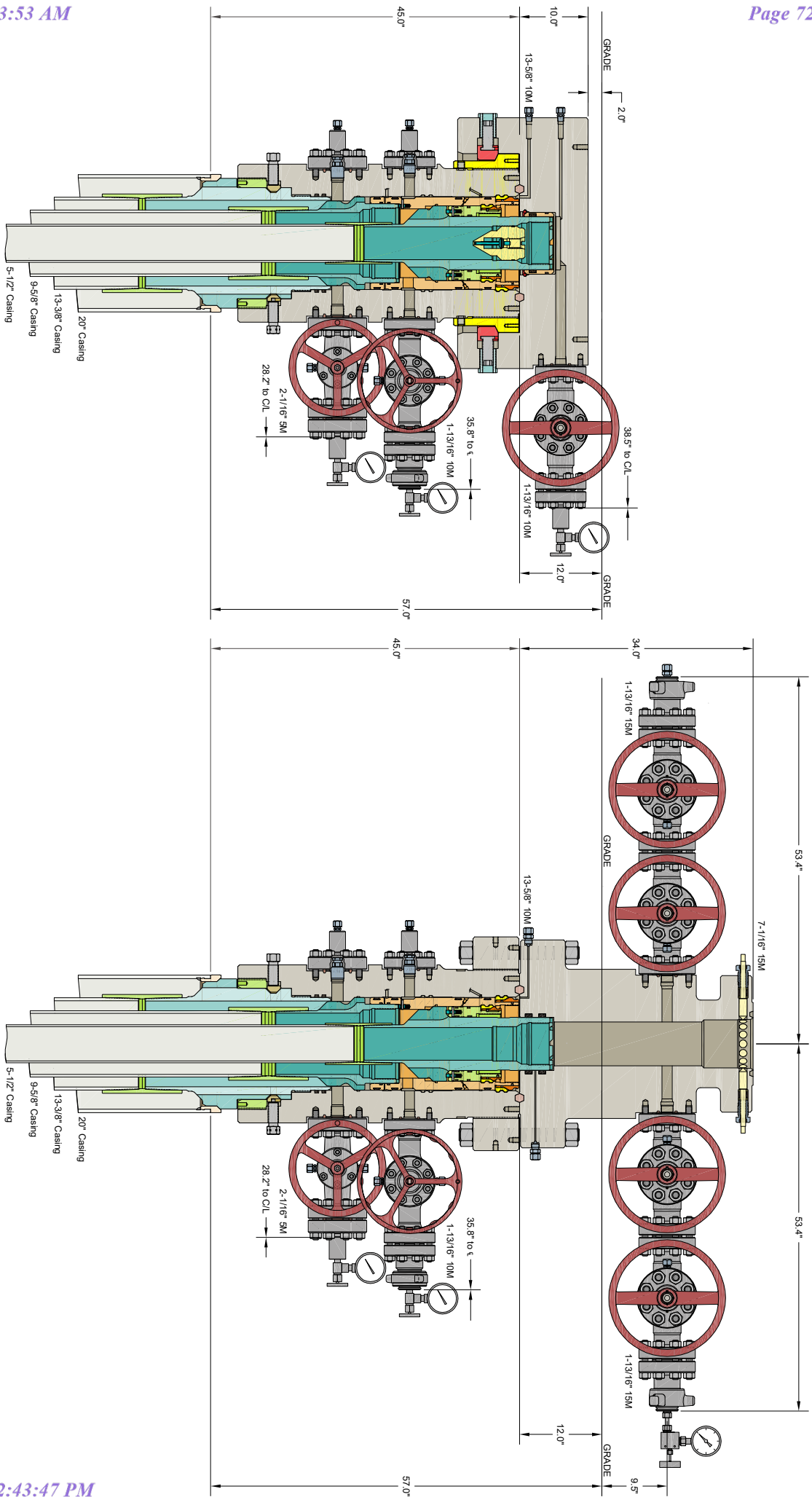
5. Performance Standards

- 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	



<b>C-102</b>  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
			<input type="checkbox"/> As Drilled

## WELL LOCATION INFORMATION

API Number <b>30-025-55721</b>	Pool Code <b>41450</b>	Pool Name <b>LUSK;BONE SPRING, NORTH</b>
Property Code <b>338342</b>	Property Name <b>BOND 33-34 FED COM</b>	Well Number <b>#207H</b>
OGRID No. <b>332544</b>	Operator Name <b>PBEX OPERATIONS, LLC</b>	Ground Level Elevation <b>3,687.61'</b>
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

## Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	32	18S	32E		1,625' FSL	1,221' FEL	32.701222°	-103.783858°	LEA

## Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	34	18S	32E		1,630' FSL	50' FEL	32.701161°	-103.745716°	LEA

Dedicated Acres <del>320-640</del>	Infill or Defining Well <b>Defining</b>	Defining Well API <b>n/a</b>	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidation Code <b>F</b>
Order Numbers. <b>R-23684</b>			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

## Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	32	18S	32E		1,625' FSL	1,221' FEL	32.701222°	-103.783858°	LEA

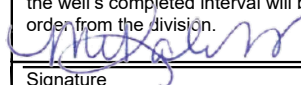
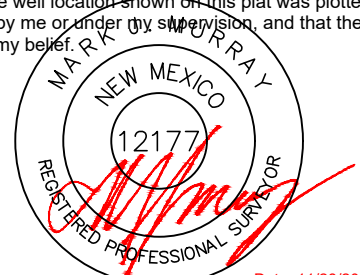
## First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
L	33	18S	32E		1,631' FSL	100' FWL	32.701230°	-103.779564°	LEA

## Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	34	18S	32E		1,630' FSL	100' FEL	32.701161°	-103.745879°	LEA

Unitized Area or Area of Uniform Interest <b>n/a</b>	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: <b>3,687.61</b>
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<b>OPERATOR CERTIFICATIONS</b>  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.   <b>11/30/25</b> Signature Date  <b>Mikah Thomas</b> Printed Name <b>mikah@pbex.com</b> Email Address		<b>SURVEYOR CERTIFICATIONS</b>  I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.   Date: 11/28/2025  Signature and Seal of Professional Surveyor  Certificate Number <b>12177</b> Date of Survey <b>11/28/2025</b> Revision Number <b>2</b>	
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Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.







<b>C-102</b>  Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	Revised July 9, 2024	
		Submittal Type:	<input checked="" type="checkbox"/> Initial Submittal
			<input type="checkbox"/> Amended Report
			<input type="checkbox"/> As Drilled

## WELL LOCATION INFORMATION

API Number <b>30-025-55721</b>	Pool Code <b>50510</b>	Pool Name <b>QUERCH PLAINS; LOWER BONE SPRING</b>
Property Code <b>338342</b>	Property Name <b>BOND 33-34 FED COM</b>	Well Number <b>#207H</b>
OGRID No. <b>332544</b>	Operator Name <b>PBEX OPERATIONS, LLC</b>	Ground Level Elevation <b>3,687.61'</b>
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal		Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input checked="" type="checkbox"/> Federal

## Surface Location

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## Bottom Hole Location

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Dedicated Acres <b>320.640</b>	Infill or Defining Well <b>Defining</b>	Defining Well API <b>n/a</b>	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidation Code <b>F</b>
Order Numbers. <b>R-23684</b>			Well setbacks are under Common Ownership: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

## Kick Off Point (KOP)

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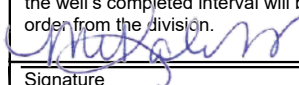
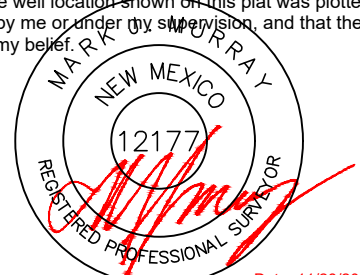
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UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
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## Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	34	18S	32E		1,630' FSL	100' FEL	32.701161°	-103.745879°	LEA

Unitized Area or Area of Uniform Interest <b>n/a</b>	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation: <b>3,687.61</b>
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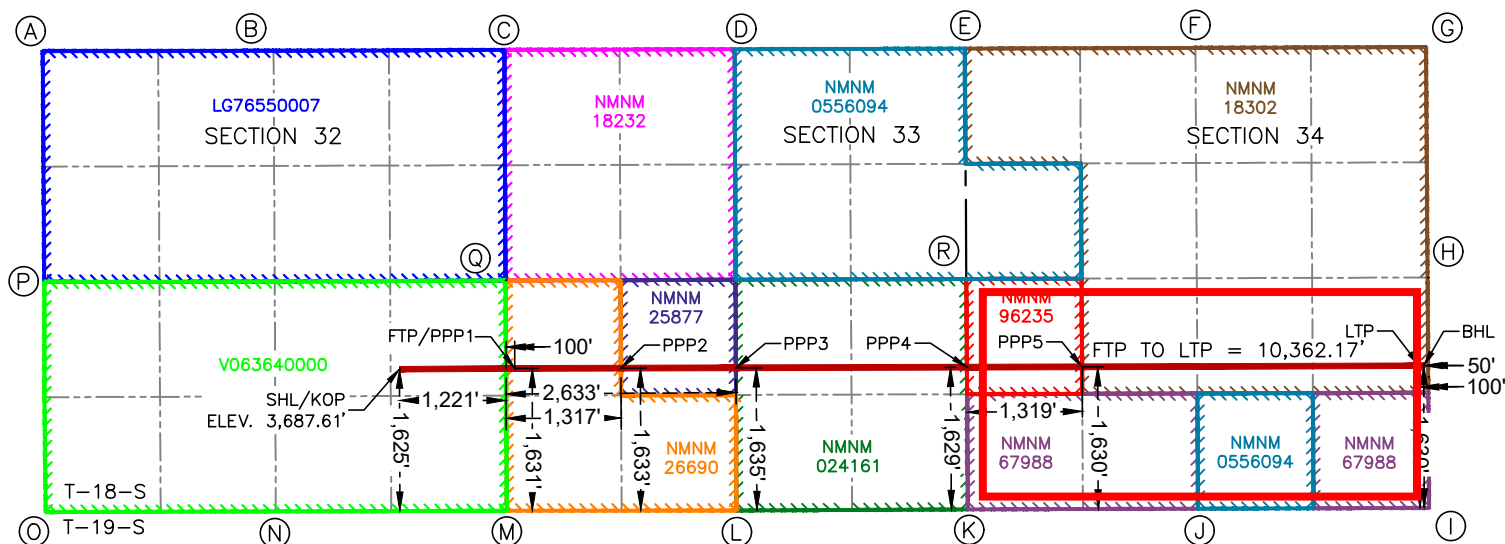
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



## ACREAGE DEDICATION PLATS

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

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



## BOND 33-34 FED COM #207H

SURFACE HOLE LOCATION  
& KICK-OFF POINT  
1,625' FSL & 1,221' FEL  
ELEV. = 3,687.61'

NAD 83 X = 710,360.35'  
NAD 83 Y = 619,273.62'  
NAD 83 LAT = 32.701222°  
NAD 83 LONG = -103.783858°

FIRST TAKE POINT &  
PENETRATION POINT 1  
1,631' FSL & 100' FWL

NAD 83 X = 711,681.23'  
NAD 83 Y = 619,283.40'  
NAD 83 LAT = 32.701230°  
NAD 83 LONG = -103.779564°

PENETRATION POINT 2  
1,633' FSL & 1,317' FWL

NAD 83 X = 712,898.16'  
NAD 83 Y = 619,286.48'  
NAD 83 LAT = 32.701221°  
NAD 83 LONG = -103.775608°

PENETRATION POINT 3  
1,635' FSL & 2,633' FWL

NAD 83 X = 714,214.19'  
NAD 83 Y = 619,289.82'  
NAD 83 LAT = 32.701211°  
NAD 83 LONG = -103.771330°

PENETRATION POINT 4  
1,629' FSL & 0' FWL

NAD 83 X = 716,860.37'  
NAD 83 Y = 619,296.82'  
NAD 83 LAT = 32.701191°  
NAD 83 LONG = -103.762728°

PENETRATION POINT 5  
1,630' FSL & 1,319' FWL

NAD 83 X = 718,179.35'  
NAD 83 Y = 619,301.06'  
NAD 83 LAT = 32.701183°  
NAD 83 LONG = -103.758440°

LAST TAKE POINT  
1,630' FSL & 100' FEL

NAD 83 X = 722,043.35'  
NAD 83 Y = 619,314.27'  
NAD 83 LAT = 32.701161°  
NAD 83 LONG = -103.745879°

BOTTOM HOLE LOCATION  
1,630' FSL & 50' FEL

NAD 83 X = 722,093.35'  
NAD 83 Y = 619,314.45'  
NAD 83 LAT = 32.701161°  
NAD 83 LONG = -103.745716°

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



Well Name: BOND 33-34 FED COM	Well Location: T18S / R32E / SEC 32 / NESE / 32.701222 / -103.783858	County or Parish/State: LEA / NM
Well Number: 207H	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: 2878969

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 10/16/2025

Time Sundry Submitted: 12:07

Date proposed operation will begin: 10/16/2025

**Procedure Description:** AFMSS APD Number: 10400103869 Well name change: Original: BOND 32-34 FED COM 003H New: BOND 33-34 FED COM 207H Target Zone Change: Attachment PPP Changes: Attachment Original- SHL 32-18S-32E 1625 FSL & 1221 FEL V063640000 New-SHL No Changes Original- KOP 32-18S-32E 1625 FSL & 1221 FEL V063640000 New- KOP No Changes Original- FTP 32-18S-32E 2200 FNL & 2540 FEL LG76550007 New- FTP 33-18S-32E 1,631 FSL & 100 FWL V063640000 Original- PPP2 33-18S-32E 2200 FNL & 0 FWL NMNM18232 New- PPP2 33-18S-32E 1633 FSL & 1317 FWL NMNM25877 Original- PPP3 33-18S-32E 220 FNL & 2635 FWL NMNM0556094 New- PPP3 33-18S-32E 1635 FSL & 2633 FWL NMNM024161 Original- PPP4 34-18S-32E 2200 FNL & 1320 FWL NMNM18302 New- PPP4 34-18S-32E 1629 FSL & 0 FWL NMNM96235 Original- PPP5 New- PPP5 34-18S-32E 1630 FSL & 1319 FWL NMNM18302 Original- LTP 34-18S-32E 2200 FNL & 100 FEL NMNM018302 New- LTP 34-18S-32E 1630 FSL & 100 FEL NMNM18302 Original- BHL 34-18S-32E 2,200 FNL & 10 FEL NMNM018302 New- BHL 34-18S-32E 1630 FSL & 50 FEL NMNM18302 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 21739 0 7820 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 4480 L80HC 40 BTC 1.125 1.125 1.6 Production 8 3/4 5 1/2 API no 0 20181 0 9360 P110 20 Freedom 1.125 1.125 1.6 Alternate Grades and or higher weights could be substituted 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, Accelerator, LCM Tail 1200 83 1.84 152.8 13.2 100% C Gel, Accelerator, 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 Production Lead 4035 275 4.3 1184.4 10.5 20% H Fluid Loss, Retarder, LCM Tail 7820 2589 1.68 4349.8 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, Accelerator, LCM Tail 1200 115 1.33 152.8 14.8 100% C Gel, Accelerator, 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 3,046 1.23 3746.8 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 21739 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 20181 Oil Based Mud 9.7 35-65 4 to 6



Well Number: 207H

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

**NOI Attachments****Procedure Description**

5.5\_20.00\_\_0.361\_\_P110\_RY\_92.5\_RBW\_USS\_FREEDOM\_HTQ\_Data\_Sheet\_03\_14\_24\_20251211084251.pdf

Bond\_003H\_\_207H\_PPP\_Changes\_20251208105355.pdf

Bond\_003H\_\_New\_\_Bond\_207H\_Changes\_20251208105345.pdf

Plan\_2\_WM\_\_01\_\_Bond\_33\_34\_FED\_COM\_207H\_20251208105259.pdf

Plan\_2\_AC\_\_01\_\_Bond\_33\_34\_FED\_COM\_207H\_20251208105255.pdf

Plan\_2\_\_01\_\_Bond\_33\_34\_FED\_COM\_207H\_20251208105250.pdf

24\_041778\_BOND\_33\_34\_FED\_COM\_\_207H\_C102\_20251208105221.pdf

**Conditions of Approval****Additional**

32\_18\_32\_I\_Sundry\_ID\_2878969\_Bond\_33\_34\_Fed\_Com\_207H\_Lea\_NM18232\_PBEX\_Operations\_LLC\_13\_22h\_11\_14\_2024\_LV\_20251211134555.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 11, 2025 08:43 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:



Well Name: BOND 32-34

FED COM

Well Location: T18S / R32E / SEC 32 / NESE / 32.701222 / -103.783858

County or Parish/State: LEA / NM

Well Number: 207H

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

BLM Point of Contact

BLM POC Name: TANJA BACA

BLM POC Title: Supervisory Land Law Examiner

BLM POC Phone: 5752345940

BLM POC Email Address: TABACA@BLM.GOV

Disposition: Approved

Disposition Date: 12/11/2025

Signature: Chris Walls



Form 3160-5 (October 2024)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0220 Expires: October 31, 2027
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMNM18232
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. BOND 33-34 FED COM/207H
2. Name of Operator PBEX OPERATIONS LLC		9. API Well No.
3a. Address 223 WEST WALL STREET STE 900, MIDLAND,	3b. Phone No. (include area code) (432) 661-7106	10. Field and Pool or Exploratory Area LUSK/BONE SPRING, NORTH
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 32/T18S/R32E/NMP		11. Country or Parish, State LEA/NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomplete 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.)

AFMSS APD Number: 10400103869

Well name change:  
Original: BOND 32-34 FED COM 003H  
New: BOND 33-34 FED COM 207H

Target Zone Change: Attachment  
PPP Changes: Attachment

Original- SHL 32-18S-32E 1625 FSL & 1221 FEL V063640000 New-SHL No Changes  
Original- KOP 32-18S-32E 1625 FSL & 1221 FEL V063640000 New- KOP No Changes  
Original- FTP 32-18S-32E 2200 FNL & 2540 FEL LG76550007 New- FTP 33-18S-32E 1,631 FSL & 100 FWL VO63640000

Continued on page 3 additional information

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) MIKAH THOMAS / Ph: (432) 661-7106	Title Regulatory Manager
Signature (Electronic Submission)	Date 12/11/2025

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by CHRISTOPHER WALLS / Ph: (575) 234-2234 / Approved	Title Petroleum Engineer	Date 12/11/2025
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 CARLSBAD	

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**

Original- PPP2 33-18S-32E 2200 FNL & 0 FWL NMNM18232 New- PPP2 33-18S-32E 1633 FSL & 1317 FWL NMNM25877  
 Original- PPP3 33-18S-32E 220 FNL & 2635 FWL NMNM0556094 New- PPP3 33-18S-32E 1635 FSL & 2633 FWL NMNM024161  
 Original- PPP4 34-18S-32E 2200 FNL & 1320 FWL NMNM18302 New- PPP4 34-18S-32E 1629 FSL & 0 FWL NMNM96235  
 Original- PPP5 New- PPP5 34-18S-32E 1630 FSL & 1319 FWL NMNM18302  
 Original- LTP 34-18S-32E 2200 FNL & 100 FEL NMNM018302 New- LTP 34-18S-32E 1630 FSL & 100 FEL NMNM18302  
 Original- BHL 34-18S-32E 2,200 FNL & 10 FEL NMNM018302 New- BHL 34-18S-32E 1630 FSL & 50 FEL NMNM18302

## 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 21739 0 7820 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 4480 L80HC 40 BTC 1.125 1.125 1.6

Production 8 3/4 5 1/2 API no 0 20181 0 9360 P110 20 Freedom 1.125 1.125 1.6

Alternate Grades and or higher weights could be substituted 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, Accelerator, LCM

Tail 1200 83 1.84 152.8 13.2 100% C Gel, Accelerator, 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

Production Lead 4035 275 4.3 1184.4 10.5 20% H Fluid Loss, Retarder, LCM

Tail 7820 2589 1.68 4349.8 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, Accelerator, LCM

Tail 1200 115 1.33 152.8 14.8 100% C Gel, Accelerator, 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 3,046 1.23 3746.8 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 21739 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 20181 Oil Based Mud 9.7 35-65 4 to 6

**Location of Well**

0. SHL: NESE / 1625 FSL / 1221 FEL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.701222 / LONG: -103.783858 ( TVD: 0 feet, MD: 0 feet )

PPP: SWNE / 2200 FNL / 2540 FEL / TWSP: 18S / RANGE: 32E / SECTION: 32 / LAT: 32.705233 / LONG: -103.788148 ( TVD: 7820 feet, MD: 8649 feet )

PPP: SWNW / 2200 FNL / 0 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7052167 / LONG: -103.7798903 ( TVD: 7820 feet, MD: 11189 feet )

PPP: SENW / 2200 FNL / 1320 FWL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.7051737 / LONG: -103.7584431 ( TVD: 7820 feet, MD: 17786 feet )

PPP: SWNE / 2200 FNL / 2635 FWL / TWSP: 18S / RANGE: 32E / SECTION: 33 / LAT: 32.7051999 / LONG: -103.771323 ( TVD: 7820 feet, MD: 13824 feet )

BHL: SENE / 2200 FNL / 10 FEL / TWSP: 18S / RANGE: 32E / SECTION: 34 / LAT: 32.705146 / LONG: -103.745591 ( TVD: 7820 feet, MD: 21739 feet )



32-18-32-I Sundry ID 2878969 Bond 33-34 Fed Com 207H Lea NM18232 PBEX Operations LLC 13-22h 11-14-2024 LV.xlsm

## Bond 33-34 Fed Com 207H

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	1.15	1,213	5	1.97	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	1388	2M				1.56		
Site plot (pipe racks S or E) as per O.O.138.D.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	5.11	1.78	1.22	4,535	2	2.16	3.05	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	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
12 1/4	0.3132	1141	2969	1480	101	10.20	2657	3M				0.81
r D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
t by stage % :												
Class 'H' tail cmt yld > 1.20								1141	2969			101

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	3.42	2.35	2.83	20,181	3	5.03	4.18	403,620
"B"								0				0
"C"								0				0
"D"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,059								Totals:	20,181			403,620
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	3426	4898	4004	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	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
0		#N/A	#N/A	0	#N/A						
#N/A Capitan Reef est top XXXX.											





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

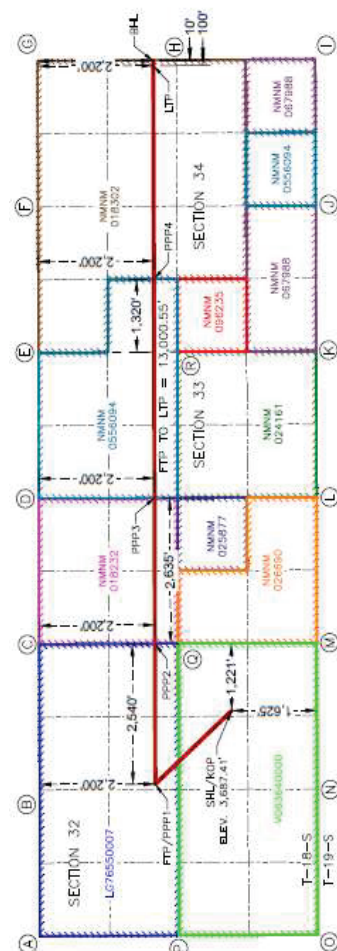
- Notes:
- 1) Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum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

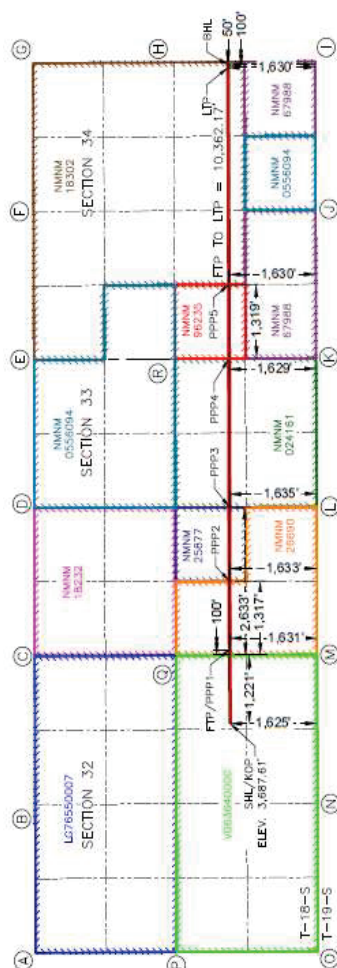


Original- Grey  
New- Blue

New: Bond 33-34 Fed Com 207H



Original- SHL	32-18S-32E	1625 FSL1 & 1221 FEL	V063640000
Original- KOP	32-18S-32E	1625 FSL1 & 1221 FEL	V063640000
Original- FTP	32-18S-32E	2200 FNL & 2540 FEL	LG76550007
Original- PPP2	33-18S-32E	2200 FNL & 0 FWL	NNNM118232
Original- PPP3	33-18S-32E	220 FNL & 2635 FWL	NNNM0556094
Original- PPP4	34-18S-32E	2200 FNL & 1320 FWL	NNNM118302
Original- PPP5			
Original- LTP	34-18S-32E	2200 FNL & 100 FEL	NNNM018302
Original- BHL	34-18S-32E	2,200 FNL & 10 FEL	NNNM018302



	No Changes	
New-SHL	No Changes	
New- KOP	No Changes	
New- FTP	33-18S-32E	1,631 FSL & 100 FWL
New- PPP2	33-18S-32E	1633 FSL & 1317 FWL
New- PPP3	33-18S-32E	1635 FSL & 2633 FWL
New- PPP4	34-18S-32E	1629 FSL & 0 FWL
New- PPP5	34-18S-32E	1630 FSL & 1319 FWL
New- LTP	34-18S-32E	1630 FSL & 100 FEL
New- BHL	34-18S-32E	1630 FSL & 50 FEL



Notice of Intent to Change Drill Plan  
**Bond 32-34 Fed Com-003H**  
**Bond 33-34 Fed Com 207H**

Original Design in Grey  
New Design in Blue

Target Zone: AV  
Target Zone: 2BSS

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	J-55	54.5	BTC	1.125	1.125	1.6
Intermediate 1	12 1/4	9 5/8 API		no		0	4000	0	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	21739	0	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	J-55	54.55	BTC	1.125	1.125	1.6
Intermediate	12 1/4	9 5/8 API		no		0	4535	0	L80HC		40 BTC	1.125	1.125	1.6
Production	8 3/4	5 1/2 API		no		0	20181	0	P110		20 Freedom	1.125	1.125	1.6

Alternate Grades and or higher weights could be substituted 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% Cor H	Fluid Loss, Retarder, LCM, Possibly Beads
	Tail	3785		240	1.33	319.2	13.2	100% C or H	Fluid Loss, Retarder, LCM
Production	Lead		4035	275	4.3	1184.4	10.5	20% H	Fluid Loss, Retarder, LCM
	Tail	7820		2589	1.68	4349.8	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		3,046	1.23	3746.8	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	21739	Oil Based Mud	9.7	35-65	4 to 6

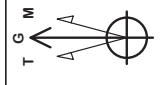
Mud Program- NEW

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	20181	Oil Based Mud	9.7	35-65	4 to 6





PROJECT DETAILS: Lea County, NM (N83 - NME)  
Well Name: (01) Bond 33-34 FED COM 207H  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Grid  
Local North: Grid  
KB Elevation: 3687.61  
Elevation: 3687.61  
To convert a Magnetic Direction to a Grid Direction, Add 6.051°

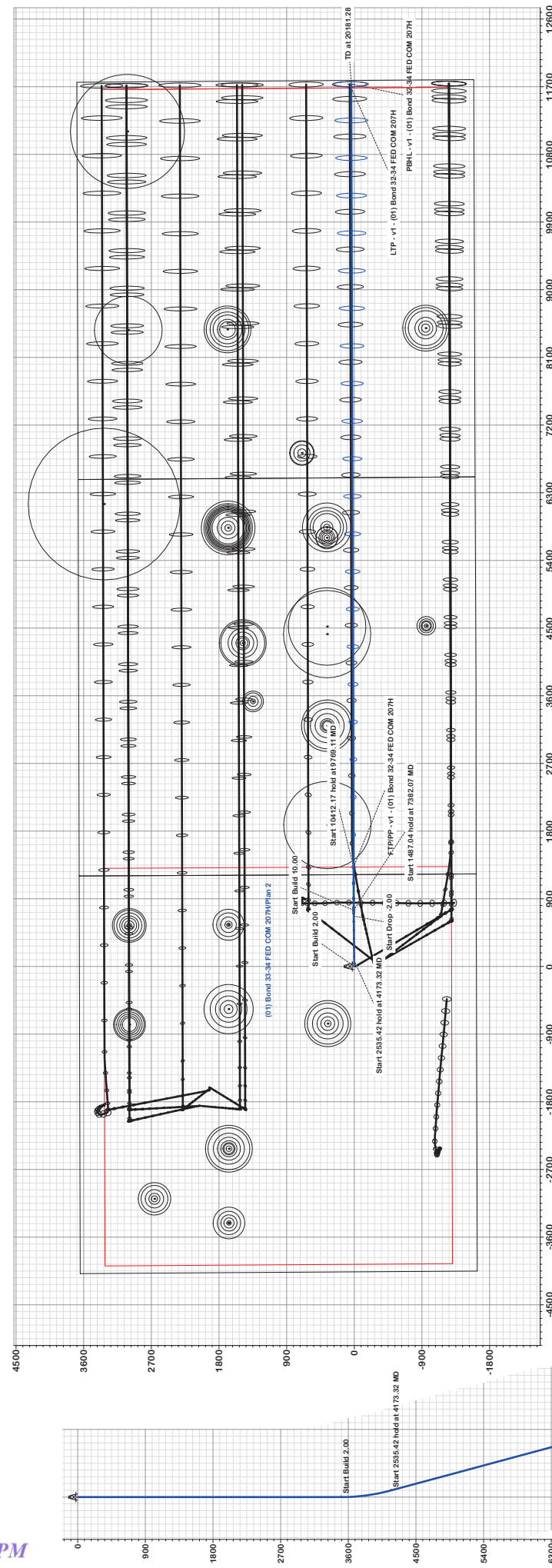


Well Name: (01) Bond 33-34 FED COM 207H  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Grid  
Local North: Grid  
KB Elevation: 3687.61  
Elevation: 3687.61  
To convert a Magnetic Direction to a Grid Direction, Add 6.051°

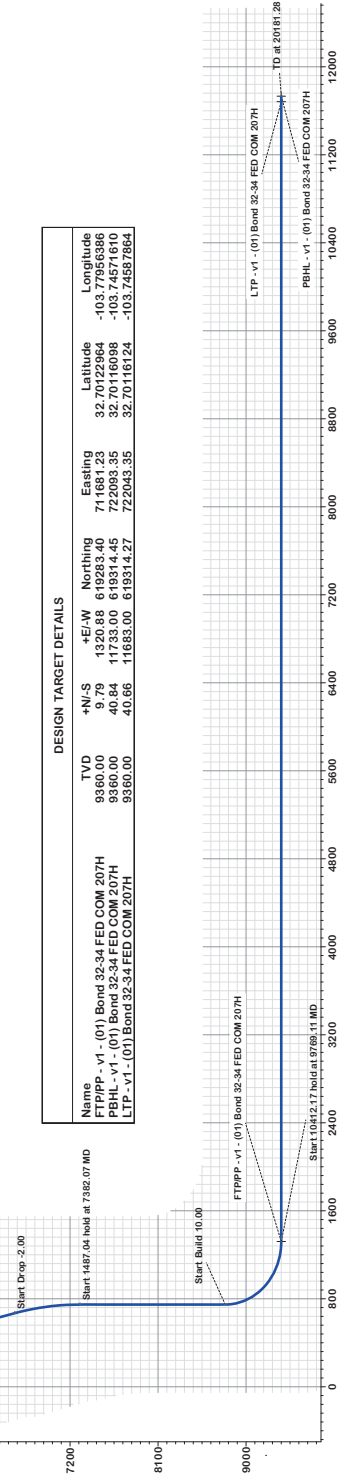
SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dlog	TFace	VSect	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2	3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.000	0.00	
3	4173.32	13.47	89.38	4167.14	0.85	78.76	2.00	89.381	78.76	
4	6708.75	13.47	89.38	6632.86	7.23	669.17	0.00	0.000	669.18	
5	7382.07	0.00	89.83	7300.00	8.08	747.92	2.00	180.000	747.95	
6	8869.11	0.00	89.83	8787.04	8.08	747.92	0.00	0.000	747.95	
7	9769.11	90.00	89.83	9360.00	9.79	1320.88	10.00	0.000	1320.90	
8	20181.28	90.00	89.83	9360.00	40.84	11733.00	0.00	0.000	11733.07	

WELL DETAILS: (01) Bond 33-34 FED COM 207H			
0.00	0.00	0.00	0.00
619273.01	710360.35	32.70122162	-103.73385790

PBEX  
Site: Bond South Pad - Phase 1  
Well: (01) Bond 33-34 FED COM 207H  
Wellbore: 207H  
Plan: Plan 2



DESIGN TARGET DETAILS									
Name	FTPDP - v1 - (01) Bond 33-34 FED COM 207H	PSHL - v1 - (01) Bond 33-34 FED COM 207H	LTP - v1 - (01) Bond 33-34 FED COM 207H	TVD	+N/-S	+E/-W	Northing	Easting	Longitude
	9360.00	9.79	1320.88	619273.01	710360.35	32.70122162	-103.73385790		
	9360.00	40.84	11733.00	619273.01	710360.35	32.70122162	-103.73385790		
	9360.00	40.84	11733.00	619273.01	710360.35	32.70122162	-103.73385790		







## **PBEX**

**Lea County, NM (N83 - NME)**

**Bond South Pad - Phase 1**

**(01) Bond 33-34 FED COM 207H**

**TBD**

**207H**

**Plan 2**

## **Anticollision Report**

**04 December, 2025**

# **DIXON**





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

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

<b>Survey Tool Program</b>	<b>Date</b>	12/4/2025
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>
0.00	20,181.28	Plan 2 (207H)
		<b>Tool Name</b>
		MWD+IFR1
		<b>Description</b>
		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	20,176.24	22,771.47	1,450.02	939.37	2.840	CC
(01) Bond 32-34 FED COM 205H - 205H - Plan 2	20,181.28	22,771.47	1,450.03	939.28	2.839	ES, SF
(02) Bond 32-34 FED COM 301H - 301H - Plan 2						Out of range
(03) Bond 32-34 FED COM 201H - 201H - Plan 2						Out of range
Bond North Pad - Phase 2						
(01) Bond 32-34 FED COM #303H - #303H - Plan 1						Out of range
(02) Bond 32-34 FED COM #101H - #101H - Plan 1						Out of range
(03) Bond 32-34 FED COM #103H - #103H - Plan 1	8,494.68	10,839.30	1,520.62	1,448.55	21.097	CC
(03) Bond 32-34 FED COM #103H - #103H - Plan 1	20,181.28	21,818.82	1,791.08	1,347.56	4.038	ES, SF
Bond Pad Offsets						
(W01) N LUSK 32 STATE 001 - 35747 - (Gyro)						Out of range
(W02) LEAR STATE 001H - 38865 - (Gyro/MWD)	9,400.00	9,862.59	195.60	147.30	4.050	CC
(W02) LEAR STATE 001H - 38865 - (Gyro/MWD)	9,400.02	9,862.59	195.60	147.30	4.050	ES, SF
(W03) LEAR STATE 002H - 38866 - (Gyro/MWD)	9,055.27	11,190.00	1,781.43	1,713.76	26.323	CC, ES
(W03) LEAR STATE 002H - 38866 - (Gyro/MWD)	9,100.00	11,190.00	1,783.25	1,715.32	26.251	SF
(W04) FIST FULL OF DOLLARS FEDERAL 001 - 33644						Out of range
(W05) GULF FEDERAL 002 - 26310 - (Inc Only)	14,285.26	9,360.56	1,655.04	1,274.03	4.344	CC
(W05) GULF FEDERAL 002 - 26310 - (Inc Only)	14,300.00	9,360.56	1,655.10	1,273.80	4.341	ES
(W05) GULF FEDERAL 002 - 26310 - (Inc Only)	14,400.00	9,360.56	1,659.01	1,275.91	4.331	SF
(W06) GULF FEDERAL COM 001 - 25637 - (Inc Only)	14,288.34	9,347.70	342.99	-2.09	0.994	Level 3, CC, ES, SF
(W07) GULF MCKAY FEDERAL 001 - 25471 - (Inc Only)	16,934.35	9,358.32	981.36	601.19	2.581	CC, ES
(W07) GULF MCKAY FEDERAL 001 - 25471 - (Inc Only)	17,000.00	9,358.32	983.56	602.38	2.580	SF
(W08) HULKSTER 001 - 38446 - (Inc Only)						Out of range
(W09) HULKSTER 002 - 38844 - (Inc Only)						Out of range
(W10) HULKSTER 003 - 39570 - (Inc Only)						Out of range
(W11) HULKSTER 004 - 39571 - (Inc Only)						Out of range
(W12) HULKSTER 005 - 39572 - (Inc Only)	6,240.10	6,178.63	1,667.66	1,524.69	11.664	CC
(W12) HULKSTER 005 - 39572 - (Inc Only)	9,000.00	8,918.97	1,678.59	1,470.29	8.059	ES
(W12) HULKSTER 005 - 39572 - (Inc Only)	9,400.00	9,247.43	1,717.73	1,499.74	7.880	SF
(W13) KEELA FEDERAL 002 - 33339 - (Inc Only)						Out of range
(W14) KEELA FEDERAL 003 - 33340 - (Inc Only)	12,753.23	9,359.05	1,465.15	1,172.83	5.012	CC
(W14) KEELA FEDERAL 003 - 33340 - (Inc Only)	12,800.00	9,359.05	1,465.90	1,172.67	4.999	ES
(W14) KEELA FEDERAL 003 - 33340 - (Inc Only)	12,900.00	9,359.05	1,472.48	1,177.56	4.993	SF

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
<b>Offset Well - Wellbore - Design</b>						
<b>Bond Pad Offsets</b>						
(W15) KEEL A FEDERAL 004 - 33499 - (Inc Only)						Out of range
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	2,900.00	2,899.35	838.00	767.82	11.942	CC
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	3,600.00	3,597.10	839.57	753.50	9.754	ES
(W16) LEAR STATE SWD 003 - 26703 - (Inc Only)	9,000.00	8,915.11	1,561.45	1,343.06	7.150	SF
(W17) MAX STATE 001 - 26754 - (Inc Only)	3,040.53	3,057.92	1,765.76	1,684.49	21.726	CC
(W17) MAX STATE 001 - 26754 - (Inc Only)	3,700.00	3,689.35	1,768.14	1,671.26	18.250	ES
(W17) MAX STATE 001 - 26754 - (Inc Only)	6,600.00	6,517.19	2,059.33	1,892.95	12.377	SF
(W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)	16,925.41	9,368.44	1,655.60	1,268.68	4.279	CC, ES
(W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)	17,000.00	9,368.44	1,657.28	1,268.98	4.268	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)	11,650.59	9,354.67	344.21	63.09	1.224	Level 3, CC, ES, SF
(W22) WATKINS 32 STATE 001 - 31735 - (Inc Only)						Out of range
(W23) KEEL A FEDERAL 001 - 33316 - (Depth Only)						Out of range
(W24) NELLIE 001 - 24439 - (Depth Only)						Out of range
(W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth)	5,700.00	5,482.00	1,494.59	902.00	2.522	SF
(W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth)	5,800.00	5,482.00	1,484.15	895.93	2.523	ES
(W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth)	5,905.57	5,482.00	1,480.39	899.68	2.549	CC
(W26) STATE EC 001 - 00885 - (Depth Only)						Out of range
(W27) TEXACO FEDERAL 001 - 00886 - (Depth Only)						Out of range
<b>Bond South Pad - Phase 1</b>						
(02) Bond 33-34 FED COM 211H - 211H - Plan 3	2,000.00	1,998.99	19.97	8.86	1.797	Level 3, CC, ES, SF
<b>Bond South Pad - Phase 2</b>						
(01) Bond 33-34 FED COM #306H - #306H - Plan 1	2,000.00	1,995.13	320.19	309.09	28.821	CC, ES
(01) Bond 33-34 FED COM #306H - #306H - Plan 1	20,181.28	21,193.34	1,536.94	1,136.80	3.841	SF
(02) Bond 33-34 FED COM #304H - #304H - Plan 1	3,082.16	3,100.89	217.44	203.15	15.216	CC
(02) Bond 33-34 FED COM #304H - #304H - Plan 1	3,100.00	3,118.23	217.48	203.14	15.163	ES
(02) Bond 33-34 FED COM #304H - #304H - Plan 1	20,181.28	21,046.64	1,015.20	711.16	3.339	SF
(03) Bond 33-34 FED COM #106H - #106H - Plan 1	2,512.77	2,509.47	277.32	264.81	22.162	CC, ES
(03) Bond 33-34 FED COM #106H - #106H - Plan 1	20,181.28	19,374.19	1,603.25	1,210.03	4.077	SF
(04) Bond 33-34 FED COM #104H - #104H - Plan 1	8,266.09	8,243.20	105.72	77.16	3.702	CC, ES
(04) Bond 33-34 FED COM #104H - #104H - Plan 1	8,300.00	8,269.73	107.69	78.18	3.650	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		
8,000.00	7,917.93	11,791.69	9,360.00	21.01	56.21	-0.168	1,458.70	743.68	2,040.48	1,978.34	62.14	32.837		
8,100.00	8,017.93	11,791.69	9,360.00	21.06	56.21	-0.168	1,458.70	743.68	1,971.43	1,908.28	63.15	31.216		
8,200.00	8,117.93	11,791.69	9,360.00	21.11	56.21	-0.168	1,458.70	743.68	1,905.13	1,840.95	64.18	29.684		
8,300.00	8,217.93	11,791.69	9,360.00	21.16	56.21	-0.168	1,458.70	743.68	1,841.88	1,776.68	65.21	28.247		
8,400.00	8,317.93	11,791.69	9,360.00	21.21	56.21	-0.168	1,458.70	743.68	1,782.00	1,715.78	66.22	26.910		
8,500.00	8,417.93	11,791.69	9,360.00	21.26	56.21	-0.168	1,458.70	743.68	1,725.84	1,658.64	67.21	25.680		
8,600.00	8,517.93	11,791.69	9,360.00	21.31	56.21	-0.168	1,458.70	743.68	1,673.78	1,605.63	68.15	24.561		
8,700.00	8,617.93	11,791.69	9,360.00	21.35	56.21	-0.168	1,458.70	743.68	1,626.20	1,557.18	69.02	23.560		
8,800.00	8,717.93	11,791.69	9,360.00	21.40	56.21	-0.168	1,458.70	743.68	1,583.52	1,513.71	69.81	22.683		

