

RECEIVED

JUN 12 2015

Form 3160-5  
(February 2005)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFarmington Field Office  
Bureau of Land ManagementFORM APPROVED  
OMB No. 1004-0137  
Expires: March 31, 2007**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

SUBMIT IN TRIPLICATE - Other instructions on page 2.

|                                                                       |
|-----------------------------------------------------------------------|
| Serial No.<br>NMSF078534                                              |
| 6. If Indian, Allottee or Tribe Name                                  |
| 7. If Unit of CA/Agreement, Name and/or No.                           |
| 8. Well Name and No.<br>CHACO 2407-35I #160H                          |
| 9. API Well No.<br>30-039-31312                                       |
| 10. Field and Pool or Exploratory Area<br>Lybrook Gallup/Basin Mancos |
| 11. Country or Parish, State<br>Rio Arriba, NM                        |

1. Type of Well

☒ Oil Well    ☐ Gas Well    ☐ Other

2. Name of Operator

WPX Energy Production, LLC

3a. Address

PO Box 640    Aztec, NM 87410

3b. Phone No. (include area code)

505-333-1816

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

SHL: 1734' FSL &amp; 225' SEC 35 24N 7W

BHL: 294' FNL &amp; 1006' FWL SEC 35 24N 7W

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"/> Fracture Treat   | <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 checked="" type="checkbox"/> Other <b>LATERAL CHANGE</b> |
|                                                      | <input 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            |                                                                 |

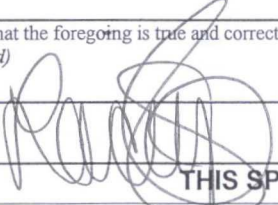
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and true vertical depths of all pertination markers and zones. Attach the Bond under which the work will be performed 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 determined that the site is ready for final inspection.)

WPX requests to change the orientation of the lateral. Updated directional, ops plans and C102 are attached.

**BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS**

OIL CONS. DIV DIST. 3

JUN 26 2015

|                                                                                                                                                                                                                                                           |  |                           |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|-----------------|
| 14. I hereby certify that the foregoing is true and correct.<br>Name (Printed/Typed)<br>Lacey Granillo                                                                                                                                                    |  | Title Permitting Tech III |                 |
| Signature                                                                                                                                                              |  | Date 6/12/15              |                 |
| <b>THIS SPACE FOR FEDERAL OR STATE OFFICE USE</b>                                                                                                                                                                                                         |  |                           |                 |
| Approved by<br><br>William Tambekau                                                                                                                                    |  | Title Petroleum Engineer  | Date 06-24-2015 |
| 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 FFO                |                 |

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)

NMOCDV

**ADHERE TO PREVIOUS NMOCD  
CONDITIONS OF APPROVAL**



District I  
1625 N. French Drive, Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

District II  
811 S. First Street, Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV  
1220 S. St. Francis Drive, Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102  
Revised August 1, 2011

Submit one copy to  
Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive  
Santa Fe, NM 87505

☐ AMENDED REPORT  
**RECEIVED**

JUN 12 2015

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                             |                                              |                             |                                             |
|-----------------------------|----------------------------------------------|-----------------------------|---------------------------------------------|
| *API Number<br>30-039-31312 |                                              | *Pool Code<br>97232 / 42289 | *Pool Name<br>BASIN MANCOS / LYBROOK GALLUP |
| *Property Code<br>31489     | *Property Name<br>CHACO 2407-35I             |                             | *Well Number<br>160H                        |
| *OGRID No.<br>120782        | *Operator Name<br>WPX ENERGY PRODUCTION, LLC |                             | *Elevation<br>6806'                         |

Farmington Field Office  
Bureau of Land Management

<sup>10</sup> Surface Location