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>			<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
8,900.00	8,817.91	11,792.52	9,360.00	21.48	56.23	-91.135	1,458.70	744.51	1,546.14	1,475.64	70.50	21.932	
9,000.00	8,916.79	11,806.57	9,360.00	21.94	56.50	-93.892	1,458.74	758.57	1,514.77	1,443.44	71.33	21.237	
9,100.00	9,011.73	11,837.58	9,360.00	22.47	57.10	-95.267	1,458.83	789.57	1,490.21	1,417.78	72.43	20.575	
9,200.00	9,099.84	11,884.61	9,360.00	23.01	58.01	-95.438	1,458.97	836.60	1,472.53	1,398.71	73.82	19.946	
9,300.00	9,178.45	11,946.22	9,360.00	23.52	59.20	-94.695	1,459.15	898.21	1,461.07	1,385.52	75.55	19.340	
9,400.00	9,245.16	12,020.54	9,360.00	23.97	60.64	-93.398	1,459.36	972.53	1,454.61	1,376.98	77.63	18.739	
9,500.00	9,297.95	12,105.32	9,360.00	24.35	62.30	-91.934	1,459.61	1,057.31	1,451.65	1,371.57	80.08	18.128	
9,600.00	9,335.22	12,197.98	9,360.00	24.62	64.11	-90.668	1,459.88	1,149.97	1,450.71	1,367.81	82.90	17.500	
9,682.52	9,353.47	12,278.38	9,360.00	24.75	65.69	-89.978	1,460.12	1,230.37	1,450.60	1,365.13	85.47	16.972	
9,700.00	9,355.84	12,295.70	9,360.00	24.78	66.03	-89.886	1,460.17	1,247.69	1,450.60	1,364.57	86.03	16.862	
9,716.21	9,357.63	12,311.81	9,360.00	24.79	66.34	-89.815	1,460.22	1,263.80	1,450.60	1,364.04	86.56	16.758	
9,800.00	9,360.00	12,395.53	9,360.00	24.83	67.99	-89.721	1,460.46	1,347.52	1,450.61	1,361.23	89.37	16.231	
9,900.00	9,360.00	12,495.53	9,360.00	24.86	69.97	-89.721	1,460.75	1,447.52	1,450.60	1,357.75	92.85	15.623	
9,929.70	9,360.00	12,525.23	9,360.00	24.87	70.56	-89.721	1,460.84	1,477.22	1,450.60	1,356.69	93.91	15.447	
10,000.00	9,360.00	12,595.53	9,360.00	24.94	71.95	-89.721	1,461.05	1,547.52	1,450.59	1,354.18	96.42	15.045	
10,029.70	9,360.00	12,625.23	9,360.00	25.13	72.54	-89.721	1,461.13	1,577.22	1,450.59	1,353.10	97.50	14.878	
10,100.00	9,360.00	12,695.53	9,360.00	26.19	73.94	-89.721	1,461.34	1,647.52	1,450.59	1,350.53	100.06	14.498	
10,129.70	9,360.00	12,725.23	9,360.00	26.69	74.53	-89.721	1,461.43	1,677.22	1,450.59	1,349.43	101.15	14.340	
10,200.00	9,360.00	12,795.53	9,360.00	27.89	75.93	-89.721	1,461.63	1,747.52	1,450.58	1,346.83	103.76	13.981	
10,229.70	9,360.00	12,825.23	9,360.00	28.41	76.52	-89.721	1,461.72	1,777.22	1,450.58	1,345.71	104.87	13.832	
10,300.00	9,360.00	12,895.53	9,360.00	29.64	77.92	-89.721	1,461.92	1,847.52	1,450.58	1,343.07	107.50	13.493	
10,329.70	9,360.00	12,925.23	9,360.00	30.17	78.51	-89.721	1,462.01	1,877.22	1,450.58	1,341.95	108.63	13.353	
10,400.00	9,360.00	12,995.53	9,360.00	31.43	79.92	-89.721	1,462.22	1,947.52	1,450.57	1,339.28	111.30	13.033	
10,429.70	9,360.00	13,025.23	9,360.00	31.97	80.51	-89.721	1,462.30	1,977.22	1,450.57	1,338.14	112.43	12.902	
10,500.00	9,360.00	13,095.53	9,360.00	33.25	81.92	-89.721	1,462.51	2,047.52	1,450.57	1,335.44	115.12	12.600	
10,529.70	9,360.00	13,125.23	9,360.00	33.80	82.52	-89.721	1,462.60	2,077.22	1,450.56	1,334.29	116.27	12.476	
10,600.00	9,360.00	13,195.53	9,360.00	35.10	83.93	-89.721	1,462.80	2,147.52	1,450.56	1,331.58	118.98	12.191	
10,629.70	9,360.00	13,225.23	9,360.00	35.66	84.52	-89.721	1,462.89	2,177.22	1,450.56	1,330.42	120.14	12.074	
10,700.00	9,360.00	13,295.53	9,360.00	36.98	85.93	-89.721	1,463.09	2,247.52	1,450.56	1,327.69	122.87	11.806	
10,729.70	9,360.00	13,325.23	9,360.00	37.54	86.53	-89.721	1,463.18	2,277.22	1,450.55	1,326.53	124.03	11.696	
10,800.00	9,360.00	13,395.53	9,360.00	38.87	87.95	-89.721	1,463.39	2,347.52	1,450.55	1,323.78	126.77	11.442	
10,829.70	9,360.00	13,425.23	9,360.00	39.44	88.54	-89.721	1,463.47	2,377.22	1,450.55	1,322.61	127.94	11.338	
10,900.00	9,360.00	13,495.53	9,360.00	40.78	89.96	-89.721	1,463.68	2,447.52	1,450.54	1,319.84	130.70	11.098	
10,929.70	9,360.00	13,525.23	9,360.00	41.35	90.56	-89.721	1,463.77	2,477.22	1,450.54	1,318.67	131.87	11.000	
11,000.00	9,360.00	13,595.53	9,360.00	42.71	91.98	-89.721	1,463.97	2,547.52	1,450.54	1,315.90	134.64	10.773	
11,029.70	9,360.00	13,625.23	9,360.00	43.28	92.58	-89.721	1,464.06	2,577.22	1,450.54	1,314.72	135.82	10.680	
11,100.00	9,360.00	13,695.53	9,360.00	44.65	93.99	-89.721	1,464.27	2,647.52	1,450.53	1,311.93	138.60	10.465	
11,129.70	9,360.00	13,725.23	9,360.00	45.23	94.59	-89.721	1,464.35	2,677.22	1,450.53	1,310.75	139.78	10.377	
11,200.00	9,360.00	13,795.53	9,360.00	46.60	96.02	-89.721	1,464.56	2,747.52	1,450.53	1,307.95	142.57	10.174	
11,229.70	9,360.00	13,825.23	9,360.00	47.18	96.62	-89.721	1,464.64	2,777.22	1,450.53	1,306.77	143.76	10.090	
11,300.00	9,360.00	13,895.53	9,360.00	48.56	98.04	-89.721	1,464.85	2,847.51	1,450.52	1,303.96	146.56	9.897	
11,329.70	9,360.00	13,925.23	9,360.00	49.14	98.64	-89.721	1,464.94	2,877.22	1,450.52	1,302.77	147.74	9.818	
11,400.00	9,360.00	13,995.53	9,360.00	50.53	100.06	-89.721	1,465.14	2,947.51	1,450.52	1,299.96	150.55	9.635	
11,429.70	9,360.00	14,025.23	9,360.00	51.12	100.67	-89.721	1,465.23	2,977.21	1,450.51	1,298.77	151.74	9.559	
11,500.00	9,360.00	14,095.53	9,360.00	52.50	102.09	-89.721	1,465.44	3,047.51	1,450.51	1,295.95	154.56	9.385	
11,529.70	9,360.00	14,125.23	9,360.00	53.09	102.69	-89.721	1,465.52	3,077.21	1,450.51	1,294.76	155.75	9.313	
11,600.00	9,360.00	14,195.53	9,360.00	54.49	104.12	-89.721	1,465.73	3,147.51	1,450.50	1,291.93	158.57	9.147	
11,629.70	9,360.00	14,225.23	9,360.00	55.08	104.72	-89.721	1,465.81	3,177.21	1,450.50	1,290.74	159.76	9.079	
11,700.00	9,360.00	14,295.53	9,360.00	56.48	106.15	-89.721	1,466.02	3,247.51	1,450.50	1,287.91	162.59	8.921	
11,729.70	9,360.00	14,325.23	9,360.00	57.07	106.75	-89.721	1,466.11	3,277.21	1,450.50	1,286.71	163.79	8.856	
11,800.00	9,360.00	14,395.53	9,360.00	58.47	108.18	-89.721	1,466.31	3,347.51	1,450.49	1,283.87	166.62	8.705	
11,829.70	9,360.00	14,425.23	9,360.00	59.07	108.78	-89.721	1,466.40	3,377.21	1,450.49	1,282.68	167.82	8.643	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>			<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
11,900.00	9,360.00	14,495.53	9,360.00	60.47	110.21	-89.721	1,466.61	3,447.51	1,450.49	1,279.84	170.65	8.500	
11,929.70	9,360.00	14,525.23	9,360.00	61.07	110.82	-89.721	1,466.69	3,477.21	1,450.49	1,278.63	171.85	8.440	
12,000.00	9,360.00	14,595.53	9,360.00	62.48	112.25	-89.721	1,466.90	3,547.51	1,450.48	1,275.79	174.69	8.303	
12,029.70	9,360.00	14,625.23	9,360.00	63.08	112.85	-89.721	1,466.98	3,577.21	1,450.48	1,274.59	175.89	8.246	
12,100.00	9,360.00	14,695.53	9,360.00	64.49	114.28	-89.721	1,467.19	3,647.51	1,450.48	1,271.74	178.74	8.115	
12,129.70	9,360.00	14,725.23	9,360.00	65.09	114.89	-89.721	1,467.28	3,677.21	1,450.47	1,270.53	179.94	8.061	
12,200.00	9,360.00	14,795.53	9,360.00	66.50	116.32	-89.721	1,467.48	3,747.51	1,450.47	1,267.68	182.79	7.935	
12,229.70	9,360.00	14,825.23	9,360.00	67.10	116.93	-89.721	1,467.57	3,777.21	1,450.47	1,266.48	183.99	7.883	
12,300.00	9,360.00	14,895.53	9,360.00	68.52	118.36	-89.721	1,467.78	3,847.51	1,450.46	1,263.62	186.84	7.763	
12,329.70	9,360.00	14,925.23	9,360.00	69.12	118.97	-89.721	1,467.86	3,877.21	1,450.46	1,262.42	188.05	7.713	
12,400.00	9,360.00	14,995.53	9,360.00	70.54	120.40	-89.721	1,468.07	3,947.51	1,450.46	1,259.56	190.90	7.598	
12,429.70	9,360.00	15,025.23	9,360.00	71.14	121.00	-89.721	1,468.16	3,977.21	1,450.46	1,258.35	192.11	7.550	
12,500.00	9,360.00	15,095.53	9,360.00	72.56	122.44	-89.721	1,468.36	4,047.51	1,450.45	1,255.49	194.96	7.440	
12,529.70	9,360.00	15,125.23	9,360.00	73.16	123.05	-89.721	1,468.45	4,077.21	1,450.45	1,254.28	196.17	7.394	
12,600.00	9,360.00	15,195.53	9,360.00	74.58	124.48	-89.721	1,468.65	4,147.51	1,450.45	1,251.42	199.03	7.288	
12,629.70	9,360.00	15,225.23	9,360.00	75.19	125.09	-89.721	1,468.74	4,177.21	1,450.45	1,250.21	200.24	7.244	
12,700.00	9,360.00	15,295.53	9,360.00	76.61	126.52	-89.721	1,468.95	4,247.51	1,450.44	1,247.34	203.10	7.142	
12,729.70	9,360.00	15,325.23	9,360.00	77.21	127.13	-89.721	1,469.03	4,277.21	1,450.44	1,246.13	204.31	7.099	
12,800.00	9,360.00	15,395.53	9,360.00	78.64	128.57	-89.721	1,469.24	4,347.51	1,450.44	1,243.26	207.17	7.001	
12,829.70	9,360.00	15,425.23	9,360.00	79.24	129.17	-89.721	1,469.33	4,377.21	1,450.43	1,242.05	208.38	6.960	
12,900.00	9,360.00	15,495.53	9,360.00	80.67	130.61	-89.721	1,469.53	4,447.51	1,450.43	1,239.18	211.25	6.866	
12,929.70	9,360.00	15,525.23	9,360.00	81.28	131.22	-89.721	1,469.62	4,477.21	1,450.43	1,237.97	212.46	6.827	
13,000.00	9,360.00	15,595.53	9,360.00	82.71	132.65	-89.721	1,469.82	4,547.51	1,450.43	1,235.10	215.33	6.736	
13,029.70	9,360.00	15,625.23	9,360.00	83.31	133.26	-89.721	1,469.91	4,577.21	1,450.42	1,233.89	216.54	6.698	
13,100.00	9,360.00	15,695.53	9,360.00	84.74	134.70	-89.721	1,470.12	4,647.51	1,450.42	1,231.01	219.41	6.611	
13,129.70	9,360.00	15,725.23	9,360.00	85.35	135.31	-89.721	1,470.20	4,677.21	1,450.42	1,229.80	220.62	6.574	
13,200.00	9,360.00	15,795.53	9,360.00	86.78	136.75	-89.721	1,470.41	4,747.51	1,450.41	1,226.92	223.49	6.490	
13,229.70	9,360.00	15,825.23	9,360.00	87.38	137.35	-89.721	1,470.50	4,777.21	1,450.41	1,225.71	224.70	6.455	
13,300.00	9,360.00	15,895.53	9,360.00	88.82	138.79	-89.721	1,470.70	4,847.51	1,450.41	1,222.83	227.58	6.373	
13,329.70	9,360.00	15,925.23	9,360.00	89.42	139.40	-89.721	1,470.79	4,877.21	1,450.41	1,221.62	228.79	6.339	
13,400.00	9,360.00	15,995.53	9,360.00	90.86	140.84	-89.721	1,470.99	4,947.51	1,450.40	1,218.74	231.66	6.261	
13,429.70	9,360.00	16,025.23	9,360.00	91.46	141.45	-89.721	1,471.08	4,977.21	1,450.40	1,217.52	232.88	6.228	
13,500.00	9,360.00	16,095.53	9,360.00	92.90	142.89	-89.721	1,471.29	5,047.51	1,450.40	1,214.64	235.75	6.152	
13,529.70	9,360.00	16,125.23	9,360.00	93.50	143.50	-89.721	1,471.37	5,077.21	1,450.40	1,213.43	236.97	6.121	
13,600.00	9,360.00	16,195.53	9,360.00	94.94	144.94	-89.721	1,471.58	5,147.51	1,450.39	1,210.55	239.84	6.047	
13,629.70	9,360.00	16,225.23	9,360.00	95.55	145.55	-89.721	1,471.67	5,177.21	1,450.39	1,209.33	241.06	6.017	
13,700.00	9,360.00	16,295.53	9,360.00	96.98	146.99	-89.721	1,471.87	5,247.50	1,450.39	1,206.45	243.94	5.946	
13,729.70	9,360.00	16,325.23	9,360.00	97.59	147.60	-89.721	1,471.96	5,277.20	1,450.38	1,205.23	245.15	5.916	
13,800.00	9,360.00	16,395.53	9,360.00	99.03	149.04	-89.721	1,472.16	5,347.50	1,450.38	1,202.35	248.03	5.848	
13,829.70	9,360.00	16,425.23	9,360.00	99.63	149.65	-89.721	1,472.25	5,377.20	1,450.38	1,201.13	249.25	5.819	
13,900.00	9,360.00	16,495.53	9,360.00	101.07	151.09	-89.721	1,472.46	5,447.50	1,450.37	1,198.25	252.13	5.753	
13,929.70	9,360.00	16,525.23	9,360.00	101.68	151.70	-89.721	1,472.54	5,477.20	1,450.37	1,197.03	253.35	5.725	
14,000.00	9,360.00	16,595.53	9,360.00	103.12	153.14	-89.721	1,472.75	5,547.50	1,450.37	1,194.14	256.23	5.661	
14,029.70	9,360.00	16,625.23	9,360.00	103.73	153.75	-89.721	1,472.84	5,577.20	1,450.37	1,192.92	257.44	5.634	
14,100.00	9,360.00	16,695.53	9,360.00	105.17	155.19	-89.721	1,473.04	5,647.50	1,450.36	1,190.04	260.33	5.571	
14,129.70	9,360.00	16,725.23	9,360.00	105.77	155.80	-89.721	1,473.13	5,677.20	1,450.36	1,188.82	261.54	5.545	
14,200.00	9,360.00	16,795.53	9,360.00	107.21	157.24	-89.721	1,473.33	5,747.50	1,450.36	1,185.93	264.43	5.485	
14,229.70	9,360.00	16,825.23	9,360.00	107.82	157.85	-89.721	1,473.42	5,777.20	1,450.36	1,184.71	265.64	5.460	
14,300.00	9,360.00	16,895.53	9,360.00	109.26	159.30	-89.721	1,473.63	5,847.50	1,450.35	1,181.82	268.53	5.401	
14,329.70	9,360.00	16,925.23	9,360.00	109.87	159.91	-89.721	1,473.71	5,877.20	1,450.35	1,180.60	269.75	5.377	
14,400.00	9,360.00	16,995.53	9,360.00	111.31	161.35	-89.721	1,473.92	5,947.50	1,450.35	1,177.72	272.63	5.320	
14,429.70	9,360.00	17,025.23	9,360.00	111.92	161.96	-89.721	1,474.01	5,977.20	1,450.34	1,176.49	273.85	5.296	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>			<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
14,500.00	9,360.00	17,095.53	9,360.00	113.36	163.40	-89.721	1,474.21	6,047.50	1,450.34	1,173.61	276.73	5.241	
14,529.70	9,360.00	17,125.23	9,360.00	113.97	164.01	-89.721	1,474.30	6,077.20	1,450.34	1,172.38	277.95	5.218	
14,600.00	9,360.00	17,195.53	9,360.00	115.42	165.46	-89.721	1,474.50	6,147.50	1,450.33	1,169.49	280.84	5.164	
14,629.70	9,360.00	17,225.23	9,360.00	116.02	166.07	-89.721	1,474.59	6,177.20	1,450.33	1,168.27	282.06	5.142	
14,700.00	9,360.00	17,295.53	9,360.00	117.47	167.51	-89.721	1,474.80	6,247.50	1,450.33	1,165.38	284.95	5.090	
14,729.70	9,360.00	17,325.23	9,360.00	118.08	168.12	-89.721	1,474.88	6,277.20	1,450.33	1,164.16	286.17	5.068	
14,800.00	9,360.00	17,395.53	9,360.00	119.52	169.56	-89.721	1,475.09	6,347.50	1,450.32	1,161.27	289.05	5.017	
14,829.70	9,360.00	17,425.23	9,360.00	120.13	170.17	-89.721	1,475.18	6,377.20	1,450.32	1,160.05	290.27	4.996	
14,900.00	9,360.00	17,495.53	9,360.00	121.57	171.62	-89.721	1,475.38	6,447.50	1,450.32	1,157.16	293.16	4.947	
14,929.70	9,360.00	17,525.23	9,360.00	122.18	172.23	-89.721	1,475.47	6,477.20	1,450.32	1,155.93	294.38	4.927	
15,000.00	9,360.00	17,595.53	9,360.00	123.63	173.67	-89.721	1,475.67	6,547.50	1,450.31	1,153.04	297.27	4.879	
15,029.70	9,360.00	17,625.23	9,360.00	124.24	174.29	-89.721	1,475.76	6,577.20	1,450.31	1,151.82	298.49	4.859	
15,100.00	9,360.00	17,695.53	9,360.00	125.68	175.73	-89.721	1,475.97	6,647.50	1,450.31	1,148.93	301.38	4.812	
15,129.70	9,360.00	17,725.23	9,360.00	126.29	176.34	-89.721	1,476.05	6,677.20	1,450.30	1,147.70	302.60	4.793	
15,200.00	9,360.00	17,795.53	9,360.00	127.74	177.79	-89.721	1,476.26	6,747.50	1,450.30	1,144.81	305.49	4.747	
15,229.70	9,360.00	17,825.23	9,360.00	128.35	178.40	-89.721	1,476.35	6,777.20	1,450.30	1,143.59	306.71	4.729	
15,300.00	9,360.00	17,895.53	9,360.00	129.79	179.84	-89.721	1,476.55	6,847.50	1,450.30	1,140.69	309.60	4.684	
15,329.70	9,360.00	17,925.23	9,360.00	130.40	180.45	-89.721	1,476.64	6,877.20	1,450.29	1,139.47	310.83	4.666	
15,400.00	9,360.00	17,995.53	9,360.00	131.85	181.90	-89.721	1,476.84	6,947.50	1,450.29	1,136.57	313.72	4.623	
15,429.70	9,360.00	18,025.23	9,360.00	132.46	182.51	-89.721	1,476.93	6,977.20	1,450.29	1,135.35	314.94	4.605	
15,500.00	9,360.00	18,095.53	9,360.00	133.90	183.96	-89.721	1,477.14	7,047.50	1,450.28	1,132.45	317.83	4.563	
15,529.70	9,360.00	18,125.23	9,360.00	134.51	184.57	-89.721	1,477.22	7,077.20	1,450.28	1,131.23	319.05	4.546	
15,600.00	9,360.00	18,195.53	9,360.00	135.96	186.01	-89.721	1,477.43	7,147.50	1,450.28	1,128.33	321.94	4.505	
15,629.70	9,360.00	18,225.23	9,360.00	136.57	186.63	-89.721	1,477.52	7,177.20	1,450.28	1,127.11	323.17	4.488	
15,700.00	9,360.00	18,295.53	9,360.00	138.02	188.07	-89.721	1,477.72	7,247.50	1,450.27	1,124.21	326.06	4.448	
15,729.70	9,360.00	18,325.23	9,360.00	138.63	188.68	-89.721	1,477.81	7,277.20	1,450.27	1,122.99	327.28	4.431	
15,800.00	9,360.00	18,395.53	9,360.00	140.07	190.13	-89.721	1,478.02	7,347.50	1,450.27	1,120.09	330.17	4.392	
15,829.70	9,360.00	18,425.23	9,360.00	140.68	190.74	-89.721	1,478.10	7,377.20	1,450.27	1,118.87	331.40	4.376	
15,900.00	9,360.00	18,495.53	9,360.00	142.13	192.19	-89.721	1,478.31	7,447.50	1,450.26	1,115.97	334.29	4.338	
15,929.70	9,360.00	18,525.23	9,360.00	142.74	192.80	-89.721	1,478.39	7,477.20	1,450.26	1,114.75	335.51	4.323	
16,000.00	9,360.00	18,595.53	9,360.00	144.19	194.25	-89.721	1,478.60	7,547.49	1,450.26	1,111.85	338.41	4.286	
16,029.70	9,360.00	18,625.23	9,360.00	144.80	194.86	-89.721	1,478.69	7,577.20	1,450.25	1,110.63	339.63	4.270	
16,100.00	9,360.00	18,695.53	9,360.00	146.25	196.30	-89.721	1,478.89	7,647.49	1,450.25	1,107.73	342.52	4.234	
16,129.70	9,360.00	18,725.23	9,360.00	146.86	196.92	-89.721	1,478.98	7,677.19	1,450.25	1,106.50	343.75	4.219	
16,200.00	9,360.00	18,795.53	9,360.00	148.31	198.36	-89.721	1,479.19	7,747.49	1,450.24	1,103.60	346.64	4.184	
16,229.70	9,360.00	18,825.23	9,360.00	148.92	198.97	-89.721	1,479.27	7,777.19	1,450.24	1,102.38	347.86	4.169	
16,300.00	9,360.00	18,895.53	9,360.00	150.37	200.42	-89.721	1,479.48	7,847.49	1,450.24	1,099.48	350.76	4.135	
16,329.70	9,360.00	18,925.23	9,360.00	150.98	201.03	-89.721	1,479.56	7,877.19	1,450.24	1,098.26	351.98	4.120	
16,400.00	9,360.00	18,995.53	9,360.00	152.42	202.48	-89.721	1,479.77	7,947.49	1,450.23	1,095.36	354.88	4.087	
16,429.70	9,360.00	19,025.23	9,360.00	153.04	203.09	-89.721	1,479.86	7,977.19	1,450.23	1,094.13	356.10	4.073	
16,500.00	9,360.00	19,095.53	9,360.00	154.48	204.54	-89.721	1,480.06	8,047.49	1,450.23	1,091.23	359.00	4.040	
16,529.70	9,360.00	19,125.23	9,360.00	155.10	205.15	-89.721	1,480.15	8,077.19	1,450.23	1,090.01	360.22	4.026	
16,600.00	9,360.00	19,195.53	9,360.00	156.54	206.60	-89.721	1,480.36	8,147.49	1,450.22	1,087.11	363.12	3.994	
16,629.70	9,360.00	19,225.23	9,360.00	157.16	207.21	-89.721	1,480.44	8,177.19	1,450.22	1,085.88	364.34	3.980	
16,700.00	9,360.00	19,295.53	9,360.00	158.60	208.66	-89.721	1,480.65	8,247.49	1,450.22	1,082.98	367.24	3.949	
16,729.70	9,360.00	19,325.23	9,360.00	159.22	209.27	-89.721	1,480.74	8,277.19	1,450.21	1,081.76	368.46	3.936	
16,800.00	9,360.00	19,395.53	9,360.00	160.66	210.72	-89.721	1,480.94	8,347.49	1,450.21	1,078.85	371.36	3.905	
16,829.70	9,360.00	19,425.23	9,360.00	161.28	211.33	-89.721	1,481.03	8,377.19	1,450.21	1,077.63	372.58	3.892	
16,900.00	9,360.00	19,495.53	9,360.00	162.73	212.78	-89.721	1,481.23	8,447.49	1,450.20	1,074.73	375.48	3.862	
16,929.70	9,360.00	19,525.23	9,360.00	163.34	213.39	-89.721	1,481.32	8,477.19	1,450.20	1,073.50	376.70	3.850	
17,000.00	9,360.00	19,595.53	9,360.00	164.79	214.84	-89.721	1,481.53	8,547.49	1,450.20	1,070.60	379.60	3.820	
17,029.70	9,360.00	19,625.23	9,360.00	165.40	215.45	-89.721	1,481.61	8,577.19	1,450.20	1,069.38	380.82	3.808	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
17,100.00	9,360.00	19,695.53	9,360.00	166.85	216.90	-89.721	1,481.82	8,647.49	1,450.19	1,066.47	383.72	3.779	
17,129.70	9,360.00	19,725.23	9,360.00	167.46	217.51	-89.721	1,481.91	8,677.19	1,450.19	1,065.25	384.94	3.767	
17,200.00	9,360.00	19,795.53	9,360.00	168.91	218.96	-89.721	1,482.11	8,747.49	1,450.19	1,062.35	387.84	3.739	
17,229.70	9,360.00	19,825.23	9,360.00	169.52	219.57	-89.721	1,482.20	8,777.19	1,450.19	1,061.12	389.07	3.727	
17,300.00	9,360.00	19,895.53	9,360.00	170.97	221.02	-89.721	1,482.40	8,847.49	1,450.18	1,058.22	391.96	3.700	
17,329.70	9,360.00	19,925.23	9,360.00	171.58	221.64	-89.721	1,482.49	8,877.19	1,450.18	1,056.99	393.19	3.688	
17,400.00	9,360.00	19,995.53	9,360.00	173.03	223.08	-89.721	1,482.70	8,947.49	1,450.18	1,054.09	396.09	3.661	
17,429.70	9,360.00	20,025.23	9,360.00	173.64	223.70	-89.721	1,482.78	8,977.19	1,450.17	1,052.86	397.31	3.650	
17,500.00	9,360.00	20,095.53	9,360.00	175.09	225.15	-89.721	1,482.99	9,047.49	1,450.17	1,049.96	400.21	3.624	
17,529.70	9,360.00	20,125.23	9,360.00	175.71	225.76	-89.721	1,483.08	9,077.19	1,450.17	1,048.73	401.44	3.612	
17,600.00	9,360.00	20,195.53	9,360.00	177.16	227.21	-89.721	1,483.28	9,147.49	1,450.17	1,045.83	404.33	3.587	
17,629.70	9,360.00	20,225.23	9,360.00	177.77	227.82	-89.721	1,483.37	9,177.19	1,450.16	1,044.60	405.56	3.576	
17,700.00	9,360.00	20,295.53	9,360.00	179.22	229.27	-89.721	1,483.57	9,247.49	1,450.16	1,041.70	408.46	3.550	
17,729.70	9,360.00	20,325.23	9,360.00	179.83	229.88	-89.721	1,483.66	9,277.19	1,450.16	1,040.47	409.68	3.540	
17,800.00	9,360.00	20,395.53	9,360.00	181.28	231.33	-89.721	1,483.87	9,347.49	1,450.15	1,037.57	412.58	3.515	
17,829.70	9,360.00	20,425.23	9,360.00	181.89	231.94	-89.721	1,483.95	9,377.19	1,450.15	1,036.34	413.81	3.504	
17,900.00	9,360.00	20,495.53	9,360.00	183.34	233.39	-89.721	1,484.16	9,447.49	1,450.15	1,033.44	416.71	3.480	
17,929.70	9,360.00	20,525.23	9,360.00	183.96	234.01	-89.721	1,484.25	9,477.19	1,450.15	1,032.21	417.93	3.470	
18,000.00	9,360.00	20,595.53	9,360.00	185.41	235.46	-89.721	1,484.45	9,547.49	1,450.14	1,029.31	420.83	3.446	
18,029.70	9,360.00	20,625.23	9,360.00	186.02	236.07	-89.721	1,484.54	9,577.19	1,450.14	1,028.08	422.06	3.436	
18,100.00	9,360.00	20,695.53	9,360.00	187.47	237.52	-89.721	1,484.74	9,647.49	1,450.14	1,025.18	424.96	3.412	
18,129.70	9,360.00	20,725.23	9,360.00	188.08	238.13	-89.721	1,484.83	9,677.19	1,450.14	1,023.95	426.18	3.403	
18,200.00	9,360.00	20,795.53	9,360.00	189.53	239.58	-89.721	1,485.04	9,747.49	1,450.13	1,021.05	429.08	3.380	
18,229.70	9,360.00	20,825.23	9,360.00	190.14	240.19	-89.721	1,485.12	9,777.19	1,450.13	1,019.82	430.31	3.370	
18,300.00	9,360.00	20,895.53	9,360.00	191.59	241.64	-89.721	1,485.33	9,847.49	1,450.13	1,016.92	433.21	3.347	
18,329.70	9,360.00	20,925.23	9,360.00	192.21	242.25	-89.721	1,485.42	9,877.19	1,450.12	1,015.69	434.43	3.338	
18,400.00	9,360.00	20,995.53	9,360.00	193.66	243.70	-89.721	1,485.62	9,947.48	1,450.12	1,012.79	437.33	3.316	
18,429.70	9,360.00	21,025.23	9,360.00	194.27	244.32	-89.721	1,485.71	9,977.18	1,450.12	1,011.56	438.56	3.307	
18,500.00	9,360.00	21,095.53	9,360.00	195.72	245.77	-89.721	1,485.91	10,047.48	1,450.11	1,008.65	441.46	3.285	
18,529.70	9,360.00	21,125.23	9,360.00	196.33	246.38	-89.721	1,486.00	10,077.18	1,450.11	1,007.43	442.69	3.276	
18,600.00	9,360.00	21,195.53	9,360.00	197.78	247.83	-89.721	1,486.21	10,147.48	1,450.11	1,004.52	445.59	3.254	
18,629.70	9,360.00	21,225.23	9,360.00	198.40	248.44	-89.721	1,486.29	10,177.18	1,450.11	1,003.29	446.81	3.245	
18,700.00	9,360.00	21,295.53	9,360.00	199.85	249.89	-89.721	1,486.50	10,247.48	1,450.10	1,000.39	449.71	3.225	
18,729.70	9,360.00	21,325.23	9,360.00	200.46	250.51	-89.721	1,486.59	10,277.18	1,450.10	999.16	450.94	3.216	
18,800.00	9,360.00	21,395.53	9,360.00	201.91	251.96	-89.721	1,486.79	10,347.48	1,450.10	996.26	453.84	3.195	
18,829.70	9,360.00	21,425.23	9,360.00	202.53	252.57	-89.721	1,486.88	10,377.18	1,450.10	995.03	455.07	3.187	
18,900.00	9,360.00	21,495.53	9,360.00	203.98	254.02	-89.721	1,487.08	10,447.48	1,450.09	992.12	457.97	3.166	
18,929.70	9,360.00	21,525.23	9,360.00	204.59	254.63	-89.721	1,487.17	10,477.18	1,450.09	990.90	459.19	3.158	
19,000.00	9,360.00	21,595.53	9,360.00	206.04	256.08	-89.721	1,487.38	10,547.48	1,450.09	987.99	462.09	3.138	
19,029.70	9,360.00	21,625.23	9,360.00	206.65	256.70	-89.721	1,487.46	10,577.18	1,450.08	986.76	463.32	3.130	
19,100.00	9,360.00	21,695.53	9,360.00	208.10	258.15	-89.721	1,487.67	10,647.48	1,450.08	983.86	466.22	3.110	
19,129.70	9,360.00	21,725.23	9,360.00	208.72	258.76	-89.721	1,487.76	10,677.18	1,450.08	982.63	467.45	3.102	
19,200.00	9,360.00	21,795.53	9,360.00	210.17	260.21	-89.721	1,487.96	10,747.48	1,450.07	979.72	470.35	3.083	
19,229.70	9,360.00	21,825.23	9,360.00	210.78	260.82	-89.721	1,488.05	10,777.18	1,450.07	978.50	471.58	3.075	
19,300.00	9,360.00	21,895.53	9,360.00	212.23	262.27	-89.721	1,488.25	10,847.48	1,450.07	975.59	474.48	3.056	
19,329.70	9,360.00	21,925.23	9,360.00	212.85	262.89	-89.721	1,488.34	10,877.18	1,450.07	974.36	475.70	3.048	
19,400.00	9,360.00	21,995.53	9,360.00	214.30	264.34	-89.721	1,488.55	10,947.48	1,450.06	971.46	478.61	3.030	
19,429.70	9,360.00	22,025.23	9,360.00	214.91	264.95	-89.721	1,488.63	10,977.18	1,450.06	970.23	479.83	3.022	
19,500.00	9,360.00	22,095.53	9,360.00	216.36	266.40	-89.721	1,488.84	11,047.48	1,450.06	967.32	482.73	3.004	
19,529.70	9,360.00	22,125.23	9,360.00	216.98	267.01	-89.721	1,488.93	11,077.18	1,450.06	966.09	483.96	2.996	
19,600.00	9,360.00	22,195.53	9,360.00	218.43	268.46	-89.721	1,489.13	11,147.48	1,450.05	963.19	486.86	2.978	
19,629.70	9,360.00	22,225.23	9,360.00	219.04	269.08	-89.721	1,489.22	11,177.18	1,450.05	961.96	488.09	2.971	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond North Pad - Phase 1 - (01) Bond 32-34 FED COM 205H - 205H - Plan 2													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
19,700.00	9,360.00	22,295.53	9,360.00	220.49	270.53	-89.721	1,489.42	11,247.48	1,450.05	959.05	490.99	2.953	
19,729.70	9,360.00	22,325.23	9,360.00	221.10	271.14	-89.721	1,489.51	11,277.18	1,450.04	957.83	492.22	2.946	
19,800.00	9,360.00	22,395.53	9,360.00	222.56	272.59	-89.721	1,489.72	11,347.48	1,450.04	954.92	495.12	2.929	
19,829.70	9,360.00	22,425.23	9,360.00	223.17	273.21	-89.721	1,489.80	11,377.18	1,450.04	953.69	496.35	2.921	
19,900.00	9,360.00	22,495.53	9,360.00	224.62	274.66	-89.721	1,490.01	11,447.48	1,450.04	950.78	499.25	2.904	
19,929.70	9,360.00	22,525.23	9,360.00	225.23	275.27	-89.721	1,490.10	11,477.18	1,450.03	949.56	500.48	2.897	
20,000.00	9,360.00	22,595.53	9,360.00	226.69	276.72	-89.721	1,490.30	11,547.48	1,450.03	946.65	503.38	2.881	
20,029.70	9,360.00	22,625.23	9,360.00	227.30	277.33	-89.721	1,490.39	11,577.18	1,450.03	945.42	504.61	2.874	
20,100.00	9,360.00	22,695.53	9,360.00	228.75	278.79	-89.721	1,490.60	11,647.48	1,450.02	942.51	507.51	2.857	
20,129.70	9,360.00	22,725.23	9,360.00	229.37	279.40	-89.721	1,490.68	11,677.18	1,450.02	941.29	508.74	2.850	
20,176.24	9,360.00	22,771.47	9,360.00	230.33	280.35	-89.721	1,490.82	11,723.41	1,450.02	939.37	510.65	2.840 CC	
20,181.28	9,360.00	22,771.47	9,360.00	230.43	280.35	-89.721	1,490.82	11,723.41	1,450.03	939.28	510.75	2.839 ES, SF	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond North Pad - Phase 2 - (03) Bond 32-34 FED COM #103H - #103H - Plan 1												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>			<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
7,100.00	7,018.38	10,825.42	8,418.00	19.87	57.33	-94.704	1,528.65	729.60	2,063.13	2,000.30	62.83	32.836	
7,200.00	7,118.05	10,833.51	8,418.00	20.25	57.48	-92.646	1,528.68	737.69	1,997.08	1,933.02	64.06	31.177	
7,300.00	7,217.94	10,838.12	8,418.00	20.58	57.57	-90.838	1,528.69	742.30	1,933.79	1,868.57	65.23	29.648	
7,400.00	7,317.93	10,839.30	8,418.00	20.72	57.59	-0.168	1,528.69	743.48	1,873.67	1,807.35	66.31	28.255	
7,500.00	7,417.93	10,839.30	8,418.00	20.78	57.59	-0.168	1,528.69	743.48	1,817.05	1,749.68	67.38	26.969	
7,600.00	7,517.93	10,839.30	8,418.00	20.82	57.59	-0.168	1,528.69	743.48	1,764.30	1,695.91	68.39	25.798	
7,700.00	7,617.93	10,839.30	8,418.00	20.87	57.59	-0.168	1,528.69	743.48	1,715.75	1,646.42	69.34	24.744	
7,800.00	7,717.93	10,839.30	8,418.00	20.92	57.59	-0.168	1,528.69	743.48	1,671.79	1,601.58	70.21	23.813	
7,900.00	7,817.93	10,839.30	8,418.00	20.97	57.59	-0.168	1,528.69	743.48	1,632.77	1,561.81	70.96	23.009	
8,000.00	7,917.93	10,839.30	8,418.00	21.01	57.59	-0.168	1,528.69	743.48	1,599.06	1,527.47	71.59	22.337	
8,100.00	8,017.93	10,839.30	8,418.00	21.06	57.59	-0.168	1,528.69	743.48	1,571.01	1,498.95	72.06	21.802	
8,200.00	8,117.93	10,839.30	8,418.00	21.11	57.59	-0.168	1,528.69	743.48	1,548.91	1,476.56	72.35	21.408	
8,300.00	8,217.93	10,839.30	8,418.00	21.16	57.59	-0.168	1,528.69	743.48	1,533.03	1,460.58	72.45	21.159	
8,400.00	8,317.93	10,839.30	8,418.00	21.21	57.59	-0.168	1,528.69	743.48	1,523.57	1,451.21	72.35	21.057	
8,494.68	8,412.61	10,839.30	8,418.00	21.25	57.59	-0.168	1,528.69	743.48	1,520.62	1,448.55	72.08	21.097 CC	
8,500.00	8,417.93	10,839.30	8,418.00	21.26	57.59	-0.168	1,528.69	743.48	1,520.63	1,448.58	72.06	21.104	
8,600.00	8,517.93	10,839.30	8,418.00	21.31	57.59	-0.168	1,528.69	743.48	1,524.26	1,452.70	71.56	21.299	
8,700.00	8,617.93	10,839.30	8,418.00	21.35	57.59	-0.168	1,528.69	743.48	1,534.42	1,463.53	70.89	21.644	
8,800.00	8,717.93	10,839.30	8,418.00	21.40	57.59	-0.168	1,528.69	743.48	1,550.97	1,480.90	70.07	22.134	
8,900.00	8,817.91	10,840.13	8,418.00	21.48	57.61	-89.174	1,528.70	744.31	1,573.71	1,504.58	69.13	22.763	
9,000.00	8,916.79	10,854.18	8,418.00	21.94	57.87	-85.703	1,528.74	758.36	1,602.03	1,533.64	68.39	23.426	
9,100.00	9,011.73	10,885.19	8,418.00	22.47	58.46	-81.214	1,528.83	789.37	1,634.39	1,566.37	68.02	24.029	
9,200.00	9,099.84	10,932.21	8,418.00	23.01	59.35	-76.138	1,528.97	836.39	1,668.70	1,600.63	68.07	24.516	
9,300.00	9,178.45	10,993.82	8,418.00	23.52	60.52	-71.012	1,529.15	898.00	1,702.58	1,634.01	68.57	24.830	
9,400.00	9,245.16	11,068.15	8,418.00	23.97	61.94	-66.356	1,529.36	972.33	1,733.61	1,664.06	69.55	24.927	
9,500.00	9,297.95	11,152.93	8,418.00	24.35	63.57	-62.561	1,529.61	1,057.11	1,759.56	1,688.56	71.01	24.780	
9,600.00	9,335.22	11,245.58	8,418.00	24.62	65.35	-59.864	1,529.88	1,149.76	1,778.60	1,705.67	72.94	24.385	
9,700.00	9,355.84	11,343.31	8,418.00	24.78	67.24	-58.375	1,530.17	1,247.49	1,789.38	1,714.07	75.31	23.759	
9,722.08	9,358.20	11,365.25	8,418.00	24.79	67.67	-58.238	1,530.23	1,269.43	1,790.63	1,714.74	75.89	23.595	
9,800.00	9,360.00	11,443.14	8,418.00	24.83	69.18	-58.075	1,530.46	1,347.32	1,791.57	1,713.52	78.05	22.954	
9,900.00	9,360.00	11,543.14	8,418.00	24.86	71.13	-58.075	1,530.75	1,447.32	1,791.57	1,710.62	80.95	22.133	
9,929.37	9,360.00	11,572.51	8,418.00	24.87	71.70	-58.075	1,530.84	1,476.69	1,791.57	1,709.75	81.82	21.897	
10,000.00	9,360.00	11,643.14	8,418.00	24.94	73.09	-58.075	1,531.05	1,547.32	1,791.56	1,707.64	83.93	21.347	
10,029.37	9,360.00	11,672.51	8,418.00	25.13	73.66	-58.075	1,531.13	1,576.69	1,791.56	1,706.74	84.82	21.122	
10,100.00	9,360.00	11,743.14	8,418.00	26.19	75.05	-58.075	1,531.34	1,647.32	1,791.56	1,704.58	86.98	20.598	
10,129.37	9,360.00	11,772.51	8,418.00	26.69	75.63	-58.075	1,531.42	1,676.69	1,791.56	1,703.67	87.89	20.384	
10,200.00	9,360.00	11,843.14	8,418.00	27.89	77.02	-58.075	1,531.63	1,747.32	1,791.55	1,701.46	90.09	19.886	
10,229.37	9,360.00	11,872.51	8,418.00	28.40	77.60	-58.075	1,531.72	1,776.69	1,791.55	1,700.53	91.02	19.683	
10,300.00	9,360.00	11,943.14	8,418.00	29.64	78.99	-58.075	1,531.92	1,847.32	1,791.55	1,698.29	93.26	19.211	
10,329.37	9,360.00	11,972.51	8,418.00	30.16	79.57	-58.075	1,532.01	1,876.69	1,791.55	1,697.35	94.20	19.019	
10,400.00	9,360.00	12,043.14	8,418.00	31.43	80.97	-58.075	1,532.22	1,947.32	1,791.54	1,695.08	96.47	18.572	
10,429.37	9,360.00	12,072.51	8,418.00	31.96	81.55	-58.075	1,532.30	1,976.68	1,791.54	1,694.12	97.42	18.390	
10,500.00	9,360.00	12,143.14	8,418.00	33.25	82.95	-58.075	1,532.51	2,047.31	1,791.54	1,691.82	99.72	17.967	
10,529.37	9,360.00	12,172.51	8,418.00	33.79	83.53	-58.075	1,532.59	2,076.68	1,791.54	1,690.86	100.68	17.795	
10,600.00	9,360.00	12,243.14	8,418.00	35.10	84.93	-58.075	1,532.80	2,147.31	1,791.53	1,688.54	103.00	17.394	
10,629.37	9,360.00	12,272.51	8,418.00	35.65	85.52	-58.075	1,532.89	2,176.68	1,791.53	1,687.56	103.97	17.231	
10,700.00	9,360.00	12,343.14	8,418.00	36.98	86.93	-58.074	1,533.09	2,247.31	1,791.53	1,685.22	106.31	16.852	
10,729.37	9,360.00	12,372.51	8,418.00	37.53	87.51	-58.074	1,533.18	2,276.68	1,791.53	1,684.24	107.29	16.698	
10,800.00	9,360.00	12,443.14	8,418.00	38.87	88.92	-58.074	1,533.39	2,347.31	1,791.52	1,681.88	109.65	16.339	
10,829.37	9,360.00	12,472.51	8,418.00	39.43	89.51	-58.074	1,533.47	2,376.68	1,791.52	1,680.89	110.63	16.193	
10,900.00	9,360.00	12,543.14	8,418.00	40.78	90.92	-58.074	1,533.68	2,447.31	1,791.52	1,678.51	113.01	15.853	
10,929.37	9,360.00	12,572.51	8,418.00	41.35	91.50	-58.074	1,533.76	2,476.68	1,791.52	1,677.52	114.00	15.715	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond North Pad - Phase 2 - (03) Bond 32-34 FED COM #103H - #103H - Plan 1											<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1											<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	
11,000.00	9,360.00	12,643.14	8,418.00	42.71	92.92	-58.074	1,533.97	2,547.31	1,791.51	1,675.13	15.393
11,029.37	9,360.00	12,672.51	8,418.00	43.28	93.50	-58.074	1,534.06	2,576.68	1,791.51	1,674.13	15.262
11,100.00	9,360.00	12,743.14	8,418.00	44.65	94.92	-58.074	1,534.26	2,647.31	1,791.51	1,671.73	14.956
11,129.37	9,360.00	12,772.51	8,418.00	45.22	95.51	-58.074	1,534.35	2,676.68	1,791.51	1,670.72	14.832
11,200.00	9,360.00	12,843.14	8,418.00	46.60	96.93	-58.074	1,534.56	2,747.31	1,791.51	1,668.31	14.542
11,229.37	9,360.00	12,872.51	8,418.00	47.17	97.52	-58.074	1,534.64	2,776.68	1,791.50	1,667.30	14.424
11,300.00	9,360.00	12,943.14	8,418.00	48.56	98.94	-58.074	1,534.85	2,847.31	1,791.50	1,664.88	14.148
11,329.37	9,360.00	12,972.51	8,418.00	49.14	99.53	-58.074	1,534.93	2,876.68	1,791.50	1,663.87	14.036
11,400.00	9,360.00	13,043.14	8,418.00	50.53	100.95	-58.074	1,535.14	2,947.31	1,791.50	1,661.43	13.774
11,429.37	9,360.00	13,072.51	8,418.00	51.11	101.54	-58.074	1,535.23	2,976.68	1,791.49	1,660.42	13.668
11,500.00	9,360.00	13,143.14	8,418.00	52.50	102.96	-58.074	1,535.43	3,047.31	1,791.49	1,657.98	13.418
11,529.37	9,360.00	13,172.51	8,418.00	53.09	103.55	-58.074	1,535.52	3,076.68	1,791.49	1,656.96	13.317
11,600.00	9,360.00	13,243.14	8,418.00	54.49	104.98	-58.074	1,535.72	3,147.31	1,791.49	1,654.51	13.079
11,629.37	9,360.00	13,272.51	8,418.00	55.07	105.57	-58.074	1,535.81	3,176.68	1,791.48	1,653.49	12.982
11,700.00	9,360.00	13,343.14	8,418.00	56.48	106.99	-58.074	1,536.02	3,247.31	1,791.48	1,651.04	12.756
11,729.37	9,360.00	13,372.51	8,418.00	57.06	107.59	-58.073	1,536.10	3,276.68	1,791.48	1,650.01	12.664
11,800.00	9,360.00	13,443.14	8,418.00	58.47	109.01	-58.073	1,536.31	3,347.31	1,791.48	1,647.55	12.447
11,829.37	9,360.00	13,472.51	8,418.00	59.06	109.61	-58.073	1,536.40	3,376.68	1,791.47	1,646.53	12.359
11,900.00	9,360.00	13,543.14	8,418.00	60.47	111.04	-58.073	1,536.60	3,447.31	1,791.47	1,644.06	12.153
11,929.37	9,360.00	13,572.51	8,418.00	61.06	111.63	-58.073	1,536.69	3,476.68	1,791.47	1,643.03	12.069
12,000.00	9,360.00	13,643.14	8,418.00	62.48	113.06	-58.073	1,536.89	3,547.31	1,791.47	1,640.56	11.872
12,029.37	9,360.00	13,672.51	8,418.00	63.07	113.65	-58.073	1,536.98	3,576.68	1,791.46	1,639.53	11.791
12,100.00	9,360.00	13,743.14	8,418.00	64.49	115.08	-58.073	1,537.19	3,647.31	1,791.46	1,637.06	11.602
12,129.37	9,360.00	13,772.51	8,418.00	65.08	115.68	-58.073	1,537.27	3,676.68	1,791.46	1,636.03	11.526
12,200.00	9,360.00	13,843.14	8,418.00	66.50	117.11	-58.073	1,537.48	3,747.31	1,791.46	1,633.55	11.345
12,229.37	9,360.00	13,872.51	8,418.00	67.09	117.71	-58.073	1,537.57	3,776.68	1,791.46	1,632.51	11.271
12,300.00	9,360.00	13,943.14	8,418.00	68.52	119.14	-58.073	1,537.77	3,847.31	1,791.45	1,630.03	11.098
12,329.37	9,360.00	13,972.51	8,418.00	69.11	119.73	-58.073	1,537.86	3,876.68	1,791.45	1,629.00	11.027
12,400.00	9,360.00	14,043.14	8,418.00	70.54	121.17	-58.073	1,538.06	3,947.31	1,791.45	1,626.51	10.861
12,429.37	9,360.00	14,072.51	8,418.00	71.13	121.76	-58.073	1,538.15	3,976.68	1,791.45	1,625.47	10.794
12,500.00	9,360.00	14,143.14	8,418.00	72.56	123.20	-58.073	1,538.36	4,047.31	1,791.44	1,622.98	10.634
12,529.37	9,360.00	14,172.51	8,418.00	73.15	123.80	-58.073	1,538.44	4,076.68	1,791.44	1,621.95	10.569
12,600.00	9,360.00	14,243.14	8,418.00	74.58	125.23	-58.073	1,538.65	4,147.31	1,791.44	1,619.45	10.416
12,629.37	9,360.00	14,272.51	8,418.00	75.18	125.83	-58.073	1,538.74	4,176.68	1,791.44	1,618.41	10.354
12,700.00	9,360.00	14,343.14	8,418.00	76.61	127.26	-58.073	1,538.94	4,247.31	1,791.43	1,615.92	10.207
12,729.37	9,360.00	14,372.51	8,418.00	77.21	127.86	-58.073	1,539.03	4,276.68	1,791.43	1,614.88	10.147
12,800.00	9,360.00	14,443.14	8,418.00	78.64	129.30	-58.072	1,539.23	4,347.30	1,791.43	1,612.38	10.005
12,829.37	9,360.00	14,472.51	8,418.00	79.24	129.90	-58.072	1,539.32	4,376.67	1,791.43	1,611.34	9.948
12,900.00	9,360.00	14,543.14	8,418.00	80.67	131.33	-58.072	1,539.53	4,447.30	1,791.42	1,608.84	9.811
12,929.37	9,360.00	14,572.51	8,418.00	81.27	131.93	-58.072	1,539.61	4,476.67	1,791.42	1,607.80	9.756
13,000.00	9,360.00	14,643.14	8,418.00	82.71	133.37	-58.072	1,539.82	4,547.30	1,791.42	1,605.29	9.625
13,029.37	9,360.00	14,672.51	8,418.00	83.30	133.97	-58.072	1,539.91	4,576.67	1,791.42	1,604.25	9.571
13,100.00	9,360.00	14,743.14	8,418.00	84.74	135.41	-58.072	1,540.11	4,647.30	1,791.41	1,601.74	9.445
13,129.37	9,360.00	14,772.51	8,418.00	85.34	136.01	-58.072	1,540.20	4,676.67	1,791.41	1,600.70	9.393
13,200.00	9,360.00	14,843.14	8,418.00	86.78	137.45	-58.072	1,540.40	4,747.30	1,791.41	1,598.19	9.272
13,229.37	9,360.00	14,872.51	8,418.00	87.38	138.05	-58.072	1,540.49	4,776.67	1,791.41	1,597.15	9.222
13,300.00	9,360.00	14,943.14	8,418.00	88.82	139.49	-58.072	1,540.70	4,847.30	1,791.40	1,594.64	9.104
13,329.37	9,360.00	14,972.51	8,418.00	89.41	140.09	-58.072	1,540.78	4,876.67	1,791.40	1,593.59	9.056
13,400.00	9,360.00	15,043.14	8,418.00	90.86	141.53	-58.072	1,540.99	4,947.30	1,791.40	1,591.08	8.943
13,429.37	9,360.00	15,072.51	8,418.00	91.45	142.13	-58.072	1,541.08	4,976.67	1,791.40	1,590.04	8.897
13,500.00	9,360.00	15,143.14	8,418.00	92.90	143.57	-58.072	1,541.28	5,047.30	1,791.39	1,587.52	8.787
13,529.37	9,360.00	15,172.51	8,418.00	93.50	144.17	-58.072	1,541.37	5,076.67	1,791.39	1,586.48	8.742

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond North Pad - Phase 2 - (03) Bond 32-34 FED COM #103H - #103H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>			<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>		
13,600.00	9,360.00	15,243.14	8,418.00	94.94	145.61	-58.072	1,541.57	5,147.30	1,791.39	1,583.96	207.43	8.636	
13,629.37	9,360.00	15,272.51	8,418.00	95.54	146.21	-58.072	1,541.66	5,176.67	1,791.39	1,582.92	208.47	8.593	
13,700.00	9,360.00	15,343.14	8,418.00	96.98	147.65	-58.072	1,541.87	5,247.30	1,791.38	1,580.40	210.98	8.491	
13,729.37	9,360.00	15,372.51	8,418.00	97.58	148.25	-58.072	1,541.95	5,276.67	1,791.38	1,579.35	212.03	8.449	
13,800.00	9,360.00	15,443.14	8,418.00	99.03	149.70	-58.071	1,542.16	5,347.30	1,791.38	1,576.83	214.55	8.350	
13,829.37	9,360.00	15,472.51	8,418.00	99.63	150.30	-58.071	1,542.25	5,376.67	1,791.38	1,575.79	215.59	8.309	
13,900.00	9,360.00	15,543.14	8,418.00	101.07	151.74	-58.071	1,542.45	5,447.30	1,791.37	1,573.27	218.11	8.213	
13,929.37	9,360.00	15,572.51	8,418.00	101.67	152.34	-58.071	1,542.54	5,476.67	1,791.37	1,572.22	219.15	8.174	
14,000.00	9,360.00	15,643.14	8,418.00	103.12	153.79	-58.071	1,542.74	5,547.30	1,791.37	1,569.70	221.67	8.081	
14,029.37	9,360.00	15,672.51	8,418.00	103.72	154.39	-58.071	1,542.83	5,576.67	1,791.37	1,568.65	222.72	8.043	
14,100.00	9,360.00	15,743.14	8,418.00	105.17	155.83	-58.071	1,543.04	5,647.30	1,791.36	1,566.13	225.24	7.953	
14,129.37	9,360.00	15,772.51	8,418.00	105.77	156.43	-58.071	1,543.12	5,676.67	1,791.36	1,565.08	226.29	7.916	
14,200.00	9,360.00	15,843.14	8,418.00	107.21	157.88	-58.071	1,543.33	5,747.30	1,791.36	1,562.55	228.81	7.829	
14,229.37	9,360.00	15,872.51	8,418.00	107.82	158.48	-58.071	1,543.42	5,776.67	1,791.36	1,561.50	229.85	7.793	
14,300.00	9,360.00	15,943.14	8,418.00	109.26	159.93	-58.071	1,543.62	5,847.30	1,791.35	1,558.98	232.38	7.709	
14,329.37	9,360.00	15,972.51	8,418.00	109.87	160.53	-58.071	1,543.71	5,876.67	1,791.35	1,557.93	233.42	7.674	
14,400.00	9,360.00	16,043.14	8,418.00	111.31	161.97	-58.071	1,543.91	5,947.30	1,791.35	1,555.40	235.95	7.592	
14,429.37	9,360.00	16,072.51	8,418.00	111.92	162.57	-58.071	1,544.00	5,976.67	1,791.35	1,554.35	236.99	7.559	
14,500.00	9,360.00	16,143.14	8,418.00	113.36	164.02	-58.071	1,544.21	6,047.30	1,791.34	1,551.83	239.52	7.479	
14,529.37	9,360.00	16,172.51	8,418.00	113.97	164.62	-58.071	1,544.29	6,076.67	1,791.34	1,550.78	240.57	7.446	
14,600.00	9,360.00	16,243.14	8,418.00	115.42	166.07	-58.071	1,544.50	6,147.30	1,791.34	1,548.25	243.09	7.369	
14,629.37	9,360.00	16,272.51	8,418.00	116.02	166.67	-58.071	1,544.59	6,176.67	1,791.34	1,547.20	244.14	7.337	
14,700.00	9,360.00	16,343.14	8,418.00	117.47	168.12	-58.071	1,544.79	6,247.30	1,791.33	1,544.67	246.67	7.262	
14,729.37	9,360.00	16,372.51	8,418.00	118.07	168.72	-58.071	1,544.88	6,276.67	1,791.33	1,543.62	247.72	7.231	
14,800.00	9,360.00	16,443.14	8,418.00	119.52	170.17	-58.071	1,545.08	6,347.30	1,791.33	1,541.09	250.24	7.158	
14,829.37	9,360.00	16,472.51	8,418.00	120.12	170.77	-58.070	1,545.17	6,376.67	1,791.33	1,540.04	251.29	7.128	
14,900.00	9,360.00	16,543.14	8,418.00	121.57	172.22	-58.070	1,545.38	6,447.30	1,791.33	1,537.51	253.82	7.057	
14,929.37	9,360.00	16,572.51	8,418.00	122.18	172.82	-58.070	1,545.46	6,476.67	1,791.32	1,536.45	254.87	7.028	
15,000.00	9,360.00	16,643.14	8,418.00	123.63	174.27	-58.070	1,545.67	6,547.30	1,791.32	1,533.92	257.40	6.959	
15,029.37	9,360.00	16,672.51	8,418.00	124.23	174.87	-58.070	1,545.76	6,576.67	1,791.32	1,532.87	258.45	6.931	
15,100.00	9,360.00	16,743.14	8,418.00	125.68	176.32	-58.070	1,545.96	6,647.30	1,791.32	1,530.34	260.98	6.864	
15,129.37	9,360.00	16,772.51	8,418.00	126.28	176.92	-58.070	1,546.05	6,676.66	1,791.31	1,529.29	262.03	6.836	
15,200.00	9,360.00	16,843.14	8,418.00	127.74	178.37	-58.070	1,546.25	6,747.29	1,791.31	1,526.75	264.56	6.771	
15,229.37	9,360.00	16,872.51	8,418.00	128.34	178.97	-58.070	1,546.34	6,776.66	1,791.31	1,525.70	265.61	6.744	
15,300.00	9,360.00	16,943.14	8,418.00	129.79	180.42	-58.070	1,546.55	6,847.29	1,791.31	1,523.17	268.14	6.681	
15,329.37	9,360.00	16,972.51	8,418.00	130.39	181.03	-58.070	1,546.63	6,876.66	1,791.30	1,522.11	269.19	6.654	
15,400.00	9,360.00	17,043.14	8,418.00	131.85	182.48	-58.070	1,546.84	6,947.29	1,791.30	1,519.58	271.72	6.592	
15,429.37	9,360.00	17,072.51	8,418.00	132.45	183.08	-58.070	1,546.93	6,976.66	1,791.30	1,518.53	272.77	6.567	
15,500.00	9,360.00	17,143.14	8,418.00	133.90	184.53	-58.070	1,547.13	7,047.29	1,791.30	1,515.99	275.30	6.507	
15,529.37	9,360.00	17,172.51	8,418.00	134.51	185.13	-58.070	1,547.22	7,076.66	1,791.29	1,514.94	276.36	6.482	
15,600.00	9,360.00	17,243.14	8,418.00	135.96	186.58	-58.070	1,547.42	7,147.29	1,791.29	1,512.40	278.89	6.423	
15,629.37	9,360.00	17,272.51	8,418.00	136.56	187.19	-58.070	1,547.51	7,176.66	1,791.29	1,511.35	279.94	6.399	
15,700.00	9,360.00	17,343.14	8,418.00	138.02	188.64	-58.070	1,547.72	7,247.29	1,791.29	1,508.81	282.47	6.341	
15,729.37	9,360.00	17,372.51	8,418.00	138.62	189.24	-58.070	1,547.80	7,276.66	1,791.28	1,507.76	283.53	6.318	
15,800.00	9,360.00	17,443.14	8,418.00	140.07	190.69	-58.070	1,548.01	7,347.29	1,791.28	1,505.22	286.06	6.262	
15,829.37	9,360.00	17,472.51	8,418.00	140.68	191.29	-58.070	1,548.10	7,376.66	1,791.28	1,504.17	287.11	6.239	
15,900.00	9,360.00	17,543.14	8,418.00	142.13	192.74	-58.069	1,548.30	7,447.29	1,791.28	1,501.63	289.64	6.184	
15,929.37	9,360.00	17,572.51	8,418.00	142.74	193.35	-58.069	1,548.39	7,476.66	1,791.28	1,500.58	290.70	6.162	
16,000.00	9,360.00	17,643.14	8,418.00	144.19	194.80	-58.069	1,548.59	7,547.29	1,791.27	1,498.04	293.23	6.109	
16,029.37	9,360.00	17,672.51	8,418.00	144.79	195.40	-58.069	1,548.68	7,576.66	1,791.27	1,496.99	294.28	6.087	
16,100.00	9,360.00	17,743.14	8,418.00	146.25	196.85	-58.069	1,548.89	7,647.29	1,791.27	1,494.45	296.82	6.035	
16,129.37	9,360.00	17,772.51	8,418.00	146.85	197.46	-58.069	1,548.97	7,676.66	1,791.27	1,493.39	297.87	6.014	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond North Pad - Phase 2 - (03) Bond 32-34 FED COM #103H - #103H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>			<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>		
16,200.00	9,360.00	17,843.14	8,418.00	148.31	198.91	-58.069	1,549.18	7,747.29	1,791.26	1,490.85	300.41	5.963	
16,229.37	9,360.00	17,872.51	8,418.00	148.91	199.51	-58.069	1,549.26	7,776.66	1,791.26	1,489.80	301.46	5.942	
16,300.00	9,360.00	17,943.14	8,418.00	150.37	200.96	-58.069	1,549.47	7,847.29	1,791.26	1,487.26	304.00	5.892	
16,329.37	9,360.00	17,972.51	8,418.00	150.97	201.57	-58.069	1,549.56	7,876.66	1,791.26	1,486.21	305.05	5.872	
16,400.00	9,360.00	18,043.14	8,418.00	152.42	203.02	-58.069	1,549.76	7,947.29	1,791.25	1,483.67	307.59	5.824	
16,429.37	9,360.00	18,072.51	8,418.00	153.03	203.62	-58.069	1,549.85	7,976.66	1,791.25	1,482.61	308.64	5.804	
16,500.00	9,360.00	18,143.14	8,418.00	154.48	205.08	-58.069	1,550.06	8,047.29	1,791.25	1,480.07	311.18	5.756	
16,529.37	9,360.00	18,172.51	8,418.00	155.09	205.68	-58.069	1,550.14	8,076.66	1,791.25	1,479.01	312.23	5.737	
16,600.00	9,360.00	18,243.14	8,418.00	156.54	207.13	-58.069	1,550.35	8,147.29	1,791.24	1,476.48	314.77	5.691	
16,629.37	9,360.00	18,272.51	8,418.00	157.15	207.74	-58.069	1,550.43	8,176.66	1,791.24	1,475.42	315.82	5.672	
16,700.00	9,360.00	18,343.14	8,418.00	158.60	209.19	-58.069	1,550.64	8,247.29	1,791.24	1,472.88	318.36	5.626	
16,729.37	9,360.00	18,372.51	8,418.00	159.21	209.79	-58.069	1,550.73	8,276.66	1,791.24	1,471.82	319.41	5.608	
16,800.00	9,360.00	18,443.14	8,418.00	160.66	211.25	-58.069	1,550.93	8,347.29	1,791.23	1,469.28	321.95	5.564	
16,829.37	9,360.00	18,472.51	8,418.00	161.27	211.85	-58.069	1,551.02	8,376.66	1,791.23	1,468.23	323.01	5.546	
16,900.00	9,360.00	18,543.14	8,418.00	162.73	213.30	-58.068	1,551.23	8,447.29	1,791.23	1,465.68	325.54	5.502	
16,929.37	9,360.00	18,572.51	8,418.00	163.33	213.91	-58.068	1,551.31	8,476.66	1,791.23	1,464.63	326.60	5.484	
17,000.00	9,360.00	18,643.14	8,418.00	164.79	215.36	-58.068	1,551.52	8,547.29	1,791.22	1,462.09	329.14	5.442	
17,029.37	9,360.00	18,672.51	8,418.00	165.39	215.96	-58.068	1,551.60	8,576.66	1,791.22	1,461.03	330.19	5.425	
17,100.00	9,360.00	18,743.14	8,418.00	166.85	217.42	-58.068	1,551.81	8,647.29	1,791.22	1,458.49	332.73	5.383	
17,129.37	9,360.00	18,772.51	8,418.00	167.45	218.02	-58.068	1,551.90	8,676.66	1,791.22	1,457.43	333.79	5.366	
17,200.00	9,360.00	18,843.14	8,418.00	168.91	219.47	-58.068	1,552.10	8,747.29	1,791.21	1,454.89	336.32	5.326	
17,229.37	9,360.00	18,872.51	8,418.00	169.51	220.08	-58.068	1,552.19	8,776.66	1,791.21	1,453.83	337.38	5.309	
17,300.00	9,360.00	18,943.14	8,418.00	170.97	221.53	-58.068	1,552.40	8,847.29	1,791.21	1,451.29	339.92	5.270	
17,329.37	9,360.00	18,972.51	8,418.00	171.58	222.14	-58.068	1,552.48	8,876.66	1,791.21	1,450.23	340.97	5.253	
17,400.00	9,360.00	19,043.14	8,418.00	173.03	223.59	-58.068	1,552.69	8,947.29	1,791.20	1,447.69	343.51	5.214	
17,429.37	9,360.00	19,072.51	8,418.00	173.64	224.20	-58.068	1,552.77	8,976.66	1,791.20	1,446.63	344.57	5.198	
17,500.00	9,360.00	19,143.14	8,418.00	175.09	225.65	-58.068	1,552.98	9,047.28	1,791.20	1,444.09	347.11	5.160	
17,529.37	9,360.00	19,172.51	8,418.00	175.70	226.25	-58.068	1,553.07	9,076.65	1,791.20	1,443.03	348.16	5.145	
17,600.00	9,360.00	19,243.14	8,418.00	177.16	227.71	-58.068	1,553.27	9,147.28	1,791.19	1,440.49	350.70	5.107	
17,629.37	9,360.00	19,272.51	8,418.00	177.76	228.31	-58.068	1,553.36	9,176.65	1,791.19	1,439.43	351.76	5.092	
17,700.00	9,360.00	19,343.14	8,418.00	179.22	229.77	-58.068	1,553.57	9,247.28	1,791.19	1,436.89	354.30	5.056	
17,729.37	9,360.00	19,372.51	8,418.00	179.82	230.37	-58.068	1,553.65	9,276.65	1,791.19	1,435.83	355.36	5.041	
17,800.00	9,360.00	19,443.14	8,418.00	181.28	231.83	-58.068	1,553.86	9,347.28	1,791.18	1,433.29	357.90	5.005	
17,829.37	9,360.00	19,472.51	8,418.00	181.89	232.43	-58.068	1,553.94	9,376.65	1,791.18	1,432.23	358.95	4.990	
17,900.00	9,360.00	19,543.14	8,418.00	183.34	233.89	-58.068	1,554.15	9,447.28	1,791.18	1,429.69	361.49	4.955	
17,929.37	9,360.00	19,572.51	8,418.00	183.95	234.49	-58.067	1,554.24	9,476.65	1,791.18	1,428.63	362.55	4.940	
18,000.00	9,360.00	19,643.14	8,418.00	185.41	235.94	-58.067	1,554.44	9,547.28	1,791.17	1,426.08	365.09	4.906	
18,029.37	9,360.00	19,672.51	8,418.00	186.01	236.55	-58.067	1,554.53	9,576.65	1,791.17	1,425.03	366.15	4.892	
18,100.00	9,360.00	19,743.14	8,418.00	187.47	238.00	-58.067	1,554.74	9,647.28	1,791.17	1,422.48	368.69	4.858	
18,129.37	9,360.00	19,772.51	8,418.00	188.07	238.61	-58.067	1,554.82	9,676.65	1,791.17	1,421.42	369.75	4.844	
18,200.00	9,360.00	19,843.14	8,418.00	189.53	240.06	-58.067	1,555.03	9,747.28	1,791.16	1,418.88	372.29	4.811	
18,229.37	9,360.00	19,872.51	8,418.00	190.14	240.67	-58.067	1,555.11	9,776.65	1,791.16	1,417.82	373.34	4.798	
18,300.00	9,360.00	19,943.14	8,418.00	191.59	242.12	-58.067	1,555.32	9,847.28	1,791.16	1,415.27	375.89	4.765	
18,329.37	9,360.00	19,972.51	8,418.00	192.20	242.73	-58.067	1,555.41	9,876.65	1,791.16	1,414.22	376.94	4.752	
18,400.00	9,360.00	20,043.14	8,418.00	193.66	244.18	-58.067	1,555.61	9,947.28	1,791.16	1,411.67	379.48	4.720	
18,429.37	9,360.00	20,072.51	8,418.00	194.26	244.79	-58.067	1,555.70	9,976.65	1,791.15	1,410.61	380.54	4.707	
18,500.00	9,360.00	20,143.14	8,418.00	195.72	246.24	-58.067	1,555.91	10,047.28	1,791.15	1,408.07	383.08	4.676	
18,529.37	9,360.00	20,172.51	8,418.00	196.33	246.85	-58.067	1,555.99	10,076.65	1,791.15	1,407.01	384.14	4.663	
18,600.00	9,360.00	20,243.14	8,418.00	197.78	248.31	-58.067	1,556.20	10,147.28	1,791.15	1,404.46	386.68	4.632	
18,629.37	9,360.00	20,272.51	8,418.00	198.39	248.91	-58.067	1,556.28	10,176.65	1,791.14	1,403.40	387.74	4.619	
18,700.00	9,360.00	20,343.14	8,418.00	199.85	250.37	-58.067	1,556.49	10,247.28	1,791.14	1,400.86	390.28	4.589	
18,729.37	9,360.00	20,372.51	8,418.00	200.45	250.97	-58.067	1,556.58	10,276.65	1,791.14	1,399.80	391.34	4.577	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond North Pad - Phase 2 - (03) Bond 32-34 FED COM #103H - #103H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
18,800.00	9,360.00	20,443.14	8,418.00	201.91	252.43	-58.067	1,556.78	10,347.28	1,791.14	1,397.25	393.88	4.547	
18,829.37	9,360.00	20,472.51	8,418.00	202.52	253.03	-58.067	1,556.87	10,376.65	1,791.13	1,396.20	394.94	4.535	
18,900.00	9,360.00	20,543.14	8,418.00	203.98	254.49	-58.067	1,557.08	10,447.28	1,791.13	1,393.65	397.48	4.506	
18,929.37	9,360.00	20,572.51	8,418.00	204.58	255.09	-58.067	1,557.16	10,476.65	1,791.13	1,392.59	398.54	4.494	
19,000.00	9,360.00	20,643.14	8,418.00	206.04	256.55	-58.066	1,557.37	10,547.28	1,791.13	1,390.04	401.08	4.466	
19,029.37	9,360.00	20,672.51	8,418.00	206.65	257.15	-58.066	1,557.45	10,576.65	1,791.12	1,388.99	402.14	4.454	
19,100.00	9,360.00	20,743.14	8,418.00	208.10	258.61	-58.066	1,557.66	10,647.28	1,791.12	1,386.44	404.68	4.426	
19,129.37	9,360.00	20,772.51	8,418.00	208.71	259.22	-58.066	1,557.75	10,676.65	1,791.12	1,385.38	405.74	4.414	
19,200.00	9,360.00	20,843.14	8,418.00	210.17	260.67	-58.066	1,557.95	10,747.28	1,791.12	1,382.83	408.28	4.387	
19,229.37	9,360.00	20,872.51	8,418.00	210.77	261.28	-58.066	1,558.04	10,776.65	1,791.11	1,381.77	409.34	4.376	
19,300.00	9,360.00	20,943.14	8,418.00	212.23	262.73	-58.066	1,558.25	10,847.28	1,791.11	1,379.23	411.88	4.349	
19,329.37	9,360.00	20,972.51	8,418.00	212.84	263.34	-58.066	1,558.33	10,876.65	1,791.11	1,378.17	412.94	4.337	
19,400.00	9,360.00	21,043.14	8,418.00	214.30	264.79	-58.066	1,558.54	10,947.28	1,791.11	1,375.62	415.49	4.311	
19,429.37	9,360.00	21,072.51	8,418.00	214.90	265.40	-58.066	1,558.62	10,976.65	1,791.11	1,374.56	416.54	4.300	
19,500.00	9,360.00	21,143.14	8,418.00	216.36	266.86	-58.066	1,558.83	11,047.28	1,791.10	1,372.01	419.09	4.274	
19,529.37	9,360.00	21,172.51	8,418.00	216.97	267.46	-58.066	1,558.92	11,076.65	1,791.10	1,370.95	420.15	4.263	
19,600.00	9,360.00	21,243.14	8,418.00	218.43	268.92	-58.066	1,559.12	11,147.28	1,791.10	1,368.41	422.69	4.237	
19,629.37	9,360.00	21,272.51	8,418.00	219.03	269.52	-58.066	1,559.21	11,176.65	1,791.10	1,367.35	423.75	4.227	
19,700.00	9,360.00	21,343.14	8,418.00	220.49	270.98	-58.066	1,559.42	11,247.28	1,791.09	1,364.80	426.29	4.202	
19,729.37	9,360.00	21,372.51	8,418.00	221.10	271.59	-58.066	1,559.50	11,276.65	1,791.09	1,363.74	427.35	4.191	
19,800.00	9,360.00	21,443.14	8,418.00	222.56	273.04	-58.066	1,559.71	11,347.28	1,791.09	1,361.19	429.89	4.166	
19,829.37	9,360.00	21,472.51	8,418.00	223.16	273.65	-58.066	1,559.79	11,376.64	1,791.09	1,360.13	430.95	4.156	
19,900.00	9,360.00	21,543.14	8,418.00	224.62	275.10	-58.066	1,560.00	11,447.27	1,791.08	1,357.59	433.50	4.132	
19,929.37	9,360.00	21,572.51	8,418.00	225.23	275.71	-58.066	1,560.09	11,476.64	1,791.08	1,356.53	434.55	4.122	
20,000.00	9,360.00	21,643.14	8,418.00	226.69	277.17	-58.065	1,560.29	11,547.27	1,791.08	1,353.98	437.10	4.098	
20,029.37	9,360.00	21,672.51	8,418.00	227.29	277.77	-58.065	1,560.38	11,576.64	1,791.08	1,352.92	438.16	4.088	
20,100.00	9,360.00	21,743.14	8,418.00	228.75	279.23	-58.065	1,560.59	11,647.27	1,791.07	1,350.37	440.70	4.064	
20,129.37	9,360.00	21,772.51	8,418.00	229.36	279.83	-58.065	1,560.67	11,676.64	1,791.07	1,349.31	441.76	4.054	
20,175.44	9,360.00	21,818.58	8,418.00	230.31	280.78	-58.065	1,560.81	11,722.71	1,791.07	1,347.65	443.42	4.039	
20,181.28	9,360.00	21,818.82	8,418.00	230.43	280.79	-58.065	1,560.81	11,722.95	1,791.08	1,347.56	443.51	4.038 ES, SF	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W02) LEAR STATE 001H - 38865 - (Gyro/MWD)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 100-GYRO-NS, 8838-MWD													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>					
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
0.00	0.00	0.00	0.00	0.00	0.00	54.061	649.12	895.45	1,106.20				
100.00	100.00	76.35	76.35	0.79	0.48	54.072	648.99	895.61	1,106.04	1,104.77	1.26	875.038	
200.00	200.00	177.97	177.97	1.45	0.92	54.103	648.56	896.06	1,106.14	1,103.78	2.36	468.013	
232.25	232.25	210.14	210.14	1.59	1.04	54.111	648.43	896.14	1,106.13	1,103.51	2.63	421.238	
300.00	300.00	273.69	273.68	1.89	1.27	54.123	648.32	896.37	1,106.26	1,103.10	3.16	350.454	
400.00	400.00	376.90	376.89	2.25	1.63	54.137	648.30	896.83	1,106.62	1,102.73	3.89	284.708	
500.00	500.00	475.57	475.56	2.57	1.98	54.150	648.15	897.02	1,106.69	1,102.14	4.55	243.224	
600.00	600.00	577.99	577.98	2.85	2.35	54.156	648.15	897.24	1,106.86	1,101.66	5.19	213.149	
646.26	646.26	624.15	624.15	2.97	2.51	54.159	648.09	897.25	1,106.83	1,101.36	5.47	202.167	
700.00	700.00	675.69	675.68	3.11	2.69	54.159	648.12	897.29	1,106.89	1,101.09	5.79	191.013	
800.00	800.00	778.92	778.91	3.35	3.05	54.147	648.39	897.27	1,107.02	1,100.63	6.40	173.031	
900.00	900.00	878.29	878.28	3.58	3.40	54.109	648.91	896.75	1,106.90	1,099.93	6.97	158.745	
1,000.00	1,000.00	978.54	978.52	3.79	3.75	54.051	649.82	896.06	1,106.88	1,099.34	7.54	146.825	
1,062.60	1,062.60	1,040.51	1,040.49	3.92	3.97	54.021	650.26	895.70	1,106.85	1,098.97	7.88	140.387	
1,100.00	1,100.00	1,077.16	1,077.14	3.99	4.09	54.003	650.55	895.51	1,106.86	1,098.78	8.09	136.832	
1,200.00	1,200.00	1,179.81	1,179.79	4.19	4.45	53.955	651.30	894.96	1,106.86	1,098.22	8.64	128.036	
1,251.45	1,251.45	1,229.37	1,229.35	4.29	4.63	53.936	651.56	894.67	1,106.78	1,097.87	8.92	124.139	
1,300.00	1,300.00	1,273.86	1,273.84	4.38	4.78	53.919	651.86	894.55	1,106.87	1,097.71	9.16	120.797	
1,400.00	1,400.00	1,372.56	1,372.53	4.56	5.13	53.888	652.65	894.61	1,107.39	1,097.70	9.69	114.269	
1,500.00	1,500.00	1,470.57	1,470.53	4.74	5.47	53.863	653.34	894.75	1,107.92	1,097.71	10.21	108.502	
1,600.00	1,600.00	1,570.84	1,570.80	4.91	5.82	53.834	654.21	894.98	1,108.62	1,097.89	10.73	103.281	
1,700.00	1,700.00	1,672.25	1,672.21	5.08	6.18	53.813	654.88	895.21	1,109.19	1,097.93	11.26	98.538	
1,800.00	1,800.00	1,770.07	1,770.03	5.24	6.52	53.782	655.69	895.30	1,109.76	1,098.00	11.76	94.350	
1,900.00	1,900.00	1,872.80	1,872.75	5.40	6.88	53.762	656.41	895.63	1,110.43	1,098.15	12.28	90.415	
2,000.00	2,000.00	1,971.84	1,971.79	5.56	7.23	53.745	656.93	895.78	1,110.86	1,098.08	12.78	86.892	
2,100.00	2,100.00	2,071.34	2,071.29	5.71	7.58	53.722	657.64	896.00	1,111.47	1,098.18	13.29	83.658	
2,200.00	2,200.00	2,168.45	2,168.39	5.86	7.92	53.701	658.37	896.28	1,112.15	1,098.37	13.78	80.731	
2,300.00	2,300.00	2,266.54	2,266.48	6.01	8.26	53.663	659.52	896.63	1,113.12	1,098.85	14.27	78.021	
2,400.00	2,400.00	2,363.46	2,363.39	6.16	8.60	53.620	660.85	897.01	1,114.25	1,099.50	14.75	75.535	
2,500.00	2,500.00	2,459.18	2,459.10	6.30	8.93	53.562	662.60	897.49	1,115.74	1,100.51	15.23	73.264	
2,600.00	2,600.00	2,555.02	2,554.92	6.44	9.27	53.519	664.35	898.43	1,117.61	1,101.91	15.70	71.163	
2,700.00	2,700.00	2,656.65	2,656.51	6.58	9.63	53.456	666.60	899.41	1,119.72	1,103.52	16.20	69.118	
2,800.00	2,800.00	2,760.78	2,760.62	6.71	9.99	53.403	668.47	900.21	1,121.39	1,104.69	16.70	67.139	
2,900.00	2,900.00	2,860.48	2,860.30	6.85	10.34	53.348	670.23	900.77	1,122.90	1,105.71	17.19	65.335	
3,000.00	3,000.00	2,963.02	2,962.83	6.98	10.70	53.312	671.74	901.60	1,124.44	1,106.76	17.68	63.600	
3,100.00	3,100.00	3,063.82	3,063.61	7.12	11.05	53.265	673.22	902.05	1,125.66	1,107.50	18.16	61.969	
3,200.00	3,200.00	3,163.55	3,163.34	7.25	11.40	53.203	674.98	902.35	1,126.97	1,108.32	18.64	60.444	
3,300.00	3,300.00	3,265.51	3,265.27	7.37	11.76	53.148	676.59	902.71	1,128.20	1,109.06	19.13	58.972	
3,400.00	3,400.00	3,366.08	3,365.84	7.50	12.11	53.102	677.96	903.02	1,129.26	1,109.65	19.61	57.583	
3,500.00	3,500.00	3,465.87	3,465.62	7.63	12.46	53.054	679.36	903.31	1,130.34	1,110.25	20.09	56.273	
3,600.00	3,599.98	3,564.87	3,564.61	7.80	12.81	-36.436	680.87	903.56	1,130.05	1,109.46	20.59	54.893	
3,700.00	3,699.84	3,664.25	3,663.97	7.98	13.16	-36.664	682.14	904.11	1,127.05	1,105.97	21.08	53.468	
3,800.00	3,799.45	3,767.82	3,767.54	8.16	13.52	-37.028	683.09	904.83	1,121.18	1,099.58	21.60	51.913	
3,900.00	3,898.70	3,868.24	3,867.95	8.36	13.87	-37.546	683.99	905.10	1,112.21	1,099.10	22.12	50.292	
4,000.00	3,997.47	3,965.35	3,965.06	8.59	14.21	-38.213	685.07	905.29	1,100.65	1,078.02	22.63	48.629	
4,100.00	4,095.62	4,064.39	4,064.10	8.83	14.56	-39.045	686.11	905.66	1,086.58	1,063.41	23.17	46.893	
4,200.00	4,193.08	4,165.84	4,165.54	9.02	14.92	-40.005	686.93	905.92	1,069.86	1,046.19	23.67	45.197	
4,300.00	4,290.34	4,265.69	4,265.39	9.26	15.27	-40.862	687.58	905.83	1,052.28	1,028.08	24.20	43.475	
4,400.00	4,387.59	4,363.06	4,362.75	9.50	15.61	-41.739	688.32	905.50	1,034.82	1,010.08	24.74	41.834	
4,500.00	4,484.84	4,459.05	4,458.74	9.77	15.94	-42.637	689.15	905.16	1,017.66	992.39	25.27	40.266	
4,600.00	4,582.09	4,555.90	4,555.59	10.05	16.28	-43.573	690.06	904.90	1,000.88	975.06	25.82	38.763	
4,700.00	4,679.34	4,653.48	4,653.16	10.35	16.63	-44.548	690.98	904.59	984.34	957.97	26.38	37.320	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	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			Offset Wellbore Centre		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,800.00	4,776.59	4,752.02	4,751.70	10.66	16.97	-45.569	691.89	904.20	968.04	941.10	26.94	35.936		
4,900.00	4,873.84	4,851.21	4,850.88	10.99	17.32	-46.641	692.78	903.54	951.84	924.34	27.50	34.608		
5,000.00	4,971.09	4,948.92	4,948.58	11.32	17.66	-47.732	693.54	902.77	935.81	907.75	28.07	33.344		
5,100.00	5,068.34	5,045.76	5,045.42	11.67	18.00	-48.855	694.36	901.97	920.15	891.53	28.63	32.145		
5,200.00	5,165.59	5,144.59	5,144.23	12.03	18.34	-50.059	695.36	900.88	904.83	875.64	29.19	31.001		
5,300.00	5,262.84	5,244.76	5,244.39	12.39	18.69	-51.331	696.22	899.42	889.56	859.81	29.75	29.903		
5,400.00	5,360.09	5,343.10	5,342.70	12.77	19.04	-52.667	697.27	897.29	874.47	844.17	30.30	28.862		
5,500.00	5,457.34	5,438.92	5,438.49	13.15	19.37	-54.039	698.49	894.84	859.81	828.97	30.84	27.883		
5,600.00	5,554.59	5,533.84	5,533.37	13.54	19.71	-55.430	699.79	892.69	845.91	814.54	31.37	26.968		
5,700.00	5,651.84	5,630.31	5,629.81	13.93	20.04	-56.869	701.01	890.76	832.61	800.72	31.89	26.106		
5,800.00	5,749.09	5,726.10	5,725.58	14.33	20.38	-58.327	702.19	889.06	819.97	787.56	32.41	25.298		
5,900.00	5,846.35	5,822.39	5,821.85	14.74	20.71	-59.831	703.42	887.45	808.00	775.07	32.92	24.542		
6,000.00	5,943.60	5,918.64	5,918.07	15.15	21.05	-61.388	704.80	885.72	796.69	763.27	33.42	23.835		
6,100.00	6,040.85	6,015.15	6,014.56	15.57	21.39	-62.994	706.25	883.96	786.08	752.16	33.92	23.176		
6,200.00	6,138.10	6,111.95	6,111.34	15.99	21.73	-64.638	707.69	882.31	776.16	741.76	34.40	22.561		
6,300.00	6,235.35	6,211.23	6,210.59	16.41	22.08	-66.353	708.93	880.67	766.75	731.86	34.89	21.979		
6,400.00	6,332.60	6,308.39	6,307.73	16.84	22.42	-68.054	709.91	879.20	757.86	722.50	35.36	21.435		
6,500.00	6,429.85	6,403.19	6,402.52	17.27	22.75	-69.751	710.99	877.80	749.82	714.00	35.82	20.935		
6,600.00	6,527.10	6,502.56	6,501.87	17.70	23.10	-71.567	712.10	876.28	742.48	706.19	36.28	20.465		
6,700.00	6,624.35	6,597.44	6,596.73	18.14	23.43	-73.325	713.11	874.92	735.87	699.13	36.74	20.029		
6,800.00	6,721.92	6,694.37	6,693.65	18.59	23.77	-74.949	714.28	873.60	730.57	693.38	37.19	19.645		
6,900.00	6,820.20	6,794.22	6,793.49	19.03	24.12	-76.406	715.39	872.19	726.68	689.04	37.64	19.305		
7,000.00	6,919.06	6,891.77	6,891.01	19.46	24.46	-77.601	716.40	870.85	723.99	685.90	38.09	19.009		
7,100.00	7,018.38	6,991.65	6,990.88	19.87	24.81	-78.601	717.52	869.32	722.39	683.86	38.53	18.750		
7,200.00	7,118.05	7,089.30	7,088.51	20.25	25.15	-79.363	718.72	867.49	721.71	682.76	38.95	18.527		
7,215.96	7,133.98	7,105.02	7,104.23	20.30	25.20	-79.463	718.94	867.20	721.70	682.68	39.02	18.495		
7,300.00	7,217.94	7,189.59	7,188.77	20.58	25.50	-79.895	720.09	865.57	721.90	682.52	39.38	18.331		
7,400.00	7,317.93	7,289.56	7,288.71	20.72	25.85	-80.205	721.41	863.52	722.68	682.90	39.78	18.167		
7,500.00	7,417.93	7,391.52	7,390.63	20.78	26.21	-80.006	722.68	861.18	723.54	683.33	40.21	17.994		
7,600.00	7,517.93	7,493.27	7,492.35	20.82	26.56	-80.797	723.69	858.66	724.14	683.51	40.63	17.823		
7,700.00	7,617.93	7,593.11	7,592.16	20.87	26.91	-80.606	724.53	856.35	724.62	683.58	41.04	17.655		
7,800.00	7,717.93	7,695.55	7,694.57	20.92	27.27	-80.421	725.23	854.10	724.97	683.51	41.46	17.485		
7,900.00	7,817.93	7,794.76	7,793.76	20.97	27.62	-80.245	725.77	851.92	725.19	683.31	41.88	17.317		
8,000.00	7,917.93	7,895.75	7,894.72	21.01	27.97	-80.077	726.30	849.84	725.41	683.12	42.30	17.151		
8,100.00	8,017.93	7,996.66	7,995.61	21.06	28.32	-79.924	726.65	847.94	725.50	682.79	42.72	16.984		
8,200.00	8,117.93	8,100.10	8,099.04	21.11	28.69	-79.795	726.67	846.29	725.30	682.16	43.14	16.812		
8,300.00	8,217.93	8,201.08	8,200.02	21.16	29.04	-79.697	726.32	845.00	724.79	681.22	43.56	16.638		
8,400.00	8,317.93	8,300.00	8,298.92	21.21	29.38	-79.593	726.08	843.63	724.36	680.37	43.98	16.470		
8,445.42	8,363.35	8,342.32	8,341.24	21.23	29.53	-79.541	726.10	842.98	724.29	680.12	44.16	16.400		
8,500.00	8,417.93	8,394.38	8,393.29	21.26	29.71	-79.479	726.29	842.21	724.38	680.00	44.39	16.319		
8,600.00	8,517.93	8,493.90	8,492.80	21.31	30.06	-79.363	726.88	840.81	724.78	679.98	44.81	16.175		
8,700.00	8,617.93	8,593.43	8,592.32	21.35	30.41	-79.245	727.51	839.39	725.23	680.00	45.23	16.035		
8,800.00	8,717.93	8,694.82	8,693.24	21.40	30.76	-79.127	728.33	837.82	725.91	680.34	45.65	15.897		
8,900.00	8,817.91	8,795.96	8,794.35	21.48	31.12	-79.009	729.20	836.25	726.60	680.69	46.07	15.760		
9,000.00	8,916.79	8,895.86	8,894.25	21.54	31.49	-78.891	730.10	834.68	727.30	681.04	46.49	15.623		
9,100.00	9,011.73	8,991.36	8,989.75	21.61	31.86	-78.773	731.00	833.11	728.00	681.39	46.91	15.486		
9,200.00	9,099.84	9,076.37	9,074.76	21.68	32.23	-78.655	731.90	831.54	728.70	681.74	47.33	15.349		
9,300.00	9,178.45	9,154.81	9,153.20	21.75	32.60	-78.537	732.80	830.00	729.40	682.09	47.75	15.212		
9,400.00	9,245.16	9,221.32	9,219.71	21.82	32.97	-78.419	733.70	828.46	730.10	682.44	48.17	15.075		
9,400.02	9,245.17	9,221.33	9,219.72	21.82	32.97	-78.419	733.70	828.46	730.10	682.44	48.17	15.075		
9,500.00	9,297.95	9,273.11	9,271.50	21.89	33.34	-78.301	734.60	826.92	730.80	682.79	48.59	14.938		
9,600.00	9,335.22	9,310.38	9,308.77	21.96	33.71	-78.183	735.50	825.39	731.50	683.14	49.01	14.801		

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W02) LEAR STATE 001H - 38865 - (Gyro/MWD)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 100-GYRO-NS, 8838-MWD													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
9,700.00	9,355.84	9,860.46	9,369.61	24.78	33.36	-173.016	18.70	847.61	406.02	347.60	58.42	6.950	
9,800.00	9,360.00	9,858.21	9,369.53	24.83	33.35	-158.338	20.94	847.65	505.23	446.79	58.43	8.646	
9,900.00	9,360.00	9,855.72	9,369.44	24.86	33.34	-154.488	23.43	847.70	605.03	546.60	58.43	10.354	
10,000.00	9,360.00	9,853.14	9,369.35	24.94	33.32	-150.726	26.01	847.75	704.88	646.45	58.43	12.063	
10,100.00	9,360.00	9,850.47	9,369.26	26.19	33.31	-147.080	28.68	847.81	804.77	746.33	58.43	13.773	
10,200.00	9,360.00	9,847.69	9,369.16	27.89	33.29	-143.574	31.45	847.87	904.67	846.23	58.43	15.482	
10,300.00	9,360.00	9,844.82	9,369.06	29.64	33.27	-140.224	34.33	847.93	1,004.58	946.14	58.44	17.190	
10,400.00	9,360.00	9,841.83	9,368.96	31.43	33.26	-137.042	37.31	848.00	1,104.50	1,046.06	58.44	18.898	
10,500.00	9,360.00	9,838.73	9,368.86	33.25	33.24	-134.033	40.41	848.07	1,204.43	1,145.98	58.45	20.605	
10,600.00	9,360.00	9,838.00	9,368.84	35.10	33.23	-133.367	41.14	848.08	1,304.37	1,245.89	58.48	22.306	
10,700.00	9,360.00	9,834.24	9,368.72	36.98	33.21	-130.169	44.90	848.17	1,404.30	1,345.82	58.48	24.012	
10,800.00	9,360.00	9,832.18	9,368.66	38.87	33.20	-128.574	46.95	848.21	1,504.25	1,445.75	58.50	25.712	
10,900.00	9,360.00	9,830.17	9,368.60	40.78	33.19	-127.113	48.96	848.26	1,604.20	1,545.67	58.53	27.410	
11,000.00	9,360.00	9,828.21	9,368.54	42.71	33.18	-125.771	50.93	848.30	1,704.15	1,645.60	58.55	29.107	
11,100.00	9,360.00	9,826.29	9,368.49	44.65	33.17	-124.536	52.85	848.34	1,804.10	1,745.53	58.57	30.801	
11,200.00	9,360.00	9,824.40	9,368.45	46.60	33.16	-123.396	54.73	848.38	1,904.06	1,845.46	58.60	32.492	
11,300.00	9,360.00	9,822.56	9,368.40	48.56	33.15	-122.343	56.57	848.42	2,004.02	1,945.39	58.63	34.181	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W03) LEAR STATE 002H - 38866 - (Gyro/MWD)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 100-GYRO-NS, 8768-MWD							<b>Rule Assigned:</b>						<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
8,400.00	8,317.93	11,190.00	9,353.53	21.21	58.63	-136.332	-1,230.87	-434.72	2,015.16	1,952.96	62.19	32.401	
8,500.00	8,417.93	11,190.00	9,353.53	21.26	58.63	-136.332	-1,230.87	-434.72	1,964.31	1,901.15	63.16	31.098	
8,600.00	8,517.93	11,190.00	9,353.53	21.31	58.63	-136.332	-1,230.87	-434.72	1,917.34	1,853.24	64.10	29.913	
8,700.00	8,617.93	11,190.00	9,353.53	21.35	58.63	-136.332	-1,230.87	-434.72	1,874.52	1,809.55	64.98	28.849	
8,800.00	8,717.93	11,190.00	9,353.53	21.40	58.63	-136.332	-1,230.87	-434.72	1,836.16	1,770.38	65.79	27.911	
8,900.00	8,817.91	11,190.00	9,353.53	21.48	58.63	134.539	-1,230.87	-434.72	1,803.09	1,736.58	66.51	27.109	
9,000.00	8,916.79	11,190.00	9,353.53	21.94	58.63	135.900	-1,230.87	-434.72	1,784.21	1,716.92	67.29	26.514	
9,055.27	8,969.94	11,190.00	9,353.53	22.23	58.63	136.093	-1,230.87	-434.72	1,781.43	1,713.76	67.68	26.323 CC, ES	
9,100.00	9,011.73	11,190.00	9,353.53	22.47	58.63	135.966	-1,230.87	-434.72	1,783.25	1,715.32	67.93	26.251 SF	
9,200.00	9,099.84	11,190.00	9,353.53	23.01	58.63	134.747	-1,230.87	-434.72	1,800.28	1,731.89	68.39	26.324	
9,300.00	9,178.45	11,190.00	9,353.53	23.52	58.63	132.110	-1,230.87	-434.72	1,834.29	1,765.63	68.66	26.714	
9,400.00	9,245.16	11,190.00	9,353.53	23.97	58.63	127.776	-1,230.87	-434.72	1,883.37	1,814.59	68.78	27.384	
9,500.00	9,297.95	11,190.00	9,353.53	24.35	58.63	121.320	-1,230.87	-434.72	1,944.94	1,876.18	68.77	28.283	
9,600.00	9,335.22	11,190.00	9,353.53	24.62	58.63	112.264	-1,230.87	-434.72	2,016.10	1,947.43	68.67	29.358	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W05) GULF FEDERAL 002 - 26310 - (Inc Only)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 200-INC-ONLY													<b>Offset Well Error:</b> 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
13,100.00	9,360.00	9,360.56	9,353.89	84.74	272.04	-90.000	1,678.28	5,832.07	2,035.68	1,692.99	342.69	5.940	
13,200.00	9,360.00	9,360.56	9,353.89	86.78	272.04	-90.000	1,678.28	5,832.07	1,979.12	1,633.02	346.10	5.718	
13,300.00	9,360.00	9,360.56	9,353.89	88.82	272.04	-90.000	1,678.28	5,832.07	1,926.11	1,576.50	349.61	5.509	
13,400.00	9,360.00	9,360.56	9,353.89	90.86	272.04	-90.000	1,678.28	5,832.07	1,876.92	1,523.74	353.18	5.314	
13,500.00	9,360.00	9,360.56	9,353.89	92.90	272.04	-90.000	1,678.28	5,832.07	1,831.88	1,475.09	356.79	5.134	
13,600.00	9,360.00	9,360.56	9,353.89	94.94	272.04	-90.000	1,678.28	5,832.07	1,791.29	1,430.90	360.39	4.970	
13,700.00	9,360.00	9,360.56	9,353.89	96.98	272.04	-90.000	1,678.28	5,832.07	1,755.47	1,391.52	363.95	4.823	
13,800.00	9,360.00	9,360.56	9,353.89	99.03	272.04	-90.000	1,678.28	5,832.07	1,724.71	1,357.31	367.40	4.694	
13,900.00	9,360.00	9,360.56	9,353.89	101.07	272.04	-90.000	1,678.28	5,832.07	1,699.28	1,328.59	370.70	4.584	
14,000.00	9,360.00	9,360.56	9,353.89	103.12	272.04	-90.000	1,678.28	5,832.07	1,679.44	1,305.65	373.79	4.493	
14,100.00	9,360.00	9,360.56	9,353.89	105.17	272.04	-90.000	1,678.28	5,832.07	1,665.37	1,288.76	376.61	4.422	
14,200.00	9,360.00	9,360.56	9,353.89	107.21	272.04	-90.000	1,678.28	5,832.07	1,657.23	1,278.10	379.13	4.371	
14,285.26	9,360.00	9,360.56	9,353.89	108.96	272.04	-90.000	1,678.28	5,832.07	1,655.04	1,274.03	381.00	4.344	CC
14,300.00	9,360.00	9,360.56	9,353.89	109.26	272.04	-90.000	1,678.28	5,832.07	1,655.10	1,273.80	381.30	4.341	ES
14,400.00	9,360.00	9,360.56	9,353.89	111.31	272.04	-90.000	1,678.28	5,832.07	1,659.01	1,275.91	383.10	4.331	SF
14,500.00	9,360.00	9,360.56	9,353.89	113.36	272.04	-90.000	1,678.28	5,832.07	1,668.91	1,284.40	384.50	4.340	
14,600.00	9,360.00	9,360.56	9,353.89	115.42	272.04	-90.000	1,678.28	5,832.07	1,684.70	1,299.18	385.52	4.370	
14,700.00	9,360.00	9,360.56	9,353.89	117.47	272.04	-90.000	1,678.28	5,832.07	1,706.21	1,320.06	386.15	4.418	
14,800.00	9,360.00	9,360.56	9,353.89	119.52	272.04	-90.000	1,678.28	5,832.07	1,733.23	1,346.81	386.43	4.485	
14,900.00	9,360.00	9,360.56	9,353.89	121.57	272.04	-90.000	1,678.28	5,832.07	1,765.52	1,379.15	386.37	4.569	
15,000.00	9,360.00	9,360.56	9,353.89	123.63	272.04	-90.000	1,678.28	5,832.07	1,802.77	1,416.76	386.02	4.670	
15,100.00	9,360.00	9,360.56	9,353.89	125.68	272.04	-90.000	1,678.28	5,832.07	1,844.71	1,459.30	385.41	4.786	
15,200.00	9,360.00	9,360.56	9,353.89	127.74	272.04	-90.000	1,678.28	5,832.07	1,891.00	1,506.42	384.59	4.917	
15,300.00	9,360.00	9,360.56	9,353.89	129.79	272.04	-90.000	1,678.28	5,832.07	1,941.35	1,557.76	383.59	5.061	
15,400.00	9,360.00	9,360.56	9,353.89	131.85	272.04	-90.000	1,678.28	5,832.07	1,995.44	1,613.00	382.44	5.218	
15,500.00	9,360.00	9,360.56	9,353.89	133.90	272.04	-90.000	1,678.28	5,832.07	2,052.98	1,671.79	381.19	5.386	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W06) GULF FEDERAL COM 001 - 25637 - (Inc Only)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 210-INC-ONLY												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>			
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
12,300.00	9,360.00	9,347.72	9,345.84	68.52	236.06	-90.158	366.26	5,839.11	2,017.75	1,753.71	264.04	7.642	
12,400.00	9,360.00	9,347.72	9,345.84	70.54	236.06	-90.158	366.26	5,839.11	1,919.28	1,654.82	264.47	7.257	
12,500.00	9,360.00	9,347.72	9,345.83	72.56	236.06	-90.158	366.26	5,839.11	1,820.98	1,556.02	264.96	6.873	
12,600.00	9,360.00	9,347.71	9,345.83	74.58	236.06	-90.158	366.26	5,839.11	1,722.87	1,457.33	265.54	6.488	
12,700.00	9,360.00	9,347.71	9,345.83	76.61	236.06	-90.158	366.26	5,839.11	1,625.00	1,358.77	266.23	6.104	
12,800.00	9,360.00	9,347.71	9,345.83	78.64	236.06	-90.157	366.26	5,839.11	1,527.40	1,260.36	267.04	5.720	
12,900.00	9,360.00	9,347.71	9,345.83	80.67	236.06	-90.157	366.26	5,839.11	1,430.13	1,162.12	268.00	5.336	
13,000.00	9,360.00	9,347.71	9,345.83	82.71	236.06	-90.157	366.26	5,839.11	1,333.26	1,064.09	269.17	4.953	
13,100.00	9,360.00	9,347.71	9,345.83	84.74	236.06	-90.157	366.26	5,839.11	1,236.89	966.31	270.58	4.571	
13,200.00	9,360.00	9,347.71	9,345.83	86.78	236.06	-90.157	366.26	5,839.11	1,141.15	868.84	272.31	4.191	
13,300.00	9,360.00	9,347.71	9,345.83	88.82	236.06	-90.157	366.26	5,839.11	1,046.21	771.77	274.44	3.812	
13,400.00	9,360.00	9,347.71	9,345.83	90.86	236.06	-90.157	366.26	5,839.11	952.30	675.20	277.10	3.437	
13,500.00	9,360.00	9,347.71	9,345.83	92.90	236.06	-90.156	366.26	5,839.11	859.77	579.32	280.45	3.066	
13,600.00	9,360.00	9,347.71	9,345.83	94.94	236.06	-90.156	366.26	5,839.11	769.10	484.41	284.69	2.702	
13,700.00	9,360.00	9,347.71	9,345.83	96.98	236.06	-90.156	366.26	5,839.11	681.06	390.94	290.12	2.347	
13,800.00	9,360.00	9,347.70	9,345.82	99.03	236.06	-90.156	366.26	5,839.11	596.80	299.70	297.10	2.009	
13,900.00	9,360.00	9,347.70	9,345.82	101.07	236.06	-90.156	366.26	5,839.11	518.16	212.18	305.98	1.693 Level 3	
14,000.00	9,360.00	9,347.70	9,345.82	103.12	236.06	-90.156	366.26	5,839.11	448.12	131.20	316.92	1.414 Level 3	
14,100.00	9,360.00	9,347.70	9,345.82	105.17	236.06	-90.156	366.26	5,839.11	391.32	62.13	329.19	1.189 Level 3	
14,200.00	9,360.00	9,347.70	9,345.82	107.21	236.06	-90.155	366.26	5,839.11	354.20	14.07	340.13	1.041 Level 3	
14,288.34	9,360.00	9,347.70	9,345.82	109.02	236.06	-90.155	366.26	5,839.11	342.99	-2.09	345.09	0.994 Level 3, CC, ES, SF	
14,300.00	9,360.00	9,347.70	9,345.82	109.26	236.06	-90.155	366.26	5,839.11	343.19	-2.07	345.26	0.994 Level 3	
14,400.00	9,360.00	9,347.70	9,345.82	111.31	236.06	-90.155	366.26	5,839.11	360.70	18.49	342.21	1.054 Level 3	
14,500.00	9,360.00	9,347.70	9,345.82	113.36	236.06	-90.155	366.26	5,839.11	403.02	69.48	333.54	1.208 Level 3	
14,600.00	9,360.00	9,347.70	9,345.82	115.42	236.06	-90.155	366.26	5,839.11	463.41	140.05	323.36	1.433 Level 3	
14,700.00	9,360.00	9,347.70	9,345.82	117.47	236.06	-90.155	366.26	5,839.11	535.79	221.73	314.06	1.706 Level 3	
14,800.00	9,360.00	9,347.70	9,345.82	119.52	236.06	-90.155	366.26	5,839.11	615.95	309.63	306.32	2.011	
14,900.00	9,360.00	9,347.70	9,345.82	121.57	236.06	-90.155	366.26	5,839.11	701.22	401.13	300.10	2.337	
15,000.00	9,360.00	9,347.69	9,345.81	123.63	236.06	-90.154	366.26	5,839.11	789.96	494.84	295.12	2.677	
15,100.00	9,360.00	9,347.69	9,345.81	125.68	236.06	-90.154	366.26	5,839.11	881.11	589.98	291.14	3.026	
15,200.00	9,360.00	9,347.69	9,345.81	127.74	236.06	-90.154	366.26	5,839.11	974.00	686.09	287.92	3.383	
15,300.00	9,360.00	9,347.69	9,345.81	129.79	236.06	-90.154	366.26	5,839.11	1,068.18	782.89	285.29	3.744	
15,400.00	9,360.00	9,347.69	9,345.81	131.85	236.06	-90.154	366.26	5,839.11	1,163.33	880.20	283.12	4.109	
15,500.00	9,360.00	9,347.69	9,345.81	133.90	236.06	-90.154	366.26	5,839.11	1,259.23	977.90	281.32	4.476	
15,600.00	9,360.00	9,347.69	9,345.81	135.96	236.06	-90.154	366.26	5,839.11	1,355.72	1,075.90	279.81	4.845	
15,700.00	9,360.00	9,347.69	9,345.81	138.02	236.06	-90.153	366.26	5,839.11	1,452.69	1,174.14	278.54	5.215	
15,800.00	9,360.00	9,347.69	9,345.81	140.07	236.06	-90.153	366.26	5,839.11	1,550.04	1,272.58	277.46	5.587	
15,900.00	9,360.00	9,347.69	9,345.81	142.13	236.06	-90.153	366.26	5,839.11	1,647.71	1,371.17	276.53	5.958	
16,000.00	9,360.00	9,347.69	9,345.81	144.19	236.06	-90.153	366.26	5,839.11	1,745.64	1,469.90	275.74	6.331	
16,100.00	9,360.00	9,347.69	9,345.81	146.25	236.06	-90.153	366.26	5,839.11	1,843.80	1,568.75	275.05	6.703	
16,200.00	9,360.00	9,347.69	9,345.80	148.31	236.06	-90.153	366.26	5,839.11	1,942.14	1,667.69	274.45	7.076	
16,300.00	9,360.00	9,347.68	9,345.80	150.37	236.06	-90.153	366.26	5,839.11	2,040.64	1,766.71	273.94	7.449	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W07) GULF MCKAY FEDERAL 001 - 25471 - (Inc Only)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 400-INC-ONLY												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Separation Factor</b>	<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
15,200.00	9,360.00	9,358.32	9,356.89	127.74	216.75	90.000	-950.21	8,489.01	1,992.75	1,708.72	284.03	7.016	
15,300.00	9,360.00	9,358.32	9,356.89	129.79	216.75	90.000	-950.21	8,489.01	1,906.35	1,618.76	287.60	6.629	
15,400.00	9,360.00	9,358.32	9,356.89	131.85	216.75	90.000	-950.21	8,489.01	1,821.35	1,529.87	291.48	6.249	
15,500.00	9,360.00	9,358.32	9,356.89	133.90	216.75	90.000	-950.21	8,489.01	1,737.94	1,442.23	295.72	5.877	
15,600.00	9,360.00	9,358.32	9,356.89	135.96	216.75	90.000	-950.21	8,489.01	1,656.37	1,356.05	300.33	5.515	
15,700.00	9,360.00	9,358.32	9,356.89	138.02	216.75	90.000	-950.21	8,489.01	1,576.93	1,271.59	305.34	5.165	
15,800.00	9,360.00	9,358.32	9,356.89	140.07	216.75	90.000	-950.21	8,489.01	1,499.94	1,189.18	310.77	4.827	
15,900.00	9,360.00	9,358.32	9,356.89	142.13	216.75	90.000	-950.21	8,489.01	1,425.82	1,109.19	316.63	4.503	
16,000.00	9,360.00	9,358.32	9,356.89	144.19	216.75	90.000	-950.21	8,489.01	1,355.02	1,032.10	322.92	4.196	
16,100.00	9,360.00	9,358.32	9,356.89	146.25	216.75	90.000	-950.21	8,489.01	1,288.11	958.49	329.62	3.908	
16,200.00	9,360.00	9,358.32	9,356.89	148.31	216.75	90.000	-950.21	8,489.01	1,225.70	889.05	336.66	3.641	
16,300.00	9,360.00	9,358.32	9,356.89	150.37	216.75	90.000	-950.21	8,489.01	1,168.54	824.61	343.93	3.398	
16,400.00	9,360.00	9,358.32	9,356.89	152.42	216.75	90.000	-950.21	8,489.01	1,117.41	766.14	351.27	3.181	
16,500.00	9,360.00	9,358.32	9,356.89	154.48	216.75	90.000	-950.21	8,489.01	1,073.19	714.74	358.45	2.994	
16,600.00	9,360.00	9,358.32	9,356.89	156.54	216.75	90.000	-950.21	8,489.01	1,036.76	671.57	365.19	2.839	
16,700.00	9,360.00	9,358.32	9,356.89	158.60	216.75	90.000	-950.21	8,489.01	1,008.96	637.82	371.14	2.719	
16,800.00	9,360.00	9,358.32	9,356.89	160.66	216.75	90.000	-950.21	8,489.01	990.52	614.56	375.96	2.635	
16,900.00	9,360.00	9,358.32	9,356.89	162.73	216.75	90.000	-950.21	8,489.01	981.97	602.59	379.37	2.588	
16,934.35	9,360.00	9,358.32	9,356.89	163.43	216.75	90.000	-950.21	8,489.01	981.36	601.19	380.18	2.581 CC, ES	
17,000.00	9,360.00	9,358.32	9,356.89	164.79	216.75	90.000	-950.21	8,489.01	983.56	602.38	381.18	2.580 SF	
17,100.00	9,360.00	9,358.32	9,356.89	166.85	216.75	90.000	-950.21	8,489.01	995.25	613.89	381.35	2.610	
17,200.00	9,360.00	9,358.32	9,356.89	168.91	216.75	90.000	-950.21	8,489.01	1,016.68	636.69	379.99	2.676	
17,300.00	9,360.00	9,358.32	9,356.89	170.97	216.75	90.000	-950.21	8,489.01	1,047.27	669.95	377.32	2.776	
17,400.00	9,360.00	9,358.32	9,356.89	173.03	216.75	90.000	-950.21	8,489.01	1,086.23	712.60	373.63	2.907	
17,500.00	9,360.00	9,358.32	9,356.89	175.09	216.75	90.000	-950.21	8,489.01	1,132.71	763.49	369.22	3.068	
17,600.00	9,360.00	9,358.32	9,356.89	177.16	216.75	90.000	-950.21	8,489.01	1,185.82	821.45	364.37	3.254	
17,700.00	9,360.00	9,358.32	9,356.89	179.22	216.75	90.000	-950.21	8,489.01	1,244.70	885.40	359.31	3.464	
17,800.00	9,360.00	9,358.32	9,356.89	181.28	216.75	90.000	-950.21	8,489.01	1,308.59	954.38	354.21	3.694	
17,900.00	9,360.00	9,358.32	9,356.89	183.34	216.75	90.000	-950.21	8,489.01	1,376.79	1,027.58	349.21	3.943	
18,000.00	9,360.00	9,358.32	9,356.89	185.41	216.75	90.000	-950.21	8,489.01	1,448.68	1,104.30	344.38	4.207	
18,100.00	9,360.00	9,358.32	9,356.89	187.47	216.75	90.000	-950.21	8,489.01	1,523.75	1,183.96	339.78	4.484	
18,200.00	9,360.00	9,358.32	9,356.89	189.53	216.75	90.000	-950.21	8,489.01	1,601.54	1,266.10	335.44	4.774	
18,300.00	9,360.00	9,358.32	9,356.89	191.59	216.75	90.000	-950.21	8,489.01	1,681.69	1,350.31	331.37	5.075	
18,400.00	9,360.00	9,358.32	9,356.89	193.66	216.75	90.000	-950.21	8,489.01	1,763.86	1,436.29	327.56	5.385	
18,500.00	9,360.00	9,358.32	9,356.89	195.72	216.75	90.000	-950.21	8,489.01	1,847.79	1,523.77	324.02	5.703	
18,600.00	9,360.00	9,358.32	9,356.89	197.78	216.75	90.000	-950.21	8,489.01	1,933.25	1,612.53	320.72	6.028	
18,700.00	9,360.00	9,358.32	9,356.89	199.85	216.75	90.000	-950.21	8,489.01	2,020.05	1,702.39	317.65	6.359	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Bond Pad Offsets - (W12) HULKSTER 005 - 39572 - (Inc Only)													Offset Site Error: 0.00 usft
Survey Program: 235-INC-ONLY													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.89	0.89	0.00	0.02	18.321	1,673.70	554.21	1,763.07				
100.00	100.00	100.89	100.89	0.79	2.12	18.321	1,673.70	554.21	1,763.07	1,760.17	2.91	606.607	
200.00	200.00	200.89	200.89	1.45	4.22	18.321	1,673.70	554.21	1,763.07	1,757.40	5.67	311.003	
300.00	300.00	300.89	300.89	1.89	6.31	18.321	1,673.70	554.21	1,763.07	1,754.88	8.20	215.090	
400.00	400.00	402.73	402.73	2.25	8.42	18.318	1,673.97	554.21	1,763.33	1,752.66	10.67	165.275	
500.00	500.00	508.51	508.50	2.57	10.61	18.321	1,673.68	554.21	1,763.07	1,749.89	13.17	133.823	
532.30	532.30	533.21	533.19	2.66	11.06	18.321	1,673.70	554.21	1,763.07	1,749.35	13.72	128.518	
600.00	600.00	600.91	600.89	2.85	12.33	18.321	1,673.70	554.21	1,763.07	1,747.89	15.18	116.147	
700.00	700.00	709.65	709.63	3.11	14.37	18.320	1,673.84	554.21	1,763.22	1,745.75	17.48	100.880	
786.18	786.18	787.11	787.07	3.32	15.85	18.321	1,673.70	554.21	1,763.07	1,743.91	19.17	91.989	
800.00	800.00	800.92	800.89	3.35	16.12	18.321	1,673.70	554.21	1,763.07	1,743.61	19.47	90.575	
900.00	900.00	905.22	905.18	3.58	18.13	18.320	1,673.86	554.21	1,763.22	1,741.52	21.70	81.254	
1,000.00	1,000.00	1,000.94	1,000.89	3.79	20.04	18.321	1,673.70	554.21	1,763.07	1,739.24	23.83	73.982	
1,100.00	1,100.00	1,107.22	1,107.17	3.99	22.24	18.317	1,674.09	554.21	1,763.45	1,737.22	26.23	67.221	
1,200.00	1,200.00	1,200.98	1,200.89	4.19	24.14	18.321	1,673.70	554.21	1,763.07	1,734.74	28.33	62.230	
1,300.00	1,300.00	1,300.98	1,300.89	4.38	26.09	18.321	1,673.70	554.21	1,763.07	1,732.60	30.47	57.867	
1,400.00	1,400.00	1,412.87	1,412.77	4.56	28.27	18.319	1,673.90	554.21	1,763.30	1,730.47	32.83	53.713	
1,500.00	1,500.00	1,500.99	1,500.89	4.74	29.80	18.321	1,673.70	554.21	1,763.07	1,728.53	34.54	51.042	
1,600.00	1,600.00	1,601.00	1,600.89	4.91	31.50	18.321	1,673.70	554.21	1,763.07	1,726.66	36.41	48.426	
1,700.00	1,700.00	1,701.00	1,700.89	5.08	33.40	18.321	1,673.70	554.21	1,763.07	1,724.59	38.48	45.815	
1,800.00	1,800.00	1,801.59	1,801.49	5.24	35.32	18.319	1,673.89	554.21	1,763.26	1,722.69	40.56	43.468	
1,900.00	1,900.00	1,903.63	1,903.52	5.40	37.27	18.320	1,673.80	554.21	1,763.17	1,720.49	42.67	41.320	
2,000.00	2,000.00	2,001.00	2,000.89	5.56	39.10	18.321	1,673.70	554.21	1,763.07	1,718.41	44.66	39.480	
2,100.00	2,100.00	2,102.95	2,102.84	5.71	40.98	18.320	1,673.78	554.21	1,763.14	1,716.45	46.70	37.758	
2,200.00	2,200.00	2,201.01	2,200.89	5.86	42.88	18.321	1,673.70	554.21	1,763.07	1,714.33	48.74	36.170	
2,300.00	2,300.00	2,301.01	2,300.89	6.01	44.89	18.321	1,673.70	554.21	1,763.07	1,712.17	50.90	34.637	
2,400.00	2,400.00	2,410.63	2,410.50	6.16	47.09	18.317	1,674.09	554.21	1,763.47	1,710.22	53.25	33.118	
2,500.00	2,500.00	2,501.04	2,500.89	6.30	49.08	18.321	1,673.70	554.21	1,763.07	1,707.70	55.37	31.839	
2,600.00	2,600.00	2,601.04	2,600.89	6.44	51.55	18.321	1,673.70	554.21	1,763.07	1,705.09	57.99	30.405	
2,700.00	2,700.00	2,701.04	2,700.89	6.58	54.02	18.321	1,673.70	554.21	1,763.07	1,702.48	60.60	29.095	
2,800.00	2,800.00	2,802.28	2,802.12	6.71	56.52	18.315	1,674.31	554.21	1,763.65	1,700.42	63.24	27.890	
2,900.00	2,900.00	2,904.88	2,904.73	6.85	59.06	18.317	1,674.16	554.21	1,763.51	1,697.60	65.91	26.758	
3,000.00	3,000.00	3,007.49	3,007.33	6.98	61.59	18.320	1,673.84	554.21	1,763.22	1,694.64	68.58	25.712	
3,100.00	3,100.00	3,101.09	3,100.89	7.12	63.79	18.321	1,673.70	554.21	1,763.07	1,692.16	70.91	24.864	
3,200.00	3,200.00	3,201.09	3,200.89	7.25	66.07	18.321	1,673.70	554.21	1,763.07	1,689.75	73.32	24.047	
3,300.00	3,300.00	3,301.37	3,301.16	7.37	68.36	18.310	1,674.81	554.21	1,764.13	1,688.39	75.73	23.294	
3,400.00	3,400.00	3,407.49	3,407.27	7.50	70.78	18.312	1,674.60	554.21	1,763.94	1,685.66	78.28	22.534	
3,500.00	3,500.00	3,513.61	3,513.38	7.63	73.19	18.318	1,674.00	554.21	1,763.40	1,682.58	80.82	21.818	
3,600.00	3,599.98	3,601.15	3,600.87	7.80	75.10	-71.124	1,673.70	554.21	1,762.51	1,679.66	82.85	21.273	
3,700.00	3,699.84	3,701.01	3,700.73	7.98	77.21	-71.317	1,673.70	554.21	1,760.82	1,675.76	85.06	20.701	
3,800.00	3,799.45	3,803.96	3,803.67	8.16	79.38	-71.657	1,674.55	554.21	1,758.86	1,671.52	87.34	20.138	
3,900.00	3,898.70	3,910.81	3,910.52	8.36	81.63	-72.137	1,674.10	554.21	1,754.63	1,664.93	89.70	19.561	
4,000.00	3,997.47	3,998.70	3,998.36	8.59	83.51	-72.659	1,673.70	554.21	1,749.43	1,657.73	91.70	19.078	
4,100.00	4,095.62	4,096.85	4,096.51	8.83	85.65	-73.356	1,673.70	554.21	1,743.76	1,649.79	93.96	18.558	
4,200.00	4,193.08	4,194.32	4,193.97	9.02	87.78	-74.137	1,673.70	554.21	1,737.35	1,641.17	96.18	18.064	
4,300.00	4,290.34	4,297.60	4,297.24	9.26	90.04	-74.911	1,674.56	554.21	1,731.80	1,633.24	98.57	17.570	
4,400.00	4,387.59	4,401.26	4,400.90	9.50	92.30	-75.682	1,673.99	554.21	1,725.19	1,624.23	100.96	17.087	
4,500.00	4,484.84	4,486.14	4,485.73	9.77	94.17	-76.319	1,673.70	554.21	1,719.06	1,616.09	102.98	16.694	
4,600.00	4,582.09	4,583.39	4,582.98	10.05	96.32	-77.056	1,673.70	554.21	1,713.56	1,608.28	105.28	16.277	
4,700.00	4,679.34	4,680.64	4,680.23	10.35	98.47	-77.797	1,673.70	554.21	1,708.35	1,600.77	107.58	15.880	
4,800.00	4,776.59	4,783.21	4,782.78	10.66	100.75	-78.589	1,674.66	554.21	1,704.40	1,594.40	110.00	15.494	
4,900.00	4,873.84	4,886.41	4,885.98	10.99	103.03	-79.381	1,674.15	554.21	1,699.33	1,586.89	112.44	15.113	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W12) HULKSTER 005 - 39572 - (Inc Only)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 235-INC-ONLY													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
5,000.00	4,971.09	4,972.47	4,971.98	11.32	104.93	-80.045	1,673.70	554.21	1,694.56	1,580.06	114.51	14.799	
5,100.00	5,068.34	5,069.72	5,069.23	11.67	107.07	-80.801	1,673.70	554.21	1,690.58	1,573.77	116.80	14.474	
5,200.00	5,165.59	5,166.97	5,166.48	12.03	109.21	-81.561	1,673.70	554.21	1,686.91	1,567.80	119.11	14.163	
5,300.00	5,262.84	5,268.21	5,267.70	12.39	111.43	-82.359	1,674.73	554.21	1,684.58	1,563.08	121.50	13.865	
5,400.00	5,360.09	5,371.40	5,370.90	12.77	113.70	-83.170	1,674.30	554.21	1,681.14	1,557.21	123.93	13.565	
5,500.00	5,457.34	5,458.80	5,458.23	13.15	115.62	-83.858	1,673.70	554.21	1,677.80	1,551.77	126.03	13.313	
5,600.00	5,554.59	5,556.05	5,555.48	13.54	117.75	-84.628	1,673.70	554.21	1,675.39	1,547.07	128.33	13.056	
5,700.00	5,651.84	5,653.30	5,652.73	13.93	119.87	-85.400	1,673.70	554.21	1,673.31	1,542.68	130.63	12.810	
5,800.00	5,749.09	5,753.21	5,752.63	14.33	122.06	-86.197	1,674.77	554.21	1,672.63	1,539.63	132.99	12.577	
5,900.00	5,846.35	5,856.40	5,855.82	14.74	124.31	-87.019	1,674.42	554.21	1,670.86	1,535.44	135.43	12.338	
6,000.00	5,943.60	5,959.60	5,959.00	15.15	126.57	-87.842	1,673.71	554.21	1,669.08	1,531.22	137.87	12.107	
6,100.00	6,040.85	6,042.38	6,041.74	15.57	128.32	-88.503	1,673.70	554.21	1,668.22	1,528.40	139.82	11.932	
6,200.00	6,138.10	6,139.63	6,138.99	15.99	130.38	-89.281	1,673.70	554.21	1,667.76	1,525.69	142.07	11.739	
6,240.10	6,177.09	6,178.63	6,177.98	16.16	131.21	-89.593	1,673.70	554.21	1,667.66	1,524.69	142.97	11.664 CC	
6,300.00	6,235.35	6,240.72	6,240.06	16.41	132.53	-90.089	1,674.60	554.21	1,668.52	1,524.12	144.40	11.555	
6,400.00	6,332.60	6,344.84	6,344.17	16.84	134.73	-90.922	1,674.15	554.21	1,668.29	1,521.48	146.81	11.364	
6,469.85	6,400.53	6,417.57	6,416.90	17.14	136.27	-91.504	1,673.58	554.21	1,668.08	1,519.59	148.48	11.234	
6,500.00	6,429.85	6,431.45	6,430.74	17.27	136.58	-91.615	1,673.70	554.21	1,668.32	1,519.45	148.86	11.207	
6,600.00	6,527.10	6,528.70	6,527.99	17.70	138.70	-92.392	1,673.70	554.21	1,669.15	1,517.97	151.18	11.041	
6,700.00	6,624.35	6,625.95	6,625.24	18.14	140.81	-93.168	1,673.70	554.21	1,670.32	1,516.80	153.52	10.880	
6,800.00	6,721.92	6,727.56	6,726.84	18.59	143.02	-93.949	1,674.72	554.21	1,672.72	1,516.80	155.93	10.728	
6,900.00	6,820.20	6,831.84	6,831.11	19.03	145.28	-94.627	1,674.28	554.21	1,673.70	1,515.32	158.38	10.568	
7,000.00	6,919.06	6,920.74	6,919.95	19.46	147.22	-95.104	1,673.70	554.21	1,674.37	1,513.90	160.48	10.434	
7,100.00	7,018.38	7,020.06	7,019.27	19.87	149.37	-95.516	1,673.70	554.21	1,675.45	1,512.68	162.77	10.293	
7,200.00	7,118.05	7,119.73	7,118.94	20.25	151.53	-95.807	1,673.70	554.21	1,676.25	1,511.19	165.06	10.156	
7,300.00	7,217.94	7,222.99	7,222.18	20.58	153.77	-95.972	1,674.75	554.21	1,677.77	1,510.37	167.40	10.023	
7,400.00	7,317.93	7,329.08	7,328.28	20.72	156.06	-6.631	1,674.34	554.21	1,677.51	1,507.75	169.76	9.882	
7,500.00	7,417.93	7,419.68	7,418.82	20.78	158.03	-6.634	1,673.70	554.21	1,676.85	1,505.04	171.81	9.760	
7,600.00	7,517.93	7,519.68	7,518.82	20.82	160.19	-6.634	1,673.70	554.21	1,676.85	1,502.80	174.05	9.634	
7,700.00	7,617.93	7,619.68	7,618.82	20.87	162.35	-6.634	1,673.70	554.21	1,676.85	1,500.56	176.29	9.512	
7,800.00	7,717.93	7,722.63	7,721.75	20.92	164.58	-6.630	1,674.76	554.21	1,677.90	1,499.31	178.59	9.395	
7,900.00	7,817.93	7,828.74	7,827.85	20.97	166.87	-6.631	1,674.38	554.21	1,677.55	1,496.59	180.96	9.270	
8,000.00	7,917.93	7,934.85	7,933.96	21.01	169.17	-6.634	1,673.61	554.21	1,676.83	1,493.50	183.33	9.147	
8,005.18	7,923.10	7,940.35	7,939.45	21.02	169.29	-6.634	1,673.56	554.21	1,676.78	1,493.33	183.45	9.140	
8,100.00	8,017.93	8,019.76	8,018.82	21.06	171.15	-6.634	1,673.70	554.21	1,676.85	1,491.46	185.39	9.045	
8,200.00	8,117.93	8,119.76	8,118.82	21.11	173.46	-6.634	1,673.70	554.21	1,676.85	1,489.07	187.78	8.930	
8,300.00	8,217.93	8,222.14	8,221.19	21.16	175.82	-6.629	1,674.78	554.21	1,677.93	1,487.71	190.22	8.821	
8,400.00	8,317.93	8,328.20	8,327.24	21.21	178.28	-6.631	1,674.44	554.21	1,677.61	1,484.86	192.75	8.704	
8,500.00	8,417.93	8,434.27	8,433.30	21.26	180.73	-6.634	1,673.71	554.21	1,676.92	1,481.65	195.28	8.588	
8,514.53	8,432.46	8,449.68	8,448.71	21.26	181.09	-6.634	1,673.58	554.21	1,676.80	1,481.15	195.64	8.571	
8,600.00	8,517.93	8,519.89	8,518.82	21.31	182.95	-6.634	1,673.70	554.21	1,676.85	1,479.27	197.58	8.487	
8,700.00	8,617.93	8,619.89	8,618.82	21.35	185.55	-6.634	1,673.70	554.21	1,676.85	1,476.59	200.26	8.374	
8,800.00	8,717.93	8,724.67	8,723.58	21.40	188.28	-6.628	1,675.18	554.21	1,678.32	1,475.26	203.06	8.265	
8,900.00	8,817.91	8,834.85	8,833.75	21.48	191.14	-96.506	1,674.53	554.21	1,677.83	1,471.84	205.99	8.145	
8,919.66	8,837.52	8,856.47	8,855.36	21.57	191.70	-96.561	1,674.32	554.21	1,677.80	1,471.23	206.58	8.122	
9,000.00	8,916.79	8,918.97	8,917.68	21.94	193.31	-96.788	1,673.70	554.21	1,678.59	1,470.29	208.29	8.059 ES	
9,100.00	9,011.73	9,013.91	9,012.62	22.47	195.56	-97.381	1,673.70	554.21	1,682.63	1,471.82	210.81	7.982	
9,200.00	9,099.84	9,122.96	9,121.63	23.01	198.15	-98.443	1,674.22	554.21	1,690.48	1,476.66	213.82	7.906	
9,300.00	9,178.45	9,180.71	9,179.34	23.52	199.45	-98.556	1,673.70	554.21	1,701.19	1,485.43	215.75	7.885	
9,400.00	9,245.16	9,247.43	9,246.05	23.97	200.85	-98.560	1,673.70	554.21	1,717.73	1,499.74	217.98	7.880 SF	
9,500.00	9,297.95	9,300.22	9,298.84	24.35	201.95	-97.771	1,673.70	554.21	1,740.28	1,520.16	220.12	7.906	
9,600.00	9,335.22	9,337.49	9,336.11	24.62	202.73	-95.931	1,673.70	554.21	1,769.25	1,547.15	222.10	7.966	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W12) HULKSTER 005 - 39572 - (Inc Only)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 235-INC-ONLY													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Rule Assigned:</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
9,700.00	9,355.84	9,358.11	9,356.73	24.78	203.16	-92.864	1,673.70	554.21	1,804.47	1,580.64	223.83	8.062	
9,800.00	9,360.00	9,362.27	9,360.89	24.83	203.25	-90.000	1,673.70	554.21	1,845.10	1,619.90	225.20	8.193	
9,900.00	9,360.00	9,362.27	9,360.89	24.86	203.25	-90.000	1,673.70	554.21	1,890.21	1,663.74	226.47	8.346	
10,000.00	9,360.00	9,362.27	9,360.89	24.94	203.25	-90.000	1,673.70	554.21	1,939.44	1,711.73	227.71	8.517	
10,100.00	9,360.00	9,362.27	9,360.89	26.19	203.25	-90.000	1,673.70	554.21	1,992.47	1,763.58	228.89	8.705	
10,200.00	9,360.00	9,362.27	9,360.89	27.89	203.25	-90.000	1,673.70	554.21	2,049.01	1,819.01	230.01	8.909	





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W14) KEEL A FEDERAL 003 - 33340 - (Inc Only)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 218-INC-ONLY													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>					
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
11,300.00	9,360.00	9,359.05	9,356.89	48.56	214.63	-90.000	1,483.83	4,300.62	2,063.63	1,810.07	253.56	8.139	
11,400.00	9,360.00	9,359.05	9,356.89	50.53	214.63	-90.000	1,483.83	4,300.62	1,994.47	1,738.82	255.65	7.801	
11,500.00	9,360.00	9,359.05	9,356.89	52.50	214.63	-90.000	1,483.83	4,300.62	1,928.02	1,670.10	257.92	7.475	
11,600.00	9,360.00	9,359.05	9,356.89	54.49	214.63	-90.000	1,483.83	4,300.62	1,864.57	1,604.22	260.35	7.162	
11,700.00	9,360.00	9,359.05	9,356.89	56.48	214.63	-90.000	1,483.83	4,300.62	1,804.43	1,541.49	262.94	6.863	
11,800.00	9,360.00	9,359.05	9,356.89	58.47	214.63	-90.000	1,483.83	4,300.62	1,747.95	1,482.28	265.67	6.579	
11,900.00	9,360.00	9,359.05	9,356.89	60.47	214.63	-90.000	1,483.83	4,300.62	1,695.49	1,426.96	268.53	6.314	
12,000.00	9,360.00	9,359.05	9,356.89	62.48	214.63	-90.000	1,483.83	4,300.62	1,647.43	1,375.94	271.49	6.068	
12,100.00	9,360.00	9,359.05	9,356.89	64.49	214.63	-90.000	1,483.83	4,300.62	1,604.17	1,329.66	274.51	5.844	
12,200.00	9,360.00	9,359.05	9,356.89	66.50	214.63	-90.000	1,483.83	4,300.62	1,566.12	1,288.56	277.56	5.643	
12,300.00	9,360.00	9,359.05	9,356.89	68.52	214.63	-90.000	1,483.83	4,300.62	1,533.65	1,253.08	280.57	5.466	
12,400.00	9,360.00	9,359.05	9,356.89	70.54	214.63	-90.000	1,483.83	4,300.62	1,507.13	1,223.63	283.50	5.316	
12,500.00	9,360.00	9,359.05	9,356.89	72.56	214.63	-90.000	1,483.83	4,300.62	1,486.87	1,200.59	286.29	5.194	
12,600.00	9,360.00	9,359.05	9,356.89	74.58	214.63	-90.000	1,483.83	4,300.62	1,473.14	1,184.27	288.87	5.100	
12,700.00	9,360.00	9,359.05	9,356.89	76.61	214.63	-90.000	1,483.83	4,300.62	1,466.12	1,174.92	291.20	5.035	
12,753.23	9,360.00	9,359.05	9,356.89	77.69	214.63	-90.000	1,483.83	4,300.62	1,465.15	1,172.83	292.32	5.012 CC	
12,800.00	9,360.00	9,359.05	9,356.89	78.64	214.63	-90.000	1,483.83	4,300.62	1,465.90	1,172.67	293.23	4.999 ES	
12,900.00	9,360.00	9,359.05	9,356.89	80.67	214.63	-90.000	1,483.83	4,300.62	1,472.48	1,177.56	294.92	4.993 SF	
13,000.00	9,360.00	9,359.05	9,356.89	82.71	214.63	-90.000	1,483.83	4,300.62	1,485.79	1,189.51	296.28	5.015	
13,100.00	9,360.00	9,359.05	9,356.89	84.74	214.63	-90.000	1,483.83	4,300.62	1,505.63	1,208.35	297.28	5.065	
13,200.00	9,360.00	9,359.05	9,356.89	86.78	214.63	-90.000	1,483.83	4,300.62	1,531.75	1,233.81	297.94	5.141	
13,300.00	9,360.00	9,359.05	9,356.89	88.82	214.63	-90.000	1,483.83	4,300.62	1,563.85	1,265.55	298.30	5.243	
13,400.00	9,360.00	9,359.05	9,356.89	90.86	214.63	-90.000	1,483.83	4,300.62	1,601.55	1,303.18	298.37	5.368	
13,500.00	9,360.00	9,359.05	9,356.89	92.90	214.63	-90.000	1,483.83	4,300.62	1,644.48	1,346.28	298.20	5.515	
13,600.00	9,360.00	9,359.05	9,356.89	94.94	214.63	-90.000	1,483.83	4,300.62	1,692.24	1,394.42	297.82	5.682	
13,700.00	9,360.00	9,359.05	9,356.89	96.98	214.63	-90.000	1,483.83	4,300.62	1,744.43	1,447.15	297.28	5.868	
13,800.00	9,360.00	9,359.05	9,356.89	99.03	214.63	-90.000	1,483.83	4,300.62	1,800.66	1,504.06	296.61	6.071	
13,900.00	9,360.00	9,359.05	9,356.89	101.07	214.63	-90.000	1,483.83	4,300.62	1,860.58	1,564.75	295.83	6.289	
14,000.00	9,360.00	9,359.05	9,356.89	103.12	214.63	-90.000	1,483.83	4,300.62	1,923.82	1,628.84	294.98	6.522	
14,100.00	9,360.00	9,359.05	9,356.89	105.17	214.63	-90.000	1,483.83	4,300.62	1,990.09	1,696.01	294.08	6.767	
14,200.00	9,360.00	9,359.05	9,356.89	107.21	214.63	-90.000	1,483.83	4,300.62	2,059.08	1,765.93	293.15	7.024	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W16) LEAR STATE SWD 003 - 26703 - (Inc Only)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 229-INC-ONLY													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Highside</b>		<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum</b>	<b>Separation</b>	<b>Warning</b>	
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)	Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-65.105	352.76	-760.13	838.00				
100.00	100.00	96.89	96.89	0.79	2.00	-65.105	352.76	-760.13	838.00	835.21	2.79	300.512	
200.00	200.00	196.89	196.89	1.45	4.07	-65.105	352.76	-760.13	838.00	832.48	5.52	151.915	
300.00	300.00	296.90	296.89	1.89	6.03	-65.105	352.76	-760.13	838.00	830.07	7.93	105.737	
400.00	400.00	398.49	398.48	2.25	7.98	-65.095	352.93	-760.13	838.07	827.84	10.23	81.907	
500.00	500.00	496.91	496.89	2.57	10.43	-65.105	352.76	-760.13	838.00	825.00	12.99	64.493	
600.00	600.00	596.91	596.89	2.85	13.18	-65.105	352.76	-760.13	838.00	821.97	16.03	52.270	
700.00	700.00	697.08	697.06	3.11	15.94	-65.073	353.28	-760.13	838.22	819.16	19.05	43.997	
800.00	800.00	797.72	797.70	3.35	18.72	-65.082	353.14	-760.13	838.16	816.09	22.07	37.983	
900.00	900.00	898.38	898.35	3.58	21.49	-65.102	352.81	-760.13	838.02	812.96	25.07	33.430	
947.19	947.19	944.11	944.08	3.68	22.56	-65.105	352.76	-760.13	838.00	811.76	26.24	31.940	
1,000.00	1,000.00	996.92	996.89	3.79	23.70	-65.105	352.76	-760.13	838.00	810.51	27.49	30.485	
1,100.00	1,100.00	1,096.92	1,096.89	3.99	25.86	-65.105	352.76	-760.13	838.00	808.15	29.85	28.074	
1,200.00	1,200.00	1,197.03	1,197.00	4.19	28.01	-65.089	353.02	-760.13	838.11	805.90	32.21	26.024	
1,300.00	1,300.00	1,297.35	1,297.31	4.38	30.18	-65.094	352.94	-760.13	838.08	803.52	34.56	24.252	
1,400.00	1,400.00	1,397.66	1,397.63	4.56	32.34	-65.104	352.78	-760.13	838.01	801.10	36.90	22.708	
1,443.80	1,443.80	1,440.72	1,440.69	4.64	33.23	-65.105	352.76	-760.13	838.00	800.12	37.87	22.125	
1,500.00	1,500.00	1,496.92	1,496.89	4.74	34.39	-65.105	352.76	-760.13	838.00	798.87	39.13	21.418	
1,600.00	1,600.00	1,596.92	1,596.89	4.91	36.43	-65.105	352.76	-760.13	838.00	796.65	41.35	20.268	
1,700.00	1,700.00	1,697.05	1,697.01	5.08	38.48	-65.089	353.02	-760.13	838.11	794.54	43.56	19.239	
1,800.00	1,800.00	1,797.36	1,797.32	5.24	40.54	-65.094	352.94	-760.13	838.08	792.29	45.78	18.306	
1,900.00	1,900.00	1,897.67	1,897.64	5.40	42.59	-65.104	352.77	-760.13	838.01	790.01	48.00	17.460	
1,940.45	1,940.45	1,937.40	1,937.34	5.47	43.43	-65.105	352.76	-760.13	838.00	789.10	48.90	17.137	
2,000.00	2,000.00	1,996.94	1,996.89	5.56	44.70	-65.105	352.76	-760.13	838.00	787.73	50.26	16.672	
2,100.00	2,100.00	2,096.94	2,096.89	5.71	46.84	-65.105	352.76	-760.13	838.00	785.45	52.55	15.947	
2,200.00	2,200.00	2,197.19	2,197.13	5.86	48.98	-65.052	353.61	-760.13	838.36	783.52	54.84	15.287	
2,300.00	2,300.00	2,298.09	2,298.02	6.01	51.13	-65.065	353.41	-760.13	838.27	781.13	57.14	14.671	
2,400.00	2,400.00	2,398.99	2,398.92	6.16	53.28	-65.092	352.96	-760.13	838.09	778.65	59.44	14.100	
2,500.00	2,500.00	2,496.99	2,496.89	6.30	55.29	-65.105	352.76	-760.13	838.00	776.41	61.58	13.607	
2,600.00	2,600.00	2,596.99	2,596.89	6.44	57.28	-65.105	352.76	-760.13	838.00	774.27	63.72	13.151	
2,700.00	2,700.00	2,697.31	2,697.20	6.58	59.29	-65.059	353.50	-760.13	838.31	772.45	65.87	12.727	
2,800.00	2,800.00	2,798.33	2,798.22	6.71	61.31	-65.074	353.27	-760.13	838.21	770.19	68.02	12.323	
2,900.00	2,900.00	2,899.35	2,899.23	6.85	63.32	-65.106	352.75	-760.13	838.00	767.82	70.17	11.942 CC	
2,933.20	2,933.20	2,930.25	2,930.09	6.89	63.98	-65.105	352.76	-760.13	838.00	767.12	70.88	11.823	
3,000.00	3,000.00	2,997.04	2,996.89	6.98	65.41	-65.105	352.76	-760.13	838.00	765.61	72.39	11.576	
3,100.00	3,100.00	3,097.04	3,096.89	7.12	67.54	-65.105	352.76	-760.13	838.00	763.35	74.65	11.226	
3,200.00	3,200.00	3,197.64	3,197.48	7.25	69.68	-65.040	353.81	-760.13	838.44	761.52	76.92	10.900	
3,300.00	3,300.00	3,298.91	3,298.73	7.37	71.83	-65.061	353.47	-760.13	838.30	759.09	79.21	10.584	
3,400.00	3,400.00	3,400.18	3,400.00	7.50	73.99	-65.105	352.76	-760.13	838.01	756.52	81.49	10.283	
3,434.95	3,434.95	3,432.07	3,431.84	7.55	74.68	-65.105	352.76	-760.13	838.00	755.77	82.23	10.191	
3,500.00	3,500.00	3,497.12	3,496.89	7.63	76.10	-65.105	352.76	-760.13	838.00	754.27	83.73	10.008	
3,600.00	3,599.98	3,597.10	3,596.87	7.80	78.28	-154.524	352.76	-760.13	839.57	753.50	86.08	9.754 ES	
3,700.00	3,699.84	3,697.55	3,697.31	7.98	80.47	-154.573	353.81	-760.13	844.74	756.32	88.42	9.553	
3,800.00	3,799.45	3,798.43	3,798.18	8.16	82.67	-154.782	353.46	-760.13	852.48	761.69	90.79	9.389	
3,900.00	3,898.70	3,898.95	3,898.69	8.36	84.86	-155.082	352.76	-760.13	863.25	770.08	93.17	9.265	
4,000.00	3,997.47	3,994.68	3,994.36	8.59	86.75	-155.380	352.76	-760.13	877.48	782.22	95.26	9.212	
4,100.00	4,095.62	4,093.31	4,092.97	8.83	88.68	-155.690	353.68	-760.13	895.27	797.85	97.42	9.190	
4,200.00	4,193.08	4,193.03	4,192.68	9.02	90.64	-156.182	353.24	-760.13	915.61	816.05	99.56	9.197	
4,300.00	4,290.34	4,287.61	4,287.23	9.26	92.51	-156.766	352.76	-760.13	936.86	835.21	101.65	9.216	
4,400.00	4,387.59	4,384.86	4,384.48	9.50	94.46	-157.313	352.76	-760.13	958.40	854.56	103.83	9.230	
4,500.00	4,484.84	4,482.11	4,481.73	9.77	96.41	-157.836	352.76	-760.13	980.01	873.97	106.04	9.242	
4,600.00	4,582.09	4,580.21	4,579.82	10.05	98.37	-158.303	353.45	-760.13	1,001.94	893.67	108.27	9.254	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,700.00	4,679.34	4,678.39	4,678.00	10.35	100.34	-158.807	353.09	-760.13	1,023.57	913.05	110.52	9.261		
4,800.00	4,776.59	4,773.90	4,773.48	10.66	102.25	-159.276	352.76	-760.13	1,045.28	932.54	112.73	9.272		
4,900.00	4,873.84	4,871.15	4,870.73	10.99	104.19	-159.717	352.76	-760.13	1,067.16	952.17	114.99	9.280		
5,000.00	4,971.09	4,968.40	4,967.98	11.32	106.14	-160.140	352.76	-760.13	1,089.11	971.84	117.26	9.288		
5,100.00	5,068.34	5,066.43	5,066.00	11.67	108.10	-160.514	353.47	-760.13	1,111.33	991.77	119.56	9.295		
5,200.00	5,165.59	5,164.60	5,164.17	12.03	110.07	-160.926	353.13	-760.13	1,133.27	1,011.40	121.87	9.299		
5,300.00	5,262.84	5,260.20	5,259.73	12.39	112.00	-161.314	352.76	-760.13	1,155.25	1,031.10	124.16	9.305		
5,400.00	5,360.09	5,357.45	5,356.98	12.77	114.00	-161.676	352.76	-760.13	1,177.40	1,050.87	126.53	9.306		
5,500.00	5,457.34	5,454.70	5,454.23	13.15	116.00	-162.025	352.76	-760.13	1,199.59	1,070.68	128.90	9.306		
5,600.00	5,554.59	5,552.64	5,552.17	13.54	118.02	-162.330	353.49	-760.13	1,222.02	1,090.73	131.30	9.307		
5,700.00	5,651.84	5,650.81	5,650.33	13.93	120.04	-162.672	353.17	-760.13	1,244.20	1,110.49	133.71	9.305		
5,800.00	5,749.09	5,746.51	5,745.98	14.33	122.01	-162.998	352.76	-760.13	1,266.39	1,130.31	136.07	9.307		
5,900.00	5,846.35	5,843.76	5,843.24	14.74	124.02	-163.300	352.76	-760.13	1,288.72	1,150.25	138.47	9.307		
6,000.00	5,943.60	5,941.01	5,940.49	15.15	126.02	-163.592	352.76	-760.13	1,311.10	1,170.22	140.88	9.306		
6,100.00	6,040.85	6,039.07	6,038.53	15.57	128.04	-163.834	353.76	-760.13	1,333.76	1,190.45	143.31	9.307		
6,200.00	6,138.10	6,137.54	6,137.00	15.99	130.06	-164.127	353.37	-760.13	1,356.09	1,210.34	145.75	9.304		
6,300.00	6,235.35	6,232.82	6,232.24	16.41	132.04	-164.411	352.76	-760.13	1,378.39	1,230.25	148.14	9.304		
6,400.00	6,332.60	6,330.07	6,329.49	16.84	134.17	-164.666	352.76	-760.13	1,400.88	1,250.18	150.70	9.296		
6,500.00	6,429.85	6,427.32	6,426.74	17.27	136.31	-164.914	352.76	-760.13	1,423.40	1,270.14	153.26	9.287		
6,600.00	6,527.10	6,525.06	6,524.47	17.70	138.45	-165.124	353.54	-760.13	1,446.12	1,290.29	155.83	9.280		
6,700.00	6,624.35	6,623.21	6,622.62	18.14	140.61	-165.369	353.27	-760.13	1,468.62	1,310.19	158.43	9.270		
6,800.00	6,721.92	6,721.69	6,721.09	18.59	142.77	-165.700	352.76	-760.13	1,489.71	1,328.67	161.03	9.251		
6,900.00	6,820.20	6,817.77	6,817.09	19.03	145.08	-165.957	352.76	-760.13	1,507.63	1,343.85	163.78	9.205		
7,000.00	6,919.06	6,916.63	6,915.95	19.46	147.46	-166.165	352.76	-760.13	1,522.22	1,355.64	166.58	9.138		
7,100.00	7,018.38	7,016.82	7,016.11	19.87	149.87	-166.266	354.32	-760.13	1,533.81	1,364.42	169.39	9.055		
7,200.00	7,118.05	7,118.38	7,117.66	20.25	152.31	-166.394	353.80	-760.13	1,541.56	1,369.35	172.21	8.952		
7,300.00	7,217.94	7,220.19	7,219.45	20.58	154.76	-166.493	352.74	-760.13	1,545.81	1,370.82	174.99	8.834		
7,400.00	7,317.93	7,315.67	7,314.82	20.72	157.08	-77.126	352.76	-760.13	1,546.95	1,369.51	177.44	8.718		
7,500.00	7,417.93	7,415.67	7,414.82	20.78	159.51	-77.126	352.76	-760.13	1,546.95	1,367.02	179.92	8.598		
7,600.00	7,517.93	7,516.55	7,515.67	20.82	161.96	-77.069	354.33	-760.13	1,547.30	1,364.88	182.42	8.482		
7,700.00	7,617.93	7,618.44	7,617.55	20.87	164.43	-77.088	353.81	-760.13	1,547.18	1,362.24	184.94	8.366		
7,800.00	7,717.93	7,720.35	7,719.44	20.92	166.90	-77.126	352.74	-760.13	1,546.95	1,359.48	187.47	8.252		
7,833.93	7,751.86	7,749.77	7,748.75	20.94	167.65	-77.126	352.76	-760.13	1,546.95	1,358.73	188.22	8.219		
7,900.00	7,817.93	7,815.84	7,814.82	20.97	169.31	-77.126	352.76	-760.13	1,546.95	1,357.03	189.92	8.145		
8,000.00	7,917.93	7,915.84	7,914.82	21.01	171.83	-77.126	352.76	-760.13	1,546.95	1,354.46	192.48	8.037		
8,100.00	8,017.93	8,016.71	8,015.66	21.06	174.37	-77.069	354.34	-760.13	1,547.30	1,352.23	195.07	7.932		
8,200.00	8,117.93	8,118.60	8,117.54	21.11	176.94	-77.088	353.81	-760.13	1,547.18	1,349.49	197.69	7.826		
8,300.00	8,217.93	8,220.51	8,219.43	21.16	179.50	-77.126	352.75	-760.13	1,546.95	1,346.64	200.31	7.723		
8,334.48	8,252.41	8,250.53	8,249.30	21.18	180.26	-77.126	352.76	-760.13	1,546.95	1,345.86	201.08	7.693		
8,400.00	8,317.93	8,316.04	8,314.82	21.21	181.92	-77.126	352.76	-760.13	1,546.95	1,344.17	202.78	7.629		
8,500.00	8,417.93	8,416.04	8,414.82	21.26	184.46	-77.126	352.76	-760.13	1,546.95	1,341.59	205.36	7.533		
8,600.00	8,517.93	8,517.06	8,515.80	21.31	187.02	-77.059	354.60	-760.13	1,547.36	1,339.39	207.97	7.440		
8,700.00	8,617.93	8,619.29	8,618.01	21.35	189.61	-77.082	353.98	-760.13	1,547.22	1,336.61	210.61	7.346		
8,800.00	8,717.93	8,721.54	8,720.23	21.40	192.20	-77.127	352.73	-760.13	1,546.95	1,333.69	213.26	7.254		
8,803.67	8,721.59	8,725.28	8,723.98	21.41	192.30	-166.958	352.67	-760.13	1,546.94	1,333.58	213.36	7.250		
8,900.00	8,817.91	8,816.23	8,814.80	21.48	194.46	-166.944	352.76	-760.13	1,547.76	1,332.17	215.59	7.179		
9,000.00	8,916.79	8,915.11	8,913.68	21.94	196.81	-166.746	352.76	-760.13	1,561.45	1,343.06	218.39	7.150 SF		
9,100.00	9,011.73	9,010.80	9,009.35	22.47	199.09	-166.207	354.35	-760.13	1,592.03	1,370.83	221.20	7.197		
9,200.00	9,099.84	9,100.57	9,099.11	23.01	201.23	-165.366	353.94	-760.13	1,637.85	1,413.96	223.89	7.315		
9,300.00	9,178.45	9,180.67	9,179.20	23.52	203.14	-163.959	353.23	-760.13	1,697.94	1,471.61	226.33	7.502		
9,400.00	9,245.16	9,243.62	9,242.05	23.97	204.62	-161.483	352.76	-760.13	1,770.64	1,542.35	228.30	7.756		
9,500.00	9,297.95	9,296.41	9,294.84	24.35	205.85	-157.036	352.76	-760.13	1,853.83	1,623.91	229.93	8.063		

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W16) LEAR STATE SWD 003 - 26703 - (Inc Only)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 229-INC-ONLY													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Rule Assigned:</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
9,600.00	9,335.22	9,333.68	9,332.11	24.62	206.72	-147.897	352.76	-760.13	1,944.91	1,713.81	231.10	8.416	
9,700.00	9,355.84	9,354.30	9,352.73	24.78	207.20	-124.724	352.76	-760.13	2,041.12	1,809.34	231.79	8.806	



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W17) MAX STATE 001 - 26754 - (Inc Only)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 405-INC-ONLY													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>					
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
0.00	0.00	0.00	0.00	0.00	0.00	-18.749	1,672.25	-567.61	1,765.99				
100.00	100.00	88.89	88.89	0.79	2.55	-18.749	1,672.25	-567.61	1,765.96	1,762.63	3.33	530.192	
200.00	200.00	188.89	188.89	1.45	5.41	-18.749	1,672.25	-567.61	1,765.96	1,759.11	6.85	257.635	
300.00	300.00	288.89	288.89	1.89	8.27	-18.749	1,672.25	-567.61	1,765.96	1,755.80	10.16	173.758	
400.00	400.00	388.89	388.89	2.25	11.13	-18.749	1,672.25	-567.61	1,765.96	1,752.57	13.39	131.900	
500.00	500.00	488.90	488.89	2.57	13.84	-18.749	1,672.25	-567.61	1,765.96	1,749.55	16.41	107.610	
600.00	600.00	588.90	588.89	2.85	16.52	-18.749	1,672.25	-567.61	1,765.96	1,746.59	19.37	91.166	
700.00	700.00	689.34	689.33	3.11	19.21	-18.743	1,672.84	-567.61	1,766.51	1,744.19	22.32	79.146	
800.00	800.00	792.15	792.14	3.35	21.96	-18.744	1,672.72	-567.61	1,766.41	1,741.09	25.31	69.781	
900.00	900.00	894.95	894.94	3.58	24.72	-18.747	1,672.44	-567.61	1,766.14	1,737.85	28.29	62.423	
1,000.00	1,000.00	988.92	988.89	3.79	26.94	-18.749	1,672.25	-567.61	1,765.96	1,735.23	30.73	57.472	
1,100.00	1,100.00	1,088.92	1,088.89	3.99	29.00	-18.749	1,672.25	-567.61	1,765.96	1,732.97	32.99	53.531	
1,200.00	1,200.00	1,188.92	1,188.89	4.19	31.05	-18.749	1,672.25	-567.61	1,765.96	1,730.72	35.24	50.107	
1,300.00	1,300.00	1,291.89	1,291.86	4.38	33.17	-18.744	1,672.71	-567.61	1,766.39	1,728.84	37.55	47.039	
1,400.00	1,400.00	1,394.91	1,394.88	4.56	35.29	-18.747	1,672.43	-567.61	1,766.14	1,726.29	39.85	44.315	
1,500.00	1,500.00	1,488.95	1,488.89	4.74	37.24	-18.749	1,672.25	-567.61	1,765.96	1,723.98	41.98	42.063	
1,600.00	1,600.00	1,588.95	1,588.89	4.91	39.34	-18.749	1,672.25	-567.61	1,765.96	1,721.71	44.25	39.910	
1,700.00	1,700.00	1,688.95	1,688.89	5.08	41.43	-18.749	1,672.25	-567.61	1,765.96	1,719.45	46.51	37.971	
1,800.00	1,800.00	1,793.42	1,793.36	5.24	43.62	-18.742	1,672.94	-567.61	1,766.61	1,717.76	48.86	36.158	
1,900.00	1,900.00	1,898.00	1,897.93	5.40	45.80	-18.746	1,672.52	-567.61	1,766.23	1,715.03	51.21	34.493	
2,000.00	2,000.00	1,989.00	1,988.89	5.56	47.81	-18.749	1,672.25	-567.61	1,765.96	1,712.59	53.37	33.090	
2,100.00	2,100.00	2,089.00	2,088.89	5.71	50.12	-18.749	1,672.25	-567.61	1,765.96	1,710.13	55.83	31.633	
2,200.00	2,200.00	2,189.00	2,188.89	5.86	52.42	-18.749	1,672.25	-567.61	1,765.96	1,707.68	58.28	30.299	
2,300.00	2,300.00	2,294.91	2,294.79	6.01	54.86	-18.739	1,673.17	-567.61	1,766.84	1,705.97	60.87	29.025	
2,400.00	2,400.00	2,401.11	2,400.97	6.16	57.31	-18.745	1,672.60	-567.61	1,766.33	1,702.86	63.47	27.831	
2,500.00	2,500.00	2,489.15	2,488.89	6.30	59.47	-18.749	1,672.25	-567.61	1,765.96	1,700.19	65.77	26.851	
2,600.00	2,600.00	2,589.15	2,588.89	6.44	62.07	-18.749	1,672.25	-567.61	1,765.96	1,697.45	68.51	25.777	
2,700.00	2,700.00	2,689.15	2,688.89	6.58	64.67	-18.749	1,672.25	-567.61	1,765.96	1,694.72	71.24	24.787	
2,800.00	2,800.00	2,794.14	2,793.83	6.71	67.39	-18.726	1,674.40	-567.61	1,768.00	1,693.89	74.11	23.857	
2,900.00	2,900.00	2,903.79	2,903.47	6.85	70.24	-18.733	1,673.76	-567.61	1,767.45	1,690.36	77.09	22.927	
3,000.00	3,000.00	3,013.46	3,013.11	6.98	73.09	-18.746	1,672.50	-567.61	1,766.36	1,686.29	80.07	22.061	
3,040.53	3,040.53	3,057.92	3,057.56	7.04	74.25	-18.753	1,671.80	-567.61	1,765.76	1,684.49	81.27	21.726 CC	
3,100.00	3,100.00	3,089.36	3,088.89	7.12	74.92	-18.749	1,672.25	-567.61	1,765.96	1,683.92	82.03	21.527	
3,200.00	3,200.00	3,189.36	3,188.89	7.25	77.28	-18.749	1,672.25	-567.61	1,765.96	1,681.44	84.52	20.893	
3,300.00	3,300.00	3,291.85	3,291.37	7.37	79.69	-18.736	1,673.49	-567.61	1,767.13	1,680.06	87.07	20.296	
3,400.00	3,400.00	3,400.49	3,400.00	7.50	82.25	-18.740	1,673.05	-567.61	1,766.74	1,676.99	89.76	19.684	
3,500.00	3,500.00	3,509.14	3,508.64	7.63	84.82	-18.751	1,672.05	-567.61	1,765.87	1,673.43	92.44	19.103	
3,501.41	3,501.41	3,510.67	3,510.16	7.63	84.85	-108.133	1,672.03	-567.61	1,765.86	1,673.38	92.48	19.095	
3,600.00	3,599.98	3,589.49	3,588.87	7.80	86.70	-108.173	1,672.25	-567.61	1,766.50	1,672.06	94.44	18.705	
3,700.00	3,699.84	3,689.35	3,688.73	7.98	89.04	-108.303	1,672.25	-567.61	1,768.14	1,671.26	96.89	18.250 ES	
3,800.00	3,799.45	3,795.84	3,795.18	8.16	91.53	-108.521	1,673.96	-567.61	1,772.53	1,673.04	99.49	17.816	
3,900.00	3,898.70	3,906.97	3,906.29	8.36	94.13	-108.884	1,673.11	-567.61	1,775.74	1,673.54	102.20	17.375	
4,000.00	3,997.47	3,987.12	3,986.36	8.59	95.96	-109.188	1,672.25	-567.61	1,779.98	1,675.83	104.16	17.090	
4,100.00	4,095.62	4,085.28	4,084.51	8.83	97.93	-109.634	1,672.25	-567.61	1,786.43	1,680.17	106.26	16.812	
4,200.00	4,193.08	4,184.71	4,183.93	9.02	99.93	-110.191	1,673.06	-567.61	1,794.97	1,686.61	108.36	16.565	
4,300.00	4,290.34	4,290.19	4,289.41	9.26	102.05	-110.931	1,672.67	-567.61	1,803.01	1,692.38	110.62	16.298	
4,400.00	4,387.59	4,377.30	4,376.48	9.50	103.87	-111.537	1,672.25	-567.61	1,811.21	1,698.62	112.60	16.086	
4,500.00	4,484.84	4,474.55	4,473.73	9.77	106.03	-112.203	1,672.25	-567.61	1,820.10	1,705.18	114.92	15.838	
4,600.00	4,582.09	4,571.80	4,570.98	10.05	108.19	-112.862	1,672.25	-567.61	1,829.24	1,711.98	117.25	15.601	
4,700.00	4,679.34	4,673.74	4,672.90	10.35	110.45	-113.535	1,673.22	-567.61	1,839.51	1,719.81	119.70	15.368	
4,800.00	4,776.59	4,777.10	4,776.26	10.66	112.74	-114.227	1,672.74	-567.61	1,848.73	1,726.55	122.19	15.130	
4,900.00	4,873.84	4,863.65	4,862.73	10.99	114.72	-114.803	1,672.25	-567.61	1,858.13	1,733.77	124.37	14.941	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W17) MAX STATE 001 - 26754 - (Inc Only)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 405-INC-ONLY													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Rule Assigned:</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
5,000.00	4,971.09	4,960.90	4,959.98	11.32	117.13	-115.437	1,672.25	-567.61	1,868.25	1,741.26	126.99	14.712	
5,100.00	5,068.34	5,058.15	5,057.23	11.67	119.55	-116.064	1,672.25	-567.61	1,878.59	1,748.97	129.62	14.493	
5,200.00	5,165.59	5,155.40	5,154.48	12.03	121.96	-116.685	1,672.25	-567.61	1,889.17	1,756.91	132.26	14.283	
5,300.00	5,262.84	5,256.81	5,255.87	12.39	124.48	-117.300	1,674.00	-567.61	1,901.52	1,766.50	135.02	14.083	
5,400.00	5,360.09	5,359.64	5,358.68	12.77	127.03	-117.947	1,673.57	-567.61	1,912.18	1,774.37	137.82	13.875	
5,500.00	5,457.34	5,462.47	5,461.50	13.15	129.58	-118.592	1,672.81	-567.61	1,922.79	1,782.17	140.62	13.673	
5,600.00	5,554.59	5,544.53	5,543.48	13.54	131.51	-119.100	1,672.25	-567.61	1,933.71	1,790.90	142.82	13.540	
5,700.00	5,651.84	5,641.78	5,640.73	13.93	133.54	-119.687	1,672.25	-567.61	1,945.39	1,800.27	145.12	13.406	
5,800.00	5,749.09	5,739.04	5,737.98	14.33	135.57	-120.267	1,672.25	-567.61	1,957.27	1,809.84	147.43	13.276	
5,900.00	5,846.35	5,841.80	5,840.74	14.74	137.71	-120.859	1,673.13	-567.61	1,970.10	1,820.24	149.86	13.146	
6,000.00	5,943.60	5,945.50	5,944.43	15.15	139.87	-121.471	1,672.59	-567.61	1,981.95	1,829.63	152.32	13.012	
6,100.00	6,040.85	6,030.86	6,029.74	15.57	141.67	-121.967	1,672.25	-567.61	1,994.11	1,839.70	154.41	12.914	
6,200.00	6,138.10	6,128.11	6,126.99	15.99	143.73	-122.520	1,672.25	-567.61	2,006.79	1,850.00	156.78	12.800	
6,300.00	6,235.35	6,225.36	6,224.24	16.41	145.79	-123.066	1,672.25	-567.61	2,019.65	1,860.48	159.16	12.689	
6,400.00	6,332.60	6,327.77	6,326.64	16.84	147.96	-123.619	1,673.21	-567.61	2,033.49	1,871.83	161.66	12.579	
6,500.00	6,429.85	6,431.03	6,429.89	17.27	150.15	-124.192	1,672.71	-567.61	2,046.32	1,882.14	164.18	12.464	
6,600.00	6,527.10	6,517.19	6,515.99	17.70	152.02	-124.665	1,672.25	-567.61	2,059.33	1,892.95	166.38	12.377 SF	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W18) MCKAY WEST FEDERAL 001 - 24931 - (Inc Only)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 452-INC-ONLY													<b>Offset Well Error:</b> 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
15,700.00	9,360.00	9,368.44	9,366.89	138.02	223.68	-90.000	1,686.72	8,472.20	2,059.77	1,723.84	335.93	6.132	
15,800.00	9,360.00	9,368.44	9,366.89	140.07	223.68	-90.000	1,686.72	8,472.20	2,001.89	1,661.23	340.66	5.876	
15,900.00	9,360.00	9,368.44	9,366.89	142.13	223.68	-90.000	1,686.72	8,472.20	1,947.43	1,601.95	345.48	5.637	
16,000.00	9,360.00	9,368.44	9,366.89	144.19	223.68	-90.000	1,686.72	8,472.20	1,896.68	1,546.33	350.35	5.414	
16,100.00	9,360.00	9,368.44	9,366.89	146.25	223.68	-90.000	1,686.72	8,472.20	1,849.95	1,494.73	355.22	5.208	
16,200.00	9,360.00	9,368.44	9,366.89	148.31	223.68	-90.000	1,686.72	8,472.20	1,807.55	1,447.51	360.04	5.020	
16,300.00	9,360.00	9,368.44	9,366.89	150.37	223.68	-90.000	1,686.72	8,472.20	1,769.79	1,405.05	364.74	4.852	
16,400.00	9,360.00	9,368.44	9,366.89	152.42	223.68	-90.000	1,686.72	8,472.20	1,736.97	1,367.72	369.25	4.704	
16,500.00	9,360.00	9,368.44	9,366.89	154.48	223.68	-90.000	1,686.72	8,472.20	1,709.38	1,335.88	373.50	4.577	
16,600.00	9,360.00	9,368.44	9,366.89	156.54	223.68	-90.000	1,686.72	8,472.20	1,687.28	1,309.88	377.40	4.471	
16,700.00	9,360.00	9,368.44	9,366.89	158.60	223.68	-90.000	1,686.72	8,472.20	1,670.88	1,289.98	380.89	4.387	
16,800.00	9,360.00	9,368.44	9,366.89	160.66	223.68	-90.000	1,686.72	8,472.20	1,660.34	1,276.44	383.91	4.325	
16,900.00	9,360.00	9,368.44	9,366.89	162.73	223.68	-90.000	1,686.72	8,472.20	1,655.80	1,269.41	386.39	4.285	
16,925.41	9,360.00	9,368.44	9,366.89	163.25	223.68	-90.000	1,686.72	8,472.20	1,655.60	1,268.68	386.93	4.279	CC, ES
17,000.00	9,360.00	9,368.44	9,366.89	164.79	223.68	-90.000	1,686.72	8,472.20	1,657.28	1,268.98	388.30	4.268	SF
17,100.00	9,360.00	9,368.44	9,366.89	166.85	223.68	-90.000	1,686.72	8,472.20	1,664.78	1,275.16	389.62	4.273	
17,200.00	9,360.00	9,368.44	9,366.89	168.91	223.68	-90.000	1,686.72	8,472.20	1,678.22	1,287.86	390.36	4.299	
17,300.00	9,360.00	9,368.44	9,366.89	170.97	223.68	-90.000	1,686.72	8,472.20	1,697.45	1,306.91	390.54	4.346	
17,400.00	9,360.00	9,368.44	9,366.89	173.03	223.68	-90.000	1,686.72	8,472.20	1,722.28	1,332.10	390.19	4.414	
17,500.00	9,360.00	9,368.44	9,366.89	175.09	223.68	-90.000	1,686.72	8,472.20	1,752.48	1,363.13	389.35	4.501	
17,600.00	9,360.00	9,368.44	9,366.89	177.16	223.68	-90.000	1,686.72	8,472.20	1,787.76	1,399.67	388.09	4.607	
17,700.00	9,360.00	9,368.44	9,366.89	179.22	223.68	-90.000	1,686.72	8,472.20	1,827.84	1,441.38	386.47	4.730	
17,800.00	9,360.00	9,368.44	9,366.89	181.28	223.68	-90.000	1,686.72	8,472.20	1,872.41	1,487.87	384.54	4.869	
17,900.00	9,360.00	9,368.44	9,366.89	183.34	223.68	-90.000	1,686.72	8,472.20	1,921.16	1,538.78	382.37	5.024	
18,000.00	9,360.00	9,368.44	9,366.89	185.41	223.68	-90.000	1,686.72	8,472.20	1,973.77	1,593.75	380.02	5.194	
18,100.00	9,360.00	9,368.44	9,366.89	187.47	223.68	-90.000	1,686.72	8,472.20	2,029.95	1,652.41	377.54	5.377	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W21) VANDIVER FEDERAL 001 - 26352 - (Inc Only)												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 400-INC-ONLY												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>					
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
9,700.00	9,355.84	9,350.50	9,347.73	24.78	225.53	-55.711	359.61	3,201.32	1,980.56	1,730.33	250.23	7.915	
9,800.00	9,360.00	9,354.67	9,351.89	24.83	225.62	-90.000	359.61	3,201.32	1,882.33	1,631.93	250.40	7.517	
9,900.00	9,360.00	9,354.67	9,351.89	24.86	225.62	-90.000	359.61	3,201.32	1,784.11	1,533.64	250.46	7.123	
10,000.00	9,360.00	9,354.67	9,351.89	24.94	225.62	-90.000	359.61	3,201.32	1,686.10	1,435.55	250.55	6.730	
10,100.00	9,360.00	9,354.67	9,351.89	26.19	225.62	-90.000	359.61	3,201.32	1,588.33	1,337.68	250.65	6.337	
10,200.00	9,360.00	9,354.67	9,351.89	27.89	225.62	-90.000	359.61	3,201.32	1,490.87	1,240.08	250.79	5.945	
10,300.00	9,360.00	9,354.67	9,351.89	29.64	225.62	-90.000	359.61	3,201.32	1,393.76	1,142.80	250.96	5.554	
10,400.00	9,360.00	9,354.67	9,351.89	31.43	225.62	-90.000	359.61	3,201.32	1,297.09	1,045.90	251.19	5.164	
10,500.00	9,360.00	9,354.67	9,351.89	33.25	225.62	-90.000	359.61	3,201.32	1,200.97	949.47	251.50	4.775	
10,600.00	9,360.00	9,354.67	9,351.89	35.10	225.62	-90.000	359.61	3,201.32	1,105.54	853.63	251.91	4.389	
10,700.00	9,360.00	9,354.67	9,351.89	36.98	225.62	-90.000	359.61	3,201.32	1,010.99	758.54	252.45	4.005	
10,800.00	9,360.00	9,354.67	9,351.89	38.87	225.62	-90.000	359.61	3,201.32	917.60	664.40	253.20	3.624	
10,900.00	9,360.00	9,354.67	9,351.89	40.78	225.62	-90.000	359.61	3,201.32	825.75	571.52	254.23	3.248	
11,000.00	9,360.00	9,354.67	9,351.89	42.71	225.62	-90.000	359.61	3,201.32	736.03	480.38	255.65	2.879	
11,100.00	9,360.00	9,354.67	9,351.89	44.65	225.62	-90.000	359.61	3,201.32	649.33	391.68	257.65	2.520	
11,200.00	9,360.00	9,354.67	9,351.89	46.60	225.62	-90.000	359.61	3,201.32	567.02	306.58	260.44	2.177	
11,300.00	9,360.00	9,354.67	9,351.89	48.56	225.62	-90.000	359.61	3,201.32	491.32	227.06	264.26	1.859 Level 3	
11,400.00	9,360.00	9,354.67	9,351.89	50.53	225.62	-90.000	359.61	3,201.32	425.76	156.55	269.22	1.581 Level 3	
11,500.00	9,360.00	9,354.67	9,351.89	52.50	225.62	-90.000	359.61	3,201.32	375.71	100.84	274.86	1.367 Level 3	
11,600.00	9,360.00	9,354.67	9,351.89	54.49	225.62	-90.000	359.61	3,201.32	347.91	68.22	279.69	1.244 Level 3	
11,650.59	9,360.00	9,354.67	9,351.89	55.50	225.62	-90.000	359.61	3,201.32	344.21	63.09	281.12	1.224 Level 3, CC, ES, SF	
11,700.00	9,360.00	9,354.67	9,351.89	56.48	225.62	-90.000	359.61	3,201.32	347.74	66.12	281.62	1.235 Level 3	
11,800.00	9,360.00	9,354.67	9,351.89	58.47	225.62	-90.000	359.61	3,201.32	375.24	95.10	280.14	1.339 Level 3	
11,900.00	9,360.00	9,354.67	9,351.89	60.47	225.62	-90.000	359.61	3,201.32	425.07	148.34	276.74	1.536 Level 3	
12,000.00	9,360.00	9,354.67	9,351.89	62.48	225.62	-90.000	359.61	3,201.32	490.48	217.48	273.00	1.797 Level 3	
12,100.00	9,360.00	9,354.67	9,351.89	64.49	225.62	-90.000	359.61	3,201.32	566.08	296.40	269.69	2.099	
12,200.00	9,360.00	9,354.67	9,351.89	66.50	225.62	-90.000	359.61	3,201.32	648.33	381.35	266.98	2.428	
12,300.00	9,360.00	9,354.67	9,351.89	68.52	225.62	-90.000	359.61	3,201.32	734.99	470.15	264.84	2.775	
12,400.00	9,360.00	9,354.67	9,351.89	70.54	225.62	-90.000	359.61	3,201.32	824.68	561.53	263.14	3.134	
12,500.00	9,360.00	9,354.67	9,351.89	72.56	225.62	-90.000	359.61	3,201.32	916.50	654.70	261.80	3.501	
12,600.00	9,360.00	9,354.67	9,351.89	74.58	225.62	-90.000	359.61	3,201.32	1,009.88	749.16	260.72	3.873	
12,700.00	9,360.00	9,354.67	9,351.89	76.61	225.62	-90.000	359.61	3,201.32	1,104.42	844.56	259.86	4.250	
12,800.00	9,360.00	9,354.67	9,351.89	78.64	225.62	-90.000	359.61	3,201.32	1,199.84	940.70	259.15	4.630	
12,900.00	9,360.00	9,354.67	9,351.89	80.67	225.62	-90.000	359.61	3,201.32	1,295.96	1,037.39	258.57	5.012	
13,000.00	9,360.00	9,354.67	9,351.89	82.71	225.62	-90.000	359.61	3,201.32	1,392.62	1,134.54	258.08	5.396	
13,100.00	9,360.00	9,354.67	9,351.89	84.74	225.62	-90.000	359.61	3,201.32	1,489.72	1,232.04	257.68	5.781	
13,200.00	9,360.00	9,354.67	9,351.89	86.78	225.62	-90.000	359.61	3,201.32	1,587.18	1,329.84	257.35	6.168	
13,300.00	9,360.00	9,354.67	9,351.89	88.82	225.62	-90.000	359.61	3,201.32	1,684.94	1,427.88	257.06	6.555	
13,400.00	9,360.00	9,354.67	9,351.89	90.86	225.62	-90.000	359.61	3,201.32	1,782.95	1,526.13	256.82	6.942	
13,500.00	9,360.00	9,354.67	9,351.89	92.90	225.62	-90.000	359.61	3,201.32	1,881.17	1,624.55	256.62	7.331	
13,600.00	9,360.00	9,354.67	9,351.89	94.94	225.62	-90.000	359.61	3,201.32	1,979.57	1,723.12	256.45	7.719	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Bond Pad Offsets - (W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth Only)													Offset Site Error:	0.00 usft
Survey Program: 5482-BLIND - TREND													Offset Well Error:	0.00 usft
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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	0.00	0.00	0.00	0.00	79.216	358.11	1,880.11	1,914.22					
100.00	100.00	65.89	65.89	0.79	6.98	79.216	358.11	1,880.11	1,913.91	1,906.14	7.77	246.315		
200.00	200.00	165.89	165.89	1.45	17.58	79.216	358.11	1,880.11	1,913.91	1,894.88	19.03	100.570		
300.00	300.00	265.89	265.89	1.89	28.18	79.216	358.11	1,880.11	1,913.91	1,883.84	30.08	63.635		
400.00	400.00	365.89	365.89	2.25	38.78	79.216	358.11	1,880.11	1,913.91	1,872.88	41.04	46.637		
500.00	500.00	465.89	465.89	2.57	49.38	79.216	358.11	1,880.11	1,913.91	1,861.96	51.95	36.840		
600.00	600.00	565.89	565.89	2.85	59.98	79.216	358.11	1,880.11	1,913.91	1,851.08	62.83	30.460		
700.00	700.00	665.89	665.89	3.11	70.58	79.216	358.11	1,880.11	1,913.91	1,840.22	73.69	25.972		
800.00	800.00	765.89	765.89	3.35	81.18	79.216	358.11	1,880.11	1,913.91	1,829.38	84.53	22.641		
900.00	900.00	865.89	865.89	3.58	91.78	79.216	358.11	1,880.11	1,913.91	1,818.55	95.36	20.070		
1,000.00	1,000.00	965.89	965.89	3.79	102.38	79.216	358.11	1,880.11	1,913.91	1,807.74	106.17	18.026		
1,100.00	1,100.00	1,065.89	1,065.89	3.99	112.98	79.216	358.11	1,880.11	1,913.91	1,796.94	116.98	16.361		
1,200.00	1,200.00	1,165.89	1,165.89	4.19	123.58	79.216	358.11	1,880.11	1,913.91	1,786.14	127.78	14.979		
1,300.00	1,300.00	1,265.89	1,265.89	4.38	134.18	79.216	358.11	1,880.11	1,913.91	1,775.35	138.56	13.812		
1,400.00	1,400.00	1,365.89	1,365.89	4.56	144.78	79.216	358.11	1,880.11	1,913.91	1,764.57	149.35	12.815		
1,500.00	1,500.00	1,465.89	1,465.89	4.74	155.38	79.216	358.11	1,880.11	1,913.91	1,753.79	160.12	11.953		
1,600.00	1,600.00	1,565.89	1,565.89	4.91	165.98	79.216	358.11	1,880.11	1,913.91	1,743.02	170.90	11.199		
1,700.00	1,700.00	1,665.89	1,665.89	5.08	176.58	79.216	358.11	1,880.11	1,913.91	1,732.25	181.66	10.535		
1,800.00	1,800.00	1,765.89	1,765.89	5.24	187.18	79.216	358.11	1,880.11	1,913.91	1,721.49	192.43	9.946		
1,900.00	1,900.00	1,865.89	1,865.89	5.40	197.78	79.216	358.11	1,880.11	1,913.91	1,710.73	203.19	9.419		
2,000.00	2,000.00	1,965.89	1,965.89	5.56	208.38	79.216	358.11	1,880.11	1,913.91	1,699.97	213.94	8.946		
2,100.00	2,100.00	2,065.89	2,065.89	5.71	218.98	79.216	358.11	1,880.11	1,913.91	1,689.22	224.70	8.518		
2,200.00	2,200.00	2,165.89	2,165.89	5.86	229.58	79.216	358.11	1,880.11	1,913.91	1,678.47	235.45	8.129		
2,300.00	2,300.00	2,265.89	2,265.89	6.01	240.18	79.216	358.11	1,880.11	1,913.91	1,667.72	246.19	7.774		
2,400.00	2,400.00	2,365.89	2,365.89	6.16	250.78	79.216	358.11	1,880.11	1,913.91	1,656.97	256.94	7.449		
2,500.00	2,500.00	2,465.89	2,465.89	6.30	261.38	79.216	358.11	1,880.11	1,913.91	1,646.23	267.68	7.150		
2,600.00	2,600.00	2,565.89	2,565.89	6.44	271.98	79.216	358.11	1,880.11	1,913.91	1,635.49	278.42	6.874		
2,700.00	2,700.00	2,665.89	2,665.89	6.58	282.58	79.216	358.11	1,880.11	1,913.91	1,624.75	289.16	6.619		
2,800.00	2,800.00	2,765.89	2,765.89	6.71	293.18	79.216	358.11	1,880.11	1,913.91	1,614.02	299.90	6.382		
2,900.00	2,900.00	2,865.89	2,865.89	6.85	303.78	79.216	358.11	1,880.11	1,913.91	1,603.28	310.63	6.161		
3,000.00	3,000.00	2,965.89	2,965.89	6.98	314.38	79.216	358.11	1,880.11	1,913.91	1,592.55	321.37	5.956		
3,100.00	3,100.00	3,065.89	3,065.89	7.12	324.98	79.216	358.11	1,880.11	1,913.91	1,581.81	332.10	5.763		
3,200.00	3,200.00	3,165.89	3,165.89	7.25	335.58	79.216	358.11	1,880.11	1,913.91	1,571.08	342.83	5.583		
3,300.00	3,300.00	3,265.89	3,265.89	7.37	346.18	79.216	358.11	1,880.11	1,913.91	1,560.36	353.56	5.413		
3,400.00	3,400.00	3,365.89	3,365.89	7.50	356.78	79.216	358.11	1,880.11	1,913.91	1,549.63	364.29	5.254		
3,500.00	3,500.00	3,465.89	3,465.89	7.63	367.38	79.216	358.11	1,880.11	1,913.91	1,538.90	375.01	5.104		
3,600.00	3,599.98	3,565.87	3,565.87	7.80	377.98	-10.181	358.11	1,880.11	1,912.20	1,526.41	385.79	4.957		
3,700.00	3,699.84	3,665.73	3,665.73	7.98	388.57	-10.227	358.11	1,880.11	1,907.05	1,510.51	396.54	4.809		
3,800.00	3,799.45	3,765.34	3,765.34	8.16	399.13	-10.304	358.11	1,880.11	1,898.47	1,491.19	407.28	4.661		
3,900.00	3,898.70	3,864.59	3,864.59	8.36	409.65	-10.414	358.11	1,880.11	1,886.48	1,468.48	418.00	4.513		
4,000.00	3,997.47	3,963.36	3,963.36	8.59	420.12	-10.557	358.11	1,880.11	1,871.09	1,442.40	428.69	4.365		
4,100.00	4,095.62	4,061.51	4,061.51	8.83	430.52	-10.736	358.11	1,880.11	1,852.33	1,412.99	439.33	4.216		
4,200.00	4,193.08	4,158.97	4,158.97	9.02	440.85	-10.928	358.11	1,880.11	1,830.33	1,380.48	449.85	4.069		
4,300.00	4,290.34	4,256.23	4,256.23	9.26	451.16	-11.068	358.11	1,880.11	1,807.45	1,347.06	460.39	3.926		
4,400.00	4,387.59	4,353.48	4,353.48	9.50	461.47	-11.212	358.11	1,880.11	1,784.58	1,313.64	470.94	3.789		
4,500.00	4,484.84	4,450.73	4,450.73	9.77	471.78	-11.359	358.11	1,880.11	1,761.72	1,280.20	481.51	3.659		
4,600.00	4,582.09	4,547.98	4,547.98	10.05	482.09	-11.510	358.11	1,880.11	1,738.87	1,246.77	492.10	3.534		
4,700.00	4,679.34	4,645.23	4,645.23	10.35	492.39	-11.665	358.11	1,880.11	1,716.03	1,213.33	502.70	3.414		
4,800.00	4,776.59	4,742.48	4,742.48	10.66	502.70	-11.824	358.11	1,880.11	1,693.20	1,179.89	513.32	3.299		
4,900.00	4,873.84	4,839.73	4,839.73	10.99	513.01	-11.987	358.11	1,880.11	1,670.39	1,146.45	523.94	3.188		
5,000.00	4,971.09	4,936.98	4,936.98	11.32	523.32	-12.155	358.11	1,880.11	1,647.59	1,113.01	534.58	3.082		
5,100.00	5,068.34	5,034.23	5,034.23	11.67	533.63	-12.328	358.11	1,880.11	1,624.81	1,079.57	545.23	2.980		

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond Pad Offsets - (W25) PATTERSON 33 FEDERAL 001 - 33411 - (Depth Only)													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 5482-BLIND - TREND													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
5,200.00	5,165.59	5,131.48	5,131.48	12.03	543.94	-12.506	358.11	1,880.11	1,602.03	1,046.15	555.89	2.882	
5,300.00	5,262.84	5,228.73	5,228.73	12.39	554.25	-12.688	358.11	1,880.11	1,579.28	1,012.72	566.55	2.788	
5,400.00	5,360.09	5,325.98	5,325.98	12.77	564.55	-12.876	358.11	1,880.11	1,556.54	979.31	577.23	2.697	
5,500.00	5,457.34	5,423.23	5,423.23	13.15	574.86	-13.070	358.11	1,880.11	1,533.81	945.90	587.91	2.609	
5,600.00	5,554.59	5,482.00	5,482.00	13.54	581.09	-13.190	358.11	1,880.11	1,511.60	917.24	594.36	2.543	
5,700.00	5,651.84	5,482.00	5,482.00	13.93	581.09	-13.190	358.11	1,880.11	1,494.59	902.00	592.60	2.522 SF	
5,800.00	5,749.09	5,482.00	5,482.00	14.33	581.09	-13.190	358.11	1,880.11	1,484.15	895.93	588.22	2.523 ES	
5,900.00	5,846.35	5,482.00	5,482.00	14.74	581.09	-13.190	358.11	1,880.11	1,480.40	899.22	581.18	2.547	
5,905.57	5,851.76	5,482.00	5,482.00	14.76	581.09	-13.190	358.11	1,880.11	1,480.39	899.68	580.71	2.549 CC	
6,000.00	5,943.60	5,482.00	5,482.00	15.15	581.09	-13.190	358.11	1,880.11	1,483.40	911.86	571.53	2.595	
6,100.00	6,040.85	5,482.00	5,482.00	15.57	581.09	-13.190	358.11	1,880.11	1,493.10	933.66	559.44	2.669	
6,200.00	6,138.10	5,482.00	5,482.00	15.99	581.09	-13.190	358.11	1,880.11	1,509.38	964.22	545.16	2.769	
6,300.00	6,235.35	5,482.00	5,482.00	16.41	581.09	-13.190	358.11	1,880.11	1,532.03	1,003.01	529.02	2.896	
6,400.00	6,332.60	5,482.00	5,482.00	16.84	581.09	-13.190	358.11	1,880.11	1,560.77	1,049.38	511.39	3.052	
6,500.00	6,429.85	5,482.00	5,482.00	17.27	581.09	-13.190	358.11	1,880.11	1,595.27	1,102.62	492.65	3.238	
6,600.00	6,527.10	5,482.00	5,482.00	17.70	581.09	-13.190	358.11	1,880.11	1,635.17	1,161.98	473.19	3.456	
6,700.00	6,624.35	5,482.00	5,482.00	18.14	581.09	-13.190	358.11	1,880.11	1,680.08	1,226.74	453.33	3.706	
6,800.00	6,721.92	5,482.00	5,482.00	18.59	581.09	-13.439	358.11	1,880.11	1,730.81	1,297.24	433.57	3.992	
6,900.00	6,820.20	5,482.00	5,482.00	19.03	581.09	-13.772	358.11	1,880.11	1,788.46	1,374.01	414.45	4.315	
7,000.00	6,919.06	5,482.00	5,482.00	19.46	581.09	-14.173	358.11	1,880.11	1,852.32	1,456.04	396.28	4.674	
7,100.00	7,018.38	5,482.00	5,482.00	19.87	581.09	-14.653	358.11	1,880.11	1,921.70	1,542.42	379.28	5.067	
7,200.00	7,118.05	5,482.00	5,482.00	20.25	581.09	-15.225	358.11	1,880.11	1,995.94	1,632.36	363.58	5.490	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 1 - (02) Bond 33-34 FED COM 211H - 211H - Plan 3												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	171.274	-19.74	3.03	20.00				
100.00	100.00	98.99	98.99	0.79	0.78	171.274	-19.74	3.03	19.97	18.41	1.56	12.775	
200.00	200.00	198.99	198.99	1.45	1.44	171.274	-19.74	3.03	19.97	17.09	2.89	6.921	
300.00	300.00	298.99	298.99	1.89	1.89	171.274	-19.74	3.03	19.97	16.19	3.78	5.285	
400.00	400.00	398.99	398.99	2.25	2.25	171.274	-19.74	3.03	19.97	15.47	4.50	4.434	
500.00	500.00	498.99	498.99	2.57	2.56	171.274	-19.74	3.03	19.97	14.84	5.13	3.891	
600.00	600.00	598.99	598.99	2.85	2.85	171.274	-19.74	3.03	19.97	14.27	5.70	3.506	
700.00	700.00	698.99	698.99	3.11	3.11	171.274	-19.74	3.03	19.97	13.76	6.21	3.214	
800.00	800.00	798.99	798.99	3.35	3.35	171.274	-19.74	3.03	19.97	13.28	6.70	2.983	
900.00	900.00	898.99	898.99	3.58	3.57	171.274	-19.74	3.03	19.97	12.82	7.15	2.794	
1,000.00	1,000.00	998.99	998.99	3.79	3.79	171.274	-19.74	3.03	19.97	12.39	7.58	2.636	
1,100.00	1,100.00	1,098.99	1,098.99	3.99	3.99	171.274	-19.74	3.03	19.97	11.98	7.99	2.500	
1,200.00	1,200.00	1,198.99	1,198.99	4.19	4.19	171.274	-19.74	3.03	19.97	11.59	8.38	2.383	
1,300.00	1,300.00	1,298.99	1,298.99	4.38	4.38	171.274	-19.74	3.03	19.97	11.21	8.76	2.280	
1,400.00	1,400.00	1,398.99	1,398.99	4.56	4.56	171.274	-19.74	3.03	19.97	10.85	9.12	2.189	
1,500.00	1,500.00	1,498.99	1,498.99	4.74	4.74	171.274	-19.74	3.03	19.97	10.49	9.48	2.107	
1,600.00	1,600.00	1,598.99	1,598.99	4.91	4.91	171.274	-19.74	3.03	19.97	10.15	9.82	2.033	
1,700.00	1,700.00	1,698.99	1,698.99	5.08	5.08	171.274	-19.74	3.03	19.97	9.81	10.16	1.966	Level 3
1,800.00	1,800.00	1,798.99	1,798.99	5.24	5.24	171.274	-19.74	3.03	19.97	9.49	10.48	1.905	Level 3
1,900.00	1,900.00	1,898.99	1,898.99	5.40	5.40	171.274	-19.74	3.03	19.97	9.17	10.80	1.849	Level 3
2,000.00	2,000.00	1,998.99	1,998.99	5.56	5.56	171.274	-19.74	3.03	19.97	8.86	11.12	1.797	Level 3, CC, ES, SF
2,100.00	2,100.00	2,098.32	2,098.30	5.71	5.77	169.602	-21.19	3.89	21.56	10.08	11.47	1.879	Level 3
2,200.00	2,200.00	2,197.40	2,197.24	5.86	5.98	165.768	-25.59	6.49	26.46	14.65	11.81	2.240	
2,300.00	2,300.00	2,296.01	2,295.48	6.01	6.20	161.808	-32.89	10.81	34.80	22.64	12.16	2.862	
2,400.00	2,400.00	2,393.92	2,392.68	6.16	6.45	158.670	-43.01	16.80	46.61	34.09	12.52	3.724	
2,500.00	2,500.00	2,490.92	2,488.52	6.30	6.70	156.409	-55.86	24.39	61.84	48.96	12.88	4.801	
2,600.00	2,600.00	2,586.79	2,582.70	6.44	6.98	154.817	-71.28	33.52	80.44	67.18	13.25	6.069	
2,700.00	2,700.00	2,681.35	2,674.95	6.58	7.27	153.687	-89.15	44.09	102.32	88.68	13.64	7.504	
2,800.00	2,800.00	2,774.42	2,765.03	6.71	7.58	152.870	-109.29	56.00	127.41	113.38	14.02	9.085	
2,900.00	2,900.00	2,865.85	2,852.72	6.85	7.90	152.267	-131.51	69.14	155.61	141.19	14.42	10.792	
3,000.00	3,000.00	2,956.66	2,939.00	6.98	8.17	151.807	-155.90	83.57	186.78	172.00	14.78	12.641	
3,100.00	3,100.00	3,051.35	3,028.66	7.12	8.47	151.453	-182.10	99.06	218.90	203.68	15.22	14.378	
3,200.00	3,200.00	3,146.04	3,118.33	7.25	8.79	151.190	-208.30	114.56	251.03	235.33	15.71	15.983	
3,300.00	3,300.00	3,240.74	3,208.00	7.37	9.13	150.986	-234.49	130.06	283.16	266.96	16.20	17.477	
3,400.00	3,400.00	3,335.43	3,297.67	7.50	9.48	150.824	-260.69	145.55	315.30	298.59	16.71	18.868	
3,500.00	3,500.00	3,430.12	3,387.33	7.63	9.84	150.692	-286.89	161.05	347.44	330.20	17.23	20.163	
3,600.00	3,599.98	3,525.08	3,477.25	7.80	10.21	60.867	-313.16	176.59	378.77	361.01	17.76	21.325	
3,700.00	3,699.84	3,620.47	3,567.58	7.98	10.60	60.885	-339.56	192.20	408.51	390.22	18.29	22.334	
3,800.00	3,799.45	3,716.20	3,658.23	8.16	11.00	61.275	-366.04	207.87	436.69	417.86	18.83	23.188	
3,900.00	3,898.70	3,812.14	3,749.08	8.36	11.40	61.973	-392.59	223.57	463.40	444.02	19.38	23.907	
4,000.00	3,997.47	3,908.18	3,840.02	8.59	11.81	62.935	-419.16	239.28	488.76	468.82	19.94	24.510	
4,100.00	4,095.62	4,004.19	3,930.93	8.83	12.23	64.127	-445.72	255.00	512.91	492.41	20.50	25.019	
4,200.00	4,193.08	4,100.07	4,021.73	9.02	12.66	65.624	-472.25	270.69	536.09	515.08	21.02	25.510	
4,300.00	4,290.34	4,195.90	4,112.47	9.26	13.08	67.376	-498.76	286.37	559.41	537.83	21.57	25.929	
4,400.00	4,387.59	4,291.73	4,203.22	9.50	13.52	68.990	-525.28	302.05	583.19	561.05	22.13	26.349	
4,500.00	4,484.84	4,387.56	4,293.96	9.77	13.96	70.480	-551.79	317.74	607.38	584.69	22.69	26.763	
4,600.00	4,582.09	4,483.39	4,384.70	10.05	14.40	71.858	-578.31	333.42	631.94	608.68	23.26	27.169	
4,700.00	4,679.34	4,579.23	4,475.45	10.35	14.84	73.134	-604.82	349.10	656.82	633.00	23.83	27.566	
4,800.00	4,776.59	4,675.06	4,566.19	10.66	15.29	74.318	-631.33	364.78	682.00	657.60	24.40	27.953	
4,900.00	4,873.84	4,770.89	4,656.94	10.99	15.75	75.419	-657.85	380.47	707.43	682.46	24.97	28.330	
5,000.00	4,971.09	4,866.72	4,747.68	11.32	16.20	76.445	-684.36	396.15	733.09	707.55	25.55	28.696	
5,100.00	5,068.34	4,962.55	4,838.43	11.67	16.66	77.402	-710.88	411.83	758.97	732.84	26.13	29.050	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 1 - (02) Bond 33-34 FED COM 211H - 211H - Plan 3												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
5,200.00	5,165.59	5,058.38	4,929.17	12.03	17.12	78.297	-737.39	427.51	785.03	758.32	26.71	29.393	
5,300.00	5,262.84	5,154.21	5,019.92	12.39	17.58	79.134	-763.90	443.20	811.25	783.96	27.29	29.724	
5,400.00	5,360.09	5,250.04	5,110.66	12.77	18.04	79.920	-790.42	458.88	837.64	809.76	27.88	30.044	
5,500.00	5,457.34	5,345.87	5,201.40	13.15	18.51	80.659	-816.93	474.56	864.16	835.69	28.47	30.352	
5,600.00	5,554.59	5,441.70	5,292.15	13.54	18.97	81.353	-843.44	490.25	890.81	861.74	29.06	30.649	
5,700.00	5,651.84	5,537.53	5,382.89	13.93	19.44	82.008	-869.96	505.93	917.57	887.91	29.66	30.935	
5,800.00	5,749.09	5,633.36	5,473.64	14.33	19.91	82.626	-896.47	521.61	944.44	914.18	30.26	31.210	
5,900.00	5,846.35	5,729.19	5,564.38	14.74	20.38	83.210	-922.99	537.29	971.41	940.55	30.86	31.475	
6,000.00	5,943.60	5,825.02	5,655.13	15.15	20.86	83.763	-949.50	552.98	998.47	967.00	31.47	31.729	
6,100.00	6,040.85	5,920.85	5,745.87	15.57	21.33	84.287	-976.01	568.66	1,025.61	993.53	32.08	31.974	
6,200.00	6,138.10	6,016.68	5,836.61	15.99	21.81	84.784	-1,002.53	584.34	1,052.82	1,020.14	32.69	32.209	
6,300.00	6,235.35	6,112.51	5,927.36	16.41	22.28	85.256	-1,029.04	600.02	1,080.11	1,046.81	33.30	32.435	
6,400.00	6,332.60	6,208.34	6,018.10	16.84	22.76	85.705	-1,055.56	615.71	1,107.46	1,073.54	33.92	32.652	
6,500.00	6,429.85	6,304.17	6,108.85	17.27	23.24	86.132	-1,082.07	631.39	1,134.87	1,100.34	34.54	32.861	
6,600.00	6,527.10	6,400.00	6,199.59	17.70	23.72	86.539	-1,108.58	647.07	1,162.34	1,127.18	35.16	33.062	
6,700.00	6,624.35	6,495.83	6,290.34	18.14	24.20	86.928	-1,135.10	662.76	1,189.86	1,154.07	35.79	33.248	
6,800.00	6,721.92	6,593.00	6,382.35	18.59	24.68	87.756	-1,161.98	678.66	1,217.49	1,181.08	36.41	33.437	
6,900.00	6,820.20	6,747.01	6,529.49	19.03	25.48	88.577	-1,201.04	701.76	1,242.93	1,205.55	37.38	33.252	
7,000.00	6,919.06	6,904.38	6,682.15	19.46	26.26	89.226	-1,233.87	721.18	1,263.89	1,225.66	38.23	33.062	
7,100.00	7,018.38	7,064.54	6,839.43	19.87	27.01	89.714	-1,259.83	736.53	1,280.19	1,241.24	38.95	32.869	
7,200.00	7,118.05	7,226.84	7,000.27	20.25	27.72	90.049	-1,278.37	747.50	1,291.68	1,252.16	39.53	32.679	
7,300.00	7,217.94	7,390.56	7,163.50	20.58	28.35	90.238	-1,289.10	753.85	1,298.29	1,258.35	39.94	32.507	
7,400.00	7,317.93	7,544.04	7,316.92	20.72	28.71	179.666	-1,291.90	755.50	1,300.00	1,259.93	40.07	32.442	
7,500.00	7,417.93	7,644.04	7,416.92	20.78	28.73	179.666	-1,291.90	755.50	1,300.00	1,259.82	40.18	32.352	
7,600.00	7,517.93	7,744.04	7,516.92	20.82	28.75	179.666	-1,291.90	755.50	1,300.00	1,259.72	40.28	32.271	
7,700.00	7,617.93	7,844.04	7,616.92	20.87	28.77	179.666	-1,291.90	755.50	1,300.00	1,259.62	40.39	32.190	
7,800.00	7,717.93	7,944.04	7,716.92	20.92	28.79	179.666	-1,291.90	755.50	1,300.00	1,259.51	40.49	32.109	
7,900.00	7,817.93	8,044.04	7,816.92	20.97	28.81	179.666	-1,291.90	755.50	1,300.00	1,259.41	40.59	32.028	
8,000.00	7,917.93	8,144.04	7,916.92	21.01	28.83	179.666	-1,291.90	755.50	1,300.00	1,259.31	40.69	31.948	
8,100.00	8,017.93	8,244.04	8,016.92	21.06	28.85	179.666	-1,291.90	755.50	1,300.00	1,259.21	40.79	31.868	
8,200.00	8,117.93	8,344.04	8,116.92	21.11	28.87	179.666	-1,291.90	755.50	1,300.00	1,259.11	40.90	31.788	
8,300.00	8,217.93	8,444.04	8,216.92	21.16	28.90	179.666	-1,291.90	755.50	1,300.00	1,259.00	41.00	31.708	
8,400.00	8,317.93	8,544.04	8,316.92	21.21	28.92	179.666	-1,291.90	755.50	1,300.00	1,258.90	41.10	31.628	
8,500.00	8,417.93	8,644.04	8,416.92	21.26	28.94	179.666	-1,291.90	755.50	1,300.00	1,258.80	41.21	31.549	
8,600.00	8,517.93	8,744.04	8,516.92	21.31	28.96	179.666	-1,291.90	755.50	1,300.00	1,258.69	41.31	31.469	
8,700.00	8,617.93	8,844.04	8,616.92	21.35	28.99	179.666	-1,291.90	755.50	1,300.00	1,258.59	41.41	31.390	
8,800.00	8,717.93	8,944.04	8,716.92	21.40	29.01	179.666	-1,291.90	755.50	1,300.00	1,258.48	41.52	31.311	
8,900.00	8,817.91	9,043.85	8,816.71	21.48	29.05	89.839	-1,291.90	756.27	1,300.00	1,258.39	41.62	31.238	
9,000.00	8,916.79	9,143.23	8,915.03	21.94	29.28	89.851	-1,291.86	769.98	1,300.00	1,258.22	41.78	31.117	
9,037.38	8,952.90	9,180.40	8,950.95	22.14	29.38	89.856	-1,291.83	779.45	1,300.00	1,258.11	41.89	31.033	
9,100.00	9,011.73	9,242.68	9,009.55	22.47	29.56	89.867	-1,291.77	800.47	1,300.00	1,257.91	42.09	30.883	
9,125.73	9,035.17	9,268.28	9,032.91	22.61	29.63	89.872	-1,291.74	810.94	1,300.00	1,257.78	42.22	30.791	
9,200.00	9,099.84	9,342.19	9,097.44	23.01	29.85	89.887	-1,291.63	846.87	1,300.00	1,257.39	42.61	30.512	
9,225.47	9,120.86	9,367.55	9,118.45	23.14	29.93	89.893	-1,291.59	861.07	1,300.00	1,257.21	42.79	30.381	
9,300.00	9,178.45	9,441.79	9,176.06	23.52	30.16	89.911	-1,291.45	907.81	1,300.00	1,256.64	43.36	29.983	
9,326.67	9,197.49	9,468.37	9,195.15	23.64	30.24	89.918	-1,291.39	926.31	1,300.00	1,256.37	43.63	29.798	
9,400.00	9,245.16	9,541.49	9,243.01	23.97	30.46	89.937	-1,291.23	981.52	1,300.00	1,255.59	44.41	29.276	
9,428.38	9,261.63	9,569.80	9,259.59	24.08	30.55	89.945	-1,291.16	1,004.46	1,300.00	1,255.21	44.79	29.027	
9,500.00	9,297.95	9,641.29	9,296.24	24.35	30.78	89.965	-1,290.98	1,065.79	1,300.00	1,254.20	45.79	28.389	
9,531.19	9,311.31	9,672.44	9,309.76	24.43	30.89	89.974	-1,290.89	1,093.85	1,300.00	1,253.68	46.32	28.065	
9,600.00	9,335.22	9,741.21	9,334.09	24.62	31.14	89.995	-1,290.70	1,158.12	1,300.00	1,252.46	47.54	27.348	
9,610.36	9,338.15	9,751.57	9,337.08	24.64	31.18	89.998	-1,290.67	1,168.04	1,300.00	1,252.26	47.74	27.231	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 1 - (02) Bond 33-34 FED COM 211H - 211H - Plan 3													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
9,700.00	9,355.84	9,841.24	9,355.37	24.78	31.56	90.024	-1,290.41	1,255.74	1,300.00	1,250.40	49.60	26.210	
9,758.28	9,360.81	9,899.56	9,359.81	24.81	31.84	90.001	-1,290.24	1,313.86	1,300.00	1,249.07	50.93	25.526	
9,800.00	9,360.00	9,941.34	9,360.00	24.83	32.07	90.045	-1,290.11	1,355.64	1,300.00	1,248.09	51.91	25.045	
9,800.00	9,360.00	9,941.34	9,360.00	24.83	32.07	90.045	-1,290.11	1,355.64	1,300.00	1,248.09	51.91	25.045	
9,900.00	9,360.00	10,041.34	9,360.00	24.86	32.73	90.045	-1,289.81	1,455.64	1,300.00	1,245.57	54.43	23.885	
9,900.00	9,360.00	10,041.34	9,360.00	24.86	32.73	90.045	-1,289.81	1,455.64	1,300.00	1,245.57	54.43	23.885	
10,000.00	9,360.00	10,141.34	9,360.00	24.94	33.54	90.045	-1,289.52	1,555.64	1,300.00	1,242.87	57.13	22.755	
10,000.00	9,360.00	10,141.34	9,360.00	24.94	33.54	90.045	-1,289.52	1,555.64	1,300.00	1,242.87	57.13	22.755	
10,100.00	9,360.00	10,241.34	9,360.00	26.19	34.50	90.045	-1,289.22	1,655.64	1,300.00	1,240.01	59.99	21.671	
10,100.00	9,360.00	10,241.34	9,360.00	26.19	34.50	90.045	-1,289.22	1,655.64	1,300.00	1,240.01	59.99	21.671	
10,200.00	9,360.00	10,341.34	9,360.00	27.89	35.59	90.045	-1,288.92	1,755.64	1,300.00	1,237.01	62.98	20.640	
10,200.00	9,360.00	10,341.34	9,360.00	27.89	35.59	90.045	-1,288.92	1,755.64	1,300.00	1,237.01	62.98	20.640	
10,300.00	9,360.00	10,441.34	9,360.00	29.64	36.81	90.045	-1,288.62	1,855.64	1,300.00	1,233.90	66.10	19.667	
10,300.00	9,360.00	10,441.34	9,360.00	29.64	36.81	90.045	-1,288.62	1,855.64	1,300.00	1,233.90	66.10	19.667	
10,400.00	9,360.00	10,541.34	9,360.00	31.43	38.13	90.045	-1,288.32	1,955.64	1,300.00	1,230.68	69.32	18.755	
10,400.00	9,360.00	10,541.34	9,360.00	31.43	38.13	90.045	-1,288.32	1,955.64	1,300.00	1,230.68	69.32	18.755	
10,500.00	9,360.00	10,641.34	9,360.00	33.25	39.54	90.045	-1,288.02	2,055.64	1,300.00	1,227.37	72.62	17.901	
10,500.00	9,360.00	10,641.34	9,360.00	33.25	39.54	90.045	-1,288.02	2,055.64	1,300.00	1,227.37	72.62	17.901	
10,600.00	9,360.00	10,741.34	9,360.00	35.10	41.01	90.045	-1,287.73	2,155.64	1,300.00	1,223.99	76.01	17.103	
10,600.00	9,360.00	10,741.34	9,360.00	35.10	41.01	90.045	-1,287.73	2,155.64	1,300.00	1,223.99	76.01	17.103	
10,700.00	9,360.00	10,841.34	9,360.00	36.98	42.56	90.045	-1,287.43	2,255.64	1,300.00	1,220.54	79.46	16.360	
10,700.00	9,360.00	10,841.34	9,360.00	36.98	42.56	90.045	-1,287.43	2,255.64	1,300.00	1,220.54	79.46	16.360	
10,800.00	9,360.00	10,941.34	9,360.00	38.87	44.15	90.045	-1,287.13	2,355.64	1,300.00	1,217.02	82.98	15.667	
10,800.00	9,360.00	10,941.34	9,360.00	38.87	44.15	90.045	-1,287.13	2,355.64	1,300.00	1,217.02	82.98	15.667	
10,900.00	9,360.00	11,041.34	9,360.00	40.78	45.79	90.045	-1,286.83	2,455.64	1,300.00	1,213.45	86.54	15.021	
10,900.00	9,360.00	11,041.34	9,360.00	40.78	45.79	90.045	-1,286.83	2,455.64	1,300.00	1,213.45	86.54	15.021	
11,000.00	9,360.00	11,141.34	9,360.00	42.71	47.47	90.045	-1,286.53	2,555.64	1,300.00	1,209.84	90.16	14.419	
11,000.00	9,360.00	11,141.34	9,360.00	42.71	47.47	90.045	-1,286.53	2,555.64	1,300.00	1,209.84	90.16	14.419	
11,100.00	9,360.00	11,241.34	9,360.00	44.65	49.18	90.045	-1,286.24	2,655.64	1,300.00	1,206.18	93.81	13.857	
11,100.00	9,360.00	11,241.34	9,360.00	44.65	49.18	90.045	-1,286.24	2,655.64	1,300.00	1,206.18	93.81	13.857	
11,200.00	9,360.00	11,341.34	9,360.00	46.60	50.92	90.045	-1,285.94	2,755.64	1,300.00	1,202.49	97.51	13.332	
11,200.00	9,360.00	11,341.34	9,360.00	46.60	50.92	90.045	-1,285.94	2,755.64	1,300.00	1,202.49	97.51	13.332	
11,300.00	9,360.00	11,441.34	9,360.00	48.56	52.69	90.045	-1,285.64	2,855.63	1,300.00	1,198.76	101.24	12.841	
11,300.00	9,360.00	11,441.34	9,360.00	48.56	52.69	90.045	-1,285.64	2,855.63	1,300.00	1,198.76	101.24	12.841	
11,400.00	9,360.00	11,541.34	9,360.00	50.53	54.48	90.045	-1,285.34	2,955.63	1,300.00	1,195.00	105.00	12.382	
11,400.00	9,360.00	11,541.34	9,360.00	50.53	54.48	90.045	-1,285.34	2,955.63	1,300.00	1,195.00	105.00	12.382	
11,500.00	9,360.00	11,641.34	9,360.00	52.50	56.29	90.045	-1,285.04	3,055.63	1,300.00	1,191.22	108.78	11.951	
11,500.00	9,360.00	11,641.34	9,360.00	52.50	56.29	90.045	-1,285.04	3,055.63	1,300.00	1,191.22	108.78	11.951	
11,600.00	9,360.00	11,741.34	9,360.00	54.49	58.11	90.045	-1,284.74	3,155.63	1,300.00	1,187.41	112.59	11.546	
11,600.00	9,360.00	11,741.34	9,360.00	54.49	58.11	90.045	-1,284.74	3,155.63	1,300.00	1,187.41	112.59	11.546	
11,700.00	9,360.00	11,841.34	9,360.00	56.48	59.96	90.045	-1,284.45	3,255.63	1,300.00	1,183.58	116.42	11.166	
11,700.00	9,360.00	11,841.34	9,360.00	56.48	59.96	90.045	-1,284.45	3,255.63	1,300.00	1,183.58	116.42	11.166	
11,800.00	9,360.00	11,941.34	9,360.00	58.47	61.82	90.045	-1,284.15	3,355.63	1,300.00	1,179.73	120.27	10.809	
11,800.00	9,360.00	11,941.34	9,360.00	58.47	61.82	90.045	-1,284.15	3,355.63	1,300.00	1,179.73	120.27	10.809	
11,900.00	9,360.00	12,041.34	9,360.00	60.47	63.69	90.045	-1,283.85	3,455.63	1,300.00	1,175.86	124.14	10.472	
11,900.00	9,360.00	12,041.34	9,360.00	60.47	63.69	90.045	-1,283.85	3,455.63	1,300.00	1,175.86	124.14	10.472	
12,000.00	9,360.00	12,141.34	9,360.00	62.48	65.58	90.045	-1,283.55	3,555.63	1,300.00	1,171.97	128.03	10.154	
12,000.00	9,360.00	12,141.34	9,360.00	62.48	65.58	90.045	-1,283.55	3,555.63	1,300.00	1,171.97	128.03	10.154	
12,100.00	9,360.00	12,241.34	9,360.00	64.49	67.47	90.045	-1,283.25	3,655.63	1,300.00	1,168.07	131.93	9.854	
12,100.00	9,360.00	12,241.34	9,360.00	64.49	67.47	90.045	-1,283.25	3,655.63	1,300.00	1,168.07	131.93	9.854	
12,200.00	9,360.00	12,341.34	9,360.00	66.50	69.38	90.045	-1,282.96	3,755.63	1,300.00	1,164.15	135.84	9.570	
12,200.00	9,360.00	12,341.34	9,360.00	66.50	69.38	90.045	-1,282.96	3,755.63	1,300.00	1,164.15	135.84	9.570	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 1 - (02) Bond 33-34 FED COM 211H - 211H - Plan 3													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
12,300.00	9,360.00	12,441.34	9,360.00	68.52	71.29	90.045	-1,282.66	3,855.63	1,300.00	1,160.23	139.77	9.301	
12,300.00	9,360.00	12,441.34	9,360.00	68.52	71.29	90.045	-1,282.66	3,855.63	1,300.00	1,160.23	139.77	9.301	
12,400.00	9,360.00	12,541.34	9,360.00	70.54	73.22	90.045	-1,282.36	3,955.63	1,300.00	1,156.29	143.71	9.046	
12,400.00	9,360.00	12,541.34	9,360.00	70.54	73.22	90.045	-1,282.36	3,955.63	1,300.00	1,156.29	143.71	9.046	
12,500.00	9,360.00	12,641.34	9,360.00	72.56	75.15	90.045	-1,282.06	4,055.63	1,300.00	1,152.34	147.66	8.804	
12,500.00	9,360.00	12,641.34	9,360.00	72.56	75.15	90.045	-1,282.06	4,055.63	1,300.00	1,152.34	147.66	8.804	
12,600.00	9,360.00	12,741.34	9,360.00	74.58	77.09	90.045	-1,281.76	4,155.63	1,300.00	1,148.38	151.62	8.574	
12,600.00	9,360.00	12,741.34	9,360.00	74.58	77.09	90.045	-1,281.76	4,155.63	1,300.00	1,148.38	151.62	8.574	
12,700.00	9,360.00	12,841.34	9,360.00	76.61	79.03	90.045	-1,281.46	4,255.63	1,300.00	1,144.41	155.59	8.355	
12,700.00	9,360.00	12,841.34	9,360.00	76.61	79.03	90.045	-1,281.46	4,255.63	1,300.00	1,144.41	155.59	8.355	
12,800.00	9,360.00	12,941.34	9,360.00	78.64	80.98	90.045	-1,281.17	4,355.63	1,300.00	1,140.43	159.57	8.147	
12,800.00	9,360.00	12,941.34	9,360.00	78.64	80.98	90.045	-1,281.17	4,355.63	1,300.00	1,140.43	159.57	8.147	
12,900.00	9,360.00	13,041.34	9,360.00	80.67	82.94	90.045	-1,280.87	4,455.63	1,300.00	1,136.44	163.56	7.948	
12,900.00	9,360.00	13,041.34	9,360.00	80.67	82.94	90.045	-1,280.87	4,455.63	1,300.00	1,136.44	163.56	7.948	
13,000.00	9,360.00	13,141.34	9,360.00	82.71	84.90	90.045	-1,280.57	4,555.63	1,300.00	1,132.45	167.55	7.759	
13,000.00	9,360.00	13,141.34	9,360.00	82.71	84.90	90.045	-1,280.57	4,555.63	1,300.00	1,132.45	167.55	7.759	
13,100.00	9,360.00	13,241.34	9,360.00	84.74	86.87	90.045	-1,280.27	4,655.63	1,300.00	1,128.45	171.55	7.578	
13,100.00	9,360.00	13,241.34	9,360.00	84.74	86.87	90.045	-1,280.27	4,655.63	1,300.00	1,128.45	171.55	7.578	
13,200.00	9,360.00	13,341.34	9,360.00	86.78	88.84	90.045	-1,279.97	4,755.63	1,300.00	1,124.43	175.56	7.405	
13,200.00	9,360.00	13,341.34	9,360.00	86.78	88.84	90.045	-1,279.97	4,755.63	1,300.00	1,124.43	175.56	7.405	
13,300.00	9,360.00	13,441.34	9,360.00	88.82	90.82	90.045	-1,279.68	4,855.63	1,300.00	1,120.43	179.57	7.240	
13,300.00	9,360.00	13,441.34	9,360.00	88.82	90.82	90.045	-1,279.68	4,855.63	1,300.00	1,120.43	179.57	7.240	
13,400.00	9,360.00	13,541.34	9,360.00	90.86	92.80	90.045	-1,279.38	4,955.63	1,300.00	1,116.41	183.59	7.081	
13,400.00	9,360.00	13,541.34	9,360.00	90.86	92.80	90.045	-1,279.38	4,955.63	1,300.00	1,116.41	183.59	7.081	
13,500.00	9,360.00	13,641.34	9,360.00	92.90	94.78	90.045	-1,279.08	5,055.63	1,300.00	1,112.39	187.61	6.929	
13,500.00	9,360.00	13,641.34	9,360.00	92.90	94.78	90.045	-1,279.08	5,055.63	1,300.00	1,112.39	187.61	6.929	
13,600.00	9,360.00	13,741.34	9,360.00	94.94	96.77	90.045	-1,278.78	5,155.62	1,300.00	1,108.36	191.64	6.784	
13,600.00	9,360.00	13,741.34	9,360.00	94.94	96.77	90.045	-1,278.78	5,155.62	1,300.00	1,108.36	191.64	6.784	
13,700.00	9,360.00	13,841.34	9,360.00	96.98	98.76	90.045	-1,278.48	5,255.62	1,300.00	1,104.33	195.67	6.644	
13,700.00	9,360.00	13,841.34	9,360.00	96.98	98.76	90.045	-1,278.48	5,255.62	1,300.00	1,104.33	195.67	6.644	
13,800.00	9,360.00	13,941.34	9,360.00	99.03	100.75	90.045	-1,278.18	5,355.62	1,300.00	1,100.29	199.71	6.509	
13,800.00	9,360.00	13,941.34	9,360.00	99.03	100.75	90.045	-1,278.18	5,355.62	1,300.00	1,100.29	199.71	6.509	
13,900.00	9,360.00	14,041.34	9,360.00	101.07	102.75	90.045	-1,277.89	5,455.62	1,300.00	1,096.25	203.75	6.380	
13,900.00	9,360.00	14,041.34	9,360.00	101.07	102.75	90.045	-1,277.89	5,455.62	1,300.00	1,096.25	203.75	6.380	
14,000.00	9,360.00	14,141.34	9,360.00	103.12	104.75	90.045	-1,277.59	5,555.62	1,300.00	1,092.20	207.80	6.256	
14,000.00	9,360.00	14,141.34	9,360.00	103.12	104.75	90.045	-1,277.59	5,555.62	1,300.00	1,092.20	207.80	6.256	
14,100.00	9,360.00	14,241.34	9,360.00	105.17	106.75	90.045	-1,277.29	5,655.62	1,300.00	1,088.15	211.85	6.137	
14,100.00	9,360.00	14,241.34	9,360.00	105.17	106.75	90.045	-1,277.29	5,655.62	1,300.00	1,088.15	211.85	6.137	
14,200.00	9,360.00	14,341.34	9,360.00	107.21	108.76	90.045	-1,276.99	5,755.62	1,300.00	1,084.10	215.90	6.021	
14,200.00	9,360.00	14,341.34	9,360.00	107.21	108.76	90.045	-1,276.99	5,755.62	1,300.00	1,084.10	215.90	6.021	
14,300.00	9,360.00	14,441.34	9,360.00	109.26	110.76	90.045	-1,276.69	5,855.62	1,300.00	1,080.04	219.95	5.910	
14,300.00	9,360.00	14,441.34	9,360.00	109.26	110.76	90.045	-1,276.69	5,855.62	1,300.00	1,080.04	219.95	5.910	
14,400.00	9,360.00	14,541.34	9,360.00	111.31	112.77	90.045	-1,276.40	5,955.62	1,300.00	1,075.99	224.01	5.803	
14,400.00	9,360.00	14,541.34	9,360.00	111.31	112.77	90.045	-1,276.40	5,955.62	1,300.00	1,075.99	224.01	5.803	
14,500.00	9,360.00	14,641.34	9,360.00	113.36	114.78	90.045	-1,276.10	6,055.62	1,300.00	1,071.92	228.07	5.700	
14,500.00	9,360.00	14,641.34	9,360.00	113.36	114.78	90.045	-1,276.10	6,055.62	1,300.00	1,071.92	228.07	5.700	
14,600.00	9,360.00	14,741.34	9,360.00	115.42	116.80	90.045	-1,275.80	6,155.62	1,300.00	1,067.86	232.14	5.600	
14,600.00	9,360.00	14,741.34	9,360.00	115.42	116.80	90.045	-1,275.80	6,155.62	1,300.00	1,067.86	232.14	5.600	
14,700.00	9,360.00	14,841.34	9,360.00	117.47	118.81	90.045	-1,275.50	6,255.62	1,300.00	1,063.79	236.21	5.504	
14,700.00	9,360.00	14,841.34	9,360.00	117.47	118.81	90.045	-1,275.50	6,255.62	1,300.00	1,063.79	236.21	5.504	
14,800.00	9,360.00	14,941.34	9,360.00	119.52	120.83	90.045	-1,275.20	6,355.62	1,300.00	1,059.72	240.27	5.410	
14,800.00	9,360.00	14,941.34	9,360.00	119.52	120.83	90.045	-1,275.20	6,355.62	1,300.00	1,059.72	240.27	5.410	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 1 - (02) Bond 33-34 FED COM 211H - 211H - Plan 3													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
14,900.00	9,360.00	15,041.34	9,360.00	121.57	122.85	90.045	-1,274.90	6,455.62	1,300.00	1,055.65	244.35	5.320	
14,900.00	9,360.00	15,041.34	9,360.00	121.57	122.85	90.045	-1,274.90	6,455.62	1,300.00	1,055.65	244.35	5.320	
15,000.00	9,360.00	15,141.34	9,360.00	123.63	124.87	90.045	-1,274.61	6,555.62	1,300.00	1,051.58	248.42	5.233	
15,000.00	9,360.00	15,141.34	9,360.00	123.63	124.87	90.045	-1,274.61	6,555.62	1,300.00	1,051.58	248.42	5.233	
15,100.00	9,360.00	15,241.34	9,360.00	125.68	126.89	90.045	-1,274.31	6,655.62	1,300.00	1,047.50	252.50	5.149	
15,100.00	9,360.00	15,241.34	9,360.00	125.68	126.89	90.045	-1,274.31	6,655.62	1,300.00	1,047.50	252.50	5.149	
15,200.00	9,360.00	15,341.34	9,360.00	127.74	128.92	90.045	-1,274.01	6,755.62	1,300.00	1,043.42	256.57	5.067	
15,200.00	9,360.00	15,341.34	9,360.00	127.74	128.92	90.045	-1,274.01	6,755.62	1,300.00	1,043.42	256.57	5.067	
15,300.00	9,360.00	15,441.34	9,360.00	129.79	130.94	90.045	-1,273.71	6,855.62	1,300.00	1,039.34	260.65	4.987	
15,300.00	9,360.00	15,441.34	9,360.00	129.79	130.94	90.045	-1,273.71	6,855.62	1,300.00	1,039.34	260.65	4.987	
15,400.00	9,360.00	15,541.34	9,360.00	131.85	132.97	90.045	-1,273.41	6,955.62	1,300.00	1,035.26	264.74	4.911	
15,400.00	9,360.00	15,541.34	9,360.00	131.85	132.97	90.045	-1,273.41	6,955.62	1,300.00	1,035.26	264.74	4.911	
15,500.00	9,360.00	15,641.34	9,360.00	133.90	134.99	90.045	-1,273.12	7,055.62	1,300.00	1,031.18	268.82	4.836	
15,500.00	9,360.00	15,641.34	9,360.00	133.90	134.99	90.045	-1,273.12	7,055.62	1,300.00	1,031.18	268.82	4.836	
15,600.00	9,360.00	15,741.34	9,360.00	135.96	137.02	90.045	-1,272.82	7,155.62	1,300.00	1,027.09	272.90	4.764	
15,600.00	9,360.00	15,741.34	9,360.00	135.96	137.02	90.045	-1,272.82	7,155.62	1,300.00	1,027.09	272.90	4.764	
15,700.00	9,360.00	15,841.34	9,360.00	138.02	139.05	90.045	-1,272.52	7,255.62	1,300.00	1,023.01	276.99	4.693	
15,700.00	9,360.00	15,841.34	9,360.00	138.02	139.05	90.045	-1,272.52	7,255.62	1,300.00	1,023.01	276.99	4.693	
15,800.00	9,360.00	15,941.34	9,360.00	140.07	141.08	90.045	-1,272.22	7,355.61	1,300.00	1,018.92	281.08	4.625	
15,800.00	9,360.00	15,941.34	9,360.00	140.07	141.08	90.045	-1,272.22	7,355.61	1,300.00	1,018.92	281.08	4.625	
15,900.00	9,360.00	16,041.34	9,360.00	142.13	143.12	90.045	-1,271.92	7,455.61	1,300.00	1,014.83	285.17	4.559	
15,900.00	9,360.00	16,041.34	9,360.00	142.13	143.12	90.045	-1,271.92	7,455.61	1,300.00	1,014.83	285.17	4.559	
16,000.00	9,360.00	16,141.34	9,360.00	144.19	145.15	90.045	-1,271.62	7,555.61	1,300.00	1,010.74	289.26	4.494	
16,000.00	9,360.00	16,141.34	9,360.00	144.19	145.15	90.045	-1,271.62	7,555.61	1,300.00	1,010.74	289.26	4.494	
16,100.00	9,360.00	16,241.34	9,360.00	146.25	147.18	90.045	-1,271.33	7,655.61	1,300.00	1,006.64	293.35	4.431	
16,100.00	9,360.00	16,241.34	9,360.00	146.25	147.18	90.045	-1,271.33	7,655.61	1,300.00	1,006.64	293.35	4.431	
16,200.00	9,360.00	16,341.34	9,360.00	148.31	149.22	90.045	-1,271.03	7,755.61	1,300.00	1,002.55	297.45	4.371	
16,200.00	9,360.00	16,341.34	9,360.00	148.31	149.22	90.045	-1,271.03	7,755.61	1,300.00	1,002.55	297.45	4.371	
16,300.00	9,360.00	16,441.34	9,360.00	150.37	151.26	90.045	-1,270.73	7,855.61	1,300.00	998.46	301.54	4.311	
16,300.00	9,360.00	16,441.34	9,360.00	150.37	151.26	90.045	-1,270.73	7,855.61	1,300.00	998.46	301.54	4.311	
16,400.00	9,360.00	16,541.34	9,360.00	152.42	153.29	90.045	-1,270.43	7,955.61	1,300.00	994.36	305.64	4.253	
16,400.00	9,360.00	16,541.34	9,360.00	152.42	153.29	90.045	-1,270.43	7,955.61	1,300.00	994.36	305.64	4.253	
16,500.00	9,360.00	16,641.34	9,360.00	154.48	155.33	90.045	-1,270.13	8,055.61	1,300.00	990.26	309.74	4.197	
16,500.00	9,360.00	16,641.34	9,360.00	154.48	155.33	90.045	-1,270.13	8,055.61	1,300.00	990.26	309.74	4.197	
16,600.00	9,360.00	16,741.34	9,360.00	156.54	157.37	90.045	-1,269.84	8,155.61	1,300.00	986.16	313.84	4.142	
16,600.00	9,360.00	16,741.34	9,360.00	156.54	157.37	90.045	-1,269.84	8,155.61	1,300.00	986.16	313.84	4.142	
16,700.00	9,360.00	16,841.34	9,360.00	158.60	159.41	90.045	-1,269.54	8,255.61	1,300.00	982.06	317.94	4.089	
16,700.00	9,360.00	16,841.34	9,360.00	158.60	159.41	90.045	-1,269.54	8,255.61	1,300.00	982.06	317.94	4.089	
16,800.00	9,360.00	16,941.34	9,360.00	160.66	161.45	90.045	-1,269.24	8,355.61	1,300.00	977.96	322.04	4.037	
16,800.00	9,360.00	16,941.34	9,360.00	160.66	161.45	90.045	-1,269.24	8,355.61	1,300.00	977.96	322.04	4.037	
16,900.00	9,360.00	17,041.34	9,360.00	162.73	163.49	90.045	-1,268.94	8,455.61	1,300.00	973.86	326.14	3.986	
16,900.00	9,360.00	17,041.34	9,360.00	162.73	163.49	90.045	-1,268.94	8,455.61	1,300.00	973.86	326.14	3.986	
17,000.00	9,360.00	17,141.34	9,360.00	164.79	165.53	90.045	-1,268.64	8,555.61	1,300.00	969.76	330.24	3.937	
17,000.00	9,360.00	17,141.34	9,360.00	164.79	165.53	90.045	-1,268.64	8,555.61	1,300.00	969.76	330.24	3.937	
17,100.00	9,360.00	17,241.34	9,360.00	166.85	167.57	90.045	-1,268.34	8,655.61	1,300.00	965.65	334.34	3.888	
17,100.00	9,360.00	17,241.34	9,360.00	166.85	167.57	90.045	-1,268.34	8,655.61	1,300.00	965.65	334.34	3.888	
17,200.00	9,360.00	17,341.34	9,360.00	168.91	169.62	90.045	-1,268.05	8,755.61	1,300.00	961.55	338.45	3.841	
17,200.00	9,360.00	17,341.34	9,360.00	168.91	169.62	90.045	-1,268.05	8,755.61	1,300.00	961.55	338.45	3.841	
17,300.00	9,360.00	17,441.34	9,360.00	170.97	171.66	90.045	-1,267.75	8,855.61	1,300.00	957.45	342.55	3.795	
17,300.00	9,360.00	17,441.34	9,360.00	170.97	171.66	90.045	-1,267.75	8,855.61	1,300.00	957.45	342.55	3.795	
17,400.00	9,360.00	17,541.34	9,360.00	173.03	173.70	90.045	-1,267.45	8,955.61	1,300.00	953.34	346.66	3.750	
17,400.00	9,360.00	17,541.34	9,360.00	173.03	173.70	90.045	-1,267.45	8,955.61	1,300.00	953.34	346.66	3.750	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 1 - (02) Bond 33-34 FED COM 211H - 211H - Plan 3													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
17,500.00	9,360.00	17,641.34	9,360.00	175.09	175.75	90.045	-1,267.15	9,055.61	1,300.00	949.23	350.77	3.706	
17,500.00	9,360.00	17,641.34	9,360.00	175.09	175.75	90.045	-1,267.15	9,055.61	1,300.00	949.23	350.77	3.706	
17,600.00	9,360.00	17,741.34	9,360.00	177.16	177.79	90.045	-1,266.85	9,155.61	1,300.00	945.12	354.88	3.663	
17,600.00	9,360.00	17,741.34	9,360.00	177.16	177.79	90.045	-1,266.85	9,155.61	1,300.00	945.12	354.88	3.663	
17,700.00	9,360.00	17,841.34	9,360.00	179.22	179.84	90.045	-1,266.56	9,255.61	1,300.00	941.02	358.98	3.621	
17,700.00	9,360.00	17,841.34	9,360.00	179.22	179.84	90.045	-1,266.56	9,255.61	1,300.00	941.02	358.98	3.621	
17,800.00	9,360.00	17,941.34	9,360.00	181.28	181.89	90.045	-1,266.26	9,355.61	1,300.00	936.91	363.09	3.580	
17,800.00	9,360.00	17,941.34	9,360.00	181.28	181.89	90.045	-1,266.26	9,355.61	1,300.00	936.91	363.09	3.580	
17,900.00	9,360.00	18,041.34	9,360.00	183.34	183.93	90.045	-1,265.96	9,455.61	1,300.00	932.80	367.20	3.540	
17,900.00	9,360.00	18,041.34	9,360.00	183.34	183.93	90.045	-1,265.96	9,455.61	1,300.00	932.80	367.20	3.540	
18,000.00	9,360.00	18,141.34	9,360.00	185.41	185.98	90.045	-1,265.66	9,555.61	1,300.00	928.69	371.31	3.501	
18,000.00	9,360.00	18,141.34	9,360.00	185.41	185.98	90.045	-1,265.66	9,555.61	1,300.00	928.69	371.31	3.501	
18,100.00	9,360.00	18,241.34	9,360.00	187.47	188.03	90.045	-1,265.36	9,655.60	1,300.00	924.58	375.42	3.463	
18,100.00	9,360.00	18,241.34	9,360.00	187.47	188.03	90.045	-1,265.36	9,655.61	1,300.00	924.58	375.42	3.463	
18,200.00	9,360.00	18,341.34	9,360.00	189.53	190.08	90.045	-1,265.06	9,755.60	1,300.00	920.46	379.54	3.425	
18,200.00	9,360.00	18,341.34	9,360.00	189.53	190.08	90.045	-1,265.06	9,755.61	1,300.00	920.46	379.54	3.425	
18,300.00	9,360.00	18,441.34	9,360.00	191.59	192.13	90.045	-1,264.77	9,855.60	1,300.00	916.35	383.65	3.389	
18,300.00	9,360.00	18,441.34	9,360.00	191.59	192.13	90.045	-1,264.77	9,855.61	1,300.00	916.35	383.65	3.389	
18,400.00	9,360.00	18,541.34	9,360.00	193.66	194.18	90.045	-1,264.47	9,955.60	1,300.00	912.24	387.76	3.353	
18,400.00	9,360.00	18,541.34	9,360.00	193.66	194.18	90.045	-1,264.47	9,955.61	1,300.00	912.24	387.76	3.353	
18,500.00	9,360.00	18,641.34	9,360.00	195.72	196.23	90.045	-1,264.17	10,055.60	1,300.00	908.13	391.87	3.317	
18,500.00	9,360.00	18,641.34	9,360.00	195.72	196.23	90.045	-1,264.17	10,055.60	1,300.00	908.13	391.87	3.317	
18,600.00	9,360.00	18,741.34	9,360.00	197.78	198.28	90.045	-1,263.87	10,155.60	1,300.00	904.01	395.99	3.283	
18,600.00	9,360.00	18,741.34	9,360.00	197.78	198.28	90.045	-1,263.87	10,155.60	1,300.00	904.01	395.99	3.283	
18,700.00	9,360.00	18,841.34	9,360.00	199.85	200.33	90.045	-1,263.57	10,255.60	1,300.00	899.90	400.10	3.249	
18,700.00	9,360.00	18,841.34	9,360.00	199.85	200.33	90.045	-1,263.57	10,255.60	1,300.00	899.90	400.10	3.249	
18,800.00	9,360.00	18,941.34	9,360.00	201.91	202.38	90.045	-1,263.28	10,355.60	1,300.00	895.78	404.22	3.216	
18,800.00	9,360.00	18,941.34	9,360.00	201.91	202.38	90.045	-1,263.28	10,355.60	1,300.00	895.78	404.22	3.216	
18,900.00	9,360.00	19,041.34	9,360.00	203.98	204.43	90.045	-1,262.98	10,455.60	1,300.00	891.67	408.33	3.184	
18,900.00	9,360.00	19,041.34	9,360.00	203.98	204.43	90.045	-1,262.98	10,455.60	1,300.00	891.67	408.33	3.184	
19,000.00	9,360.00	19,141.34	9,360.00	206.04	206.48	90.045	-1,262.68	10,555.60	1,300.00	887.55	412.45	3.152	
19,000.00	9,360.00	19,141.34	9,360.00	206.04	206.48	90.045	-1,262.68	10,555.60	1,300.00	887.55	412.45	3.152	
19,100.00	9,360.00	19,241.34	9,360.00	208.10	208.53	90.045	-1,262.38	10,655.60	1,300.00	883.43	416.57	3.121	
19,100.00	9,360.00	19,241.34	9,360.00	208.10	208.53	90.045	-1,262.38	10,655.60	1,300.00	883.43	416.57	3.121	
19,200.00	9,360.00	19,341.34	9,360.00	210.17	210.58	90.045	-1,262.08	10,755.60	1,300.00	879.32	420.68	3.090	
19,200.00	9,360.00	19,341.34	9,360.00	210.17	210.58	90.045	-1,262.08	10,755.60	1,300.00	879.32	420.68	3.090	
19,300.00	9,360.00	19,441.34	9,360.00	212.23	212.64	90.045	-1,261.78	10,855.60	1,300.00	875.20	424.80	3.060	
19,300.00	9,360.00	19,441.34	9,360.00	212.23	212.64	90.045	-1,261.78	10,855.60	1,300.00	875.20	424.80	3.060	
19,400.00	9,360.00	19,541.34	9,360.00	214.30	214.69	90.045	-1,261.49	10,955.60	1,300.00	871.08	428.92	3.031	
19,400.00	9,360.00	19,541.34	9,360.00	214.30	214.69	90.045	-1,261.49	10,955.60	1,300.00	871.08	428.92	3.031	
19,500.00	9,360.00	19,641.34	9,360.00	216.36	216.74	90.045	-1,261.19	11,055.60	1,300.00	866.96	433.04	3.002	
19,500.00	9,360.00	19,641.34	9,360.00	216.36	216.74	90.045	-1,261.19	11,055.60	1,300.00	866.96	433.04	3.002	
19,600.00	9,360.00	19,741.34	9,360.00	218.43	218.80	90.045	-1,260.89	11,155.60	1,300.00	862.85	437.16	2.974	
19,600.00	9,360.00	19,741.34	9,360.00	218.43	218.80	90.045	-1,260.89	11,155.60	1,300.00	862.85	437.16	2.974	
19,700.00	9,360.00	19,841.34	9,360.00	220.49	220.85	90.045	-1,260.59	11,255.60	1,300.00	858.73	441.27	2.946	
19,700.00	9,360.00	19,841.34	9,360.00	220.49	220.85	90.045	-1,260.59	11,255.60	1,300.00	858.73	441.27	2.946	
19,800.00	9,360.00	19,941.34	9,360.00	222.56	222.91	90.045	-1,260.29	11,355.60	1,300.00	854.61	445.39	2.919	
19,800.00	9,360.00	19,941.34	9,360.00	222.56	222.91	90.045	-1,260.29	11,355.60	1,300.00	854.61	445.39	2.919	
19,900.00	9,360.00	20,041.34	9,360.00	224.62	224.96	90.045	-1,260.00	11,455.60	1,300.00	850.49	449.51	2.892	
19,900.00	9,360.00	20,041.34	9,360.00	224.62	224.96	90.045	-1,260.00	11,455.60	1,300.00	850.49	449.51	2.892	
20,000.00	9,360.00	20,141.34	9,360.00	226.69	227.01	90.045	-1,259.70	11,555.60	1,300.00	846.37	453.63	2.866	
20,000.00	9,360.00	20,141.34	9,360.00	226.69	227.01	90.045	-1,259.70	11,555.60	1,300.00	846.37	453.63	2.866	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

Offset Design: Bond South Pad - Phase 1 - (02) Bond 33-34 FED COM 211H - 211H - Plan 3													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		
20,100.00	9,360.00	20,241.34	9,360.00	228.75	229.07	90.045	-1,259.40	11,655.60	1,300.00	842.25	457.75	2.840		
20,100.02	9,360.00	20,241.36	9,360.00	228.75	229.07	90.045	-1,259.40	11,655.61	1,300.00	842.25	457.75	2.840		
20,181.28	9,360.00	20,322.62	9,360.00	230.43	230.74	90.045	-1,259.16	11,736.88	1,300.00	838.90	461.10	2.819		



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (01) Bond 33-34 FED COM #306H - #306H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	171.422	-316.61	47.76	320.23				
100.00	100.00	95.13	95.13	0.79	0.75	171.422	-316.61	47.76	320.19	318.66	1.53	208.863	
200.00	200.00	195.13	195.13	1.45	1.41	171.422	-316.61	47.76	320.19	317.33	2.86	111.955	
300.00	300.00	295.13	295.13	1.89	1.87	171.422	-316.61	47.76	320.19	316.43	3.76	85.120	
400.00	400.00	395.13	395.13	2.25	2.24	171.422	-316.61	47.76	320.19	315.71	4.49	71.317	
500.00	500.00	495.13	495.13	2.57	2.55	171.422	-316.61	47.76	320.19	315.07	5.12	62.537	
600.00	600.00	595.13	595.13	2.85	2.84	171.422	-316.61	47.76	320.19	314.51	5.69	56.318	
700.00	700.00	695.13	695.13	3.11	3.10	171.422	-316.61	47.76	320.19	313.99	6.20	51.613	
800.00	800.00	795.13	795.13	3.35	3.34	171.422	-316.61	47.76	320.19	313.51	6.69	47.891	
900.00	900.00	895.13	895.13	3.58	3.56	171.422	-316.61	47.76	320.19	313.06	7.14	44.850	
1,000.00	1,000.00	995.13	995.13	3.79	3.78	171.422	-316.61	47.76	320.19	312.63	7.57	42.303	
1,100.00	1,100.00	1,095.13	1,095.13	3.99	3.98	171.422	-316.61	47.76	320.19	312.22	7.98	40.130	
1,200.00	1,200.00	1,195.13	1,195.13	4.19	4.18	171.422	-316.61	47.76	320.19	311.82	8.37	38.246	
1,300.00	1,300.00	1,295.13	1,295.13	4.38	4.37	171.422	-316.61	47.76	320.19	311.44	8.75	36.591	
1,400.00	1,400.00	1,395.13	1,395.13	4.56	4.55	171.422	-316.61	47.76	320.19	311.08	9.12	35.124	
1,500.00	1,500.00	1,495.13	1,495.13	4.74	4.73	171.422	-316.61	47.76	320.19	310.72	9.47	33.809	
1,600.00	1,600.00	1,595.13	1,595.13	4.91	4.90	171.422	-316.61	47.76	320.19	310.38	9.81	32.623	
1,700.00	1,700.00	1,695.13	1,695.13	5.08	5.07	171.422	-316.61	47.76	320.19	310.04	10.15	31.546	
1,800.00	1,800.00	1,795.13	1,795.13	5.24	5.23	171.422	-316.61	47.76	320.19	309.72	10.48	30.561	
1,900.00	1,900.00	1,895.13	1,895.13	5.40	5.39	171.422	-316.61	47.76	320.19	309.40	10.80	29.656	
2,000.00	2,000.00	1,995.13	1,995.13	5.56	5.55	171.422	-316.61	47.76	320.19	309.09	11.11	28.821 CC, ES	
2,100.00	2,100.00	2,086.13	2,086.11	5.71	5.74	171.338	-317.74	48.40	321.53	310.08	11.45	28.091	
2,200.00	2,200.00	2,176.49	2,176.38	5.86	5.94	171.076	-321.33	50.46	325.81	314.04	11.77	27.690	
2,300.00	2,300.00	2,266.50	2,266.12	6.01	6.14	170.649	-327.37	53.91	333.04	320.96	12.09	27.558	
2,400.00	2,400.00	2,355.99	2,355.08	6.16	6.35	170.081	-335.79	58.72	343.23	330.82	12.41	27.660	
2,500.00	2,500.00	2,444.79	2,443.00	6.30	6.58	169.398	-346.53	64.86	356.38	343.64	12.74	27.971	
2,600.00	2,600.00	2,532.73	2,529.67	6.44	6.82	168.633	-359.49	72.27	372.48	359.40	13.08	28.474	
2,700.00	2,700.00	2,619.67	2,614.85	6.58	7.08	167.814	-374.57	80.89	391.52	378.09	13.43	29.154	
2,800.00	2,800.00	2,705.47	2,698.36	6.71	7.34	166.968	-391.64	90.65	413.48	399.70	13.78	30.012	
2,900.00	2,900.00	2,801.64	2,791.59	6.85	7.62	166.051	-412.15	102.37	437.11	422.91	14.20	30.780	
3,000.00	3,000.00	2,898.58	2,885.56	6.98	7.90	165.221	-432.82	114.19	460.85	446.22	14.63	31.510	
3,100.00	3,100.00	2,995.52	2,979.52	7.12	8.20	164.472	-453.49	126.00	484.66	469.59	15.07	32.166	
3,200.00	3,200.00	3,092.45	3,073.49	7.25	8.51	163.793	-474.16	137.82	508.55	493.02	15.53	32.755	
3,300.00	3,300.00	3,189.39	3,167.46	7.37	8.84	163.175	-494.84	149.63	532.50	516.50	16.00	33.286	
3,400.00	3,400.00	3,286.32	3,261.42	7.50	9.18	162.610	-515.51	161.45	556.50	540.02	16.48	33.765	
3,500.00	3,500.00	3,383.26	3,355.39	7.63	9.53	162.092	-536.18	173.27	580.55	563.57	16.98	34.196	
3,600.00	3,599.98	3,480.39	3,449.54	7.80	9.90	71.933	-556.89	185.11	604.12	586.65	17.47	34.576	
3,700.00	3,699.84	3,577.81	3,543.98	7.98	10.27	71.513	-577.67	196.98	626.65	608.68	17.96	34.888	
3,800.00	3,799.45	3,675.42	3,638.59	8.16	10.66	71.414	-598.48	208.88	648.10	629.64	18.46	35.112	
3,900.00	3,898.70	3,773.08	3,733.27	8.36	11.05	71.605	-619.31	220.78	668.51	649.55	18.96	35.258	
4,000.00	3,997.47	3,870.69	3,827.88	8.59	11.45	72.059	-640.12	232.68	687.95	668.48	19.47	35.341	
4,100.00	4,095.62	3,968.12	3,922.33	8.83	11.85	72.752	-660.90	244.56	706.51	686.54	19.97	35.374	
4,200.00	4,193.08	4,065.27	4,016.51	9.02	12.26	73.746	-681.62	256.40	724.38	703.94	20.44	35.446	
4,300.00	4,290.34	4,162.33	4,110.59	9.26	12.67	75.004	-702.32	268.23	742.34	721.39	20.95	35.441	
4,400.00	4,387.59	4,259.39	4,204.67	9.50	13.09	76.203	-723.01	280.06	760.63	739.18	21.46	35.451	
4,500.00	4,484.84	4,356.44	4,298.75	9.77	13.51	77.347	-743.71	291.89	779.24	757.27	21.97	35.470	
4,600.00	4,582.09	4,453.50	4,392.84	10.05	13.93	78.439	-764.41	303.72	798.15	775.66	22.49	35.497	
4,700.00	4,679.34	4,550.55	4,486.92	10.35	14.36	79.480	-785.10	315.55	817.32	794.32	23.00	35.530	
4,800.00	4,776.59	4,647.61	4,581.00	10.66	14.79	80.475	-805.80	327.39	836.75	813.23	23.52	35.569	
4,900.00	4,873.84	4,744.67	4,675.09	10.99	15.22	81.425	-826.50	339.22	856.42	832.37	24.05	35.613	
5,000.00	4,971.09	4,841.72	4,769.17	11.32	15.66	82.333	-847.20	351.05	876.30	851.73	24.57	35.662	
5,100.00	5,068.34	4,938.78	4,863.25	11.67	16.10	83.202	-867.89	362.88	896.40	871.30	25.10	35.713	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (01) Bond 33-34 FED COM #306H - #306H - Plan 1												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
5,200.00	5,165.59	5,035.83	4,957.33	12.03	16.54	84.033	-888.59	374.71	916.68	891.05	25.63	35.767	
5,300.00	5,262.84	5,132.89	5,051.42	12.39	16.98	84.828	-909.29	386.54	937.15	910.99	26.16	35.823	
5,400.00	5,360.09	5,229.95	5,145.50	12.77	17.43	85.589	-929.98	398.37	957.78	931.09	26.69	35.880	
5,500.00	5,457.34	5,327.00	5,239.58	13.15	17.88	86.319	-950.68	410.20	978.57	951.34	27.23	35.938	
5,600.00	5,554.59	5,424.06	5,333.66	13.54	18.33	87.019	-971.38	422.03	999.51	971.74	27.77	35.996	
5,700.00	5,651.84	5,521.11	5,427.75	13.93	18.78	87.691	-992.08	433.86	1,020.59	992.28	28.31	36.053	
5,800.00	5,749.09	5,618.17	5,521.83	14.33	19.23	88.335	-1,012.77	445.69	1,041.80	1,012.95	28.85	36.111	
5,900.00	5,846.35	5,715.23	5,615.91	14.74	19.68	88.955	-1,033.47	457.52	1,063.13	1,033.74	29.39	36.168	
6,000.00	5,943.60	5,812.28	5,709.99	15.15	20.13	89.550	-1,054.17	469.35	1,084.58	1,054.64	29.94	36.223	
6,100.00	6,040.85	5,909.34	5,804.08	15.57	20.59	90.122	-1,074.86	481.19	1,106.13	1,075.64	30.49	36.278	
6,200.00	6,138.10	6,006.40	5,898.16	15.99	21.05	90.672	-1,095.56	493.02	1,127.79	1,096.75	31.04	36.331	
6,300.00	6,235.35	6,103.45	5,992.24	16.41	21.50	91.202	-1,116.26	504.85	1,149.54	1,117.95	31.60	36.383	
6,400.00	6,332.60	6,200.51	6,086.33	16.84	21.96	91.713	-1,136.96	516.68	1,171.39	1,139.24	32.15	36.433	
6,500.00	6,429.85	6,297.56	6,180.41	17.27	22.42	92.205	-1,157.65	528.51	1,193.32	1,160.61	32.71	36.482	
6,600.00	6,527.10	6,394.62	6,274.49	17.70	22.88	92.679	-1,178.35	540.34	1,215.33	1,182.06	33.27	36.529	
6,700.00	6,624.35	6,491.68	6,368.57	18.14	23.34	93.137	-1,199.05	552.17	1,237.42	1,203.58	33.84	36.566	
6,800.00	6,721.92	6,598.49	6,472.14	18.59	23.84	93.956	-1,221.72	565.13	1,259.43	1,225.00	34.43	36.574	
6,900.00	6,820.20	6,752.39	6,622.58	19.03	24.57	94.805	-1,249.84	581.20	1,278.41	1,243.16	35.25	36.268	
7,000.00	6,919.06	6,908.44	6,776.67	19.46	25.28	95.516	-1,271.14	593.38	1,292.78	1,256.83	35.95	35.958	
7,100.00	7,018.38	7,065.99	6,933.36	19.87	25.93	96.098	-1,285.23	601.43	1,302.41	1,265.89	36.52	35.663	
7,200.00	7,118.05	7,224.36	7,091.53	20.25	26.44	96.559	-1,291.83	605.21	1,307.22	1,270.32	36.90	35.424	
7,300.00	7,217.94	7,345.90	7,213.07	20.58	26.55	96.815	-1,292.35	605.50	1,308.06	1,271.05	37.01	35.341	
7,400.00	7,317.93	7,445.89	7,313.06	20.72	26.58	-173.750	-1,292.35	605.50	1,308.20	1,271.10	37.10	35.263	
7,500.00	7,417.93	7,545.89	7,413.06	20.78	26.60	-173.750	-1,292.35	605.50	1,308.20	1,270.99	37.21	35.153	
7,600.00	7,517.93	7,645.89	7,513.06	20.82	26.62	-173.750	-1,292.35	605.50	1,308.20	1,270.89	37.32	35.056	
7,700.00	7,617.93	7,745.89	7,613.06	20.87	26.64	-173.750	-1,292.35	605.50	1,308.20	1,270.78	37.42	34.959	
7,800.00	7,717.93	7,845.89	7,713.06	20.92	26.67	-173.750	-1,292.35	605.50	1,308.20	1,270.68	37.53	34.862	
7,900.00	7,817.93	7,945.89	7,813.06	20.97	26.69	-173.750	-1,292.35	605.50	1,308.20	1,270.57	37.63	34.765	
8,000.00	7,917.93	8,045.89	7,913.06	21.01	26.71	-173.750	-1,292.35	605.50	1,308.20	1,270.47	37.73	34.669	
8,100.00	8,017.93	8,145.89	8,013.06	21.06	26.74	-173.750	-1,292.35	605.50	1,308.20	1,270.36	37.84	34.573	
8,200.00	8,117.93	8,245.89	8,113.06	21.11	26.76	-173.750	-1,292.35	605.50	1,308.20	1,270.26	37.94	34.477	
8,300.00	8,217.93	8,345.89	8,213.06	21.16	26.79	-173.750	-1,292.35	605.50	1,308.20	1,270.15	38.05	34.381	
8,400.00	8,317.93	8,445.89	8,313.06	21.21	26.81	-173.750	-1,292.35	605.50	1,308.20	1,270.05	38.16	34.286	
8,500.00	8,417.93	8,545.89	8,413.06	21.26	26.83	-173.750	-1,292.35	605.50	1,308.20	1,269.94	38.26	34.191	
8,600.00	8,517.93	8,645.89	8,513.06	21.31	26.86	-173.750	-1,292.35	605.50	1,308.20	1,269.83	38.37	34.096	
8,700.00	8,617.93	8,745.89	8,613.06	21.35	26.88	-173.750	-1,292.35	605.50	1,308.20	1,269.73	38.48	34.001	
8,800.00	8,717.93	8,845.89	8,713.06	21.40	26.91	-173.750	-1,292.35	605.50	1,308.20	1,269.62	38.58	33.907	
8,900.00	8,817.91	8,945.88	8,813.04	21.48	26.94	96.448	-1,292.35	605.50	1,308.30	1,269.62	38.68	33.825	
9,000.00	8,916.79	9,044.76	8,911.92	21.94	26.96	96.886	-1,292.35	605.50	1,309.95	1,271.20	38.75	33.803	
9,100.00	9,011.73	9,139.69	9,006.86	22.47	26.99	97.745	-1,292.35	605.50	1,314.13	1,275.27	38.86	33.820	
9,200.00	9,099.84	9,227.80	9,094.97	23.01	27.01	98.764	-1,292.35	605.50	1,321.82	1,282.80	39.02	33.872	
9,300.00	9,178.45	9,306.41	9,173.58	23.52	27.03	99.592	-1,292.35	605.50	1,334.35	1,295.06	39.29	33.959	
9,400.00	9,245.16	9,373.12	9,240.29	23.97	27.05	99.833	-1,292.35	605.50	1,353.04	1,313.36	39.69	34.093	
9,500.00	9,297.95	9,425.92	9,293.08	24.35	27.06	99.098	-1,292.35	605.50	1,378.96	1,338.75	40.21	34.294	
9,600.00	9,335.22	9,463.19	9,330.35	24.62	27.07	97.049	-1,292.35	605.50	1,412.57	1,371.74	40.83	34.595	
9,700.00	9,355.84	9,483.80	9,350.97	24.78	27.08	93.445	-1,292.35	605.50	1,453.58	1,412.09	41.49	35.033	
9,800.00	9,360.00	9,487.97	9,355.13	24.83	27.08	90.000	-1,292.35	605.50	1,500.90	1,458.78	42.13	35.629	
9,900.00	9,360.00	10,912.06	10,175.00	24.86	32.09	122.238	-1,289.81	1,455.64	1,536.94	1,489.49	47.45	32.393	
9,900.00	9,360.00	10,912.07	10,175.00	24.86	32.09	122.238	-1,289.81	1,455.64	1,536.94	1,489.49	47.45	32.393	
10,000.00	9,360.00	11,012.06	10,175.00	24.94	33.09	122.238	-1,289.52	1,555.64	1,536.94	1,487.29	49.65	30.957	
10,000.00	9,360.00	11,012.07	10,175.00	24.94	33.09	122.238	-1,289.52	1,555.64	1,536.94	1,487.29	49.65	30.957	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (01) Bond 33-34 FED COM #306H - #306H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>					
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
10,100.00	9,360.00	11,112.06	10,175.00	26.19	34.22	122.238	-1,289.22	1,655.64	1,536.94	1,484.94	52.00	29.556	
10,100.00	9,360.00	11,112.07	10,175.00	26.19	34.22	122.238	-1,289.22	1,655.64	1,536.94	1,484.94	52.00	29.556	
10,200.00	9,360.00	11,212.06	10,175.00	27.89	35.46	122.238	-1,288.92	1,755.64	1,536.94	1,482.45	54.49	28.206	
10,200.00	9,360.00	11,212.07	10,175.00	27.89	35.46	122.238	-1,288.92	1,755.64	1,536.94	1,482.45	54.49	28.206	
10,300.00	9,360.00	11,312.06	10,175.00	29.64	36.80	122.238	-1,288.62	1,855.64	1,536.94	1,479.84	57.09	26.919	
10,300.00	9,360.00	11,312.07	10,175.00	29.64	36.80	122.238	-1,288.62	1,855.64	1,536.94	1,479.84	57.09	26.919	
10,400.00	9,360.00	11,412.06	10,175.00	31.43	38.22	122.238	-1,288.32	1,955.64	1,536.94	1,477.14	59.80	25.701	
10,400.00	9,360.00	11,412.07	10,175.00	31.43	38.22	122.238	-1,288.32	1,955.64	1,536.94	1,477.14	59.80	25.701	
10,500.00	9,360.00	11,512.06	10,175.00	33.25	39.71	122.238	-1,288.02	2,055.64	1,536.94	1,474.34	62.60	24.552	
10,500.00	9,360.00	11,512.07	10,175.00	33.25	39.71	122.238	-1,288.02	2,055.64	1,536.94	1,474.34	62.60	24.552	
10,600.00	9,360.00	11,612.06	10,175.00	35.10	41.27	122.238	-1,287.73	2,155.64	1,536.94	1,471.47	65.47	23.474	
10,600.00	9,360.00	11,612.07	10,175.00	35.10	41.27	122.238	-1,287.73	2,155.64	1,536.94	1,471.47	65.47	23.474	
10,700.00	9,360.00	11,712.06	10,175.00	36.98	42.88	122.238	-1,287.43	2,255.64	1,536.94	1,468.52	68.42	22.465	
10,700.00	9,360.00	11,712.07	10,175.00	36.98	42.88	122.238	-1,287.43	2,255.64	1,536.94	1,468.52	68.42	22.465	
10,800.00	9,360.00	11,812.06	10,175.00	38.87	44.53	122.238	-1,287.13	2,355.64	1,536.94	1,465.52	71.42	21.520	
10,800.00	9,360.00	11,812.07	10,175.00	38.87	44.53	122.238	-1,287.13	2,355.64	1,536.94	1,465.52	71.42	21.520	
10,900.00	9,360.00	11,912.06	10,175.00	40.78	46.23	122.238	-1,286.83	2,455.64	1,536.94	1,462.46	74.47	20.637	
10,900.00	9,360.00	11,912.07	10,175.00	40.78	46.23	122.238	-1,286.83	2,455.64	1,536.94	1,462.46	74.48	20.637	
11,000.00	9,360.00	12,012.06	10,175.00	42.71	47.95	122.238	-1,286.53	2,555.64	1,536.94	1,459.36	77.58	19.812	
11,000.00	9,360.00	12,012.07	10,175.00	42.71	47.95	122.238	-1,286.53	2,555.64	1,536.94	1,459.36	77.58	19.812	
11,100.00	9,360.00	12,112.06	10,175.00	44.65	49.71	122.238	-1,286.24	2,655.64	1,536.94	1,456.22	80.72	19.040	
11,100.00	9,360.00	12,112.07	10,175.00	44.65	49.71	122.238	-1,286.24	2,655.64	1,536.94	1,456.22	80.72	19.040	
11,200.00	9,360.00	12,212.06	10,175.00	46.60	51.49	122.238	-1,285.94	2,755.64	1,536.94	1,453.04	83.90	18.318	
11,200.00	9,360.00	12,212.07	10,175.00	46.60	51.49	122.238	-1,285.94	2,755.64	1,536.94	1,453.04	83.90	18.318	
11,300.00	9,360.00	12,312.06	10,175.00	48.56	53.30	122.238	-1,285.64	2,855.63	1,536.94	1,449.82	87.12	17.642	
11,300.00	9,360.00	12,312.07	10,175.00	48.56	53.30	122.238	-1,285.64	2,855.63	1,536.94	1,449.82	87.12	17.642	
11,400.00	9,360.00	12,412.06	10,175.00	50.53	55.12	122.238	-1,285.34	2,955.63	1,536.94	1,446.58	90.36	17.009	
11,400.00	9,360.00	12,412.07	10,175.00	50.53	55.12	122.238	-1,285.34	2,955.63	1,536.94	1,446.58	90.36	17.009	
11,500.00	9,360.00	12,512.06	10,175.00	52.50	56.97	122.238	-1,285.04	3,055.63	1,536.94	1,443.31	93.63	16.415	
11,500.00	9,360.00	12,512.07	10,175.00	52.50	56.97	122.238	-1,285.04	3,055.63	1,536.94	1,443.31	93.63	16.415	
11,600.00	9,360.00	12,612.06	10,175.00	54.49	58.83	122.238	-1,284.74	3,155.63	1,536.94	1,440.01	96.92	15.857	
11,600.00	9,360.00	12,612.07	10,175.00	54.49	58.83	122.238	-1,284.74	3,155.63	1,536.94	1,440.01	96.92	15.857	
11,700.00	9,360.00	12,712.06	10,175.00	56.48	60.70	122.238	-1,284.45	3,255.63	1,536.94	1,436.70	100.24	15.333	
11,700.00	9,360.00	12,712.07	10,175.00	56.48	60.70	122.238	-1,284.45	3,255.63	1,536.94	1,436.70	100.24	15.333	
11,800.00	9,360.00	12,812.06	10,175.00	58.47	62.59	122.238	-1,284.15	3,355.63	1,536.94	1,433.36	103.57	14.839	
11,800.00	9,360.00	12,812.07	10,175.00	58.47	62.59	122.238	-1,284.15	3,355.63	1,536.94	1,433.36	103.57	14.839	
11,900.00	9,360.00	12,912.06	10,175.00	60.47	64.49	122.238	-1,283.85	3,455.63	1,536.94	1,430.01	106.93	14.374	
11,900.00	9,360.00	12,912.07	10,175.00	60.47	64.49	122.238	-1,283.85	3,455.63	1,536.94	1,430.01	106.93	14.374	
12,000.00	9,360.00	13,012.06	10,175.00	62.48	66.39	122.238	-1,283.55	3,555.63	1,536.94	1,426.64	110.29	13.935	
12,000.00	9,360.00	13,012.07	10,175.00	62.48	66.39	122.238	-1,283.55	3,555.63	1,536.94	1,426.64	110.29	13.935	
12,100.00	9,360.00	13,112.06	10,175.00	64.49	68.31	122.238	-1,283.25	3,655.63	1,536.94	1,423.26	113.68	13.520	
12,100.00	9,360.00	13,112.07	10,175.00	64.49	68.31	122.238	-1,283.25	3,655.63	1,536.94	1,423.26	113.68	13.520	
12,200.00	9,360.00	13,212.06	10,175.00	66.50	70.24	122.238	-1,282.96	3,755.63	1,536.94	1,419.87	117.07	13.128	
12,200.00	9,360.00	13,212.07	10,175.00	66.50	70.24	122.238	-1,282.96	3,755.63	1,536.94	1,419.87	117.07	13.128	
12,300.00	9,360.00	13,312.06	10,175.00	68.52	72.18	122.238	-1,282.66	3,855.63	1,536.94	1,416.46	120.48	12.757	
12,300.00	9,360.00	13,312.07	10,175.00	68.52	72.18	122.238	-1,282.66	3,855.63	1,536.94	1,416.46	120.48	12.757	
12,400.00	9,360.00	13,412.06	10,175.00	70.54	74.12	122.238	-1,282.36	3,955.63	1,536.94	1,413.04	123.90	12.405	
12,400.00	9,360.00	13,412.07	10,175.00	70.54	74.12	122.238	-1,282.36	3,955.63	1,536.94	1,413.04	123.90	12.405	
12,500.00	9,360.00	13,512.06	10,175.00	72.56	76.07	122.238	-1,282.06	4,055.63	1,536.94	1,409.61	127.33	12.071	
12,500.00	9,360.00	13,512.07	10,175.00	72.56	76.07	122.238	-1,282.06	4,055.63	1,536.94	1,409.61	127.33	12.071	
12,600.00	9,360.00	13,612.06	10,175.00	74.58	78.03	122.238	-1,281.76	4,155.63	1,536.94	1,406.17	130.77	11.753	
12,600.00	9,360.00	13,612.07	10,175.00	74.58	78.03	122.238	-1,281.76	4,155.63	1,536.94	1,406.17	130.77	11.753	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (01) Bond 33-34 FED COM #306H - #306H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>			<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>		
12,700.00	9,360.00	13,712.06	10,175.00	76.61	79.99	122.238	-1,281.46	4,255.63	1,536.94	1,402.72	134.22	11.451	
12,700.00	9,360.00	13,712.07	10,175.00	76.61	79.99	122.238	-1,281.46	4,255.63	1,536.94	1,402.72	134.22	11.451	
12,800.00	9,360.00	13,812.06	10,175.00	78.64	81.96	122.238	-1,281.17	4,355.63	1,536.94	1,399.27	137.67	11.164	
12,800.00	9,360.00	13,812.07	10,175.00	78.64	81.96	122.238	-1,281.17	4,355.63	1,536.94	1,399.27	137.67	11.164	
12,900.00	9,360.00	13,912.06	10,175.00	80.67	83.93	122.238	-1,280.87	4,455.63	1,536.94	1,395.80	141.14	10.890	
12,900.00	9,360.00	13,912.07	10,175.00	80.67	83.93	122.238	-1,280.87	4,455.63	1,536.94	1,395.80	141.14	10.890	
13,000.00	9,360.00	14,012.06	10,175.00	82.71	85.91	122.238	-1,280.57	4,555.63	1,536.94	1,392.33	144.61	10.628	
13,000.00	9,360.00	14,012.07	10,175.00	82.71	85.91	122.238	-1,280.57	4,555.63	1,536.94	1,392.33	144.61	10.628	
13,100.00	9,360.00	14,112.06	10,175.00	84.74	87.89	122.238	-1,280.27	4,655.63	1,536.94	1,388.86	148.08	10.379	
13,100.00	9,360.00	14,112.07	10,175.00	84.74	87.89	122.238	-1,280.27	4,655.63	1,536.94	1,388.86	148.08	10.379	
13,200.00	9,360.00	14,212.06	10,175.00	86.78	89.87	122.238	-1,279.97	4,755.63	1,536.94	1,385.37	151.57	10.140	
13,200.00	9,360.00	14,212.07	10,175.00	86.78	89.87	122.238	-1,279.97	4,755.63	1,536.94	1,385.37	151.57	10.140	
13,300.00	9,360.00	14,312.06	10,175.00	88.82	91.86	122.238	-1,279.68	4,855.63	1,536.94	1,381.88	155.05	9.912	
13,300.00	9,360.00	14,312.07	10,175.00	88.82	91.86	122.238	-1,279.68	4,855.63	1,536.94	1,381.88	155.05	9.912	
13,400.00	9,360.00	14,412.06	10,175.00	90.86	93.85	122.238	-1,279.38	4,955.63	1,536.94	1,378.39	158.55	9.694	
13,400.00	9,360.00	14,412.07	10,175.00	90.86	93.85	122.238	-1,279.38	4,955.63	1,536.94	1,378.39	158.55	9.694	
13,500.00	9,360.00	14,512.06	10,175.00	92.90	95.85	122.238	-1,279.08	5,055.63	1,536.94	1,374.89	162.05	9.485	
13,500.00	9,360.00	14,512.07	10,175.00	92.90	95.85	122.238	-1,279.08	5,055.63	1,536.94	1,374.89	162.05	9.485	
13,600.00	9,360.00	14,612.06	10,175.00	94.94	97.85	122.238	-1,278.78	5,155.62	1,536.94	1,371.39	165.55	9.284	
13,600.00	9,360.00	14,612.07	10,175.00	94.94	97.85	122.238	-1,278.78	5,155.62	1,536.94	1,371.39	165.55	9.284	
13,700.00	9,360.00	14,712.06	10,175.00	96.98	99.85	122.238	-1,278.48	5,255.62	1,536.94	1,367.88	169.06	9.091	
13,700.00	9,360.00	14,712.07	10,175.00	96.98	99.85	122.238	-1,278.48	5,255.62	1,536.94	1,367.88	169.06	9.091	
13,800.00	9,360.00	14,812.06	10,175.00	99.03	101.86	122.238	-1,278.18	5,355.62	1,536.94	1,364.37	172.57	8.906	
13,800.00	9,360.00	14,812.07	10,175.00	99.03	101.86	122.238	-1,278.18	5,355.62	1,536.94	1,364.37	172.57	8.906	
13,900.00	9,360.00	14,912.06	10,175.00	101.07	103.86	122.238	-1,277.89	5,455.62	1,536.94	1,360.85	176.08	8.728	
13,900.00	9,360.00	14,912.07	10,175.00	101.07	103.86	122.238	-1,277.89	5,455.62	1,536.94	1,360.85	176.08	8.728	
14,000.00	9,360.00	15,012.06	10,175.00	103.12	105.87	122.238	-1,277.59	5,555.62	1,536.94	1,357.34	179.60	8.557	
14,000.00	9,360.00	15,012.07	10,175.00	103.12	105.87	122.238	-1,277.59	5,555.62	1,536.94	1,357.34	179.60	8.557	
14,100.00	9,360.00	15,112.06	10,175.00	105.17	107.88	122.238	-1,277.29	5,655.62	1,536.94	1,353.81	183.13	8.393	
14,100.00	9,360.00	15,112.07	10,175.00	105.17	107.88	122.238	-1,277.29	5,655.62	1,536.94	1,353.81	183.13	8.393	
14,200.00	9,360.00	15,212.06	10,175.00	107.21	109.90	122.238	-1,276.99	5,755.62	1,536.94	1,350.29	186.65	8.234	
14,200.00	9,360.00	15,212.07	10,175.00	107.21	109.90	122.238	-1,276.99	5,755.62	1,536.94	1,350.29	186.65	8.234	
14,300.00	9,360.00	15,312.06	10,175.00	109.26	111.91	122.238	-1,276.69	5,855.62	1,536.94	1,346.76	190.18	8.081	
14,300.00	9,360.00	15,312.07	10,175.00	109.26	111.91	122.238	-1,276.69	5,855.62	1,536.94	1,346.76	190.18	8.081	
14,400.00	9,360.00	15,412.06	10,175.00	111.31	113.93	122.238	-1,276.40	5,955.62	1,536.94	1,343.23	193.71	7.934	
14,400.00	9,360.00	15,412.07	10,175.00	111.31	113.93	122.238	-1,276.40	5,955.62	1,536.94	1,343.23	193.71	7.934	
14,500.00	9,360.00	15,512.06	10,175.00	113.36	115.95	122.238	-1,276.10	6,055.62	1,536.94	1,339.69	197.25	7.792	
14,500.00	9,360.00	15,512.07	10,175.00	113.36	115.95	122.238	-1,276.10	6,055.62	1,536.94	1,339.69	197.25	7.792	
14,600.00	9,360.00	15,612.06	10,175.00	115.42	117.97	122.238	-1,275.80	6,155.62	1,536.94	1,336.16	200.78	7.655	
14,600.00	9,360.00	15,612.07	10,175.00	115.42	117.97	122.238	-1,275.80	6,155.62	1,536.94	1,336.16	200.78	7.655	
14,700.00	9,360.00	15,712.06	10,175.00	117.47	120.00	122.238	-1,275.50	6,255.62	1,536.94	1,332.62	204.32	7.522	
14,700.00	9,360.00	15,712.07	10,175.00	117.47	120.00	122.238	-1,275.50	6,255.62	1,536.94	1,332.62	204.32	7.522	
14,800.00	9,360.00	15,812.06	10,175.00	119.52	122.02	122.238	-1,275.20	6,355.62	1,536.94	1,329.07	207.86	7.394	
14,800.00	9,360.00	15,812.07	10,175.00	119.52	122.02	122.238	-1,275.20	6,355.62	1,536.94	1,329.07	207.86	7.394	
14,900.00	9,360.00	15,912.06	10,175.00	121.57	124.05	122.238	-1,274.90	6,455.62	1,536.94	1,325.53	211.41	7.270	
14,900.00	9,360.00	15,912.07	10,175.00	121.57	124.05	122.238	-1,274.90	6,455.62	1,536.94	1,325.53	211.41	7.270	
15,000.00	9,360.00	16,012.06	10,175.00	123.63	126.07	122.238	-1,274.61	6,555.62	1,536.94	1,321.99	214.95	7.150	
15,000.00	9,360.00	16,012.07	10,175.00	123.63	126.07	122.238	-1,274.61	6,555.62	1,536.94	1,321.99	214.95	7.150	
15,100.00	9,360.00	16,112.06	10,175.00	125.68	128.10	122.238	-1,274.31	6,655.62	1,536.94	1,318.44	218.50	7.034	
15,100.00	9,360.00	16,112.07	10,175.00	125.68	128.10	122.238	-1,274.31	6,655.62	1,536.94	1,318.44	218.50	7.034	
15,200.00	9,360.00	16,212.06	10,175.00	127.74	130.13	122.238	-1,274.01	6,755.62	1,536.94	1,314.89	222.05	6.922	
15,200.00	9,360.00	16,212.07	10,175.00	127.74	130.13	122.238	-1,274.01	6,755.62	1,536.94	1,314.89	222.05	6.922	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (01) Bond 33-34 FED COM #306H - #306H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>			<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>		
15,300.00	9,360.00	16,312.06	10,175.00	129.79	132.16	122.238	-1,273.71	6,855.62	1,536.94	1,311.34	225.60	6.813	
15,300.00	9,360.00	16,312.07	10,175.00	129.79	132.16	122.238	-1,273.71	6,855.62	1,536.94	1,311.34	225.60	6.813	
15,400.00	9,360.00	16,412.06	10,175.00	131.85	134.20	122.238	-1,273.41	6,955.62	1,536.94	1,307.78	229.16	6.707	
15,400.00	9,360.00	16,412.07	10,175.00	131.85	134.20	122.238	-1,273.41	6,955.62	1,536.94	1,307.78	229.16	6.707	
15,500.00	9,360.00	16,512.06	10,175.00	133.90	136.23	122.238	-1,273.12	7,055.62	1,536.94	1,304.23	232.71	6.605	
15,500.00	9,360.00	16,512.07	10,175.00	133.90	136.23	122.238	-1,273.12	7,055.62	1,536.94	1,304.23	232.71	6.605	
15,600.00	9,360.00	16,612.06	10,175.00	135.96	138.27	122.238	-1,272.82	7,155.62	1,536.94	1,300.67	236.27	6.505	
15,600.00	9,360.00	16,612.07	10,175.00	135.96	138.27	122.238	-1,272.82	7,155.62	1,536.94	1,300.67	236.27	6.505	
15,700.00	9,360.00	16,712.06	10,175.00	138.02	140.30	122.238	-1,272.52	7,255.62	1,536.94	1,297.12	239.82	6.409	
15,700.00	9,360.00	16,712.07	10,175.00	138.02	140.30	122.238	-1,272.52	7,255.62	1,536.94	1,297.11	239.82	6.409	
15,800.00	9,360.00	16,812.06	10,175.00	140.07	142.34	122.238	-1,272.22	7,355.61	1,536.94	1,293.56	243.38	6.315	
15,800.00	9,360.00	16,812.07	10,175.00	140.07	142.34	122.238	-1,272.22	7,355.62	1,536.94	1,293.56	243.38	6.315	
15,900.00	9,360.00	16,912.06	10,175.00	142.13	144.38	122.238	-1,271.92	7,455.61	1,536.94	1,290.00	246.94	6.224	
15,900.00	9,360.00	16,912.07	10,175.00	142.13	144.38	122.238	-1,271.92	7,455.62	1,536.94	1,290.00	246.94	6.224	
16,000.00	9,360.00	17,012.06	10,175.00	144.19	146.41	122.238	-1,271.62	7,555.61	1,536.94	1,286.43	250.51	6.135	
16,000.00	9,360.00	17,012.07	10,175.00	144.19	146.41	122.238	-1,271.62	7,555.62	1,536.94	1,286.43	250.51	6.135	
16,100.00	9,360.00	17,112.06	10,175.00	146.25	148.45	122.238	-1,271.33	7,655.61	1,536.94	1,282.87	254.07	6.049	
16,100.00	9,360.00	17,112.07	10,175.00	146.25	148.45	122.238	-1,271.33	7,655.62	1,536.94	1,282.87	254.07	6.049	
16,200.00	9,360.00	17,212.06	10,175.00	148.31	150.49	122.238	-1,271.03	7,755.61	1,536.94	1,279.31	257.63	5.966	
16,200.00	9,360.00	17,212.07	10,175.00	148.31	150.49	122.238	-1,271.03	7,755.62	1,536.94	1,279.31	257.63	5.966	
16,300.00	9,360.00	17,312.06	10,175.00	150.37	152.53	122.238	-1,270.73	7,855.61	1,536.94	1,275.74	261.20	5.884	
16,300.00	9,360.00	17,312.07	10,175.00	150.37	152.53	122.238	-1,270.73	7,855.62	1,536.94	1,275.74	261.20	5.884	
16,400.00	9,360.00	17,412.06	10,175.00	152.42	154.58	122.238	-1,270.43	7,955.61	1,536.94	1,272.17	264.77	5.805	
16,400.00	9,360.00	17,412.07	10,175.00	152.42	154.58	122.238	-1,270.43	7,955.62	1,536.94	1,272.17	264.77	5.805	
16,500.00	9,360.00	17,512.06	10,175.00	154.48	156.62	122.238	-1,270.13	8,055.61	1,536.94	1,268.61	268.33	5.728	
16,500.00	9,360.00	17,512.07	10,175.00	154.48	156.62	122.238	-1,270.13	8,055.62	1,536.94	1,268.61	268.33	5.728	
16,600.00	9,360.00	17,612.06	10,175.00	156.54	158.66	122.238	-1,269.84	8,155.61	1,536.94	1,265.04	271.90	5.653	
16,600.00	9,360.00	17,612.07	10,175.00	156.54	158.66	122.238	-1,269.84	8,155.62	1,536.94	1,265.04	271.90	5.653	
16,700.00	9,360.00	17,712.06	10,175.00	158.60	160.71	122.238	-1,269.54	8,255.61	1,536.94	1,261.47	275.47	5.579	
16,700.00	9,360.00	17,712.07	10,175.00	158.60	160.71	122.238	-1,269.54	8,255.62	1,536.94	1,261.47	275.47	5.579	
16,800.00	9,360.00	17,812.06	10,175.00	160.66	162.75	122.238	-1,269.24	8,355.61	1,536.94	1,257.90	279.04	5.508	
16,800.00	9,360.00	17,812.07	10,175.00	160.66	162.75	122.238	-1,269.24	8,355.62	1,536.94	1,257.90	279.04	5.508	
16,900.00	9,360.00	17,912.06	10,175.00	162.73	164.80	122.238	-1,268.94	8,455.61	1,536.94	1,254.33	282.61	5.438	
16,900.00	9,360.00	17,912.07	10,175.00	162.73	164.80	122.238	-1,268.94	8,455.62	1,536.94	1,254.33	282.61	5.438	
17,000.00	9,360.00	18,012.06	10,175.00	164.79	166.84	122.238	-1,268.64	8,555.61	1,536.94	1,250.75	286.19	5.370	
17,000.00	9,360.00	18,012.07	10,175.00	164.79	166.84	122.238	-1,268.64	8,555.62	1,536.94	1,250.75	286.19	5.370	
17,100.00	9,360.00	18,112.06	10,175.00	166.85	168.89	122.238	-1,268.34	8,655.61	1,536.94	1,247.18	289.76	5.304	
17,100.00	9,360.00	18,112.07	10,175.00	166.85	168.89	122.238	-1,268.34	8,655.62	1,536.94	1,247.18	289.76	5.304	
17,200.00	9,360.00	18,212.06	10,175.00	168.91	170.93	122.238	-1,268.05	8,755.61	1,536.94	1,243.61	293.33	5.240	
17,200.00	9,360.00	18,212.07	10,175.00	168.91	170.93	122.238	-1,268.05	8,755.62	1,536.94	1,243.61	293.33	5.240	
17,300.00	9,360.00	18,312.06	10,175.00	170.97	172.98	122.238	-1,267.75	8,855.61	1,536.94	1,240.03	296.91	5.176	
17,300.00	9,360.00	18,312.07	10,175.00	170.97	172.98	122.238	-1,267.75	8,855.62	1,536.94	1,240.03	296.91	5.176	
17,400.00	9,360.00	18,412.06	10,175.00	173.03	175.03	122.238	-1,267.45	8,955.61	1,536.94	1,236.46	300.48	5.115	
17,400.00	9,360.00	18,412.07	10,175.00	173.03	175.03	122.238	-1,267.45	8,955.62	1,536.94	1,236.46	300.48	5.115	
17,500.00	9,360.00	18,512.06	10,175.00	175.09	177.08	122.238	-1,267.15	9,055.61	1,536.94	1,232.88	304.06	5.055	
17,500.00	9,360.00	18,512.07	10,175.00	175.09	177.08	122.238	-1,267.15	9,055.62	1,536.94	1,232.88	304.06	5.055	
17,600.00	9,360.00	18,612.06	10,175.00	177.16	179.13	122.238	-1,266.85	9,155.61	1,536.94	1,229.30	307.64	4.996	
17,600.00	9,360.00	18,612.07	10,175.00	177.16	179.13	122.238	-1,266.85	9,155.62	1,536.94	1,229.30	307.64	4.996	
17,700.00	9,360.00	18,712.06	10,175.00	179.22	181.18	122.238	-1,266.56	9,255.61	1,536.94	1,225.73	311.21	4.939	
17,700.00	9,360.00	18,712.07	10,175.00	179.22	181.18	122.238	-1,266.56	9,255.62	1,536.94	1,225.73	311.21	4.939	
17,800.00	9,360.00	18,812.06	10,175.00	181.28	183.23	122.238	-1,266.26	9,355.61	1,536.94	1,222.15	314.79	4.882	
17,800.00	9,360.00	18,812.07	10,175.00	181.28	183.23	122.238	-1,266.26	9,355.62	1,536.94	1,222.15	314.79	4.882	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (01) Bond 33-34 FED COM #306H - #306H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
17,900.00	9,360.00	18,912.06	10,175.00	183.34	185.28	122.238	-1,265.96	9,455.61	1,536.94	1,218.57	318.37	4.828	
17,900.00	9,360.00	18,912.07	10,175.00	183.34	185.28	122.238	-1,265.96	9,455.61	1,536.94	1,218.57	318.37	4.828	
18,000.00	9,360.00	19,012.06	10,175.00	185.41	187.33	122.238	-1,265.66	9,555.61	1,536.94	1,214.99	321.95	4.774	
18,000.00	9,360.00	19,012.07	10,175.00	185.41	187.33	122.238	-1,265.66	9,555.61	1,536.94	1,214.99	321.95	4.774	
18,100.00	9,360.00	19,112.06	10,175.00	187.47	189.38	122.238	-1,265.36	9,655.60	1,536.94	1,211.41	325.53	4.721	
18,100.00	9,360.00	19,112.07	10,175.00	187.47	189.38	122.238	-1,265.36	9,655.61	1,536.94	1,211.41	325.53	4.721	
18,200.00	9,360.00	19,212.06	10,175.00	189.53	191.43	122.238	-1,265.06	9,755.60	1,536.94	1,207.83	329.11	4.670	
18,200.00	9,360.00	19,212.07	10,175.00	189.53	191.43	122.238	-1,265.06	9,755.61	1,536.94	1,207.83	329.11	4.670	
18,300.00	9,360.00	19,312.06	10,175.00	191.59	193.48	122.238	-1,264.77	9,855.60	1,536.94	1,204.25	332.69	4.620	
18,300.00	9,360.00	19,312.07	10,175.00	191.59	193.48	122.238	-1,264.77	9,855.61	1,536.94	1,204.25	332.69	4.620	
18,400.00	9,360.00	19,412.06	10,175.00	193.66	195.53	122.238	-1,264.47	9,955.60	1,536.94	1,200.67	336.27	4.571	
18,400.00	9,360.00	19,412.07	10,175.00	193.66	195.53	122.238	-1,264.47	9,955.61	1,536.94	1,200.67	336.27	4.571	
18,500.00	9,360.00	19,512.06	10,175.00	195.72	197.59	122.238	-1,264.17	10,055.60	1,536.94	1,197.08	339.86	4.522	
18,500.00	9,360.00	19,512.07	10,175.00	195.72	197.59	122.238	-1,264.17	10,055.61	1,536.94	1,197.08	339.86	4.522	
18,600.00	9,360.00	19,612.06	10,175.00	197.78	199.64	122.238	-1,263.87	10,155.60	1,536.94	1,193.50	343.44	4.475	
18,600.00	9,360.00	19,612.07	10,175.00	197.78	199.64	122.238	-1,263.87	10,155.60	1,536.94	1,193.50	343.44	4.475	
18,700.00	9,360.00	19,712.06	10,175.00	199.85	201.69	122.238	-1,263.57	10,255.60	1,536.94	1,189.92	347.02	4.429	
18,700.00	9,360.00	19,712.07	10,175.00	199.85	201.69	122.238	-1,263.57	10,255.60	1,536.94	1,189.92	347.02	4.429	
18,800.00	9,360.00	19,812.06	10,175.00	201.91	203.75	122.238	-1,263.28	10,355.60	1,536.94	1,186.34	350.60	4.384	
18,800.00	9,360.00	19,812.07	10,175.00	201.91	203.75	122.238	-1,263.28	10,355.60	1,536.94	1,186.34	350.60	4.384	
18,900.00	9,360.00	19,912.06	10,175.00	203.98	205.80	122.238	-1,262.98	10,455.60	1,536.94	1,182.75	354.19	4.339	
18,900.00	9,360.00	19,912.07	10,175.00	203.98	205.80	122.238	-1,262.98	10,455.60	1,536.94	1,182.75	354.19	4.339	
19,000.00	9,360.00	20,012.06	10,175.00	206.04	207.86	122.238	-1,262.68	10,555.60	1,536.94	1,179.17	357.77	4.296	
19,000.00	9,360.00	20,012.07	10,175.00	206.04	207.86	122.238	-1,262.68	10,555.60	1,536.94	1,179.17	357.77	4.296	
19,100.00	9,360.00	20,112.06	10,175.00	208.10	209.91	122.238	-1,262.38	10,655.60	1,536.94	1,175.58	361.36	4.253	
19,100.00	9,360.00	20,112.07	10,175.00	208.10	209.91	122.238	-1,262.38	10,655.60	1,536.94	1,175.58	361.36	4.253	
19,200.00	9,360.00	20,212.06	10,175.00	210.17	211.96	122.238	-1,262.08	10,755.60	1,536.94	1,172.00	364.94	4.211	
19,200.00	9,360.00	20,212.07	10,175.00	210.17	211.96	122.238	-1,262.08	10,755.60	1,536.94	1,172.00	364.94	4.211	
19,300.00	9,360.00	20,312.06	10,175.00	212.23	214.02	122.238	-1,261.78	10,855.60	1,536.94	1,168.41	368.53	4.170	
19,300.00	9,360.00	20,312.07	10,175.00	212.23	214.02	122.238	-1,261.78	10,855.60	1,536.94	1,168.41	368.53	4.170	
19,400.00	9,360.00	20,412.06	10,175.00	214.30	216.08	122.238	-1,261.49	10,955.60	1,536.94	1,164.82	372.12	4.130	
19,400.00	9,360.00	20,412.07	10,175.00	214.30	216.08	122.238	-1,261.49	10,955.60	1,536.94	1,164.82	372.12	4.130	
19,500.00	9,360.00	20,512.06	10,175.00	216.36	218.13	122.238	-1,261.19	11,055.60	1,536.94	1,161.24	375.70	4.091	
19,500.00	9,360.00	20,512.07	10,175.00	216.36	218.13	122.238	-1,261.19	11,055.60	1,536.94	1,161.24	375.70	4.091	
19,600.00	9,360.00	20,612.06	10,175.00	218.43	220.19	122.238	-1,260.89	11,155.60	1,536.94	1,157.65	379.29	4.052	
19,600.00	9,360.00	20,612.07	10,175.00	218.43	220.19	122.238	-1,260.89	11,155.60	1,536.94	1,157.65	379.29	4.052	
19,700.00	9,360.00	20,712.06	10,175.00	220.49	222.24	122.238	-1,260.59	11,255.60	1,536.94	1,154.06	382.88	4.014	
19,700.00	9,360.00	20,712.07	10,175.00	220.49	222.24	122.238	-1,260.59	11,255.60	1,536.94	1,154.06	382.88	4.014	
19,800.00	9,360.00	20,812.06	10,175.00	222.56	224.30	122.238	-1,260.29	11,355.60	1,536.94	1,150.48	386.46	3.977	
19,800.00	9,360.00	20,812.07	10,175.00	222.56	224.30	122.238	-1,260.29	11,355.60	1,536.94	1,150.48	386.46	3.977	
19,900.00	9,360.00	20,912.06	10,175.00	224.62	226.36	122.238	-1,260.00	11,455.60	1,536.94	1,146.89	390.05	3.940	
19,900.00	9,360.00	20,912.07	10,175.00	224.62	226.36	122.238	-1,260.00	11,455.60	1,536.94	1,146.89	390.05	3.940	
20,000.00	9,360.00	21,012.06	10,175.00	226.69	228.41	122.238	-1,259.70	11,555.60	1,536.94	1,143.30	393.64	3.904	
20,000.00	9,360.00	21,012.07	10,175.00	226.69	228.41	122.238	-1,259.70	11,555.60	1,536.94	1,143.30	393.64	3.904	
20,100.00	9,360.00	21,112.06	10,175.00	228.75	230.47	122.238	-1,259.40	11,655.60	1,536.94	1,139.71	397.23	3.869	
20,100.00	9,360.00	21,112.07	10,175.00	228.75	230.47	122.238	-1,259.40	11,655.62	1,536.94	1,139.71	397.23	3.869	
20,181.28	9,360.00	21,193.34	10,175.00	230.43	232.14	122.238	-1,259.16	11,736.88	1,536.94	1,136.80	400.15	3.841 SF	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>					
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
0.00	0.00	0.00	0.00	0.00	0.00	171.253	-296.62	45.64	300.14				
100.00	100.00	96.08	96.08	0.79	0.75	171.253	-296.62	45.64	300.11	298.57	1.54	194.816	
200.00	200.00	196.08	196.08	1.45	1.42	171.253	-296.62	45.64	300.11	297.25	2.87	104.704	
300.00	300.00	296.08	296.08	1.89	1.87	171.253	-296.62	45.64	300.11	296.35	3.77	79.692	
400.00	400.00	396.08	396.08	2.25	2.24	171.253	-296.62	45.64	300.11	295.62	4.49	66.793	
500.00	500.00	496.08	496.08	2.57	2.56	171.253	-296.62	45.64	300.11	294.99	5.12	58.581	
600.00	600.00	596.08	596.08	2.85	2.84	171.253	-296.62	45.64	300.11	294.43	5.69	52.761	
700.00	700.00	696.08	696.08	3.11	3.10	171.253	-296.62	45.64	300.11	293.91	6.21	48.357	
800.00	800.00	796.08	796.08	3.35	3.34	171.253	-296.62	45.64	300.11	293.43	6.69	44.872	
900.00	900.00	896.08	896.08	3.58	3.57	171.253	-296.62	45.64	300.11	292.97	7.14	42.024	
1,000.00	1,000.00	996.08	996.08	3.79	3.78	171.253	-296.62	45.64	300.11	292.54	7.57	39.640	
1,100.00	1,100.00	1,096.08	1,096.08	3.99	3.99	171.253	-296.62	45.64	300.11	292.13	7.98	37.604	
1,200.00	1,200.00	1,196.08	1,196.08	4.19	4.18	171.253	-296.62	45.64	300.11	291.74	8.37	35.839	
1,300.00	1,300.00	1,296.08	1,296.08	4.38	4.37	171.253	-296.62	45.64	300.11	291.36	8.75	34.289	
1,400.00	1,400.00	1,396.08	1,396.08	4.56	4.56	171.253	-296.62	45.64	300.11	291.00	9.12	32.915	
1,500.00	1,500.00	1,496.08	1,496.08	4.74	4.73	171.253	-296.62	45.64	300.11	290.64	9.47	31.683	
1,600.00	1,600.00	1,596.08	1,596.08	4.91	4.90	171.253	-296.62	45.64	300.11	290.30	9.82	30.572	
1,700.00	1,700.00	1,696.08	1,696.08	5.08	5.07	171.253	-296.62	45.64	300.11	289.96	10.15	29.563	
1,800.00	1,800.00	1,796.08	1,796.08	5.24	5.24	171.253	-296.62	45.64	300.11	289.63	10.48	28.640	
1,900.00	1,900.00	1,896.08	1,896.08	5.40	5.40	171.253	-296.62	45.64	300.11	289.32	10.80	27.792	
2,000.00	2,000.00	1,996.08	1,996.08	5.56	5.55	171.253	-296.62	45.64	300.11	289.00	11.11	27.010	
2,100.00	2,100.00	2,107.64	2,107.58	5.71	5.97	170.830	-294.22	47.49	298.25	286.71	11.55	25.830	
2,200.00	2,200.00	2,218.93	2,218.45	5.86	6.39	169.468	-286.70	53.30	292.47	280.52	11.96	24.460	
2,300.00	2,300.00	2,328.76	2,327.14	6.01	6.81	167.085	-274.28	62.89	283.11	270.78	12.34	22.951	
2,400.00	2,400.00	2,436.43	2,432.64	6.16	7.17	163.548	-257.33	75.99	270.80	258.16	12.63	21.439	
2,500.00	2,500.00	2,535.28	2,528.71	6.30	7.37	159.308	-238.89	90.23	257.44	244.59	12.85	20.032	
2,600.00	2,600.00	2,632.44	2,623.10	6.44	7.61	154.705	-220.69	104.29	245.58	232.47	13.11	18.738	
2,700.00	2,700.00	2,729.60	2,717.50	6.58	7.88	149.693	-202.48	118.35	235.51	222.16	13.35	17.642	
2,800.00	2,800.00	2,826.75	2,811.89	6.71	8.16	144.301	-184.28	132.41	227.47	213.88	13.58	16.745	
2,900.00	2,900.00	2,923.91	2,906.29	6.85	8.47	138.589	-166.08	146.47	221.68	207.86	13.82	16.042	
3,000.00	3,000.00	3,021.07	3,000.68	6.98	8.78	132.649	-147.87	160.53	218.31	204.24	14.07	15.521	
3,082.16	3,082.16	3,100.89	3,078.24	7.09	9.05	127.682	-132.92	172.08	217.44	203.15	14.29	15.216 CC	
3,100.00	3,100.00	3,118.23	3,095.08	7.12	9.12	126.601	-129.67	174.59	217.48	203.14	14.34	15.163 ES	
3,200.00	3,200.00	3,215.38	3,189.48	7.25	9.46	120.577	-111.47	188.65	219.22	204.55	14.67	14.944	
3,300.00	3,300.00	3,312.54	3,283.87	7.37	9.81	114.706	-93.26	202.71	223.47	208.42	15.05	14.844	
3,400.00	3,400.00	3,409.70	3,378.27	7.50	10.18	109.099	-75.06	216.77	230.09	214.59	15.50	14.841	
3,500.00	3,500.00	3,506.85	3,472.66	7.63	10.55	103.837	-56.86	230.83	238.88	222.87	16.01	14.921	
3,600.00	3,599.98	3,604.25	3,567.29	7.80	10.93	9.611	-38.61	244.93	247.91	231.30	16.61	14.925	
3,700.00	3,699.84	3,702.04	3,662.29	7.98	11.32	5.201	-20.29	259.08	255.15	237.90	17.24	14.797	
3,800.00	3,799.45	3,800.10	3,757.57	8.16	11.72	1.072	-1.91	273.27	260.37	242.44	17.93	14.523	
3,900.00	3,898.70	3,898.31	3,852.99	8.36	12.13	-2.912	16.49	287.48	263.45	244.78	18.66	14.115	
4,000.00	3,997.47	3,996.56	3,948.45	8.59	12.54	-6.874	34.90	301.70	264.34	244.89	19.45	13.590	
4,100.00	4,095.62	4,094.73	4,043.83	8.83	12.95	-10.930	53.29	315.91	263.11	242.82	20.29	12.968	
4,200.00	4,193.08	4,192.71	4,139.02	9.02	13.37	-15.187	71.65	330.09	260.00	238.90	21.10	12.323	
4,300.00	4,290.34	4,290.61	4,234.13	9.26	13.79	-19.575	89.99	344.26	257.52	235.56	21.97	11.724	
4,389.13	4,377.01	4,377.87	4,318.91	9.48	14.17	-23.533	106.34	356.88	256.66	233.92	22.74	11.285	
4,400.00	4,387.59	4,388.51	4,329.25	9.50	14.22	-24.017	108.33	358.42	256.64	233.80	22.84	11.238	
4,500.00	4,484.84	4,486.41	4,424.37	9.77	14.65	-28.462	126.68	372.59	257.38	233.68	23.70	10.860	
4,600.00	4,582.09	4,584.32	4,519.49	10.05	15.08	-32.856	145.02	386.76	259.71	235.18	24.53	10.586	
4,700.00	4,679.34	4,682.22	4,614.61	10.35	15.51	-37.150	163.36	400.93	263.61	238.28	25.33	10.408	
4,800.00	4,776.59	4,780.12	4,709.73	10.66	15.95	-41.302	181.71	415.10	268.99	242.92	26.07	10.317	
4,900.00	4,873.84	4,878.03	4,804.85	10.99	16.39	-45.277	200.05	429.26	275.78	249.02	26.76	10.304	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>			<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>		
5,000.00	4,971.09	4,975.93	4,899.97	11.32	16.83	-49.051	218.39	443.43	283.87	256.47	27.40	10.360	
5,100.00	5,068.34	5,073.83	4,995.09	11.67	17.28	-52.608	236.74	457.60	293.15	265.16	27.99	10.474	
5,200.00	5,165.59	5,171.74	5,090.21	12.03	17.72	-55.941	255.08	471.77	303.52	274.99	28.53	10.637	
5,300.00	5,262.84	5,269.64	5,185.33	12.39	18.17	-59.052	273.42	485.94	314.87	285.83	29.04	10.843	
5,400.00	5,360.09	5,367.54	5,280.45	12.77	18.62	-61.943	291.76	500.10	327.10	297.58	29.52	11.082	
5,500.00	5,457.34	5,465.45	5,375.57	13.15	19.07	-64.626	310.11	514.27	340.10	310.13	29.97	11.349	
5,600.00	5,554.59	5,563.35	5,470.69	13.54	19.52	-67.111	328.45	528.44	353.80	323.40	30.40	11.637	
5,700.00	5,651.84	5,661.25	5,565.81	13.93	19.97	-69.410	346.79	542.61	368.12	337.30	30.82	11.943	
5,800.00	5,749.09	5,759.15	5,660.93	14.33	20.43	-71.537	365.14	556.78	382.99	351.76	31.24	12.262	
5,900.00	5,846.35	5,857.06	5,756.05	14.74	20.88	-73.507	383.48	570.95	398.35	366.71	31.64	12.589	
6,000.00	5,943.60	5,954.96	5,851.17	15.15	21.34	-75.330	401.82	585.11	414.14	382.09	32.05	12.923	
6,100.00	6,040.85	6,052.86	5,946.29	15.57	21.80	-77.020	420.17	599.28	430.31	397.86	32.45	13.260	
6,200.00	6,138.10	6,150.77	6,041.41	15.99	22.26	-78.588	438.51	613.45	446.83	413.97	32.86	13.599	
6,300.00	6,235.35	6,248.67	6,136.53	16.41	22.72	-80.045	456.85	627.62	463.65	430.38	33.27	13.938	
6,400.00	6,332.60	6,346.57	6,231.65	16.84	23.18	-81.401	475.20	641.79	480.75	447.07	33.68	14.275	
6,500.00	6,429.85	6,444.48	6,326.77	17.27	23.64	-82.664	493.54	655.95	498.09	464.00	34.10	14.609	
6,600.00	6,527.10	6,542.38	6,421.89	17.70	24.10	-83.842	511.88	670.12	515.66	481.14	34.52	14.939	
6,700.00	6,624.35	6,640.28	6,517.01	18.14	24.56	-84.943	530.23	684.29	533.42	498.47	34.95	15.261	
6,800.00	6,721.92	6,738.29	6,612.24	18.59	25.03	-86.156	548.59	698.47	551.47	516.07	35.40	15.578	
6,900.00	6,820.20	6,839.67	6,710.74	19.03	25.50	-87.013	567.55	713.12	569.79	533.88	35.91	15.867	
7,000.00	6,919.06	6,970.15	6,838.65	19.46	26.14	-87.765	587.85	728.80	585.10	548.57	36.53	16.016	
7,100.00	7,018.38	7,102.23	6,969.61	19.87	26.75	-88.464	601.31	739.20	595.10	558.09	37.00	16.083	
7,200.00	7,118.05	7,235.12	7,102.23	20.25	27.21	-89.128	607.60	744.05	599.70	562.49	37.21	16.117	
7,300.00	7,217.94	7,346.91	7,214.02	20.58	27.33	-89.604	608.07	744.41	600.01	562.77	37.23	16.115	
7,400.00	7,317.93	7,446.90	7,314.01	20.72	27.37	-0.335	608.07	744.41	600.00	562.68	37.32	16.075	
7,500.00	7,417.93	7,546.90	7,414.01	20.78	27.41	-0.335	608.07	744.41	600.00	562.54	37.46	16.015	
7,600.00	7,517.93	7,646.90	7,514.01	20.82	27.46	-0.335	608.07	744.41	600.00	562.41	37.59	15.961	
7,700.00	7,617.93	7,746.90	7,614.01	20.87	27.50	-0.335	608.07	744.41	600.00	562.28	37.72	15.907	
7,800.00	7,717.93	7,846.90	7,714.01	20.92	27.54	-0.335	608.07	744.41	600.00	562.15	37.85	15.854	
7,900.00	7,817.93	7,946.90	7,814.01	20.97	27.58	-0.335	608.07	744.41	600.00	562.03	37.97	15.801	
8,000.00	7,917.93	8,046.90	7,914.01	21.01	27.62	-0.335	608.07	744.41	600.00	561.90	38.10	15.748	
8,100.00	8,017.93	8,146.90	8,014.01	21.06	27.67	-0.335	608.07	744.41	600.00	561.77	38.23	15.695	
8,200.00	8,117.93	8,246.90	8,114.01	21.11	27.71	-0.335	608.07	744.41	600.00	561.64	38.36	15.642	
8,300.00	8,217.93	8,346.90	8,214.01	21.16	27.75	-0.335	608.07	744.41	600.00	561.51	38.49	15.590	
8,400.00	8,317.93	8,446.90	8,314.01	21.21	27.80	-0.335	608.07	744.41	600.00	561.39	38.61	15.538	
8,500.00	8,417.93	8,546.90	8,414.01	21.26	27.84	-0.335	608.07	744.41	600.00	561.26	38.74	15.486	
8,600.00	8,517.93	8,646.90	8,514.01	21.31	27.88	-0.335	608.07	744.41	600.00	561.13	38.87	15.435	
8,700.00	8,617.93	8,746.90	8,614.01	21.35	27.93	-0.335	608.07	744.41	600.00	561.00	39.00	15.384	
8,800.00	8,717.93	8,846.90	8,714.01	21.40	27.97	-0.335	608.07	744.41	600.00	560.87	39.13	15.333	
8,900.00	8,817.93	8,946.90	8,814.01	21.44	28.01	-90.243	608.07	744.41	600.00	560.76	39.24	15.290	
9,000.00	8,916.79	9,045.77	8,912.87	21.94	28.06	-91.544	608.07	744.41	600.23	561.06	39.16	15.326	
9,100.00	9,011.73	9,140.70	9,007.81	22.47	28.10	-94.175	608.07	744.41	601.88	562.95	38.93	15.461	
9,200.00	9,099.84	9,228.81	9,095.92	23.01	28.14	-97.528	608.07	744.41	607.42	568.78	38.63	15.723	
9,300.00	9,178.45	9,307.42	9,174.53	23.52	28.17	-100.768	608.07	744.41	620.01	581.60	38.41	16.144	
9,400.00	9,245.16	9,374.13	9,241.24	23.97	28.20	-102.996	608.07	744.41	642.78	604.40	38.37	16.751	
9,500.00	9,297.95	9,426.93	9,294.03	24.35	28.23	-103.381	608.07	744.41	677.82	639.23	38.59	17.563	
9,600.00	9,335.22	9,464.20	9,331.30	24.62	28.24	-101.189	608.07	744.41	725.58	686.54	39.04	18.586	
9,700.00	9,355.84	9,484.81	9,351.92	24.78	28.25	-95.972	608.07	744.41	784.70	745.08	39.62	19.803	
9,800.00	9,360.00	9,488.97	9,356.08	24.83	28.26	-90.000	608.07	744.41	852.47	812.23	40.24	21.183	
9,900.00	9,360.00	9,488.97	9,356.08	24.86	28.26	-90.000	608.07	744.41	926.18	885.30	40.88	22.654	
10,000.00	9,360.00	9,488.97	9,356.08	24.94	28.26	-90.000	608.07	744.41	1,004.46	962.94	41.52	24.192	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 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)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
10,100.00	9,360.00	10,967.54	10,175.00	26.19	33.81	-143.771	610.77	1,649.97	1,015.20	970.40	44.80	22.661	
10,100.00	9,360.00	10,967.54	10,175.00	26.19	33.81	-143.771	610.77	1,649.98	1,015.20	970.40	44.80	22.660	
10,200.00	9,360.00	11,067.54	10,175.00	27.89	34.80	-143.771	611.07	1,749.97	1,015.20	968.82	46.38	21.889	
10,200.00	9,360.00	11,067.54	10,175.00	27.89	34.80	-143.771	611.07	1,749.98	1,015.20	968.82	46.38	21.888	
10,300.00	9,360.00	11,167.54	10,175.00	29.64	35.92	-143.771	611.37	1,849.97	1,015.20	967.13	48.06	21.122	
10,300.00	9,360.00	11,167.54	10,175.00	29.64	35.92	-143.771	611.37	1,849.98	1,015.20	967.13	48.06	21.122	
10,400.00	9,360.00	11,267.54	10,175.00	31.43	37.15	-143.771	611.66	1,949.97	1,015.20	965.36	49.84	20.369	
10,400.00	9,360.00	11,267.54	10,175.00	31.43	37.16	-143.771	611.66	1,949.98	1,015.20	965.36	49.84	20.369	
10,500.00	9,360.00	11,367.54	10,175.00	33.25	38.49	-143.771	611.96	2,049.97	1,015.20	963.50	51.70	19.635	
10,500.00	9,360.00	11,367.54	10,175.00	33.25	38.49	-143.771	611.96	2,049.98	1,015.20	963.50	51.70	19.635	
10,600.00	9,360.00	11,467.54	10,175.00	35.10	39.92	-143.771	612.26	2,149.97	1,015.20	961.56	53.64	18.927	
10,600.00	9,360.00	11,467.54	10,175.00	35.10	39.92	-143.771	612.26	2,149.97	1,015.20	961.56	53.64	18.927	
10,700.00	9,360.00	11,567.54	10,175.00	36.98	41.42	-143.771	612.56	2,249.97	1,015.20	959.56	55.64	18.245	
10,700.00	9,360.00	11,567.54	10,175.00	36.98	41.42	-143.771	612.56	2,249.97	1,015.20	959.55	55.64	18.245	
10,800.00	9,360.00	11,667.54	10,175.00	38.87	42.98	-143.771	612.86	2,349.97	1,015.20	957.49	57.71	17.592	
10,800.00	9,360.00	11,667.54	10,175.00	38.87	42.98	-143.771	612.86	2,349.97	1,015.20	957.49	57.71	17.592	
10,900.00	9,360.00	11,767.54	10,175.00	40.78	44.60	-143.771	613.15	2,449.97	1,015.20	955.37	59.83	16.968	
10,900.00	9,360.00	11,767.54	10,175.00	40.78	44.60	-143.771	613.15	2,449.97	1,015.20	955.37	59.83	16.968	
11,000.00	9,360.00	11,867.54	10,175.00	42.71	46.27	-143.771	613.45	2,549.97	1,015.20	953.20	62.00	16.375	
11,000.00	9,360.00	11,867.54	10,175.00	42.71	46.27	-143.771	613.45	2,549.97	1,015.20	953.20	62.00	16.375	
11,100.00	9,360.00	11,967.54	10,175.00	44.65	47.97	-143.771	613.75	2,649.97	1,015.20	950.99	64.21	15.810	
11,100.00	9,360.00	11,967.54	10,175.00	44.65	47.97	-143.771	613.75	2,649.97	1,015.20	950.99	64.21	15.810	
11,200.00	9,360.00	12,067.54	10,175.00	46.60	49.70	-143.771	614.05	2,749.97	1,015.20	948.73	66.46	15.274	
11,200.00	9,360.00	12,067.54	10,175.00	46.60	49.70	-143.771	614.05	2,749.97	1,015.20	948.73	66.46	15.274	
11,300.00	9,360.00	12,167.54	10,175.00	48.56	51.47	-143.771	614.35	2,849.97	1,015.20	946.44	68.75	14.766	
11,300.00	9,360.00	12,167.54	10,175.00	48.56	51.47	-143.771	614.35	2,849.97	1,015.20	946.44	68.75	14.766	
11,400.00	9,360.00	12,267.54	10,175.00	50.53	53.26	-143.771	614.65	2,949.97	1,015.20	944.12	71.08	14.283	
11,400.00	9,360.00	12,267.54	10,175.00	50.53	53.26	-143.771	614.65	2,949.97	1,015.20	944.12	71.08	14.283	
11,500.00	9,360.00	12,367.54	10,175.00	52.50	55.07	-143.771	614.94	3,049.97	1,015.20	941.77	73.43	13.826	
11,500.00	9,360.00	12,367.54	10,175.00	52.50	55.08	-143.771	614.94	3,049.97	1,015.20	941.77	73.43	13.826	
11,600.00	9,360.00	12,467.54	10,175.00	54.49	56.91	-143.771	615.24	3,149.97	1,015.20	939.39	75.81	13.392	
11,600.00	9,360.00	12,467.54	10,175.00	54.49	56.91	-143.771	615.24	3,149.97	1,015.20	939.39	75.81	13.392	
11,700.00	9,360.00	12,567.54	10,175.00	56.48	58.76	-143.771	615.54	3,249.97	1,015.20	936.99	78.21	12.981	
11,700.00	9,360.00	12,567.54	10,175.00	56.48	58.76	-143.771	615.54	3,249.97	1,015.20	936.99	78.21	12.981	
11,800.00	9,360.00	12,667.54	10,175.00	58.47	60.63	-143.771	615.84	3,349.97	1,015.20	934.57	80.63	12.591	
11,800.00	9,360.00	12,667.54	10,175.00	58.47	60.63	-143.771	615.84	3,349.97	1,015.20	934.57	80.63	12.591	
11,900.00	9,360.00	12,767.54	10,175.00	60.47	62.51	-143.771	616.14	3,449.97	1,015.20	932.12	83.08	12.220	
11,900.00	9,360.00	12,767.54	10,175.00	60.47	62.51	-143.771	616.14	3,449.97	1,015.20	932.12	83.08	12.220	
12,000.00	9,360.00	12,867.54	10,175.00	62.48	64.40	-143.771	616.44	3,549.97	1,015.20	929.66	85.54	11.868	
12,000.00	9,360.00	12,867.54	10,175.00	62.48	64.40	-143.771	616.44	3,549.97	1,015.20	929.66	85.54	11.868	
12,100.00	9,360.00	12,967.54	10,175.00	64.49	66.31	-143.771	616.73	3,649.97	1,015.20	927.18	88.02	11.534	
12,100.00	9,360.00	12,967.54	10,175.00	64.49	66.31	-143.771	616.73	3,649.97	1,015.20	927.18	88.02	11.534	
12,200.00	9,360.00	13,067.54	10,175.00	66.50	68.22	-143.771	617.03	3,749.97	1,015.20	924.68	90.52	11.216	
12,200.00	9,360.00	13,067.54	10,175.00	66.50	68.22	-143.771	617.03	3,749.97	1,015.20	924.68	90.52	11.216	
12,300.00	9,360.00	13,167.54	10,175.00	68.52	70.14	-143.771	617.33	3,849.96	1,015.20	922.17	93.02	10.913	
12,300.00	9,360.00	13,167.54	10,175.00	68.52	70.14	-143.771	617.33	3,849.97	1,015.20	922.17	93.02	10.913	
12,400.00	9,360.00	13,267.54	10,175.00	70.54	72.08	-143.771	617.63	3,949.96	1,015.20	919.65	95.55	10.625	
12,400.00	9,360.00	13,267.54	10,175.00	70.54	72.08	-143.771	617.63	3,949.97	1,015.20	919.65	95.55	10.625	
12,500.00	9,360.00	13,367.54	10,175.00	72.56	74.02	-143.771	617.93	4,049.96	1,015.20	917.12	98.08	10.350	
12,500.00	9,360.00	13,367.54	10,175.00	72.56	74.02	-143.771	617.93	4,049.97	1,015.20	917.12	98.08	10.350	
12,600.00	9,360.00	13,467.54	10,175.00	74.58	75.97	-143.771	618.22	4,149.96	1,015.20	914.57	100.63	10.089	
12,600.00	9,360.00	13,467.54	10,175.00	74.58	75.97	-143.771	618.22	4,149.97	1,015.20	914.57	100.63	10.089	

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





# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Highside</b>		<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum</b>	<b>Separation</b>	<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Separation (usft)</b>		
12,700.00	9,360.00	13,567.54	10,175.00	76.61	77.92	-143.771	618.52	4,249.96	1,015.20	912.01	103.19	9.839	
12,700.00	9,360.00	13,567.54	10,175.00	76.61	77.92	-143.771	618.52	4,249.97	1,015.20	912.01	103.19	9.839	
12,800.00	9,360.00	13,667.54	10,175.00	78.64	79.88	-143.771	618.82	4,349.96	1,015.20	909.45	105.75	9.600	
12,800.00	9,360.00	13,667.54	10,175.00	78.64	79.88	-143.771	618.82	4,349.96	1,015.20	909.45	105.75	9.600	
12,900.00	9,360.00	13,767.54	10,175.00	80.67	81.85	-143.771	619.12	4,449.96	1,015.20	906.87	108.33	9.372	
12,900.00	9,360.00	13,767.54	10,175.00	80.67	81.85	-143.771	619.12	4,449.96	1,015.20	906.87	108.33	9.372	
13,000.00	9,360.00	13,867.54	10,175.00	82.71	83.82	-143.771	619.42	4,549.96	1,015.20	904.29	110.91	9.153	
13,000.00	9,360.00	13,867.54	10,175.00	82.71	83.82	-143.771	619.42	4,549.96	1,015.20	904.29	110.91	9.153	
13,100.00	9,360.00	13,967.54	10,175.00	84.74	85.79	-143.771	619.72	4,649.96	1,015.20	901.70	113.50	8.944	
13,100.00	9,360.00	13,967.54	10,175.00	84.74	85.79	-143.771	619.72	4,649.96	1,015.20	901.70	113.50	8.944	
13,200.00	9,360.00	14,067.54	10,175.00	86.78	87.77	-143.771	620.01	4,749.96	1,015.20	899.10	116.10	8.744	
13,200.00	9,360.00	14,067.54	10,175.00	86.78	87.77	-143.771	620.01	4,749.96	1,015.20	899.10	116.10	8.744	
13,300.00	9,360.00	14,167.54	10,175.00	88.82	89.76	-143.771	620.31	4,849.96	1,015.20	896.49	118.70	8.552	
13,300.00	9,360.00	14,167.54	10,175.00	88.82	89.76	-143.771	620.31	4,849.96	1,015.20	896.49	118.70	8.552	
13,400.00	9,360.00	14,267.54	10,175.00	90.86	91.75	-143.771	620.61	4,949.96	1,015.20	893.88	121.32	8.368	
13,400.00	9,360.00	14,267.54	10,175.00	90.86	91.75	-143.771	620.61	4,949.96	1,015.20	893.88	121.32	8.368	
13,500.00	9,360.00	14,367.54	10,175.00	92.90	93.74	-143.771	620.91	5,049.96	1,015.20	891.27	123.93	8.192	
13,500.00	9,360.00	14,367.54	10,175.00	92.90	93.74	-143.771	620.91	5,049.96	1,015.20	891.27	123.93	8.192	
13,600.00	9,360.00	14,467.54	10,175.00	94.94	95.73	-143.771	621.21	5,149.96	1,015.20	888.64	126.56	8.022	
13,600.00	9,360.00	14,467.54	10,175.00	94.94	95.73	-143.771	621.21	5,149.96	1,015.20	888.64	126.56	8.022	
13,700.00	9,360.00	14,567.54	10,175.00	96.98	97.73	-143.771	621.51	5,249.96	1,015.20	886.01	129.18	7.859	
13,700.00	9,360.00	14,567.54	10,175.00	96.98	97.73	-143.771	621.51	5,249.96	1,015.20	886.01	129.18	7.859	
13,800.00	9,360.00	14,667.54	10,175.00	99.03	99.73	-143.771	621.80	5,349.96	1,015.20	883.38	131.82	7.702	
13,800.00	9,360.00	14,667.54	10,175.00	99.03	99.73	-143.771	621.80	5,349.96	1,015.20	883.38	131.82	7.702	
13,900.00	9,360.00	14,767.54	10,175.00	101.07	101.74	-143.771	622.10	5,449.96	1,015.20	880.74	134.45	7.551	
13,900.00	9,360.00	14,767.54	10,175.00	101.07	101.74	-143.771	622.10	5,449.96	1,015.20	880.74	134.45	7.551	
14,000.00	9,360.00	14,867.54	10,175.00	103.12	103.74	-143.771	622.40	5,549.96	1,015.20	878.10	137.10	7.405	
14,000.00	9,360.00	14,867.54	10,175.00	103.12	103.74	-143.771	622.40	5,549.96	1,015.20	878.10	137.10	7.405	
14,100.00	9,360.00	14,967.54	10,175.00	105.17	105.75	-143.771	622.70	5,649.96	1,015.20	875.46	139.74	7.265	
14,100.00	9,360.00	14,967.54	10,175.00	105.17	105.75	-143.771	622.70	5,649.96	1,015.20	875.46	139.74	7.265	
14,200.00	9,360.00	15,067.54	10,175.00	107.21	107.76	-143.771	623.00	5,749.96	1,015.20	872.81	142.39	7.130	
14,200.00	9,360.00	15,067.54	10,175.00	107.21	107.76	-143.771	623.00	5,749.96	1,015.20	872.81	142.39	7.130	
14,300.00	9,360.00	15,167.54	10,175.00	109.26	109.78	-143.771	623.29	5,849.96	1,015.20	870.15	145.04	6.999	
14,300.00	9,360.00	15,167.54	10,175.00	109.26	109.78	-143.771	623.29	5,849.96	1,015.20	870.15	145.04	6.999	
14,400.00	9,360.00	15,267.54	10,175.00	111.31	111.79	-143.771	623.59	5,949.96	1,015.20	867.50	147.70	6.873	
14,400.00	9,360.00	15,267.54	10,175.00	111.31	111.79	-143.771	623.59	5,949.96	1,015.20	867.50	147.70	6.873	
14,500.00	9,360.00	15,367.54	10,175.00	113.36	113.81	-143.771	623.89	6,049.95	1,015.20	864.84	150.36	6.752	
14,500.00	9,360.00	15,367.54	10,175.00	113.36	113.81	-143.771	623.89	6,049.95	1,015.20	864.84	150.36	6.752	
14,600.00	9,360.00	15,467.54	10,175.00	115.42	115.83	-143.771	624.19	6,149.95	1,015.20	862.17	153.02	6.634	
14,600.00	9,360.00	15,467.54	10,175.00	115.42	115.83	-143.771	624.19	6,149.95	1,015.20	862.17	153.02	6.634	
14,700.00	9,360.00	15,567.54	10,175.00	117.47	117.85	-143.771	624.49	6,249.95	1,015.20	859.51	155.69	6.521	
14,700.00	9,360.00	15,567.54	10,175.00	117.47	117.85	-143.771	624.49	6,249.95	1,015.20	859.51	155.69	6.521	
14,800.00	9,360.00	15,667.54	10,175.00	119.52	119.88	-143.771	624.79	6,349.95	1,015.20	856.84	158.36	6.411	
14,800.00	9,360.00	15,667.54	10,175.00	119.52	119.88	-143.771	624.79	6,349.95	1,015.20	856.84	158.36	6.411	
14,900.00	9,360.00	15,767.54	10,175.00	121.57	121.90	-143.771	625.08	6,449.95	1,015.20	854.17	161.03	6.304	
14,900.00	9,360.00	15,767.54	10,175.00	121.57	121.90	-143.771	625.08	6,449.95	1,015.20	854.17	161.03	6.304	
15,000.00	9,360.00	15,867.54	10,175.00	123.63	123.93	-143.771	625.38	6,549.95	1,015.20	851.49	163.70	6.201	
15,000.00	9,360.00	15,867.54	10,175.00	123.63	123.93	-143.771	625.38	6,549.95	1,015.20	851.49	163.70	6.201	
15,100.00	9,360.00	15,967.54	10,175.00	125.68	125.95	-143.771	625.68	6,649.95	1,015.20	848.82	166.38	6.102	
15,100.00	9,360.00	15,967.54	10,175.00	125.68	125.95	-143.771	625.68	6,649.95	1,015.20	848.82	166.38	6.102	
15,200.00	9,360.00	16,067.54	10,175.00	127.74	127.98	-143.771	625.98	6,749.95	1,015.20	846.14	169.06	6.005	
15,200.00	9,360.00	16,067.54	10,175.00	127.74	127.98	-143.771	625.98	6,749.95	1,015.20	846.14	169.06	6.005	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	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)	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		
15,300.00	9,360.00	16,167.54	10,175.00	129.79	130.01	-143.771	626.28	6,849.95	1,015.20	843.46	171.74	5.911			
15,300.00	9,360.00	16,167.54	10,175.00	129.79	130.01	-143.771	626.28	6,849.95	1,015.20	843.46	171.74	5.911			
15,400.00	9,360.00	16,267.54	10,175.00	131.85	132.04	-143.771	626.57	6,949.95	1,015.20	840.78	174.42	5.820			
15,400.00	9,360.00	16,267.54	10,175.00	131.85	132.04	-143.771	626.57	6,949.95	1,015.20	840.78	174.42	5.820			
15,500.00	9,360.00	16,367.54	10,175.00	133.90	134.08	-143.771	626.87	7,049.95	1,015.20	838.09	177.11	5.732			
15,500.00	9,360.00	16,367.54	10,175.00	133.90	134.08	-143.771	626.87	7,049.95	1,015.20	838.09	177.11	5.732			
15,600.00	9,360.00	16,467.54	10,175.00	135.96	136.11	-143.771	627.17	7,149.95	1,015.20	835.40	179.79	5.646			
15,600.00	9,360.00	16,467.54	10,175.00	135.96	136.11	-143.771	627.17	7,149.95	1,015.20	835.40	179.79	5.646			
15,700.00	9,360.00	16,567.54	10,175.00	138.02	138.14	-143.771	627.47	7,249.95	1,015.20	832.72	182.48	5.563			
15,700.00	9,360.00	16,567.54	10,175.00	138.02	138.14	-143.771	627.47	7,249.95	1,015.20	832.72	182.48	5.563			
15,800.00	9,360.00	16,667.54	10,175.00	140.07	140.18	-143.771	627.77	7,349.95	1,015.20	830.03	185.17	5.482			
15,800.00	9,360.00	16,667.54	10,175.00	140.07	140.18	-143.771	627.77	7,349.95	1,015.20	830.03	185.17	5.482			
15,900.00	9,360.00	16,767.54	10,175.00	142.13	142.22	-143.771	628.07	7,449.95	1,015.20	827.33	187.86	5.404			
15,900.00	9,360.00	16,767.54	10,175.00	142.13	142.22	-143.771	628.07	7,449.95	1,015.20	827.33	187.86	5.404			
16,000.00	9,360.00	16,867.54	10,175.00	144.19	144.25	-143.771	628.36	7,549.95	1,015.20	824.64	190.56	5.328			
16,000.00	9,360.00	16,867.54	10,175.00	144.19	144.25	-143.771	628.36	7,549.95	1,015.20	824.64	190.56	5.327			
16,100.00	9,360.00	16,967.54	10,175.00	146.25	146.29	-143.771	628.66	7,649.95	1,015.20	821.95	193.25	5.253			
16,100.00	9,360.00	16,967.54	10,175.00	146.25	146.29	-143.771	628.66	7,649.95	1,015.20	821.95	193.25	5.253			
16,200.00	9,360.00	17,067.54	10,175.00	148.31	148.33	-143.771	628.96	7,749.95	1,015.20	819.25	195.95	5.181			
16,200.00	9,360.00	17,067.54	10,175.00	148.31	148.33	-143.771	628.96	7,749.95	1,015.20	819.25	195.95	5.181			
16,300.00	9,360.00	17,167.54	10,175.00	150.37	150.37	-143.771	629.26	7,849.95	1,015.20	816.55	198.65	5.111			
16,300.00	9,360.00	17,167.54	10,175.00	150.37	150.37	-143.771	629.26	7,849.95	1,015.20	816.55	198.65	5.111			
16,400.00	9,360.00	17,267.54	10,175.00	152.42	152.41	-143.771	629.56	7,949.95	1,015.20	813.85	201.35	5.042			
16,400.00	9,360.00	17,267.54	10,175.00	152.42	152.41	-143.771	629.56	7,949.95	1,015.20	813.85	201.35	5.042			
16,500.00	9,360.00	17,367.54	10,175.00	154.48	154.46	-143.771	629.86	8,049.95	1,015.20	811.15	204.05	4.975			
16,500.00	9,360.00	17,367.54	10,175.00	154.48	154.46	-143.771	629.86	8,049.95	1,015.20	811.15	204.05	4.975			
16,600.00	9,360.00	17,467.54	10,175.00	156.54	156.50	-143.771	630.15	8,149.95	1,015.20	808.45	206.75	4.910			
16,600.00	9,360.00	17,467.54	10,175.00	156.54	156.50	-143.771	630.15	8,149.95	1,015.20	808.45	206.75	4.910			
16,700.00	9,360.00	17,567.54	10,175.00	158.60	158.54	-143.771	630.45	8,249.95	1,015.20	805.75	209.45	4.847			
16,700.00	9,360.00	17,567.54	10,175.00	158.60	158.54	-143.771	630.45	8,249.95	1,015.20	805.75	209.45	4.847			
16,800.00	9,360.00	17,667.54	10,175.00	160.66	160.58	-143.771	630.75	8,349.94	1,015.20	803.04	212.15	4.785			
16,800.00	9,360.00	17,667.54	10,175.00	160.66	160.58	-143.771	630.75	8,349.95	1,015.20	803.04	212.16	4.785			
16,900.00	9,360.00	17,767.54	10,175.00	162.73	162.63	-143.771	631.05	8,449.94	1,015.20	800.34	214.86	4.725			
16,900.00	9,360.00	17,767.54	10,175.00	162.73	162.63	-143.771	631.05	8,449.95	1,015.20	800.34	214.86	4.725			
17,000.00	9,360.00	17,867.54	10,175.00	164.79	164.67	-143.771	631.35	8,549.94	1,015.20	797.63	217.57	4.666			
17,000.00	9,360.00	17,867.54	10,175.00	164.79	164.67	-143.771	631.35	8,549.95	1,015.20	797.63	217.57	4.666			
17,100.00	9,360.00	17,967.54	10,175.00	166.85	166.72	-143.771	631.64	8,649.94	1,015.20	794.93	220.27	4.609			
17,100.00	9,360.00	17,967.54	10,175.00	166.85	166.72	-143.771	631.64	8,649.95	1,015.20	794.93	220.27	4.609			
17,200.00	9,360.00	18,067.54	10,175.00	168.91	168.77	-143.771	631.94	8,749.94	1,015.20	792.22	222.98	4.553			
17,200.00	9,360.00	18,067.54	10,175.00	168.91	168.77	-143.771	631.94	8,749.95	1,015.20	792.22	222.98	4.553			
17,300.00	9,360.00	18,167.54	10,175.00	170.97	170.81	-143.771	632.24	8,849.94	1,015.20	789.51	225.69	4.498			
17,300.00	9,360.00	18,167.54	10,175.00	170.97	170.81	-143.771	632.24	8,849.95	1,015.20	789.51	225.69	4.498			
17,400.00	9,360.00	18,267.54	10,175.00	173.03	172.86	-143.771	632.54	8,949.94	1,015.20	786.80	228.40	4.445			
17,400.00	9,360.00	18,267.54	10,175.00	173.03	172.86	-143.771	632.54	8,949.94	1,015.20	786.80	228.40	4.445			
17,500.00	9,360.00	18,367.54	10,175.00	175.09	174.91	-143.771	632.84	9,049.94	1,015.20	784.09	231.11	4.393			
17,500.00	9,360.00	18,367.54	10,175.00	175.09	174.91	-143.771	632.84	9,049.94	1,015.20	784.09	231.11	4.393			
17,600.00	9,360.00	18,467.54	10,175.00	177.16	176.96	-143.771	633.14	9,149.94	1,015.20	781.38	233.82	4.342			
17,600.00	9,360.00	18,467.54	10,175.00	177.16	176.96	-143.771	633.14	9,149.94	1,015.20	781.38	233.82	4.342			
17,700.00	9,360.00	18,567.54	10,175.00	179.22	179.01	-143.771	633.43	9,249.94	1,015.20	778.66	236.53	4.292			
17,700.00	9,360.00	18,567.54	10,175.00	179.22	179.01	-143.771	633.43	9,249.94	1,015.20	778.66	236.53	4.292			
17,800.00	9,360.00	18,667.54	10,175.00	181.28	181.06	-143.771	633.73	9,349.94	1,015.20	775.95	239.25	4.243			
17,800.00	9,360.00	18,667.54	10,175.00	181.28	181.06	-143.771	633.73	9,349.94	1,015.20	775.95	239.25	4.243			

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (02) Bond 33-34 FED COM #304H - #304H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>					
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
17,900.00	9,360.00	18,767.54	10,175.00	183.34	183.11	-143.771	634.03	9,449.94	1,015.20	773.24	241.96	4.196	
17,900.00	9,360.00	18,767.54	10,175.00	183.34	183.11	-143.771	634.03	9,449.94	1,015.20	773.24	241.96	4.196	
18,000.00	9,360.00	18,867.54	10,175.00	185.41	185.16	-143.771	634.33	9,549.94	1,015.20	770.52	244.68	4.149	
18,000.00	9,360.00	18,867.54	10,175.00	185.41	185.16	-143.771	634.33	9,549.94	1,015.20	770.52	244.68	4.149	
18,100.00	9,360.00	18,967.54	10,175.00	187.47	187.21	-143.771	634.63	9,649.94	1,015.20	767.81	247.39	4.104	
18,100.00	9,360.00	18,967.54	10,175.00	187.47	187.21	-143.771	634.63	9,649.94	1,015.20	767.81	247.39	4.104	
18,200.00	9,360.00	19,067.54	10,175.00	189.53	189.26	-143.771	634.93	9,749.94	1,015.20	765.09	250.11	4.059	
18,200.00	9,360.00	19,067.54	10,175.00	189.53	189.26	-143.771	634.93	9,749.94	1,015.20	765.09	250.11	4.059	
18,300.00	9,360.00	19,167.54	10,175.00	191.59	191.31	-143.771	635.22	9,849.94	1,015.20	762.37	252.83	4.015	
18,300.00	9,360.00	19,167.54	10,175.00	191.59	191.31	-143.771	635.22	9,849.94	1,015.20	762.37	252.83	4.015	
18,400.00	9,360.00	19,267.54	10,175.00	193.66	193.36	-143.771	635.52	9,949.94	1,015.20	759.66	255.54	3.973	
18,400.00	9,360.00	19,267.54	10,175.00	193.66	193.36	-143.771	635.52	9,949.94	1,015.20	759.66	255.54	3.973	
18,500.00	9,360.00	19,367.54	10,175.00	195.72	195.41	-143.771	635.82	10,049.94	1,015.20	756.94	258.26	3.931	
18,500.00	9,360.00	19,367.54	10,175.00	195.72	195.41	-143.771	635.82	10,049.94	1,015.20	756.94	258.26	3.931	
18,600.00	9,360.00	19,467.54	10,175.00	197.78	197.47	-143.771	636.12	10,149.94	1,015.20	754.22	260.98	3.890	
18,600.00	9,360.00	19,467.54	10,175.00	197.78	197.47	-143.771	636.12	10,149.94	1,015.20	754.22	260.98	3.890	
18,700.00	9,360.00	19,567.54	10,175.00	199.85	199.52	-143.771	636.42	10,249.94	1,015.20	751.50	263.70	3.850	
18,700.00	9,360.00	19,567.54	10,175.00	199.85	199.52	-143.771	636.42	10,249.94	1,015.20	751.50	263.70	3.850	
18,800.00	9,360.00	19,667.54	10,175.00	201.91	201.57	-143.771	636.71	10,349.94	1,015.20	748.78	266.42	3.811	
18,800.00	9,360.00	19,667.54	10,175.00	201.91	201.57	-143.771	636.71	10,349.94	1,015.20	748.78	266.42	3.811	
18,900.00	9,360.00	19,767.54	10,175.00	203.98	203.63	-143.771	637.01	10,449.94	1,015.20	746.06	269.14	3.772	
18,900.00	9,360.00	19,767.54	10,175.00	203.98	203.63	-143.771	637.01	10,449.94	1,015.20	746.06	269.14	3.772	
19,000.00	9,360.00	19,867.54	10,175.00	206.04	205.68	-143.771	637.31	10,549.94	1,015.20	743.34	271.86	3.734	
19,000.00	9,360.00	19,867.54	10,175.00	206.04	205.68	-143.771	637.31	10,549.94	1,015.20	743.34	271.86	3.734	
19,100.00	9,360.00	19,967.54	10,175.00	208.10	207.73	-143.771	637.61	10,649.93	1,015.20	740.62	274.58	3.697	
19,100.00	9,360.00	19,967.54	10,175.00	208.10	207.73	-143.771	637.61	10,649.93	1,015.20	740.62	274.58	3.697	
19,200.00	9,360.00	20,067.54	10,175.00	210.17	209.79	-143.771	637.91	10,749.93	1,015.20	737.90	277.30	3.661	
19,200.00	9,360.00	20,067.54	10,175.00	210.17	209.79	-143.771	637.91	10,749.93	1,015.20	737.90	277.30	3.661	
19,300.00	9,360.00	20,167.54	10,175.00	212.23	211.84	-143.771	638.21	10,849.93	1,015.20	735.17	280.03	3.625	
19,300.00	9,360.00	20,167.54	10,175.00	212.23	211.84	-143.771	638.21	10,849.93	1,015.20	735.17	280.03	3.625	
19,400.00	9,360.00	20,267.54	10,175.00	214.30	213.90	-143.771	638.50	10,949.93	1,015.20	732.45	282.75	3.590	
19,400.00	9,360.00	20,267.54	10,175.00	214.30	213.90	-143.771	638.50	10,949.93	1,015.20	732.45	282.75	3.590	
19,500.00	9,360.00	20,367.54	10,175.00	216.36	215.96	-143.771	638.80	11,049.93	1,015.20	729.73	285.47	3.556	
19,500.00	9,360.00	20,367.54	10,175.00	216.36	215.96	-143.771	638.80	11,049.93	1,015.20	729.73	285.47	3.556	
19,600.00	9,360.00	20,467.54	10,175.00	218.43	218.01	-143.771	639.10	11,149.93	1,015.20	727.00	288.20	3.523	
19,600.00	9,360.00	20,467.54	10,175.00	218.43	218.01	-143.771	639.10	11,149.93	1,015.20	727.00	288.20	3.523	
19,700.00	9,360.00	20,567.54	10,175.00	220.49	220.07	-143.771	639.40	11,249.93	1,015.20	724.28	290.92	3.490	
19,700.00	9,360.00	20,567.54	10,175.00	220.49	220.07	-143.771	639.40	11,249.93	1,015.20	724.28	290.92	3.490	
19,800.00	9,360.00	20,667.54	10,175.00	222.56	222.12	-143.771	639.70	11,349.93	1,015.20	721.55	293.64	3.457	
19,800.00	9,360.00	20,667.54	10,175.00	222.56	222.12	-143.771	639.70	11,349.93	1,015.20	721.55	293.64	3.457	
19,900.00	9,360.00	20,767.54	10,175.00	224.62	224.18	-143.771	639.99	11,449.93	1,015.20	718.83	296.37	3.425	
19,900.00	9,360.00	20,767.54	10,175.00	224.62	224.18	-143.771	639.99	11,449.93	1,015.20	718.83	296.37	3.425	
20,000.00	9,360.00	20,867.54	10,175.00	226.69	226.24	-143.771	640.29	11,549.93	1,015.20	716.10	299.09	3.394	
20,000.00	9,360.00	20,867.54	10,175.00	226.69	226.24	-143.771	640.29	11,549.93	1,015.20	716.10	299.09	3.394	
20,100.00	9,360.00	20,967.54	10,175.00	228.75	228.29	-143.771	640.59	11,649.93	1,015.20	713.38	301.82	3.364	
20,100.00	9,360.00	20,967.54	10,175.00	228.75	228.29	-143.771	640.59	11,649.93	1,015.20	713.38	301.82	3.364	
20,181.28	9,360.00	21,046.64	10,175.00	230.43	229.92	-143.771	640.83	11,729.03	1,015.20	711.16	304.04	3.339 SF	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (03) Bond 33-34 FED COM #106H - #106H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>	<b>Offset</b>	<b>Semi Major Axis</b>		<b>Distance</b>		<b>Rule Assigned:</b>		<b>Warning</b>					
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
0.00	0.00	0.00	0.00	0.00	0.00	171.259	-276.62	42.53	279.90				
100.00	100.00	96.31	96.31	0.79	0.76	171.259	-276.62	42.53	279.87	278.33	1.54	181.464	
200.00	200.00	196.31	196.31	1.45	1.42	171.259	-276.62	42.53	279.87	277.01	2.87	97.590	
300.00	300.00	296.31	296.31	1.89	1.88	171.259	-276.62	42.53	279.87	276.11	3.77	74.297	
400.00	400.00	396.31	396.31	2.25	2.24	171.259	-276.62	42.53	279.87	275.38	4.49	62.277	
500.00	500.00	496.31	496.31	2.57	2.56	171.259	-276.62	42.53	279.87	274.75	5.12	54.622	
600.00	600.00	596.31	596.31	2.85	2.84	171.259	-276.62	42.53	279.87	274.18	5.69	49.197	
700.00	700.00	696.31	696.31	3.11	3.10	171.259	-276.62	42.53	279.87	273.67	6.21	45.091	
800.00	800.00	796.31	796.31	3.35	3.34	171.259	-276.62	42.53	279.87	273.18	6.69	41.842	
900.00	900.00	896.31	896.31	3.58	3.57	171.259	-276.62	42.53	279.87	272.73	7.14	39.187	
1,000.00	1,000.00	996.31	996.31	3.79	3.78	171.259	-276.62	42.53	279.87	272.30	7.57	36.964	
1,100.00	1,100.00	1,096.31	1,096.31	3.99	3.99	171.259	-276.62	42.53	279.87	271.89	7.98	35.066	
1,200.00	1,200.00	1,196.31	1,196.31	4.19	4.18	171.259	-276.62	42.53	279.87	271.50	8.37	33.420	
1,300.00	1,300.00	1,296.31	1,296.31	4.38	4.37	171.259	-276.62	42.53	279.87	271.12	8.75	31.975	
1,400.00	1,400.00	1,396.31	1,396.31	4.56	4.56	171.259	-276.62	42.53	279.87	270.75	9.12	30.693	
1,500.00	1,500.00	1,496.31	1,496.31	4.74	4.73	171.259	-276.62	42.53	279.87	270.40	9.47	29.545	
1,600.00	1,600.00	1,596.31	1,596.31	4.91	4.91	171.259	-276.62	42.53	279.87	270.06	9.82	28.509	
1,700.00	1,700.00	1,696.31	1,696.31	5.08	5.07	171.259	-276.62	42.53	279.87	269.72	10.15	27.568	
1,800.00	1,800.00	1,796.31	1,796.31	5.24	5.24	171.259	-276.62	42.53	279.87	269.39	10.48	26.708	
1,900.00	1,900.00	1,897.72	1,897.70	5.40	5.48	171.597	-276.62	40.86	279.63	268.84	10.79	25.909	
2,000.00	2,000.00	1,997.70	1,997.62	5.56	5.63	172.305	-276.62	37.38	279.14	268.05	11.09	25.181	
2,100.00	2,100.00	2,097.63	2,097.49	5.71	5.79	173.016	-276.62	33.89	278.69	267.32	11.37	24.505	
2,200.00	2,200.00	2,197.57	2,197.37	5.86	5.96	173.729	-276.62	30.40	278.29	266.63	11.66	23.876	
2,300.00	2,300.00	2,297.51	2,297.25	6.01	6.15	174.443	-276.62	26.91	277.93	266.00	11.93	23.288	
2,400.00	2,400.00	2,397.45	2,397.13	6.16	6.34	175.160	-276.62	23.42	277.61	265.41	12.21	22.738	
2,500.00	2,500.00	2,497.39	2,497.01	6.30	6.55	175.878	-276.62	19.94	277.34	264.86	12.48	22.222	
2,512.77	2,512.77	2,509.47	2,509.08	6.32	6.57	175.963	-276.63	19.52	277.32	264.81	12.51	22.162 CC, ES	
2,600.00	2,600.00	2,590.60	2,590.18	6.44	6.75	176.361	-277.66	17.66	278.29	265.55	12.74	21.851	
2,700.00	2,700.00	2,683.55	2,683.07	6.58	6.91	176.445	-280.89	17.45	281.74	268.75	12.99	21.690	
2,800.00	2,800.00	2,776.26	2,775.60	6.71	6.99	176.142	-286.29	19.31	287.69	274.42	13.26	21.692	
2,900.00	2,900.00	2,868.54	2,867.49	6.85	7.05	175.486	-293.83	23.20	296.15	282.60	13.55	21.862	
3,000.00	3,000.00	2,960.20	2,958.45	6.98	7.11	174.527	-303.44	29.07	307.17	293.34	13.84	22.202	
3,100.00	3,100.00	3,051.06	3,048.22	7.12	7.19	173.326	-315.05	36.87	320.82	306.69	14.13	22.706	
3,200.00	3,200.00	3,140.96	3,136.56	7.25	7.34	171.944	-328.56	46.50	337.17	322.74	14.43	23.367	
3,300.00	3,300.00	3,230.00	3,223.53	7.37	7.50	170.439	-343.92	57.93	356.28	341.58	14.70	24.240	
3,400.00	3,400.00	3,327.35	3,318.28	7.50	7.69	168.838	-361.71	71.37	376.85	361.84	15.02	25.097	
3,500.00	3,500.00	3,424.69	3,413.03	7.63	7.91	167.403	-379.50	84.81	397.68	382.31	15.37	25.877	
3,600.00	3,599.98	3,522.25	3,508.00	7.80	8.15	176.551	-397.33	98.28	418.33	402.60	15.73	26.591	
3,700.00	3,699.84	3,620.16	3,603.31	7.98	8.41	175.646	-415.22	111.80	438.27	422.16	16.10	27.214	
3,800.00	3,799.45	3,718.31	3,698.86	8.16	8.68	175.234	-433.16	125.35	457.37	440.87	16.50	27.720	
3,900.00	3,898.70	3,816.58	3,794.51	8.36	8.96	175.256	-451.12	138.92	475.61	458.70	16.91	28.119	
4,000.00	3,997.47	3,914.85	3,890.17	8.59	9.26	175.663	-469.08	152.48	493.03	475.69	17.35	28.423	
4,100.00	4,095.62	4,013.00	3,985.70	8.83	9.57	176.416	-487.01	166.03	509.73	491.94	17.79	28.650	
4,200.00	4,193.08	4,110.91	4,081.02	9.02	9.89	177.549	-504.91	179.55	525.88	507.67	18.21	28.885	
4,300.00	4,290.34	4,208.75	4,176.25	9.26	10.23	178.931	-522.79	193.06	542.13	523.46	18.67	29.035	
4,400.00	4,387.59	4,306.58	4,271.48	9.50	10.57	180.233	-540.66	206.57	558.68	539.54	19.14	29.189	
4,500.00	4,484.84	4,404.41	4,366.72	9.77	10.92	181.461	-558.54	220.08	575.49	555.88	19.61	29.341	
4,600.00	4,582.09	4,502.25	4,461.95	10.05	11.28	182.620	-576.42	233.58	592.55	572.46	20.09	29.493	
4,700.00	4,679.34	4,600.08	4,557.19	10.35	11.65	183.714	-594.30	247.09	609.84	589.27	20.57	29.643	
4,800.00	4,776.59	4,697.92	4,652.42	10.66	12.02	184.748	-612.18	260.60	627.33	606.28	21.06	29.791	
4,900.00	4,873.84	4,795.75	4,747.65	10.99	12.40	185.727	-630.06	274.11	645.02	623.47	21.55	29.936	
5,000.00	4,971.09	4,893.59	4,842.89	11.32	12.79	186.654	-647.94	287.62	662.87	640.84	22.04	30.080	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (03) Bond 33-34 FED COM #106H - #106H - Plan 1												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
5,100.00	5,068.34	4,991.42	4,938.12	11.67	13.19	87.532	-665.82	301.12	680.89	658.36	22.53	30.220	
5,200.00	5,165.59	5,089.26	5,033.35	12.03	13.58	88.366	-683.70	314.63	699.06	676.03	23.03	30.358	
5,300.00	5,262.84	5,187.09	5,128.59	12.39	13.99	89.157	-701.58	328.14	717.36	693.83	23.53	30.492	
5,400.00	5,360.09	5,284.93	5,223.82	12.77	14.39	89.909	-719.45	341.65	735.79	711.76	24.03	30.622	
5,500.00	5,457.34	5,382.76	5,319.06	13.15	14.81	90.625	-737.33	355.15	754.34	729.81	24.53	30.748	
5,600.00	5,554.59	5,480.59	5,414.29	13.54	15.22	91.307	-755.21	368.66	773.00	747.96	25.04	30.871	
5,700.00	5,651.84	5,578.43	5,509.52	13.93	15.64	91.956	-773.09	382.17	791.76	766.21	25.55	30.989	
5,800.00	5,749.09	5,676.26	5,604.76	14.33	16.06	92.576	-790.97	395.68	810.61	784.55	26.06	31.104	
5,900.00	5,846.35	5,774.10	5,699.99	14.74	16.48	93.168	-808.85	409.19	829.55	802.97	26.58	31.214	
6,000.00	5,943.60	5,871.93	5,795.23	15.15	16.91	93.733	-826.73	422.69	848.57	821.48	27.09	31.320	
6,100.00	6,040.85	5,969.77	5,890.46	15.57	17.34	94.274	-844.61	436.20	867.67	840.06	27.61	31.422	
6,200.00	6,138.10	6,067.60	5,985.69	15.99	17.77	94.791	-862.49	449.71	886.84	858.71	28.14	31.520	
6,300.00	6,235.35	6,165.44	6,080.93	16.41	18.21	95.287	-880.37	463.22	906.08	877.42	28.66	31.613	
6,400.00	6,332.60	6,263.27	6,176.16	16.84	18.64	95.762	-898.24	476.72	925.39	896.20	29.19	31.703	
6,500.00	6,429.85	6,361.11	6,271.39	17.27	19.08	96.218	-916.12	490.23	944.75	915.03	29.72	31.790	
6,600.00	6,527.10	6,458.94	6,366.63	17.70	19.52	96.656	-934.00	503.74	964.16	933.91	30.25	31.872	
6,700.00	6,624.35	6,556.77	6,461.86	18.14	19.96	97.076	-951.88	517.25	983.63	952.84	30.79	31.943	
6,800.00	6,721.92	6,654.73	6,557.21	18.59	20.41	97.753	-969.78	530.77	1,002.96	971.64	31.32	32.020	
6,900.00	6,820.20	6,752.91	6,652.78	19.03	20.85	98.247	-987.72	544.33	1,021.85	989.99	31.86	32.077	
7,000.00	6,919.06	6,851.18	6,748.44	19.46	21.30	98.532	-1,005.68	557.90	1,040.25	1,007.86	32.39	32.149	
7,100.00	7,018.38	6,949.44	6,844.09	19.87	21.75	98.620	-1,023.64	571.46	1,058.15	1,025.23	32.92	32.117	
7,200.00	7,118.05	7,047.56	6,939.60	20.25	22.20	98.523	-1,041.57	585.01	1,075.58	1,042.13	33.44	32.161	
7,300.00	7,217.94	7,145.42	7,034.86	20.58	22.65	98.250	-1,059.46	598.52	1,092.59	1,058.62	33.97	32.163	
7,400.00	7,317.93	7,242.91	7,129.76	20.72	23.10	-172.861	-1,077.27	611.98	1,109.28	1,074.80	34.48	32.172	
7,500.00	7,417.93	7,355.13	7,239.10	20.78	23.62	-173.768	-1,097.42	627.20	1,125.78	1,090.69	35.09	32.082	
7,600.00	7,517.93	7,493.94	7,375.42	20.82	24.27	-174.673	-1,118.21	642.91	1,139.66	1,103.91	35.76	31.873	
7,700.00	7,617.93	7,635.01	7,515.10	20.87	24.88	-175.337	-1,133.93	654.78	1,150.08	1,113.74	36.33	31.654	
7,800.00	7,717.93	7,777.72	7,657.21	20.92	25.44	-175.763	-1,144.22	662.56	1,156.86	1,120.05	36.81	31.428	
7,900.00	7,817.93	7,921.36	7,800.72	20.97	25.88	-175.953	-1,148.86	666.07	1,159.91	1,122.78	37.13	31.235	
8,000.00	7,917.93	8,022.95	7,902.21	21.01	26.06	-176.104	-1,149.62	669.09	1,160.45	1,123.14	37.31	31.104	
8,100.00	8,017.93	8,100.00	7,978.13	21.06	26.30	-176.733	-1,151.81	681.71	1,162.34	1,124.72	37.61	30.901	
8,200.00	8,117.93	8,178.79	8,053.27	21.11	26.59	-177.882	-1,155.82	704.88	1,166.29	1,128.25	38.05	30.655	
8,300.00	8,217.93	8,250.00	8,117.83	21.16	26.86	-179.335	-1,160.93	734.37	1,173.06	1,134.48	38.58	30.406	
8,400.00	8,317.93	8,300.00	8,160.71	21.21	27.06	-179.422	-1,165.32	759.68	1,183.46	1,144.34	39.11	30.256	
8,500.00	8,417.93	8,360.86	8,209.62	21.26	27.30	-177.700	-1,171.49	795.31	1,198.12	1,158.35	39.77	30.123	
8,600.00	8,517.93	8,400.00	8,238.94	21.31	27.45	-176.476	-1,175.92	820.85	1,217.77	1,177.46	40.31	30.210	
8,700.00	8,617.93	8,450.00	8,273.71	21.35	27.65	-174.800	-1,182.05	856.23	1,242.62	1,201.65	40.97	30.332	
8,800.00	8,717.93	8,481.22	8,293.78	21.40	27.77	-173.699	-1,186.13	879.79	1,272.92	1,231.48	41.44	30.720	
8,900.00	8,817.93	8,500.00	8,305.21	21.48	27.84	-181.948	-1,188.68	894.47	1,308.65	1,266.93	41.71	31.373	
9,000.00	8,916.79	8,550.00	8,333.21	21.94	28.03	-176.201	-1,195.74	935.27	1,347.34	1,305.02	42.32	31.837	
9,100.00	9,011.73	8,575.61	8,346.12	22.47	28.13	-171.408	-1,199.52	957.05	1,386.87	1,344.30	42.56	32.583	
9,200.00	9,099.84	8,600.00	8,357.50	23.01	28.22	-166.962	-1,203.20	978.32	1,425.62	1,382.86	42.75	33.344	
9,300.00	9,178.45	8,650.00	8,377.88	23.52	28.41	-162.688	-1,210.99	1,023.28	1,461.80	1,418.44	43.36	33.713	
9,400.00	9,245.16	8,681.62	8,388.69	23.97	28.54	-159.376	-1,216.07	1,052.56	1,494.38	1,450.65	43.74	34.168	
9,500.00	9,297.95	8,718.31	8,399.15	24.35	28.69	-156.719	-1,222.07	1,087.21	1,522.32	1,478.04	44.28	34.380	
9,600.00	9,335.22	8,750.00	8,406.36	24.62	28.82	-154.764	-1,227.34	1,117.61	1,544.84	1,499.99	44.85	34.446	
9,700.00	9,355.84	8,800.00	8,414.24	24.78	29.03	-153.529	-1,235.76	1,166.24	1,561.38	1,515.50	45.88	34.031	
9,800.00	9,360.00	8,829.56	8,416.86	24.83	29.16	-153.077	-1,240.79	1,195.25	1,572.02	1,525.36	46.65	33.697	
9,900.00	9,360.00	8,871.24	8,418.00	24.86	29.36	-153.269	-1,247.90	1,236.29	1,584.17	1,536.45	47.72	33.194	
10,000.00	9,360.00	9,050.62	8,418.00	24.94	30.55	-153.814	-1,272.63	1,413.93	1,595.55	1,543.97	51.57	30.937	
10,021.25	9,360.00	9,089.12	8,418.00	25.05	30.87	-153.898	-1,276.48	1,452.23	1,597.32	1,544.90	52.42	30.470	
10,100.00	9,360.00	9,232.52	8,418.00	26.19	32.33	-154.114	-1,286.30	1,595.28	1,601.88	1,546.25	55.63	28.794	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (03) Bond 33-34 FED COM #106H - #106H - Plan 1											<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1											<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	
10,123.32	9,360.00	9,275.15	8,418.00	26.59	32.83	54.149	-1,287.84	1,637.89	1,602.62	1,546.02	28.315
10,200.00	9,360.00	9,392.91	8,418.00	27.89	34.30	54.179	-1,288.92	1,755.64	1,603.25	1,543.91	27.016
10,223.32	9,360.00	9,416.23	8,418.00	28.29	34.61	54.179	-1,288.85	1,778.96	1,603.25	1,543.29	26.738
10,300.00	9,360.00	9,492.91	8,418.00	29.64	35.67	54.179	-1,288.62	1,855.64	1,603.25	1,541.25	25.857
10,323.32	9,360.00	9,516.23	8,418.00	30.05	36.01	54.179	-1,288.55	1,878.96	1,603.25	1,540.61	25.595
10,400.00	9,360.00	9,592.91	8,418.00	31.43	37.13	54.179	-1,288.32	1,955.64	1,603.25	1,538.51	24.764
10,423.32	9,360.00	9,616.23	8,418.00	31.85	37.48	54.179	-1,288.25	1,978.96	1,603.25	1,537.86	24.517
10,500.00	9,360.00	9,692.91	8,418.00	33.25	38.66	54.179	-1,288.02	2,055.64	1,603.25	1,535.71	23.736
10,523.32	9,360.00	9,716.23	8,418.00	33.68	39.03	54.179	-1,287.96	2,078.96	1,603.25	1,535.04	23.504
10,600.00	9,360.00	9,792.91	8,418.00	35.10	40.25	54.179	-1,287.73	2,155.64	1,603.25	1,532.84	22.771
10,623.32	9,360.00	9,816.23	8,418.00	35.54	40.63	54.179	-1,287.66	2,178.96	1,603.25	1,532.17	22.553
10,700.00	9,360.00	9,892.91	8,418.00	36.98	41.89	54.179	-1,287.43	2,255.64	1,603.25	1,529.93	21.865
10,723.32	9,360.00	9,916.23	8,418.00	37.42	42.28	54.179	-1,287.36	2,278.95	1,603.25	1,529.24	21.661
10,800.00	9,360.00	9,992.91	8,418.00	38.87	43.57	54.179	-1,287.13	2,355.64	1,603.25	1,526.96	21.016
10,823.32	9,360.00	10,016.23	8,418.00	39.32	43.97	54.179	-1,287.06	2,378.95	1,603.25	1,526.27	20.825
10,900.00	9,360.00	10,092.91	8,418.00	40.78	45.29	54.179	-1,286.83	2,455.64	1,603.25	1,523.96	20.220
10,923.32	9,360.00	10,116.23	8,418.00	41.23	45.69	54.179	-1,286.76	2,478.95	1,603.25	1,523.25	20.041
11,000.00	9,360.00	10,192.91	8,418.00	42.71	47.04	54.179	-1,286.53	2,555.64	1,603.25	1,520.92	19.473
11,023.32	9,360.00	10,216.23	8,418.00	43.16	47.45	54.179	-1,286.46	2,578.95	1,603.25	1,520.21	19.305
11,100.00	9,360.00	10,292.91	8,418.00	44.65	48.81	54.179	-1,286.24	2,655.64	1,603.25	1,517.85	18.772
11,123.32	9,360.00	10,316.23	8,418.00	45.10	49.23	54.179	-1,286.17	2,678.95	1,603.25	1,517.13	18.615
11,200.00	9,360.00	10,392.91	8,418.00	46.60	50.61	54.179	-1,285.94	2,755.64	1,603.25	1,514.75	18.114
11,223.32	9,360.00	10,416.23	8,418.00	47.06	51.04	54.179	-1,285.87	2,778.95	1,603.25	1,514.02	17.967
11,300.00	9,360.00	10,492.91	8,418.00	48.56	52.44	54.179	-1,285.64	2,855.63	1,603.25	1,511.62	17.496
11,323.32	9,360.00	10,516.23	8,418.00	49.02	52.86	54.179	-1,285.57	2,878.95	1,603.25	1,510.88	17.357
11,400.00	9,360.00	10,592.91	8,418.00	50.53	54.28	54.179	-1,285.34	2,955.63	1,603.25	1,508.46	16.914
11,423.32	9,360.00	10,616.23	8,418.00	50.99	54.71	54.179	-1,285.27	2,978.95	1,603.25	1,507.73	16.783
11,500.00	9,360.00	10,692.91	8,418.00	52.50	56.13	54.179	-1,285.04	3,055.63	1,603.25	1,505.29	16.366
11,523.32	9,360.00	10,716.23	8,418.00	52.97	56.57	54.179	-1,284.97	3,078.95	1,603.25	1,504.55	16.243
11,600.00	9,360.00	10,792.91	8,418.00	54.49	58.00	54.179	-1,284.74	3,155.63	1,603.25	1,502.10	15.849
11,623.32	9,360.00	10,816.23	8,418.00	54.95	58.44	54.179	-1,284.68	3,178.95	1,603.25	1,501.35	15.733
11,700.00	9,360.00	10,892.91	8,418.00	56.48	59.89	54.179	-1,284.45	3,255.63	1,603.25	1,498.89	15.362
11,723.32	9,360.00	10,916.23	8,418.00	56.94	60.33	54.179	-1,284.38	3,278.95	1,603.25	1,498.14	15.252
11,800.00	9,360.00	10,992.91	8,418.00	58.47	61.79	54.179	-1,284.15	3,355.63	1,603.25	1,495.66	14.901
11,823.32	9,360.00	11,016.23	8,418.00	58.94	62.23	54.179	-1,284.08	3,378.95	1,603.25	1,494.90	14.797
11,900.00	9,360.00	11,092.91	8,418.00	60.47	63.69	54.179	-1,283.85	3,455.63	1,603.25	1,492.42	14.465
11,923.32	9,360.00	11,116.23	8,418.00	60.94	64.14	54.179	-1,283.78	3,478.95	1,603.25	1,491.66	14.367
12,000.00	9,360.00	11,192.91	8,418.00	62.48	65.61	54.179	-1,283.55	3,555.63	1,603.25	1,489.16	14.053
12,023.32	9,360.00	11,216.23	8,418.00	62.95	66.06	54.179	-1,283.48	3,578.95	1,603.25	1,488.40	13.959
12,100.00	9,360.00	11,292.91	8,418.00	64.49	67.54	54.179	-1,283.25	3,655.63	1,603.25	1,485.90	13.661
12,123.32	9,360.00	11,316.23	8,418.00	64.96	67.99	54.179	-1,283.18	3,678.95	1,603.25	1,485.13	13.573
12,200.00	9,360.00	11,392.91	8,418.00	66.50	69.47	54.179	-1,282.96	3,755.63	1,603.25	1,482.62	13.290
12,223.32	9,360.00	11,416.23	8,418.00	66.97	69.92	54.179	-1,282.89	3,778.95	1,603.25	1,481.85	13.206
12,300.00	9,360.00	11,492.91	8,418.00	68.52	71.41	54.179	-1,282.66	3,855.63	1,603.25	1,479.33	12.937
12,323.32	9,360.00	11,516.23	8,418.00	68.99	71.87	54.179	-1,282.59	3,878.95	1,603.25	1,478.56	12.857
12,400.00	9,360.00	11,592.91	8,418.00	70.54	73.36	54.179	-1,282.36	3,955.63	1,603.25	1,476.03	12.602
12,423.32	9,360.00	11,616.23	8,418.00	71.01	73.82	54.179	-1,282.29	3,978.95	1,603.25	1,475.26	12.526
12,500.00	9,360.00	11,692.91	8,418.00	72.56	75.32	54.179	-1,282.06	4,055.63	1,603.25	1,472.72	12.282
12,523.32	9,360.00	11,716.23	8,418.00	73.03	75.77	54.179	-1,281.99	4,078.95	1,603.25	1,471.95	12.210
12,600.00	9,360.00	11,792.91	8,418.00	74.58	77.28	54.179	-1,281.76	4,155.63	1,603.25	1,469.40	11.978
12,623.32	9,360.00	11,816.23	8,418.00	75.06	77.74	54.179	-1,281.69	4,178.95	1,603.25	1,468.63	11.909
12,700.00	9,360.00	11,892.91	8,418.00	76.61	79.24	54.179	-1,281.46	4,255.63	1,603.25	1,466.08	11.688

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (03) Bond 33-34 FED COM #106H - #106H - Plan 1												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Separation Factor</b>	<b>Warning</b>	
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
12,723.32	9,360.00	11,916.23	8,418.00	77.08	79.70	54.179	-1,281.40	4,278.95	1,603.25	1,465.30	137.95	11.622	
12,800.00	9,360.00	11,992.91	8,418.00	78.64	81.22	54.179	-1,281.17	4,355.63	1,603.25	1,462.75	140.50	11.411	
12,823.32	9,360.00	12,016.23	8,418.00	79.11	81.68	54.179	-1,281.10	4,378.95	1,603.25	1,461.97	141.28	11.348	
12,900.00	9,360.00	12,092.91	8,418.00	80.67	83.19	54.179	-1,280.87	4,455.63	1,603.25	1,459.41	143.84	11.146	
12,923.32	9,360.00	12,116.23	8,418.00	81.15	83.65	54.179	-1,280.80	4,478.95	1,603.25	1,458.63	144.62	11.086	
13,000.00	9,360.00	12,192.91	8,418.00	82.71	85.17	54.179	-1,280.57	4,555.63	1,603.25	1,456.07	147.19	10.893	
13,023.32	9,360.00	12,216.23	8,418.00	83.18	85.64	54.179	-1,280.50	4,578.94	1,603.25	1,455.29	147.97	10.835	
13,100.00	9,360.00	12,292.91	8,418.00	84.74	87.16	54.179	-1,280.27	4,655.63	1,603.25	1,452.72	150.54	10.650	
13,123.32	9,360.00	12,316.23	8,418.00	85.22	87.62	54.179	-1,280.20	4,678.94	1,603.25	1,451.93	151.32	10.595	
13,200.00	9,360.00	12,392.91	8,418.00	86.78	89.15	54.179	-1,279.97	4,755.63	1,603.25	1,449.36	153.89	10.418	
13,223.32	9,360.00	12,416.23	8,418.00	87.25	89.61	54.179	-1,279.90	4,778.94	1,603.25	1,448.58	154.68	10.365	
13,300.00	9,360.00	12,492.91	8,418.00	88.82	91.14	54.179	-1,279.68	4,855.63	1,603.25	1,446.00	157.25	10.195	
13,323.32	9,360.00	12,516.23	8,418.00	89.29	91.60	54.179	-1,279.61	4,878.94	1,603.25	1,445.22	158.04	10.145	
13,400.00	9,360.00	12,592.91	8,418.00	90.86	93.13	54.179	-1,279.38	4,955.63	1,603.25	1,442.64	160.62	9.982	
13,423.32	9,360.00	12,616.23	8,418.00	91.33	93.60	54.179	-1,279.31	4,978.94	1,603.25	1,441.85	161.40	9.933	
13,500.00	9,360.00	12,692.91	8,418.00	92.90	95.13	54.179	-1,279.08	5,055.63	1,603.25	1,439.27	163.99	9.777	
13,523.32	9,360.00	12,716.23	8,418.00	93.37	95.60	54.179	-1,279.01	5,078.94	1,603.25	1,438.48	164.77	9.730	
13,600.00	9,360.00	12,792.91	8,418.00	94.94	97.13	54.179	-1,278.78	5,155.62	1,603.25	1,435.89	167.36	9.580	
13,623.32	9,360.00	12,816.23	8,418.00	95.41	97.60	54.179	-1,278.71	5,178.94	1,603.25	1,435.10	168.15	9.535	
13,700.00	9,360.00	12,892.91	8,418.00	96.98	99.14	54.179	-1,278.48	5,255.62	1,603.25	1,432.51	170.74	9.390	
13,723.32	9,360.00	12,916.23	8,418.00	97.46	99.61	54.179	-1,278.41	5,278.94	1,603.25	1,431.73	171.53	9.347	
13,800.00	9,360.00	12,992.91	8,418.00	99.03	101.14	54.179	-1,278.18	5,355.62	1,603.25	1,429.13	174.12	9.208	
13,823.32	9,360.00	13,016.23	8,418.00	99.50	101.61	54.179	-1,278.12	5,378.94	1,603.25	1,428.34	174.91	9.166	
13,900.00	9,360.00	13,092.91	8,418.00	101.07	103.15	54.179	-1,277.89	5,455.62	1,603.25	1,425.75	177.51	9.032	
13,923.32	9,360.00	13,116.23	8,418.00	101.55	103.62	54.179	-1,277.82	5,478.94	1,603.25	1,424.96	178.30	8.992	
14,000.00	9,360.00	13,192.91	8,418.00	103.12	105.17	54.179	-1,277.59	5,555.62	1,603.25	1,422.36	180.89	8.863	
14,023.32	9,360.00	13,216.23	8,418.00	103.60	105.64	54.179	-1,277.52	5,578.94	1,603.25	1,421.57	181.68	8.824	
14,100.00	9,360.00	13,292.91	8,418.00	105.17	107.18	54.179	-1,277.29	5,655.62	1,603.25	1,418.97	184.29	8.700	
14,123.32	9,360.00	13,316.23	8,418.00	105.64	107.65	54.179	-1,277.22	5,678.94	1,603.25	1,418.18	185.08	8.663	
14,200.00	9,360.00	13,392.91	8,418.00	107.21	109.19	54.179	-1,276.99	5,755.62	1,603.25	1,415.57	187.68	8.542	
14,223.32	9,360.00	13,416.23	8,418.00	107.69	109.67	54.179	-1,276.92	5,778.94	1,603.25	1,414.78	188.47	8.507	
14,300.00	9,360.00	13,492.91	8,418.00	109.26	111.21	54.179	-1,276.69	5,855.62	1,603.25	1,412.18	191.08	8.391	
14,323.32	9,360.00	13,516.23	8,418.00	109.74	111.68	54.179	-1,276.62	5,878.94	1,603.25	1,411.38	191.87	8.356	
14,400.00	9,360.00	13,592.91	8,418.00	111.31	113.23	54.179	-1,276.40	5,955.62	1,603.25	1,408.78	194.48	8.244	
14,423.32	9,360.00	13,616.23	8,418.00	111.79	113.70	54.179	-1,276.33	5,978.94	1,603.25	1,407.98	195.27	8.210	
14,500.00	9,360.00	13,692.91	8,418.00	113.36	115.25	54.179	-1,276.10	6,055.62	1,603.25	1,405.37	197.88	8.102	
14,523.32	9,360.00	13,716.23	8,418.00	113.84	115.72	54.179	-1,276.03	6,078.94	1,603.25	1,404.58	198.67	8.070	
14,600.00	9,360.00	13,792.91	8,418.00	115.42	117.28	54.179	-1,275.80	6,155.62	1,603.25	1,401.97	201.29	7.965	
14,623.32	9,360.00	13,816.23	8,418.00	115.89	117.75	54.179	-1,275.73	6,178.94	1,603.25	1,401.17	202.08	7.934	
14,700.00	9,360.00	13,892.91	8,418.00	117.47	119.30	54.179	-1,275.50	6,255.62	1,603.25	1,398.56	204.69	7.833	
14,723.32	9,360.00	13,916.23	8,418.00	117.95	119.77	54.179	-1,275.43	6,278.94	1,603.25	1,397.77	205.49	7.802	
14,800.00	9,360.00	13,992.91	8,418.00	119.52	121.33	54.179	-1,275.20	6,355.62	1,603.25	1,395.15	208.10	7.704	
14,823.32	9,360.00	14,016.23	8,418.00	120.00	121.80	54.179	-1,275.13	6,378.94	1,603.25	1,394.36	208.90	7.675	
14,900.00	9,360.00	14,092.91	8,418.00	121.57	123.35	54.179	-1,274.90	6,455.62	1,603.25	1,391.74	211.51	7.580	
14,923.32	9,360.00	14,116.23	8,418.00	122.05	123.83	54.179	-1,274.84	6,478.94	1,603.25	1,390.94	212.31	7.552	
15,000.00	9,360.00	14,192.91	8,418.00	123.63	125.38	54.179	-1,274.61	6,555.62	1,603.25	1,388.33	214.93	7.460	
15,023.32	9,360.00	14,216.23	8,418.00	124.11	125.86	54.179	-1,274.54	6,578.94	1,603.25	1,387.53	215.72	7.432	
15,100.00	9,360.00	14,292.91	8,418.00	125.68	127.41	54.179	-1,274.31	6,655.62	1,603.25	1,384.91	218.34	7.343	
15,123.32	9,360.00	14,316.23	8,418.00	126.16	127.89	54.179	-1,274.24	6,678.94	1,603.25	1,384.11	219.14	7.316	
15,200.00	9,360.00	14,392.91	8,418.00	127.74	129.44	54.179	-1,274.01	6,755.62	1,603.25	1,381.49	221.76	7.230	
15,223.32	9,360.00	14,416.23	8,418.00	128.22	129.92	54.179	-1,273.94	6,778.93	1,603.25	1,380.70	222.56	7.204	
15,300.00	9,360.00	14,492.91	8,418.00	129.79	131.48	54.179	-1,273.71	6,855.62	1,603.25	1,378.08	225.18	7.120	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (03) Bond 33-34 FED COM #106H - #106H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
15,323.32	9,360.00	14,516.23	8,418.00	130.27	131.95	54.179	-1,273.64	6,878.93	1,603.25	1,377.28	225.98	7.095	
15,400.00	9,360.00	14,592.91	8,418.00	131.85	133.51	54.179	-1,273.41	6,955.62	1,603.25	1,374.65	228.60	7.013	
15,423.32	9,360.00	14,616.23	8,418.00	132.33	133.98	54.179	-1,273.34	6,978.93	1,603.25	1,373.86	229.40	6.989	
15,500.00	9,360.00	14,692.91	8,418.00	133.90	135.54	54.179	-1,273.12	7,055.62	1,603.25	1,371.23	232.02	6.910	
15,523.32	9,360.00	14,716.23	8,418.00	134.38	136.02	54.179	-1,273.05	7,078.93	1,603.25	1,370.43	232.82	6.886	
15,600.00	9,360.00	14,792.91	8,418.00	135.96	137.58	54.179	-1,272.82	7,155.62	1,603.25	1,367.81	235.44	6.809	
15,623.32	9,360.00	14,816.23	8,418.00	136.44	138.05	54.179	-1,272.75	7,178.93	1,603.25	1,367.01	236.24	6.786	
15,700.00	9,360.00	14,892.91	8,418.00	138.02	139.62	54.179	-1,272.52	7,255.62	1,603.25	1,364.38	238.87	6.712	
15,723.32	9,360.00	14,916.23	8,418.00	138.50	140.09	54.179	-1,272.45	7,278.93	1,603.25	1,363.59	239.67	6.689	
15,800.00	9,360.00	14,992.91	8,418.00	140.07	141.65	54.179	-1,272.22	7,355.61	1,603.25	1,360.96	242.30	6.617	
15,823.32	9,360.00	15,016.23	8,418.00	140.55	142.13	54.179	-1,272.15	7,378.93	1,603.25	1,360.16	243.10	6.595	
15,900.00	9,360.00	15,092.91	8,418.00	142.13	143.69	54.179	-1,271.92	7,455.61	1,603.25	1,357.53	245.72	6.525	
15,923.32	9,360.00	15,116.23	8,418.00	142.61	144.17	54.179	-1,271.85	7,478.93	1,603.25	1,356.73	246.52	6.503	
16,000.00	9,360.00	15,192.91	8,418.00	144.19	145.73	54.179	-1,271.62	7,555.61	1,603.25	1,354.10	249.15	6.435	
16,023.32	9,360.00	15,216.23	8,418.00	144.67	146.21	54.179	-1,271.56	7,578.93	1,603.25	1,353.30	249.95	6.414	
16,100.00	9,360.00	15,292.91	8,418.00	146.25	147.77	54.179	-1,271.33	7,655.61	1,603.25	1,350.67	252.58	6.347	
16,123.32	9,360.00	15,316.23	8,418.00	146.73	148.25	54.179	-1,271.26	7,678.93	1,603.25	1,349.87	253.38	6.327	
16,200.00	9,360.00	15,392.91	8,418.00	148.31	149.81	54.179	-1,271.03	7,755.61	1,603.25	1,347.24	256.01	6.262	
16,223.32	9,360.00	15,416.23	8,418.00	148.79	150.29	54.179	-1,270.96	7,778.93	1,603.25	1,346.44	256.81	6.243	
16,300.00	9,360.00	15,492.91	8,418.00	150.37	151.85	54.179	-1,270.73	7,855.61	1,603.25	1,343.81	259.45	6.180	
16,323.32	9,360.00	15,516.23	8,418.00	150.85	152.33	54.179	-1,270.66	7,878.93	1,603.25	1,343.01	260.25	6.160	
16,400.00	9,360.00	15,592.91	8,418.00	152.42	153.90	54.179	-1,270.43	7,955.61	1,603.25	1,340.37	262.88	6.099	
16,423.32	9,360.00	15,616.23	8,418.00	152.90	154.37	54.179	-1,270.36	7,978.93	1,603.25	1,339.57	263.68	6.080	
16,500.00	9,360.00	15,692.91	8,418.00	154.48	155.94	54.179	-1,270.13	8,055.61	1,603.25	1,336.94	266.32	6.020	
16,523.32	9,360.00	15,716.23	8,418.00	154.96	156.42	54.179	-1,270.06	8,078.93	1,603.25	1,336.14	267.12	6.002	
16,600.00	9,360.00	15,792.91	8,418.00	156.54	157.98	54.179	-1,269.84	8,155.61	1,603.25	1,333.50	269.75	5.943	
16,623.32	9,360.00	15,816.23	8,418.00	157.02	158.46	54.179	-1,269.77	8,178.93	1,603.25	1,332.70	270.55	5.926	
16,700.00	9,360.00	15,892.91	8,418.00	158.60	160.03	54.179	-1,269.54	8,255.61	1,603.25	1,330.07	273.19	5.869	
16,723.32	9,360.00	15,916.23	8,418.00	159.08	160.50	54.179	-1,269.47	8,278.93	1,603.25	1,329.27	273.99	5.852	
16,800.00	9,360.00	15,992.91	8,418.00	160.66	162.07	54.179	-1,269.24	8,355.61	1,603.25	1,326.63	276.62	5.796	
16,823.32	9,360.00	16,016.23	8,418.00	161.14	162.55	54.179	-1,269.17	8,378.93	1,603.25	1,325.83	277.43	5.779	
16,900.00	9,360.00	16,092.91	8,418.00	162.73	164.12	54.179	-1,268.94	8,455.61	1,603.25	1,323.19	280.06	5.725	
16,923.32	9,360.00	16,116.23	8,418.00	163.21	164.60	54.179	-1,268.87	8,478.93	1,603.25	1,322.39	280.86	5.708	
17,000.00	9,360.00	16,192.91	8,418.00	164.79	166.16	54.179	-1,268.64	8,555.61	1,603.25	1,319.75	283.50	5.655	
17,023.32	9,360.00	16,216.23	8,418.00	165.27	166.64	54.179	-1,268.57	8,578.93	1,603.25	1,318.95	284.30	5.639	
17,100.00	9,360.00	16,292.91	8,418.00	166.85	168.21	54.179	-1,268.34	8,655.61	1,603.25	1,316.31	286.94	5.587	
17,123.32	9,360.00	16,316.23	8,418.00	167.33	168.69	54.179	-1,268.28	8,678.93	1,603.25	1,315.51	287.74	5.572	
17,200.00	9,360.00	16,392.91	8,418.00	168.91	170.26	54.179	-1,268.05	8,755.61	1,603.25	1,312.87	290.38	5.521	
17,223.32	9,360.00	16,416.23	8,418.00	169.39	170.74	54.179	-1,267.98	8,778.93	1,603.25	1,312.07	291.19	5.506	
17,300.00	9,360.00	16,492.91	8,418.00	170.97	172.31	54.179	-1,267.75	8,855.61	1,603.25	1,309.43	293.82	5.456	
17,323.32	9,360.00	16,516.23	8,418.00	171.45	172.78	54.179	-1,267.68	8,878.93	1,603.25	1,308.63	294.63	5.442	
17,400.00	9,360.00	16,592.91	8,418.00	173.03	174.36	54.179	-1,267.45	8,955.61	1,603.25	1,305.99	297.27	5.393	
17,423.32	9,360.00	16,616.23	8,418.00	173.51	174.83	54.179	-1,267.38	8,978.93	1,603.25	1,305.18	298.07	5.379	
17,500.00	9,360.00	16,692.91	8,418.00	175.09	176.40	54.179	-1,267.15	9,055.61	1,603.25	1,302.54	300.71	5.332	
17,523.32	9,360.00	16,716.23	8,418.00	175.57	176.88	54.179	-1,267.08	9,078.92	1,603.25	1,301.74	301.51	5.317	
17,600.00	9,360.00	16,792.91	8,418.00	177.16	178.45	54.179	-1,266.85	9,155.61	1,603.25	1,299.10	304.15	5.271	
17,623.32	9,360.00	16,816.23	8,418.00	177.64	178.93	54.179	-1,266.78	9,178.92	1,603.25	1,298.30	304.96	5.257	
17,700.00	9,360.00	16,892.91	8,418.00	179.22	180.50	54.179	-1,266.56	9,255.61	1,603.25	1,295.66	307.60	5.212	
17,723.32	9,360.00	16,916.23	8,418.00	179.70	180.98	54.179	-1,266.49	9,278.92	1,603.25	1,294.85	308.40	5.199	
17,800.00	9,360.00	16,992.91	8,418.00	181.28	182.55	54.179	-1,266.26	9,355.61	1,603.25	1,292.21	311.04	5.154	
17,823.32	9,360.00	17,016.23	8,418.00	181.76	183.03	54.179	-1,266.19	9,378.92	1,603.25	1,291.41	311.85	5.141	
17,900.00	9,360.00	17,092.91	8,418.00	183.34	184.60	54.179	-1,265.96	9,455.61	1,603.25	1,288.76	314.49	5.098	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (03) Bond 33-34 FED COM #106H - #106H - Plan 1												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Separation Factor</b>	<b>Warning</b>	
<b>Measured Depth</b>	<b>Vertical Depth</b>	<b>Measured Depth</b>	<b>Vertical Depth</b>	<b>Reference</b>	<b>Offset</b>		<b>+N/-S</b>	<b>+E/-W</b>	<b>Between Centres</b>	<b>Between Ellipses</b>			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
17,923.32	9,360.00	17,116.23	8,418.00	183.82	185.08	54.179	-1,265.89	9,478.92	1,603.25	1,287.96	315.29	5.085	
18,000.00	9,360.00	17,192.91	8,418.00	185.41	186.66	54.179	-1,265.66	9,555.61	1,603.25	1,285.32	317.94	5.043	
18,023.32	9,360.00	17,216.23	8,418.00	185.89	187.13	54.179	-1,265.59	9,578.92	1,603.25	1,284.51	318.74	5.030	
18,100.00	9,360.00	17,292.91	8,418.00	187.47	188.71	54.179	-1,265.36	9,655.60	1,603.25	1,281.87	321.38	4.989	
18,123.32	9,360.00	17,316.23	8,418.00	187.95	189.19	54.179	-1,265.29	9,678.92	1,603.25	1,281.07	322.19	4.976	
18,200.00	9,360.00	17,392.91	8,418.00	189.53	190.76	54.179	-1,265.06	9,755.60	1,603.25	1,278.42	324.83	4.936	
18,223.32	9,360.00	17,416.23	8,418.00	190.01	191.24	54.179	-1,265.00	9,778.92	1,603.25	1,277.62	325.63	4.923	
18,300.00	9,360.00	17,492.91	8,418.00	191.59	192.81	54.179	-1,264.77	9,855.60	1,603.25	1,274.98	328.28	4.884	
18,323.32	9,360.00	17,516.23	8,418.00	192.08	193.29	54.179	-1,264.70	9,878.92	1,603.25	1,274.17	329.08	4.872	
18,400.00	9,360.00	17,592.91	8,418.00	193.66	194.86	54.179	-1,264.47	9,955.60	1,603.25	1,271.53	331.73	4.833	
18,423.32	9,360.00	17,616.23	8,418.00	194.14	195.34	54.179	-1,264.40	9,978.92	1,603.25	1,270.72	332.53	4.821	
18,500.00	9,360.00	17,692.91	8,418.00	195.72	196.92	54.179	-1,264.17	10,055.60	1,603.25	1,268.08	335.18	4.783	
18,523.32	9,360.00	17,716.23	8,418.00	196.20	197.40	54.179	-1,264.10	10,078.92	1,603.25	1,267.27	335.98	4.772	
18,600.00	9,360.00	17,792.91	8,418.00	197.78	198.97	54.179	-1,263.87	10,155.60	1,603.25	1,264.63	338.63	4.735	
18,623.32	9,360.00	17,816.23	8,418.00	198.27	199.45	54.179	-1,263.80	10,178.92	1,603.25	1,263.82	339.43	4.723	
18,700.00	9,360.00	17,892.91	8,418.00	199.85	201.02	54.179	-1,263.57	10,255.60	1,603.25	1,261.18	342.08	4.687	
18,723.32	9,360.00	17,916.23	8,418.00	200.33	201.50	54.179	-1,263.50	10,278.92	1,603.25	1,260.37	342.88	4.676	
18,800.00	9,360.00	17,992.91	8,418.00	201.91	203.08	54.179	-1,263.28	10,355.60	1,603.25	1,257.73	345.53	4.640	
18,823.32	9,360.00	18,016.23	8,418.00	202.39	203.56	54.179	-1,263.21	10,378.92	1,603.25	1,256.92	346.33	4.629	
18,900.00	9,360.00	18,092.91	8,418.00	203.98	205.13	54.179	-1,262.98	10,455.60	1,603.25	1,254.28	348.98	4.594	
18,923.32	9,360.00	18,116.23	8,418.00	204.46	205.61	54.179	-1,262.91	10,478.92	1,603.25	1,253.47	349.78	4.584	
19,000.00	9,360.00	18,192.91	8,418.00	206.04	207.19	54.179	-1,262.68	10,555.60	1,603.25	1,250.83	352.43	4.549	
19,023.32	9,360.00	18,216.23	8,418.00	206.52	207.67	54.179	-1,262.61	10,578.92	1,603.25	1,250.02	353.23	4.539	
19,100.00	9,360.00	18,292.91	8,418.00	208.10	209.24	54.179	-1,262.38	10,655.60	1,603.25	1,247.37	355.88	4.505	
19,123.32	9,360.00	18,316.23	8,418.00	208.59	209.72	54.179	-1,262.31	10,678.92	1,603.25	1,246.57	356.69	4.495	
19,200.00	9,360.00	18,392.91	8,418.00	210.17	211.30	54.179	-1,262.08	10,755.60	1,603.25	1,243.92	359.33	4.462	
19,223.32	9,360.00	18,416.23	8,418.00	210.65	211.78	54.179	-1,262.01	10,778.92	1,603.25	1,243.12	360.14	4.452	
19,300.00	9,360.00	18,492.91	8,418.00	212.23	213.35	54.179	-1,261.78	10,855.60	1,603.25	1,240.47	362.79	4.419	
19,323.32	9,360.00	18,516.23	8,418.00	212.71	213.83	54.179	-1,261.72	10,878.92	1,603.25	1,239.66	363.59	4.410	
19,400.00	9,360.00	18,592.91	8,418.00	214.30	215.41	54.179	-1,261.49	10,955.60	1,603.25	1,237.02	366.24	4.378	
19,423.32	9,360.00	18,616.23	8,418.00	214.78	215.89	54.179	-1,261.42	10,978.92	1,603.25	1,236.21	367.04	4.368	
19,500.00	9,360.00	18,692.91	8,418.00	216.36	217.46	54.179	-1,261.19	11,055.60	1,603.25	1,233.56	369.69	4.337	
19,523.32	9,360.00	18,716.23	8,418.00	216.84	217.94	54.179	-1,261.12	11,078.92	1,603.25	1,232.76	370.50	4.327	
19,600.00	9,360.00	18,792.91	8,418.00	218.43	219.52	54.179	-1,260.89	11,155.60	1,603.25	1,230.11	373.15	4.297	
19,623.32	9,360.00	18,816.23	8,418.00	218.91	220.00	54.179	-1,260.82	11,178.92	1,603.25	1,229.30	373.95	4.287	
19,700.00	9,360.00	18,892.91	8,418.00	220.49	221.58	54.179	-1,260.59	11,255.60	1,603.25	1,226.65	376.60	4.257	
19,723.32	9,360.00	18,916.23	8,418.00	220.97	222.06	54.179	-1,260.52	11,278.92	1,603.25	1,225.85	377.41	4.248	
19,800.00	9,360.00	18,992.91	8,418.00	222.56	223.63	54.179	-1,260.29	11,355.60	1,603.25	1,223.20	380.05	4.218	
19,823.32	9,360.00	19,016.23	8,418.00	223.04	224.11	54.179	-1,260.22	11,378.91	1,603.25	1,222.39	380.86	4.210	
19,900.00	9,360.00	19,092.91	8,418.00	224.62	225.69	54.179	-1,260.00	11,455.60	1,603.25	1,219.75	383.51	4.180	
19,923.32	9,360.00	19,116.23	8,418.00	225.10	226.17	54.179	-1,259.93	11,478.91	1,603.25	1,218.94	384.32	4.172	
20,000.00	9,360.00	19,192.91	8,418.00	226.69	227.75	54.179	-1,259.70	11,555.60	1,603.25	1,216.29	386.96	4.143	
20,023.32	9,360.00	19,216.23	8,418.00	227.17	228.23	54.179	-1,259.63	11,578.91	1,603.25	1,215.48	387.77	4.135	
20,100.00	9,360.00	19,292.91	8,418.00	228.75	229.80	54.179	-1,259.40	11,655.60	1,603.25	1,212.83	390.42	4.106	
20,118.99	9,360.00	19,311.91	8,418.00	229.14	230.20	54.179	-1,259.34	11,674.59	1,603.25	1,212.18	391.08	4.100	
20,181.28	9,360.00	19,374.19	8,418.00	230.43	231.48	54.179	-1,259.16	11,736.88	1,603.25	1,210.03	393.23	4.077 SF	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	171.270	-256.63	39.41	259.66				
100.00	100.00	96.93	96.93	0.79	0.76	171.270	-256.63	39.41	259.64	258.09	1.55	167.816	
200.00	200.00	196.93	196.93	1.45	1.43	171.270	-256.63	39.41	259.64	256.77	2.87	90.407	
300.00	300.00	296.93	296.93	1.89	1.88	171.270	-256.63	39.41	259.64	255.87	3.77	68.876	
400.00	400.00	396.93	396.93	2.25	2.24	171.270	-256.63	39.41	259.64	255.14	4.50	57.746	
500.00	500.00	496.93	496.93	2.57	2.56	171.270	-256.63	39.41	259.64	254.52	5.13	50.655	
600.00	600.00	596.93	596.93	2.85	2.84	171.270	-256.63	39.41	259.64	253.95	5.69	45.627	
700.00	700.00	696.93	696.93	3.11	3.10	171.270	-256.63	39.41	259.64	253.43	6.21	41.821	
800.00	800.00	796.93	796.93	3.35	3.34	171.270	-256.63	39.41	259.64	252.95	6.69	38.809	
900.00	900.00	896.93	896.93	3.58	3.57	171.270	-256.63	39.41	259.64	252.50	7.14	36.347	
1,000.00	1,000.00	996.93	996.93	3.79	3.78	171.270	-256.63	39.41	259.64	252.07	7.57	34.286	
1,100.00	1,100.00	1,096.93	1,096.93	3.99	3.99	171.270	-256.63	39.41	259.64	251.66	7.98	32.526	
1,200.00	1,200.00	1,196.93	1,196.93	4.19	4.18	171.270	-256.63	39.41	259.64	251.27	8.38	31.000	
1,300.00	1,300.00	1,296.93	1,296.93	4.38	4.37	171.270	-256.63	39.41	259.64	250.89	8.75	29.660	
1,400.00	1,400.00	1,396.93	1,396.93	4.56	4.56	171.270	-256.63	39.41	259.64	250.52	9.12	28.471	
1,500.00	1,500.00	1,496.93	1,496.93	4.74	4.73	171.270	-256.63	39.41	259.64	250.17	9.47	27.406	
1,600.00	1,600.00	1,596.93	1,596.93	4.91	4.91	171.270	-256.63	39.41	259.64	249.82	9.82	26.445	
1,700.00	1,700.00	1,696.93	1,696.93	5.08	5.07	171.270	-256.63	39.41	259.64	249.49	10.15	25.572	
1,800.00	1,800.00	1,796.93	1,796.93	5.24	5.24	171.270	-256.63	39.41	259.64	249.16	10.48	24.774	
1,900.00	1,900.00	1,896.93	1,896.93	5.40	5.40	171.270	-256.63	39.41	259.64	248.84	10.80	24.041	
2,000.00	2,000.00	1,996.93	1,996.93	5.56	5.55	171.270	-256.63	39.41	259.64	248.53	11.11	23.365	
2,100.00	2,100.00	2,096.93	2,096.93	5.71	5.71	171.270	-256.63	39.41	259.64	248.22	11.42	22.738	
2,200.00	2,200.00	2,196.93	2,196.93	5.86	5.86	171.270	-256.63	39.41	259.64	247.92	11.72	22.154	
2,300.00	2,300.00	2,296.93	2,296.93	6.01	6.01	171.270	-256.63	39.41	259.64	247.63	12.02	21.609	
2,400.00	2,400.00	2,396.93	2,396.93	6.16	6.15	171.270	-256.63	39.41	259.64	247.34	12.31	21.099	
2,500.00	2,500.00	2,496.93	2,496.93	6.30	6.29	171.270	-256.63	39.41	259.64	247.05	12.59	20.620	
2,600.00	2,600.00	2,597.60	2,597.58	6.44	6.53	170.853	-256.21	41.25	259.51	246.65	12.87	20.171	
2,700.00	2,700.00	2,697.99	2,697.79	6.58	6.77	169.553	-254.90	47.00	259.20	246.07	13.13	19.746	
2,800.00	2,800.00	2,797.75	2,797.06	6.71	7.02	167.385	-252.72	56.56	258.97	245.59	13.39	19.348	
2,808.93	2,808.93	2,806.61	2,805.86	6.73	7.04	167.150	-252.49	57.59	258.97	245.57	13.40	19.323	
2,900.00	2,900.00	2,896.97	2,895.50	6.85	7.18	164.648	-249.97	68.63	259.22	245.59	13.63	19.020	
3,000.00	3,000.00	2,996.18	2,993.92	6.98	7.37	161.906	-247.20	80.77	260.08	246.19	13.89	18.727	
3,100.00	3,100.00	3,095.39	3,092.35	7.12	7.58	159.188	-244.43	92.91	261.53	247.38	14.15	18.483	
3,200.00	3,200.00	3,194.60	3,190.77	7.25	7.81	156.506	-241.66	105.05	263.58	249.16	14.42	18.285	
3,300.00	3,300.00	3,293.81	3,289.20	7.37	8.05	153.870	-238.89	117.19	266.20	251.51	14.69	18.125	
3,400.00	3,400.00	3,393.01	3,387.62	7.50	8.30	151.291	-236.12	129.32	269.38	254.41	14.97	18.000	
3,500.00	3,500.00	3,492.22	3,486.05	7.63	8.57	148.775	-233.35	141.46	273.10	257.85	15.25	17.903	
3,600.00	3,599.98	3,591.63	3,584.67	7.80	8.85	157.190	-230.58	153.63	276.39	260.84	15.56	17.768	
3,700.00	3,699.84	3,691.34	3,683.59	7.98	9.14	155.647	-227.80	165.83	278.09	262.23	15.85	17.543	
3,800.00	3,799.45	3,791.23	3,782.69	8.16	9.45	154.733	-225.01	178.05	277.94	261.79	16.16	17.204	
3,900.00	3,898.70	3,891.19	3,881.86	8.36	9.76	154.435	-222.22	190.28	275.82	259.36	16.46	16.756	
4,000.00	3,997.47	3,991.09	3,980.97	8.59	10.08	154.761	-219.43	202.50	271.68	254.92	16.76	16.208	
4,100.00	4,095.62	4,090.82	4,079.91	8.83	10.41	155.745	-216.65	214.70	265.57	248.51	17.05	15.574	
4,200.00	4,193.08	4,190.25	4,178.56	9.02	10.74	157.387	-213.87	226.87	257.69	240.42	17.27	14.921	
4,300.00	4,290.34	4,289.59	4,277.11	9.26	11.08	159.214	-211.10	239.03	249.52	232.01	17.51	14.247	
4,400.00	4,387.59	4,388.93	4,375.66	9.50	11.42	161.161	-208.33	251.18	241.63	223.88	17.75	13.613	
4,500.00	4,484.84	4,488.26	4,474.21	9.77	11.77	163.236	-205.55	263.34	234.04	216.06	17.98	13.017	
4,600.00	4,582.09	4,587.60	4,572.77	10.05	12.12	165.446	-202.78	275.49	226.77	208.57	18.20	12.459	
4,700.00	4,679.34	4,686.94	4,671.32	10.35	12.48	167.798	-200.01	287.64	219.87	201.45	18.42	11.937	
4,800.00	4,776.59	4,786.28	4,769.87	10.66	12.84	170.296	-197.24	299.80	213.36	194.72	18.64	11.448	
4,900.00	4,873.84	4,885.62	4,868.42	10.99	13.20	172.944	-194.46	311.95	207.28	188.42	18.86	10.991	
5,000.00	4,971.09	4,984.95	4,966.98	11.32	13.57	175.744	-191.69	324.11	201.67	182.58	19.09	10.562	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>		<b>Highside Toolface (°)</b>	<b>Offset Wellbore Centre</b>		<b>Distance</b>		<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>		<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>			
5,100.00	5,068.34	5,084.29	5,065.53	11.67	13.94	78.696	-188.92	336.26	196.58	177.22	19.35	10.157	
5,200.00	5,165.59	5,183.63	5,164.08	12.03	14.31	81.794	-186.15	348.42	192.04	172.39	19.65	9.772	
5,300.00	5,262.84	5,282.97	5,262.63	12.39	14.69	85.030	-183.37	360.57	188.09	168.09	20.00	9.404	
5,400.00	5,360.09	5,382.31	5,361.19	12.77	15.07	88.392	-180.60	372.73	184.77	164.35	20.42	9.048	
5,500.00	5,457.34	5,481.64	5,459.74	13.15	15.45	91.863	-177.83	384.88	182.12	161.19	20.93	8.703	
5,600.00	5,554.59	5,580.98	5,558.29	13.54	15.83	95.422	-175.06	397.04	180.16	158.64	21.53	8.369	
5,700.00	5,651.84	5,680.32	5,656.85	13.93	16.22	99.043	-172.28	409.19	178.92	156.69	22.24	8.047	
5,800.00	5,749.09	5,779.66	5,755.40	14.33	16.60	102.700	-169.51	421.35	178.42	155.36	23.05	7.740	
5,818.62	5,767.20	5,798.15	5,773.74	14.41	16.67	103.382	-169.00	423.61	178.40	155.19	23.22	7.684	
5,900.00	5,846.35	5,879.00	5,853.95	14.74	16.99	106.362	-166.74	433.50	178.65	154.67	23.98	7.451	
6,000.00	5,943.60	5,978.33	5,952.50	15.15	17.38	110.000	-163.97	445.66	179.62	154.62	25.00	7.185	
6,100.00	6,040.85	6,077.67	6,051.06	15.57	17.77	113.585	-161.19	457.81	181.31	155.20	26.10	6.945	
6,200.00	6,138.10	6,177.01	6,149.61	15.99	18.16	117.091	-158.42	469.96	183.70	156.42	27.28	6.733	
6,300.00	6,235.35	6,276.35	6,248.16	16.41	18.56	120.496	-155.65	482.12	186.78	158.26	28.51	6.550	
6,400.00	6,332.60	6,375.69	6,346.71	16.84	18.95	123.781	-152.88	494.27	190.50	160.71	29.78	6.396	
6,500.00	6,429.85	6,475.02	6,445.27	17.27	19.35	126.932	-150.10	506.43	194.82	163.75	31.07	6.270	
6,600.00	6,527.10	6,574.36	6,543.82	17.70	19.74	129.938	-147.33	518.58	199.71	167.35	32.37	6.170	
6,700.00	6,624.35	6,673.70	6,642.37	18.14	20.14	132.795	-144.56	530.74	205.13	171.46	33.67	6.093	
6,800.00	6,721.92	6,773.19	6,741.07	18.59	20.54	135.289	-141.78	542.91	210.01	175.12	34.89	6.019	
6,900.00	6,820.20	6,872.95	6,840.04	19.03	20.94	137.020	-139.00	555.12	212.69	176.73	35.96	5.915	
7,000.00	6,919.06	6,972.87	6,939.17	19.46	21.35	138.056	-136.21	567.34	212.95	176.07	36.88	5.775	
7,100.00	7,018.38	7,072.83	7,038.34	19.87	21.75	138.434	-133.42	579.57	210.65	173.01	37.64	5.596	
7,200.00	7,118.05	7,172.70	7,137.42	20.25	22.15	138.146	-130.63	591.79	205.75	167.51	38.23	5.381	
7,300.00	7,217.94	7,272.36	7,236.30	20.58	22.56	137.136	-127.85	603.99	198.27	159.66	38.61	5.135	
7,400.00	7,317.93	7,371.70	7,334.86	20.72	22.96	135.297	-125.08	616.14	188.41	149.76	38.64	4.876	
7,500.00	7,417.93	7,470.91	7,433.28	20.78	23.36	137.461	-122.31	628.28	177.92	139.44	38.48	4.624	
7,600.00	7,517.93	7,569.99	7,531.58	20.82	23.76	139.886	-119.54	640.40	167.71	129.53	38.18	4.393	
7,700.00	7,617.93	7,669.59	7,625.64	20.87	24.14	142.060	-117.32	650.17	159.36	121.53	37.83	4.212	
7,800.00	7,717.93	7,769.81	7,720.63	20.92	24.50	143.590	-115.87	656.51	154.12	116.50	37.63	4.096	
7,900.00	7,817.93	7,865.39	7,816.16	20.97	24.75	144.307	-115.22	659.35	151.83	114.27	37.56	4.042	
8,000.00	7,917.93	7,969.81	7,930.26	21.01	25.13	146.077	-114.06	665.78	148.00	110.36	37.64	3.932	
8,100.00	8,017.93	8,085.22	8,041.90	21.06	25.74	155.210	-109.03	693.84	131.80	96.44	35.35	3.728	
8,200.00	8,117.93	8,185.96	8,132.98	21.11	26.30	173.735	-101.48	735.90	111.70	81.29	30.41	3.673	
8,266.09	8,184.02	8,243.20	8,180.95	21.14	26.61	169.830	-95.98	766.59	105.72	77.16	28.56	3.702 CC, ES	
8,300.00	8,217.93	8,269.73	8,202.07	21.16	26.75	161.199	-93.14	782.39	107.69	78.18	29.51	3.650 SF	
8,400.00	8,317.93	8,337.74	8,252.63	21.21	27.10	139.649	-85.12	827.11	137.22	101.51	35.70	3.843	
8,500.00	8,417.93	8,392.62	8,289.27	21.26	27.35	125.770	-77.91	867.29	193.43	154.63	38.80	4.986	
8,600.00	8,517.93	8,437.06	8,315.98	21.31	27.54	117.320	-71.64	902.25	264.05	224.62	39.43	6.696	
8,700.00	8,617.93	8,473.39	8,335.71	21.35	27.68	111.962	-66.26	932.26	342.68	303.40	39.28	8.724	
8,800.00	8,717.93	8,500.00	8,348.91	21.40	27.78	108.741	-62.18	955.00	426.30	387.54	38.75	11.000	
8,900.00	8,817.91	8,528.90	8,362.03	21.48	27.87	14.571	-57.63	980.34	512.83	474.25	38.58	13.294	
9,000.00	8,916.79	8,550.00	8,370.77	21.94	27.94	10.128	-54.24	999.24	595.47	557.47	38.00	15.669	
9,100.00	9,011.73	8,586.26	8,384.12	22.47	28.04	7.026	-48.29	1,032.41	670.95	633.10	37.84	17.729	
9,200.00	9,099.84	8,618.48	8,394.18	23.01	28.11	5.210	-42.89	1,062.54	738.52	701.13	37.39	19.750	
9,300.00	9,178.45	8,650.00	8,402.34	23.52	28.18	3.999	-37.51	1,092.51	797.39	760.55	36.84	21.646	
9,400.00	9,245.16	8,700.00	8,411.81	23.97	28.25	2.861	-28.84	1,140.81	847.16	810.40	36.76	23.046	
9,500.00	9,297.95	8,723.13	8,414.74	24.35	28.27	2.351	-24.79	1,163.40	886.66	850.76	35.89	24.702	
9,600.00	9,335.22	8,750.00	8,416.98	24.62	28.30	1.905	-20.07	1,189.75	916.34	881.15	35.18	26.045	
9,700.00	9,355.84	8,816.26	8,418.00	24.78	28.32	1.119	-8.55	1,254.98	934.95	899.65	35.30	26.489	
9,722.25	9,358.22	8,837.97	8,418.00	24.79	28.32	0.902	-5.03	1,276.40	937.26	901.82	35.45	26.440	
9,800.00	9,360.00	8,914.65	8,418.00	24.83	28.34	0.232	6.07	1,352.27	938.94	902.94	36.00	26.084	
9,900.00	9,360.00	9,014.09	8,418.00	24.86	28.37	-0.444	17.45	1,451.06	938.96	902.24	36.72	25.570	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
10,000.00	9,360.00	9,114.19	8,418.00	24.94	28.43	-0.913	25.43	1,550.83	939.05	901.54	37.51	25.033	
10,100.00	9,360.00	9,214.71	8,418.00	26.19	28.56	-1.169	29.93	1,651.24	939.13	900.77	38.36	24.483	
10,200.00	9,360.00	9,315.18	8,418.00	27.89	28.90	-1.220	31.07	1,751.70	939.14	899.91	39.24	23.935	
10,223.32	9,360.00	9,338.50	8,418.00	28.29	29.05	-1.220	31.14	1,775.02	939.14	899.69	39.45	23.807	
10,300.00	9,360.00	9,415.18	8,418.00	29.64	29.83	-1.220	31.37	1,851.70	939.14	899.00	40.15	23.393	
10,323.32	9,360.00	9,438.50	8,418.00	30.05	30.14	-1.220	31.44	1,875.02	939.14	898.78	40.37	23.265	
10,400.00	9,360.00	9,515.18	8,418.00	31.43	31.32	-1.220	31.67	1,951.70	939.14	898.05	41.10	22.852	
10,423.32	9,360.00	9,538.50	8,418.00	31.85	31.71	-1.220	31.74	1,975.02	939.14	897.82	41.33	22.725	
10,500.00	9,360.00	9,615.18	8,418.00	33.25	33.03	-1.220	31.97	2,051.70	939.14	897.06	42.08	22.316	
10,523.32	9,360.00	9,638.50	8,418.00	33.68	33.45	-1.220	32.04	2,075.02	939.14	896.82	42.32	22.191	
10,600.00	9,360.00	9,715.18	8,418.00	35.10	34.83	-1.220	32.27	2,151.70	939.14	896.04	43.11	21.787	
10,623.32	9,360.00	9,738.50	8,418.00	35.54	35.26	-1.220	32.33	2,175.02	939.14	895.79	43.35	21.664	
10,700.00	9,360.00	9,815.18	8,418.00	36.98	36.68	-1.220	32.56	2,251.70	939.14	894.98	44.16	21.267	
10,723.32	9,360.00	9,838.50	8,418.00	37.42	37.11	-1.220	32.63	2,275.02	939.14	894.73	44.41	21.146	
10,800.00	9,360.00	9,915.18	8,418.00	38.87	38.55	-1.220	32.86	2,351.70	939.14	893.90	45.24	20.758	
10,823.32	9,360.00	9,938.50	8,418.00	39.32	39.00	-1.220	32.93	2,375.02	939.14	893.64	45.50	20.640	
10,900.00	9,360.00	10,015.18	8,418.00	40.78	40.45	-1.220	33.16	2,451.70	939.14	892.79	46.35	20.260	
10,923.32	9,360.00	10,038.50	8,418.00	41.23	40.90	-1.220	33.23	2,475.02	939.14	892.52	46.62	20.145	
11,000.00	9,360.00	10,115.18	8,418.00	42.71	42.37	-1.220	33.46	2,551.70	939.14	891.65	47.49	19.774	
11,023.32	9,360.00	10,138.50	8,418.00	43.16	42.82	-1.220	33.53	2,575.02	939.14	891.38	47.76	19.662	
11,100.00	9,360.00	10,215.18	8,418.00	44.65	44.31	-1.220	33.76	2,651.70	939.14	890.49	48.65	19.302	
11,123.32	9,360.00	10,238.50	8,418.00	45.10	44.76	-1.220	33.83	2,675.02	939.14	890.21	48.93	19.193	
11,200.00	9,360.00	10,315.18	8,418.00	46.60	46.25	-1.220	34.05	2,751.70	939.14	889.30	49.84	18.843	
11,223.32	9,360.00	10,338.50	8,418.00	47.06	46.71	-1.220	34.12	2,775.02	939.14	889.02	50.12	18.738	
11,300.00	9,360.00	10,415.18	8,418.00	48.56	48.21	-1.220	34.35	2,851.70	939.14	888.10	51.04	18.399	
11,323.32	9,360.00	10,438.50	8,418.00	49.02	48.67	-1.220	34.42	2,875.02	939.14	887.81	51.33	18.296	
11,400.00	9,360.00	10,515.18	8,418.00	50.53	50.18	-1.220	34.65	2,951.70	939.14	886.87	52.27	17.967	
11,423.32	9,360.00	10,538.50	8,418.00	50.99	50.64	-1.220	34.72	2,975.02	939.14	886.58	52.56	17.868	
11,500.00	9,360.00	10,615.18	8,418.00	52.50	52.15	-1.220	34.95	3,051.70	939.14	885.63	53.51	17.550	
11,523.32	9,360.00	10,638.50	8,418.00	52.97	52.61	-1.220	35.02	3,075.02	939.14	885.34	53.81	17.454	
11,600.00	9,360.00	10,715.18	8,418.00	54.49	54.13	-1.220	35.25	3,151.70	939.14	884.37	54.77	17.146	
11,623.32	9,360.00	10,738.50	8,418.00	54.95	54.59	-1.220	35.32	3,175.01	939.14	884.07	55.07	17.054	
11,700.00	9,360.00	10,815.18	8,418.00	56.48	56.12	-1.220	35.55	3,251.70	939.14	883.10	56.05	16.756	
11,723.32	9,360.00	10,838.50	8,418.00	56.94	56.58	-1.220	35.61	3,275.01	939.14	882.80	56.35	16.667	
11,800.00	9,360.00	10,915.18	8,418.00	58.47	58.11	-1.220	35.84	3,351.70	939.14	881.81	57.34	16.379	
11,823.32	9,360.00	10,938.50	8,418.00	58.94	58.58	-1.220	35.91	3,375.01	939.14	881.50	57.64	16.293	
11,900.00	9,360.00	11,015.18	8,418.00	60.47	60.11	-1.220	36.14	3,451.70	939.14	880.50	58.64	16.015	
11,923.32	9,360.00	11,038.50	8,418.00	60.94	60.58	-1.220	36.21	3,475.01	939.14	880.19	58.95	15.932	
12,000.00	9,360.00	11,115.18	8,418.00	62.48	62.12	-1.220	36.44	3,551.70	939.14	879.18	59.96	15.663	
12,023.32	9,360.00	11,138.50	8,418.00	62.95	62.58	-1.220	36.51	3,575.01	939.14	878.88	60.27	15.583	
12,100.00	9,360.00	11,215.18	8,418.00	64.49	64.12	-1.220	36.74	3,651.70	939.14	877.86	61.29	15.324	
12,123.32	9,360.00	11,238.50	8,418.00	64.96	64.59	-1.220	36.81	3,675.01	939.14	877.54	61.60	15.246	
12,200.00	9,360.00	11,315.18	8,418.00	66.50	66.14	-1.220	37.04	3,751.69	939.14	876.52	62.63	14.996	
12,223.32	9,360.00	11,338.50	8,418.00	66.97	66.61	-1.220	37.11	3,775.01	939.14	876.20	62.94	14.921	
12,300.00	9,360.00	11,415.18	8,418.00	68.52	68.15	-1.220	37.33	3,851.69	939.14	875.17	63.98	14.679	
12,323.32	9,360.00	11,438.50	8,418.00	68.99	68.62	-1.220	37.40	3,875.01	939.14	874.85	64.29	14.607	
12,400.00	9,360.00	11,515.18	8,418.00	70.54	70.17	-1.220	37.63	3,951.69	939.14	873.81	65.34	14.374	
12,423.32	9,360.00	11,538.50	8,418.00	71.01	70.64	-1.220	37.70	3,975.01	939.14	873.49	65.66	14.304	
12,500.00	9,360.00	11,615.18	8,418.00	72.56	72.19	-1.220	37.93	4,051.69	939.14	872.44	66.71	14.078	
12,523.32	9,360.00	11,638.50	8,418.00	73.03	72.66	-1.220	38.00	4,075.01	939.14	872.11	67.03	14.011	
12,600.00	9,360.00	11,715.18	8,418.00	74.58	74.22	-1.220	38.23	4,151.69	939.14	871.06	68.09	13.793	
12,623.32	9,360.00	11,738.50	8,418.00	75.06	74.69	-1.220	38.30	4,175.01	939.14	870.73	68.41	13.728	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	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						Rule Assigned:				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)		Separation Factor		
12,700.00	9,360.00	11,815.18	8,418.00	76.61	76.24	-1.220	38.53	4,251.69	939.14	869.67	69.47	13.518			
12,723.32	9,360.00	11,838.50	8,418.00	77.08	76.71	-1.220	38.60	4,275.01	939.14	869.35	69.80	13.455			
12,800.00	9,360.00	11,915.18	8,418.00	78.64	78.27	-1.220	38.83	4,351.69	939.14	868.28	70.87	13.252			
12,823.32	9,360.00	11,938.50	8,418.00	79.11	78.74	-1.220	38.90	4,375.01	939.14	867.95	71.19	13.191			
12,900.00	9,360.00	12,015.18	8,418.00	80.67	80.30	-1.220	39.12	4,451.69	939.14	866.87	72.27	12.995			
12,923.32	9,360.00	12,038.50	8,418.00	81.15	80.77	-1.220	39.19	4,475.01	939.14	866.55	72.60	12.936			
13,000.00	9,360.00	12,115.18	8,418.00	82.71	82.33	-1.220	39.42	4,551.69	939.14	865.47	73.68	12.747			
13,023.32	9,360.00	12,138.50	8,418.00	83.18	82.81	-1.220	39.49	4,575.01	939.14	865.14	74.01	12.690			
13,100.00	9,360.00	12,215.18	8,418.00	84.74	84.37	-1.220	39.72	4,651.69	939.14	864.05	75.09	12.506			
13,123.32	9,360.00	12,238.50	8,418.00	85.22	84.84	-1.220	39.79	4,675.01	939.14	863.72	75.42	12.452			
13,200.00	9,360.00	12,315.18	8,418.00	86.78	86.40	-1.220	40.02	4,751.69	939.14	862.63	76.51	12.274			
13,223.32	9,360.00	12,338.50	8,418.00	87.25	86.88	-1.220	40.09	4,775.01	939.14	862.30	76.85	12.221			
13,300.00	9,360.00	12,415.18	8,418.00	88.82	88.44	-1.220	40.32	4,851.69	939.14	861.20	77.94	12.049			
13,323.32	9,360.00	12,438.50	8,418.00	89.29	88.92	-1.220	40.39	4,875.01	939.14	860.87	78.27	11.998			
13,400.00	9,360.00	12,515.18	8,418.00	90.86	90.48	-1.220	40.61	4,951.69	939.14	859.77	79.37	11.832			
13,423.32	9,360.00	12,538.50	8,418.00	91.33	90.96	-1.220	40.68	4,975.01	939.14	859.43	79.71	11.782			
13,500.00	9,360.00	12,615.18	8,418.00	92.90	92.52	-1.220	40.91	5,051.69	939.14	858.33	80.81	11.622			
13,523.32	9,360.00	12,638.50	8,418.00	93.37	93.00	-1.220	40.98	5,075.01	939.14	858.00	81.15	11.573			
13,600.00	9,360.00	12,715.18	8,418.00	94.94	94.56	-1.220	41.21	5,151.69	939.14	856.89	82.25	11.418			
13,623.32	9,360.00	12,738.50	8,418.00	95.41	95.04	-1.220	41.28	5,175.01	939.14	856.55	82.59	11.371			
13,700.00	9,360.00	12,815.18	8,418.00	96.98	96.61	-1.220	41.51	5,251.69	939.14	855.44	83.70	11.220			
13,723.32	9,360.00	12,838.50	8,418.00	97.46	97.08	-1.220	41.58	5,275.01	939.14	855.10	84.04	11.175			
13,800.00	9,360.00	12,915.18	8,418.00	99.03	98.65	-1.220	41.81	5,351.69	939.14	853.99	85.15	11.029			
13,823.32	9,360.00	12,938.50	8,418.00	99.50	99.13	-1.220	41.88	5,375.01	939.14	853.65	85.49	10.985			
13,900.00	9,360.00	13,015.18	8,418.00	101.07	100.70	-1.220	42.11	5,451.69	939.14	852.54	86.61	10.844			
13,923.32	9,360.00	13,038.50	8,418.00	101.55	101.17	-1.220	42.18	5,475.00	939.14	852.19	86.95	10.801			
14,000.00	9,360.00	13,115.18	8,418.00	103.12	102.74	-1.220	42.40	5,551.69	939.14	851.08	88.07	10.664			
14,023.32	9,360.00	13,138.50	8,418.00	103.60	103.22	-1.220	42.47	5,575.00	939.14	850.73	88.41	10.623			
14,100.00	9,360.00	13,215.18	8,418.00	105.17	104.79	-1.220	42.70	5,651.69	939.14	849.61	89.53	10.490			
14,123.32	9,360.00	13,238.50	8,418.00	105.64	105.27	-1.220	42.77	5,675.00	939.14	849.27	89.87	10.450			
14,200.00	9,360.00	13,315.18	8,418.00	107.21	106.84	-1.220	43.00	5,751.69	939.14	848.14	91.00	10.320			
14,223.32	9,360.00	13,338.50	8,418.00	107.69	107.31	-1.220	43.07	5,775.00	939.14	847.80	91.34	10.282			
14,300.00	9,360.00	13,415.18	8,418.00	109.26	108.88	-1.220	43.30	5,851.69	939.14	846.67	92.47	10.156			
14,323.32	9,360.00	13,438.50	8,418.00	109.74	109.36	-1.220	43.37	5,875.00	939.14	846.33	92.81	10.119			
14,400.00	9,360.00	13,515.18	8,418.00	111.31	110.93	-1.220	43.60	5,951.69	939.14	845.20	93.94	9.997			
14,423.32	9,360.00	13,538.50	8,418.00	111.79	111.41	-1.220	43.67	5,975.00	939.14	844.86	94.29	9.960			
14,500.00	9,360.00	13,615.18	8,418.00	113.36	112.98	-1.220	43.90	6,051.68	939.14	843.72	95.42	9.842			
14,523.32	9,360.00	13,638.50	8,418.00	113.84	113.46	-1.220	43.96	6,075.00	939.14	843.38	95.77	9.807			
14,600.00	9,360.00	13,715.18	8,418.00	115.42	115.03	-1.220	44.19	6,151.68	939.14	842.24	96.90	9.692			
14,623.32	9,360.00	13,738.50	8,418.00	115.89	115.51	-1.220	44.26	6,175.00	939.14	841.90	97.25	9.657			
14,700.00	9,360.00	13,815.18	8,418.00	117.47	117.09	-1.220	44.49	6,251.68	939.14	840.76	98.38	9.546			
14,723.32	9,360.00	13,838.50	8,418.00	117.95	117.56	-1.220	44.56	6,275.00	939.14	840.41	98.73	9.512			
14,800.00	9,360.00	13,915.18	8,418.00	119.52	119.14	-1.220	44.79	6,351.68	939.14	839.27	99.87	9.404			
14,823.32	9,360.00	13,938.50	8,418.00	120.00	119.62	-1.220	44.86	6,375.00	939.14	838.93	100.22	9.371			
14,900.00	9,360.00	14,015.18	8,418.00	121.57	121.19	-1.220	45.09	6,451.68	939.14	837.79	101.36	9.266			
14,923.32	9,360.00	14,038.50	8,418.00	122.05	121.67	-1.220	45.16	6,475.00	939.14	837.44	101.71	9.234			
15,000.00	9,360.00	14,115.18	8,418.00	123.63	123.24	-1.220	45.39	6,551.68	939.14	836.29	102.85	9.131			
15,023.32	9,360.00	14,138.50	8,418.00	124.11	123.72	-1.220	45.46	6,575.00	939.14	835.95	103.20	9.101			
15,100.00	9,360.00	14,215.18	8,418.00	125.68	125.30	-1.220	45.68	6,651.68	939.14	834.80	104.34	9.001			
15,123.32	9,360.00	14,238.50	8,418.00	126.16	125.78	-1.220	45.75	6,675.00	939.14	834.45	104.69	8.971			
15,200.00	9,360.00	14,315.18	8,418.00	127.74	127.35	-1.220	45.98	6,751.68	939.14	833.31	105.84	8.873			
15,223.32	9,360.00	14,338.50	8,418.00	128.22	127.83	-1.220	46.05	6,775.00	939.14	832.96	106.19	8.844			

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1												<b>Offset Site Error:</b>	0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1												<b>Offset Well Error:</b>	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
15,300.00	9,360.00	14,415.18	8,418.00	129.79	129.41	-1.220	46.28	6,851.68	939.14	831.81	107.33	8.750	
15,323.32	9,360.00	14,438.50	8,418.00	130.27	129.89	-1.220	46.35	6,875.00	939.14	831.46	107.68	8.721	
15,400.00	9,360.00	14,515.18	8,418.00	131.85	131.46	-1.220	46.58	6,951.68	939.14	830.31	108.83	8.629	
15,423.32	9,360.00	14,538.50	8,418.00	132.33	131.94	-1.220	46.65	6,975.00	939.14	829.96	109.18	8.601	
15,500.00	9,360.00	14,615.18	8,418.00	133.90	133.52	-1.220	46.88	7,051.68	939.14	828.81	110.34	8.512	
15,523.32	9,360.00	14,638.50	8,418.00	134.38	134.00	-1.220	46.95	7,075.00	939.14	828.46	110.69	8.485	
15,600.00	9,360.00	14,715.18	8,418.00	135.96	135.57	-1.220	47.18	7,151.68	939.14	827.30	111.84	8.397	
15,623.32	9,360.00	14,738.50	8,418.00	136.44	136.05	-1.220	47.25	7,175.00	939.14	826.95	112.19	8.371	
15,700.00	9,360.00	14,815.18	8,418.00	138.02	137.63	-1.220	47.47	7,251.68	939.14	825.80	113.35	8.286	
15,723.32	9,360.00	14,838.50	8,418.00	138.50	138.11	-1.220	47.54	7,275.00	939.14	825.45	113.70	8.260	
15,800.00	9,360.00	14,915.18	8,418.00	140.07	139.69	-1.220	47.77	7,351.68	939.14	824.29	114.85	8.177	
15,823.32	9,360.00	14,938.50	8,418.00	140.55	140.17	-1.220	47.84	7,375.00	939.14	823.94	115.20	8.152	
15,900.00	9,360.00	15,015.18	8,418.00	142.13	141.75	-1.220	48.07	7,451.68	939.14	822.78	116.36	8.071	
15,923.32	9,360.00	15,038.50	8,418.00	142.61	142.23	-1.220	48.14	7,475.00	939.14	822.43	116.71	8.047	
16,000.00	9,360.00	15,115.18	8,418.00	144.19	143.80	-1.220	48.37	7,551.68	939.14	821.27	117.87	7.967	
16,023.32	9,360.00	15,138.50	8,418.00	144.67	144.28	-1.220	48.44	7,575.00	939.14	820.92	118.23	7.944	
16,100.00	9,360.00	15,215.18	8,418.00	146.25	145.86	-1.220	48.67	7,651.68	939.14	819.76	119.39	7.867	
16,123.32	9,360.00	15,238.50	8,418.00	146.73	146.34	-1.220	48.74	7,674.99	939.14	819.40	119.74	7.843	
16,200.00	9,360.00	15,315.18	8,418.00	148.31	147.92	-1.220	48.96	7,751.68	939.14	818.24	120.90	7.768	
16,223.32	9,360.00	15,338.50	8,418.00	148.79	148.40	-1.220	49.03	7,774.99	939.14	817.89	121.25	7.745	
16,300.00	9,360.00	15,415.18	8,418.00	150.37	149.98	-1.220	49.26	7,851.68	939.14	816.73	122.41	7.672	
16,323.32	9,360.00	15,438.50	8,418.00	150.85	150.46	-1.220	49.33	7,874.99	939.14	816.38	122.77	7.650	
16,400.00	9,360.00	15,515.18	8,418.00	152.42	152.04	-1.220	49.56	7,951.68	939.14	815.21	123.93	7.578	
16,423.32	9,360.00	15,538.50	8,418.00	152.90	152.52	-1.220	49.63	7,974.99	939.14	814.86	124.28	7.556	
16,500.00	9,360.00	15,615.18	8,418.00	154.48	154.10	-1.220	49.86	8,051.68	939.14	813.69	125.45	7.486	
16,523.32	9,360.00	15,638.50	8,418.00	154.96	154.58	-1.220	49.93	8,074.99	939.14	813.34	125.80	7.465	
16,600.00	9,360.00	15,715.18	8,418.00	156.54	156.16	-1.220	50.16	8,151.68	939.14	812.17	126.97	7.397	
16,623.32	9,360.00	15,738.50	8,418.00	157.02	156.64	-1.220	50.23	8,174.99	939.14	811.82	127.32	7.376	
16,700.00	9,360.00	15,815.18	8,418.00	158.60	158.22	-1.220	50.46	8,251.67	939.14	810.65	128.49	7.309	
16,723.32	9,360.00	15,838.50	8,418.00	159.08	158.70	-1.220	50.53	8,274.99	939.14	810.30	128.84	7.289	
16,800.00	9,360.00	15,915.18	8,418.00	160.66	160.28	-1.220	50.75	8,351.67	939.14	809.13	130.01	7.224	
16,823.32	9,360.00	15,938.50	8,418.00	161.14	160.76	-1.220	50.82	8,374.99	939.14	808.78	130.37	7.204	
16,900.00	9,360.00	16,015.18	8,418.00	162.73	162.34	-1.220	51.05	8,451.67	939.14	807.61	131.53	7.140	
16,923.32	9,360.00	16,038.50	8,418.00	163.21	162.82	-1.220	51.12	8,474.99	939.14	807.25	131.89	7.121	
17,000.00	9,360.00	16,115.18	8,418.00	164.79	164.40	-1.220	51.35	8,551.67	939.14	806.08	133.06	7.058	
17,023.32	9,360.00	16,138.50	8,418.00	165.27	164.88	-1.220	51.42	8,574.99	939.14	805.73	133.41	7.039	
17,100.00	9,360.00	16,215.18	8,418.00	166.85	166.46	-1.220	51.65	8,651.67	939.14	804.56	134.58	6.978	
17,123.32	9,360.00	16,238.50	8,418.00	167.33	166.94	-1.220	51.72	8,674.99	939.14	804.20	134.94	6.960	
17,200.00	9,360.00	16,315.18	8,418.00	168.91	168.52	-1.220	51.95	8,751.67	939.14	803.03	136.11	6.900	
17,223.32	9,360.00	16,338.50	8,418.00	169.39	169.00	-1.220	52.02	8,774.99	939.14	802.68	136.47	6.882	
17,300.00	9,360.00	16,415.18	8,418.00	170.97	170.58	-1.220	52.25	8,851.67	939.14	801.51	137.64	6.823	
17,323.32	9,360.00	16,438.50	8,418.00	171.45	171.06	-1.220	52.31	8,874.99	939.14	801.15	137.99	6.806	
17,400.00	9,360.00	16,515.18	8,418.00	173.03	172.64	-1.220	52.54	8,951.67	939.14	799.98	139.17	6.748	
17,423.32	9,360.00	16,538.50	8,418.00	173.51	173.12	-1.220	52.61	8,974.99	939.14	799.62	139.52	6.731	
17,500.00	9,360.00	16,615.18	8,418.00	175.09	174.70	-1.220	52.84	9,051.67	939.14	798.45	140.70	6.675	
17,523.32	9,360.00	16,638.50	8,418.00	175.57	175.18	-1.220	52.91	9,074.99	939.14	798.09	141.05	6.658	
17,600.00	9,360.00	16,715.18	8,418.00	177.16	176.76	-1.220	53.14	9,151.67	939.14	796.92	142.23	6.603	
17,623.32	9,360.00	16,738.50	8,418.00	177.64	177.24	-1.220	53.21	9,174.99	939.14	796.56	142.58	6.587	
17,700.00	9,360.00	16,815.18	8,418.00	179.22	178.83	-1.220	53.44	9,251.67	939.14	795.39	143.76	6.533	
17,723.32	9,360.00	16,838.50	8,418.00	179.70	179.31	-1.220	53.51	9,274.99	939.14	795.03	144.11	6.517	
17,800.00	9,360.00	16,915.18	8,418.00	181.28	180.89	-1.220	53.74	9,351.67	939.14	793.85	145.29	6.464	
17,823.32	9,360.00	16,938.50	8,418.00	181.76	181.37	-1.220	53.81	9,374.99	939.14	793.50	145.65	6.448	

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



# Dixon Directional

## Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

<b>Offset Design:</b> Bond South Pad - Phase 2 - (04) Bond 33-34 FED COM #104H - #104H - Plan 1													<b>Offset Site Error:</b> 0.00 usft
<b>Survey Program:</b> 0-MWD+IFR1													<b>Offset Well Error:</b> 0.00 usft
<b>Reference</b>		<b>Offset</b>		<b>Semi Major Axis</b>			<b>Offset Wellbore Centre</b>		<b>Distance</b>				<b>Warning</b>
<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Measured Depth (usft)</b>	<b>Vertical Depth (usft)</b>	<b>Reference (usft)</b>	<b>Offset (usft)</b>	<b>Highside Toolface (°)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Between Centres (usft)</b>	<b>Between Ellipses (usft)</b>	<b>Minimum Separation (usft)</b>	<b>Separation Factor</b>	
17,900.00	9,360.00	17,015.18	8,418.00	183.34	182.95	-1.220	54.03	9,451.67	939.14	792.32	146.82	6.396	
17,923.32	9,360.00	17,038.50	8,418.00	183.82	183.43	-1.220	54.10	9,474.99	939.14	791.96	147.18	6.381	
18,000.00	9,360.00	17,115.18	8,418.00	185.41	185.01	-1.220	54.33	9,551.67	939.14	790.79	148.36	6.330	
18,023.32	9,360.00	17,138.50	8,418.00	185.89	185.49	-1.220	54.40	9,574.99	939.14	790.43	148.71	6.315	
18,100.00	9,360.00	17,215.18	8,418.00	187.47	187.08	-1.220	54.63	9,651.67	939.14	789.25	149.89	6.266	
18,123.32	9,360.00	17,238.50	8,418.00	187.95	187.56	-1.220	54.70	9,674.99	939.14	788.89	150.25	6.251	
18,200.00	9,360.00	17,315.18	8,418.00	189.53	189.14	-1.220	54.93	9,751.67	939.14	787.72	151.43	6.202	
18,223.32	9,360.00	17,338.50	8,418.00	190.01	189.62	-1.220	55.00	9,774.99	939.14	787.36	151.78	6.187	
18,300.00	9,360.00	17,415.18	8,418.00	191.59	191.20	-1.220	55.23	9,851.67	939.14	786.18	152.96	6.140	
18,323.32	9,360.00	17,438.50	8,418.00	192.08	191.68	-1.220	55.30	9,874.99	939.14	785.82	153.32	6.125	
18,400.00	9,360.00	17,515.18	8,418.00	193.66	193.26	-1.220	55.53	9,951.67	939.14	784.64	154.50	6.079	
18,423.32	9,360.00	17,538.50	8,418.00	194.14	193.74	-1.220	55.59	9,974.98	939.14	784.29	154.86	6.065	
18,500.00	9,360.00	17,615.18	8,418.00	195.72	195.33	-1.220	55.82	10,051.67	939.14	783.11	156.04	6.019	
18,523.32	9,360.00	17,638.50	8,418.00	196.20	195.81	-1.220	55.89	10,074.98	939.14	782.75	156.40	6.005	
18,600.00	9,360.00	17,715.18	8,418.00	197.78	197.39	-1.220	56.12	10,151.67	939.14	781.57	157.57	5.960	
18,623.32	9,360.00	17,738.50	8,418.00	198.27	197.87	-1.220	56.19	10,174.98	939.14	781.21	157.93	5.946	
18,700.00	9,360.00	17,815.18	8,418.00	199.85	199.45	-1.220	56.42	10,251.67	939.14	780.03	159.11	5.902	
18,723.32	9,360.00	17,838.50	8,418.00	200.33	199.93	-1.220	56.49	10,274.98	939.14	779.67	159.47	5.889	
18,800.00	9,360.00	17,915.18	8,418.00	201.91	201.52	-1.220	56.72	10,351.67	939.14	778.49	160.65	5.846	
18,823.32	9,360.00	17,938.50	8,418.00	202.39	202.00	-1.220	56.79	10,374.98	939.14	778.13	161.01	5.833	
18,900.00	9,360.00	18,015.18	8,418.00	203.98	203.58	-1.220	57.02	10,451.67	939.14	776.95	162.19	5.790	
18,923.32	9,360.00	18,038.50	8,418.00	204.46	204.06	-1.220	57.09	10,474.98	939.14	776.59	162.55	5.777	
19,000.00	9,360.00	18,115.18	8,418.00	206.04	205.64	-1.220	57.31	10,551.66	939.14	775.41	163.73	5.736	
19,023.32	9,360.00	18,138.50	8,418.00	206.52	206.13	-1.220	57.38	10,574.98	939.14	775.05	164.09	5.723	
19,100.00	9,360.00	18,215.18	8,418.00	208.10	207.71	-1.220	57.61	10,651.66	939.14	773.87	165.28	5.682	
19,123.32	9,360.00	18,238.50	8,418.00	208.59	208.19	-1.220	57.68	10,674.98	939.14	773.51	165.64	5.670	
19,200.00	9,360.00	18,315.18	8,418.00	210.17	209.77	-1.220	57.91	10,751.66	939.14	772.33	166.82	5.630	
19,223.32	9,360.00	18,338.50	8,418.00	210.65	210.25	-1.220	57.98	10,774.98	939.14	771.97	167.18	5.618	
19,300.00	9,360.00	18,415.18	8,418.00	212.23	211.84	-1.220	58.21	10,851.66	939.14	770.78	168.36	5.578	
19,323.32	9,360.00	18,438.50	8,418.00	212.71	212.32	-1.220	58.28	10,874.98	939.14	770.42	168.72	5.566	
19,400.00	9,360.00	18,515.18	8,418.00	214.30	213.90	-1.220	58.51	10,951.66	939.14	769.24	169.90	5.528	
19,423.32	9,360.00	18,538.50	8,418.00	214.78	214.38	-1.220	58.58	10,974.98	939.14	768.88	170.26	5.516	
19,500.00	9,360.00	18,615.18	8,418.00	216.36	215.97	-1.220	58.81	11,051.66	939.14	767.70	171.45	5.478	
19,523.32	9,360.00	18,638.50	8,418.00	216.84	216.45	-1.220	58.88	11,074.98	939.14	767.34	171.81	5.466	
19,600.00	9,360.00	18,715.18	8,418.00	218.43	218.03	-1.220	59.10	11,151.66	939.14	766.15	172.99	5.429	
19,623.32	9,360.00	18,738.50	8,418.00	218.91	218.51	-1.220	59.17	11,174.98	939.14	765.79	173.35	5.418	
19,700.00	9,360.00	18,815.18	8,418.00	220.49	220.09	-1.220	59.40	11,251.66	939.14	764.61	174.54	5.381	
19,723.32	9,360.00	18,838.50	8,418.00	220.97	220.58	-1.220	59.47	11,274.98	939.14	764.25	174.90	5.370	
19,800.00	9,360.00	18,915.18	8,418.00	222.56	222.16	-1.220	59.70	11,351.66	939.14	763.06	176.08	5.334	
19,823.32	9,360.00	18,938.50	8,418.00	223.04	222.64	-1.220	59.77	11,374.98	939.14	762.70	176.44	5.323	
19,900.00	9,360.00	19,015.18	8,418.00	224.62	224.22	-1.220	60.00	11,451.66	939.14	761.52	177.63	5.287	
19,923.32	9,360.00	19,038.50	8,418.00	225.10	224.71	-1.220	60.07	11,474.98	939.14	761.16	177.99	5.276	
20,000.00	9,360.00	19,115.18	8,418.00	226.69	226.29	-1.220	60.30	11,551.66	939.14	759.97	179.17	5.242	
20,023.32	9,360.00	19,138.50	8,418.00	227.17	226.77	-1.220	60.37	11,574.98	939.14	759.61	179.53	5.231	
20,100.00	9,360.00	19,215.18	8,418.00	228.75	228.35	-1.220	60.59	11,651.66	939.14	758.42	180.72	5.197	
20,118.98	9,360.00	19,234.16	8,418.00	229.14	228.75	-1.220	60.65	11,670.64	939.14	758.13	181.01	5.188	
20,181.28	9,360.00	19,296.39	8,418.00	230.43	230.03	-1.220	60.84	11,732.87	939.14	757.17	181.97	5.161	

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





# Dixon Directional Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB - 30.5 @ 3718.11usft

Offset Depths are relative to Offset Datum

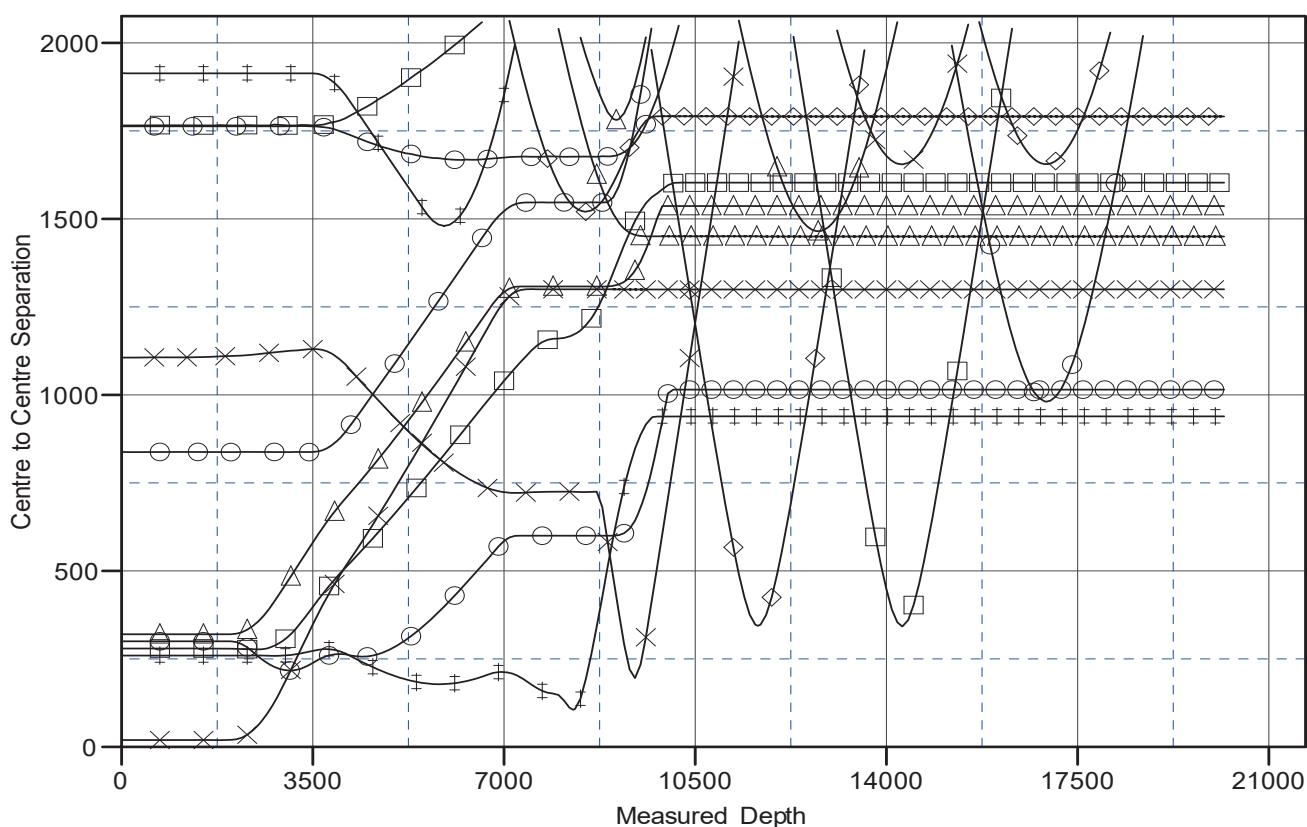
Central Meridian is -104.33333334

Coordinates are relative to: (01) Bond 33-34 FED COM 207H

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

Grid Convergence at Surface is: 0.297°

## Ladder Plot



### LEGEND

(02) Bond 33-34 FED COM 211H, 211H, Plan 3 V0  
 (01) Bond 33-34 FED COM 209H, 209H, Plan 2 V0  
 (03) Bond 33-34 FED COM #103H, #103H, Plan 1 V0  
 (W14) KEELA FEDERAL 003, 33360, (Inc Only) V0  
 (W17) MAX STATE 001, 26754, (Inc Only) V0  
 (W16) LEARSTATE SWD 003, 29703, (Inc Only) V0  
 (W21) VANDIVER FEDERAL 001, 26352, (Inc Only) V0

(W12) HULSTER 006, 30572, (Inc Only) V0  
 (W07) GULF MCKAY FEDERAL 001, 25471, (Inc Only) V0  
 (W02) LEARSTATE 001H, 38865, (Gyro/MWD) V0  
 (W18) MCKAY WEST FEDERAL 001, 24631, (Inc Only) V0  
 (W05) GULF FEDERAL 002, 26310, (Inc Only) V0  
 (W025) PATTERSON 33 FEDERAL 001, 30411, (Depth Only) V0  
 (W03) LEARSTATE 002H, 38866, (Gyro/MWD) V0

(W06) GULF FEDERAL COM 001, 25637, (Inc Only) V0  
 (01) Bond 33-34 FED COM #306H, #306H, Plan 1 V0  
 (04) Bond 33-34 FED COM #104H, #104H, Plan 1 V0  
 (03) Bond 33-34 FED COM #106H, #106H, Plan 1 V0  
 (02) Bond 33-34 FED COM #304H, #304H, Plan 1 V0

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





# Dixon Directional Anticollision Report



<b>Company:</b>	PBEX	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Reference Site:</b>	Bond South Pad - Phase 1	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site Error:</b>	0.00 usft	<b>North Reference:</b>	Grid
<b>Reference Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Well Error:</b>	0.00 usft	<b>Output errors are at</b>	2.00 sigma
<b>Reference Wellbore</b>	207H	<b>Database:</b>	EDM 5000.1 Dixon Directional
<b>Reference Design:</b>	Plan 2	<b>Offset TVD Reference:</b>	Offset Datum

Reference Depths are relative to RKB - 30.5 @ 3718.11usft

Offset Depths are relative to Offset Datum

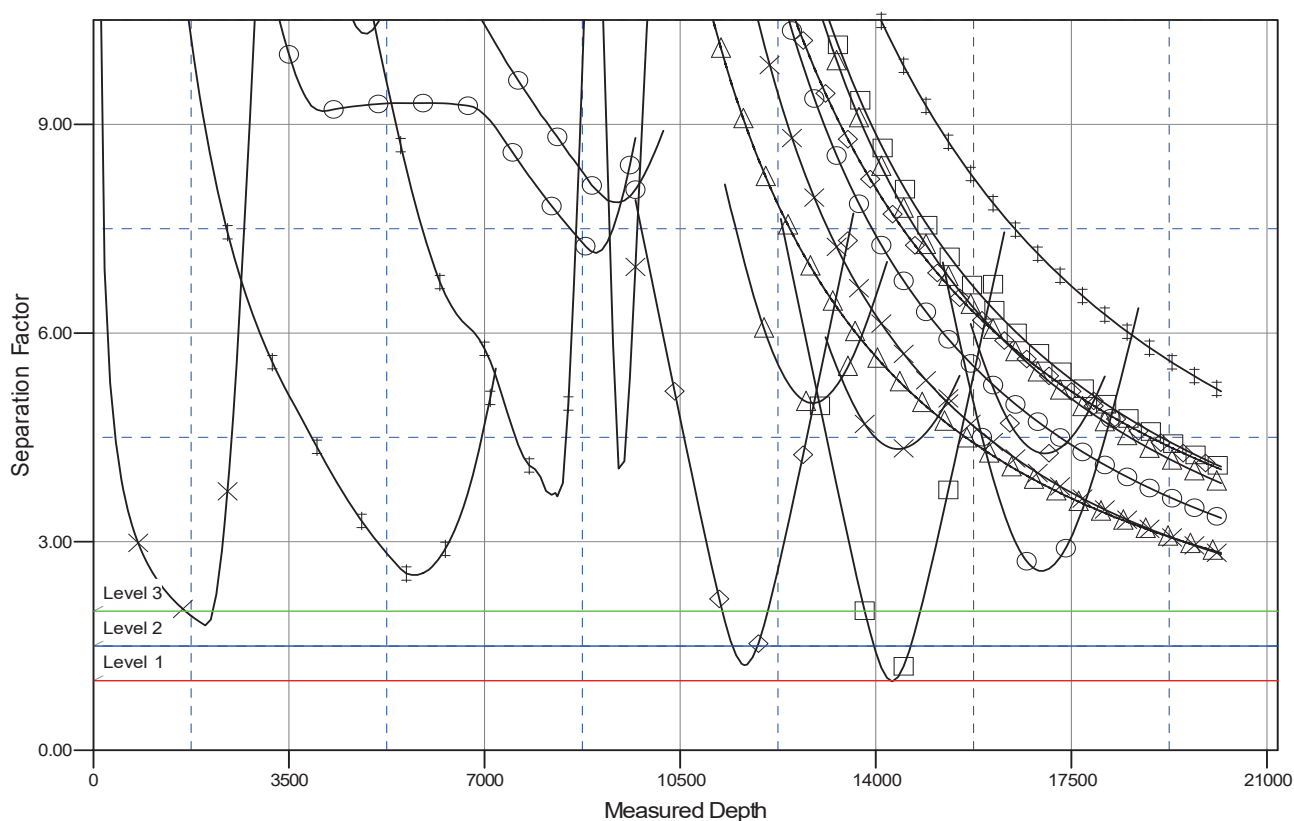
Central Meridian is -104.33333334

Coordinates are relative to: (01) Bond 33-34 FED COM 207H

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

Grid Convergence at Surface is: 0.297°

## Separation Factor Plot



### LEGEND

(02) Bond 33-34 FED COM 211H, 211H, Plan 3 V0  
 (01) Bond 33-34 FED COM 209H, 209H, Plan 2 V0  
 (03) Bond 33-34 FED COM #103H, #103H, Plan 1 V0  
 (W14) KEELA FEDERAL 003, 3330, (Inc Only) V0  
 (W17) MAX STATE 001, 26754, (Inc Only) V0  
 (W16) LEARSTATE SWD 003, 29703, (Inc Only) V0  
 (W21) VANDIVER FEDERAL 001, 26352, (Inc Only) V0

(W12) HULSTER 005, 30572, (Inc Only) V0  
 (W07) GULF MCKAY FEDERAL 01, 25471, (Inc Only) V0  
 (W02) LEARSTATE 001H, 38865, (Gyro/MWD) V0  
 (W18) MCKAY WEST FEDERAL 01, 24631, (Inc Only) V0  
 (W05) GULF FEDERAL 002, 26310, (Inc Only) V0  
 (W25) PATTERSON 33 FEDERAL 001, 30411, (Depth Only) V0  
 (W03) LEARSTATE 002H, 38866, (Gyro/MWD) V0

(W08) GULF FEDERAL COM 001, 25637, (Inc Only) V0  
 (01) Bond 33-34 FED COM #309H, #309H, Plan 1 V0  
 (04) Bond 33-34 FED COM #104H, #104H, Plan 1 V0  
 (03) Bond 33-34 FED COM #109H, #109H, Plan 1 V0  
 (02) Bond 33-34 FED COM #304H, #304H, Plan 1 V0

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



# Updated and most recent directional plan



## **PBEX**

**Lea County, NM (N83 - NME)  
Bond South Pad - Phase 1  
(01) Bond 33-34 FED COM 207H  
TBD  
207H**

**Plan: Plan 2**

## **Standard Planning Report**

**04 December, 2025**

# **DIXON**



# Dixon Directional Planning Report



<b>Database:</b>	EDM 5000.1 Dixon Directional	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site:</b>	Bond South Pad - Phase 1	<b>North Reference:</b>	Grid
<b>Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	207H		
<b>Design:</b>	Plan 2		

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

Site	Bond South Pad - Phase 1				
Site Position:		Northing:	619,273.62 usft	Latitude:	32.70122162
From:	Map	Easting:	710,360.35 usft	Longitude:	-103.78385790
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	(01) Bond 33-34 FED COM 207H					
Well Position	+N/-S	0.00 usft	Northing:	619,273.62 usft	Latitude:	32.70122162
	+E/-W	0.00 usft	Easting:	710,360.35 usft	Longitude:	-103.78385790
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,687.61 usft
Grid Convergence:	0.297 °					

<b>Wellbore</b>	207H				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2025	12/3/2025	6.348	60.140	47,225.65247555

<b>Design</b>	Plan 2				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	89.83	

<b>Plan Survey Tool Program</b>	<b>Date</b>	12/4/2025			
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>	
1	0.00	20,181.28 Plan 2 (207H)	MWD+IFR1		
			OWSG MWD + IFR1		

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100usft)</b>	<b>Build Rate (°/100usft)</b>	<b>Turn Rate (°/100usft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.000	
4,173.32	13.47	89.38	4,167.14	0.85	78.76	2.00	2.00	0.00	89.381	
6,708.75	13.47	89.38	6,632.86	7.23	669.17	0.00	0.00	0.00	0.000	
7,382.07	0.00	89.83	7,300.00	8.08	747.92	2.00	-2.00	0.00	180.000	
8,869.11	0.00	89.83	8,787.04	8.08	747.92	0.00	0.00	0.00	0.000	
9,769.11	90.00	89.83	9,360.00	9.79	1,320.88	10.00	10.00	0.00	0.000	FTP/PP - v1 - (01) Bo
20,181.28	90.00	89.83	9,360.00	40.84	11,733.00	0.00	0.00	0.00	0.000	PBHL - v1 - (01) Bonc





# Dixon Directional Planning Report



<b>Database:</b>	EDM 5000.1 Dixon Directional	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site:</b>	Bond South Pad - Phase 1	<b>North Reference:</b>	Grid
<b>Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	207H		
<b>Design:</b>	Plan 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
3,600.00	2.00	89.38	3,599.98	0.02	1.75	1.75	2.00	2.00	0.00
3,700.00	4.00	89.38	3,699.84	0.08	6.98	6.98	2.00	2.00	0.00
3,800.00	6.00	89.38	3,799.45	0.17	15.69	15.69	2.00	2.00	0.00
3,900.00	8.00	89.38	3,898.70	0.30	27.88	27.88	2.00	2.00	0.00
4,000.00	10.00	89.38	3,997.47	0.47	43.52	43.52	2.00	2.00	0.00
4,100.00	12.00	89.38	4,095.62	0.68	62.60	62.60	2.00	2.00	0.00
4,173.32	13.47	89.38	4,167.14	0.85	78.76	78.76	2.00	2.00	0.00
Start 2535.42 hold at 4173.32 MD									
4,200.00	13.47	89.38	4,193.08	0.92	84.97	84.97	0.00	0.00	0.00
4,300.00	13.47	89.38	4,290.34	1.17	108.26	108.26	0.00	0.00	0.00
4,400.00	13.47	89.38	4,387.59	1.42	131.54	131.55	0.00	0.00	0.00
4,500.00	13.47	89.38	4,484.84	1.67	154.83	154.83	0.00	0.00	0.00
4,600.00	13.47	89.38	4,582.09	1.92	178.12	178.12	0.00	0.00	0.00
4,700.00	13.47	89.38	4,679.34	2.18	201.40	201.41	0.00	0.00	0.00
4,800.00	13.47	89.38	4,776.59	2.43	224.69	224.69	0.00	0.00	0.00
4,900.00	13.47	89.38	4,873.84	2.68	247.97	247.98	0.00	0.00	0.00





# Dixon Directional Planning Report



<b>Database:</b>	EDM 5000.1 Dixon Directional	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site:</b>	Bond South Pad - Phase 1	<b>North Reference:</b>	Grid
<b>Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	207H		
<b>Design:</b>	Plan 2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,000.00	13.47	89.38	4,971.09	2.93	271.26	271.27	0.00	0.00	0.00
5,100.00	13.47	89.38	5,068.34	3.18	294.55	294.56	0.00	0.00	0.00
5,200.00	13.47	89.38	5,165.59	3.43	317.83	317.84	0.00	0.00	0.00
5,300.00	13.47	89.38	5,262.84	3.68	341.12	341.13	0.00	0.00	0.00
5,400.00	13.47	89.38	5,360.09	3.94	364.41	364.42	0.00	0.00	0.00
5,500.00	13.47	89.38	5,457.34	4.19	387.69	387.70	0.00	0.00	0.00
5,600.00	13.47	89.38	5,554.59	4.44	410.98	410.99	0.00	0.00	0.00
5,700.00	13.47	89.38	5,651.84	4.69	434.27	434.28	0.00	0.00	0.00
5,800.00	13.47	89.38	5,749.09	4.94	457.55	457.56	0.00	0.00	0.00
5,900.00	13.47	89.38	5,846.35	5.19	480.84	480.85	0.00	0.00	0.00
6,000.00	13.47	89.38	5,943.60	5.45	504.12	504.14	0.00	0.00	0.00
6,100.00	13.47	89.38	6,040.85	5.70	527.41	527.43	0.00	0.00	0.00
6,200.00	13.47	89.38	6,138.10	5.95	550.70	550.71	0.00	0.00	0.00
6,300.00	13.47	89.38	6,235.35	6.20	573.98	574.00	0.00	0.00	0.00
6,400.00	13.47	89.38	6,332.60	6.45	597.27	597.29	0.00	0.00	0.00
6,500.00	13.47	89.38	6,429.85	6.70	620.56	620.57	0.00	0.00	0.00
6,600.00	13.47	89.38	6,527.10	6.95	643.84	643.86	0.00	0.00	0.00
6,708.75	13.47	89.38	6,632.86	7.23	669.17	669.18	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
6,800.00	11.64	89.38	6,721.92	7.44	689.00	689.02	2.00	-2.00	0.00
6,900.00	9.64	89.38	6,820.20	7.64	707.46	707.48	2.00	-2.00	0.00
7,000.00	7.64	89.38	6,919.06	7.80	722.49	722.51	2.00	-2.00	0.00
7,100.00	5.64	89.38	7,018.38	7.93	734.05	734.07	2.00	-2.00	0.00
7,200.00	3.64	89.38	7,118.05	8.02	742.14	742.16	2.00	-2.00	0.00
7,300.00	1.64	89.38	7,217.94	8.07	746.75	746.77	2.00	-2.00	0.00
7,382.07	0.00	0.00	7,300.00	8.08	747.92	747.95	2.00	-2.00	0.00
<b>Start 1487.04 hold at 7382.07 MD</b>									
7,400.00	0.00	0.00	7,317.93	8.08	747.92	747.95	0.00	0.00	0.00
7,500.00	0.00	0.00	7,417.93	8.08	747.92	747.95	0.00	0.00	0.00
7,600.00	0.00	0.00	7,517.93	8.08	747.92	747.95	0.00	0.00	0.00
7,700.00	0.00	0.00	7,617.93	8.08	747.92	747.95	0.00	0.00	0.00
7,800.00	0.00	0.00	7,717.93	8.08	747.92	747.95	0.00	0.00	0.00
7,900.00	0.00	0.00	7,817.93	8.08	747.92	747.95	0.00	0.00	0.00
8,000.00	0.00	0.00	7,917.93	8.08	747.92	747.95	0.00	0.00	0.00
8,100.00	0.00	0.00	8,017.93	8.08	747.92	747.95	0.00	0.00	0.00
8,200.00	0.00	0.00	8,117.93	8.08	747.92	747.95	0.00	0.00	0.00
8,300.00	0.00	0.00	8,217.93	8.08	747.92	747.95	0.00	0.00	0.00
8,400.00	0.00	0.00	8,317.93	8.08	747.92	747.95	0.00	0.00	0.00
8,500.00	0.00	0.00	8,417.93	8.08	747.92	747.95	0.00	0.00	0.00
8,600.00	0.00	0.00	8,517.93	8.08	747.92	747.95	0.00	0.00	0.00
8,700.00	0.00	0.00	8,617.93	8.08	747.92	747.95	0.00	0.00	0.00
8,800.00	0.00	0.00	8,717.93	8.08	747.92	747.95	0.00	0.00	0.00
8,869.11	0.00	0.00	8,787.04	8.08	747.92	747.95	0.00	0.00	0.00
<b>Start Build 10.00</b>									
8,900.00	3.09	89.83	8,817.91	8.08	748.76	748.78	10.00	10.00	0.00
8,950.00	8.09	89.83	8,867.66	8.10	753.62	753.65	10.00	10.00	0.00
9,000.00	13.09	89.83	8,916.79	8.12	762.81	762.83	10.00	10.00	0.00
9,050.00	18.09	89.83	8,964.94	8.16	776.24	776.26	10.00	10.00	0.00
9,100.00	23.09	89.83	9,011.73	8.22	793.82	793.84	10.00	10.00	0.00
9,150.00	28.09	89.83	9,056.81	8.28	815.41	815.43	10.00	10.00	0.00
9,200.00	33.09	89.83	9,099.84	8.36	840.84	840.86	10.00	10.00	0.00
9,250.00	38.09	89.83	9,140.49	8.44	869.93	869.95	10.00	10.00	0.00
9,300.00	43.09	89.83	9,178.45	8.54	902.45	902.47	10.00	10.00	0.00





# Dixon Directional Planning Report



<b>Database:</b>	EDM 5000.1 Dixon Directional	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site:</b>	Bond South Pad - Phase 1	<b>North Reference:</b>	Grid
<b>Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	207H		
<b>Design:</b>	Plan 2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
9,350.00	48.09	89.83	9,213.42	8.65	938.16	938.18	10.00	10.00	0.00	
9,400.00	53.09	89.83	9,245.16	8.76	976.77	976.80	10.00	10.00	0.00	
9,450.00	58.09	89.83	9,273.41	8.88	1,018.01	1,018.03	10.00	10.00	0.00	
9,500.00	63.09	89.83	9,297.95	9.01	1,061.55	1,061.57	10.00	10.00	0.00	
9,550.00	68.09	89.83	9,318.61	9.15	1,107.07	1,107.09	10.00	10.00	0.00	
9,600.00	73.09	89.83	9,335.22	9.29	1,154.21	1,154.23	10.00	10.00	0.00	
9,650.00	78.09	89.83	9,347.66	9.43	1,202.62	1,202.64	10.00	10.00	0.00	
9,700.00	83.09	89.83	9,355.84	9.58	1,251.93	1,251.96	10.00	10.00	0.00	
9,750.00	88.09	89.83	9,359.68	9.73	1,301.77	1,301.79	10.00	10.00	0.00	
9,769.11	90.00	89.83	9,360.00	9.79	1,320.88	1,320.90	10.00	10.00	0.00	
Start 10412.17 hold at 9769.11 MD										
9,800.00	90.00	89.83	9,360.00	9.88	1,351.77	1,351.79	0.00	0.00	0.00	
9,900.00	90.00	89.83	9,360.00	10.18	1,451.76	1,451.79	0.00	0.00	0.00	
10,000.00	90.00	89.83	9,360.00	10.48	1,551.76	1,551.79	0.00	0.00	0.00	
10,100.00	90.00	89.83	9,360.00	10.77	1,651.76	1,651.79	0.00	0.00	0.00	
10,200.00	90.00	89.83	9,360.00	11.07	1,751.76	1,751.79	0.00	0.00	0.00	
10,300.00	90.00	89.83	9,360.00	11.37	1,851.76	1,851.79	0.00	0.00	0.00	
10,400.00	90.00	89.83	9,360.00	11.67	1,951.76	1,951.79	0.00	0.00	0.00	
10,500.00	90.00	89.83	9,360.00	11.97	2,051.76	2,051.79	0.00	0.00	0.00	
10,600.00	90.00	89.83	9,360.00	12.26	2,151.76	2,151.79	0.00	0.00	0.00	
10,700.00	90.00	89.83	9,360.00	12.56	2,251.76	2,251.79	0.00	0.00	0.00	
10,800.00	90.00	89.83	9,360.00	12.86	2,351.76	2,351.79	0.00	0.00	0.00	
10,900.00	90.00	89.83	9,360.00	13.16	2,451.76	2,451.79	0.00	0.00	0.00	
11,000.00	90.00	89.83	9,360.00	13.46	2,551.76	2,551.79	0.00	0.00	0.00	
11,100.00	90.00	89.83	9,360.00	13.76	2,651.76	2,651.79	0.00	0.00	0.00	
11,200.00	90.00	89.83	9,360.00	14.05	2,751.76	2,751.79	0.00	0.00	0.00	
11,300.00	90.00	89.83	9,360.00	14.35	2,851.76	2,851.79	0.00	0.00	0.00	
11,400.00	90.00	89.83	9,360.00	14.65	2,951.76	2,951.79	0.00	0.00	0.00	
11,500.00	90.00	89.83	9,360.00	14.95	3,051.76	3,051.79	0.00	0.00	0.00	
11,600.00	90.00	89.83	9,360.00	15.25	3,151.76	3,151.79	0.00	0.00	0.00	
11,700.00	90.00	89.83	9,360.00	15.55	3,251.76	3,251.79	0.00	0.00	0.00	
11,800.00	90.00	89.83	9,360.00	15.84	3,351.76	3,351.79	0.00	0.00	0.00	
11,900.00	90.00	89.83	9,360.00	16.14	3,451.76	3,451.79	0.00	0.00	0.00	
12,000.00	90.00	89.83	9,360.00	16.44	3,551.76	3,551.79	0.00	0.00	0.00	
12,100.00	90.00	89.83	9,360.00	16.74	3,651.75	3,651.79	0.00	0.00	0.00	
12,200.00	90.00	89.83	9,360.00	17.04	3,751.75	3,751.79	0.00	0.00	0.00	
12,300.00	90.00	89.83	9,360.00	17.33	3,851.75	3,851.79	0.00	0.00	0.00	
12,400.00	90.00	89.83	9,360.00	17.63	3,951.75	3,951.79	0.00	0.00	0.00	
12,500.00	90.00	89.83	9,360.00	17.93	4,051.75	4,051.79	0.00	0.00	0.00	
12,600.00	90.00	89.83	9,360.00	18.23	4,151.75	4,151.79	0.00	0.00	0.00	
12,700.00	90.00	89.83	9,360.00	18.53	4,251.75	4,251.79	0.00	0.00	0.00	
12,800.00	90.00	89.83	9,360.00	18.83	4,351.75	4,351.79	0.00	0.00	0.00	
12,900.00	90.00	89.83	9,360.00	19.12	4,451.75	4,451.79	0.00	0.00	0.00	
13,000.00	90.00	89.83	9,360.00	19.42	4,551.75	4,551.79	0.00	0.00	0.00	
13,100.00	90.00	89.83	9,360.00	19.72	4,651.75	4,651.79	0.00	0.00	0.00	
13,200.00	90.00	89.83	9,360.00	20.02	4,751.75	4,751.79	0.00	0.00	0.00	
13,300.00	90.00	89.83	9,360.00	20.32	4,851.75	4,851.79	0.00	0.00	0.00	
13,400.00	90.00	89.83	9,360.00	20.61	4,951.75	4,951.79	0.00	0.00	0.00	
13,500.00	90.00	89.83	9,360.00	20.91	5,051.75	5,051.79	0.00	0.00	0.00	
13,600.00	90.00	89.83	9,360.00	21.21	5,151.75	5,151.79	0.00	0.00	0.00	
13,700.00	90.00	89.83	9,360.00	21.51	5,251.75	5,251.79	0.00	0.00	0.00	
13,800.00	90.00	89.83	9,360.00	21.81	5,351.75	5,351.79	0.00	0.00	0.00	
13,900.00	90.00	89.83	9,360.00	22.11	5,451.75	5,451.79	0.00	0.00	0.00	
14,000.00	90.00	89.83	9,360.00	22.40	5,551.75	5,551.79	0.00	0.00	0.00	



# Dixon Directional Planning Report



<b>Database:</b>	EDM 5000.1 Dixon Directional	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site:</b>	Bond South Pad - Phase 1	<b>North Reference:</b>	Grid
<b>Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	207H		
<b>Design:</b>	Plan 2		

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)
14,100.00	90.00	89.83	9,360.00	22.70	5,651.75	5,651.79	0.00	0.00	0.00
14,200.00	90.00	89.83	9,360.00	23.00	5,751.75	5,751.79	0.00	0.00	0.00
14,300.00	90.00	89.83	9,360.00	23.30	5,851.75	5,851.79	0.00	0.00	0.00
14,400.00	90.00	89.83	9,360.00	23.60	5,951.74	5,951.79	0.00	0.00	0.00
14,500.00	90.00	89.83	9,360.00	23.90	6,051.74	6,051.79	0.00	0.00	0.00
14,600.00	90.00	89.83	9,360.00	24.19	6,151.74	6,151.79	0.00	0.00	0.00
14,700.00	90.00	89.83	9,360.00	24.49	6,251.74	6,251.79	0.00	0.00	0.00
14,800.00	90.00	89.83	9,360.00	24.79	6,351.74	6,351.79	0.00	0.00	0.00
14,900.00	90.00	89.83	9,360.00	25.09	6,451.74	6,451.79	0.00	0.00	0.00
15,000.00	90.00	89.83	9,360.00	25.39	6,551.74	6,551.79	0.00	0.00	0.00
15,100.00	90.00	89.83	9,360.00	25.68	6,651.74	6,651.79	0.00	0.00	0.00
15,200.00	90.00	89.83	9,360.00	25.98	6,751.74	6,751.79	0.00	0.00	0.00
15,300.00	90.00	89.83	9,360.00	26.28	6,851.74	6,851.79	0.00	0.00	0.00
15,400.00	90.00	89.83	9,360.00	26.58	6,951.74	6,951.79	0.00	0.00	0.00
15,500.00	90.00	89.83	9,360.00	26.88	7,051.74	7,051.79	0.00	0.00	0.00
15,600.00	90.00	89.83	9,360.00	27.18	7,151.74	7,151.79	0.00	0.00	0.00
15,700.00	90.00	89.83	9,360.00	27.47	7,251.74	7,251.79	0.00	0.00	0.00
15,800.00	90.00	89.83	9,360.00	27.77	7,351.74	7,351.79	0.00	0.00	0.00
15,900.00	90.00	89.83	9,360.00	28.07	7,451.74	7,451.79	0.00	0.00	0.00
16,000.00	90.00	89.83	9,360.00	28.37	7,551.74	7,551.79	0.00	0.00	0.00
16,100.00	90.00	89.83	9,360.00	28.67	7,651.74	7,651.79	0.00	0.00	0.00
16,200.00	90.00	89.83	9,360.00	28.96	7,751.74	7,751.79	0.00	0.00	0.00
16,300.00	90.00	89.83	9,360.00	29.26	7,851.74	7,851.79	0.00	0.00	0.00
16,400.00	90.00	89.83	9,360.00	29.56	7,951.74	7,951.79	0.00	0.00	0.00
16,500.00	90.00	89.83	9,360.00	29.86	8,051.74	8,051.79	0.00	0.00	0.00
16,600.00	90.00	89.83	9,360.00	30.16	8,151.74	8,151.79	0.00	0.00	0.00
16,700.00	90.00	89.83	9,360.00	30.46	8,251.73	8,251.79	0.00	0.00	0.00
16,800.00	90.00	89.83	9,360.00	30.75	8,351.73	8,351.79	0.00	0.00	0.00
16,900.00	90.00	89.83	9,360.00	31.05	8,451.73	8,451.79	0.00	0.00	0.00
17,000.00	90.00	89.83	9,360.00	31.35	8,551.73	8,551.79	0.00	0.00	0.00
17,100.00	90.00	89.83	9,360.00	31.65	8,651.73	8,651.79	0.00	0.00	0.00
17,200.00	90.00	89.83	9,360.00	31.95	8,751.73	8,751.79	0.00	0.00	0.00
17,300.00	90.00	89.83	9,360.00	32.24	8,851.73	8,851.79	0.00	0.00	0.00
17,400.00	90.00	89.83	9,360.00	32.54	8,951.73	8,951.79	0.00	0.00	0.00
17,500.00	90.00	89.83	9,360.00	32.84	9,051.73	9,051.79	0.00	0.00	0.00
17,600.00	90.00	89.83	9,360.00	33.14	9,151.73	9,151.79	0.00	0.00	0.00
17,700.00	90.00	89.83	9,360.00	33.44	9,251.73	9,251.79	0.00	0.00	0.00
17,800.00	90.00	89.83	9,360.00	33.74	9,351.73	9,351.79	0.00	0.00	0.00
17,900.00	90.00	89.83	9,360.00	34.03	9,451.73	9,451.79	0.00	0.00	0.00
18,000.00	90.00	89.83	9,360.00	34.33	9,551.73	9,551.79	0.00	0.00	0.00
18,100.00	90.00	89.83	9,360.00	34.63	9,651.73	9,651.79	0.00	0.00	0.00
18,200.00	90.00	89.83	9,360.00	34.93	9,751.73	9,751.79	0.00	0.00	0.00
18,300.00	90.00	89.83	9,360.00	35.23	9,851.73	9,851.79	0.00	0.00	0.00
18,400.00	90.00	89.83	9,360.00	35.53	9,951.73	9,951.79	0.00	0.00	0.00
18,500.00	90.00	89.83	9,360.00	35.82	10,051.73	10,051.79	0.00	0.00	0.00
18,600.00	90.00	89.83	9,360.00	36.12	10,151.73	10,151.79	0.00	0.00	0.00
18,700.00	90.00	89.83	9,360.00	36.42	10,251.73	10,251.79	0.00	0.00	0.00
18,800.00	90.00	89.83	9,360.00	36.72	10,351.73	10,351.79	0.00	0.00	0.00
18,900.00	90.00	89.83	9,360.00	37.02	10,451.72	10,451.79	0.00	0.00	0.00
19,000.00	90.00	89.83	9,360.00	37.31	10,551.72	10,551.79	0.00	0.00	0.00
19,100.00	90.00	89.83	9,360.00	37.61	10,651.72	10,651.79	0.00	0.00	0.00
19,200.00	90.00	89.83	9,360.00	37.91	10,751.72	10,751.79	0.00	0.00	0.00
19,300.00	90.00	89.83	9,360.00	38.21	10,851.72	10,851.79	0.00	0.00	0.00
19,400.00	90.00	89.83	9,360.00	38.51	10,951.72	10,951.79	0.00	0.00	0.00





<b>Database:</b>	EDM 5000.1 Dixon Directional	<b>Local Co-ordinate Reference:</b>	Well (01) Bond 33-34 FED COM 207H
<b>Company:</b>	PBEX	<b>TVD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Project:</b>	Lea County, NM (N83 - NME)	<b>MD Reference:</b>	RKB - 30.5 @ 3718.11usft
<b>Site:</b>	Bond South Pad - Phase 1	<b>North Reference:</b>	Grid
<b>Well:</b>	(01) Bond 33-34 FED COM 207H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	207H		
<b>Design:</b>	Plan 2		

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)
19,500.00	90.00	89.83	9,360.00	38.81	11,051.72	11,051.79	0.00	0.00	0.00
19,600.00	90.00	89.83	9,360.00	39.10	11,151.72	11,151.79	0.00	0.00	0.00
19,700.00	90.00	89.83	9,360.00	39.40	11,251.72	11,251.79	0.00	0.00	0.00
19,800.00	90.00	89.83	9,360.00	39.70	11,351.72	11,351.79	0.00	0.00	0.00
19,900.00	90.00	89.83	9,360.00	40.00	11,451.72	11,451.79	0.00	0.00	0.00
20,000.00	90.00	89.83	9,360.00	40.30	11,551.72	11,551.79	0.00	0.00	0.00
20,100.00	90.00	89.83	9,360.00	40.59	11,651.72	11,651.79	0.00	0.00	0.00
20,181.28	90.00	89.83	9,360.00	40.84	11,733.00	11,733.07	0.00	0.00	0.00
TD at 20181.28									

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
PBHL - v1 - (01) Bond 3: - plan hits target center - Point	0.00	0.00	9,360.00	40.84	11,733.00	619,314.45	722,093.35	32.70116097	-103.74571610
LTP - v1 - (01) Bond 32- - plan misses target center by 31.28usft at 20100.00usft MD (9360.00 TVD, 40.59 N, 11651.72 E) - Point	0.00	0.00	9,360.00	40.66	11,683.00	619,314.27	722,043.35	32.70116124	-103.74587864
FTP/PP - v1 - (01) Bond - plan hits target center - Point	0.00	0.00	9,360.00	9.79	1,320.88	619,283.40	711,681.23	32.70122964	-103.77956387

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,500.00	3,500.00	0.00	0.00	Start Build 2.00
4,173.32	4,167.14	0.85	78.76	Start 2535.42 hold at 4173.32 MD
6,708.75	6,632.86	7.23	669.17	Start Drop -2.00
7,382.07	7,300.00	8.08	747.92	Start 1487.04 hold at 7382.07 MD
8,869.11	8,787.04	8.08	747.92	Start Build 10.00
9,769.11	9,360.00	9.79	1,320.88	Start 10412.17 hold at 9769.11 MD
20,181.28	9,360.00	40.84	11,733.00	TD at 20181.28



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 539502

ACKNOWLEDGMENTS

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID: 332544
	Action Number: 539502
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that no additives containing PFAS chemicals will be added to the completion or recompletion of this well.
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**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 539502

**CONDITIONS**

Operator: PBEX Operations, LLC 223 West Wall Street Midland, TX 79701	OGRID: 332544
	Action Number: 539502
	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.	1/2/2026
mikahthomas	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	1/2/2026
jeffrey.harrison	All conducted logs must be submitted to the OCD.	1/2/2026
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.	1/2/2026
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.	1/2/2026
jeffrey.harrison	File As Drilled C-102 and a directional Survey with C-104 completion packet.	1/2/2026
jeffrey.harrison	Notify the OCD 24 hours prior to casing & cement.	1/2/2026
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.	1/2/2026
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.	1/2/2026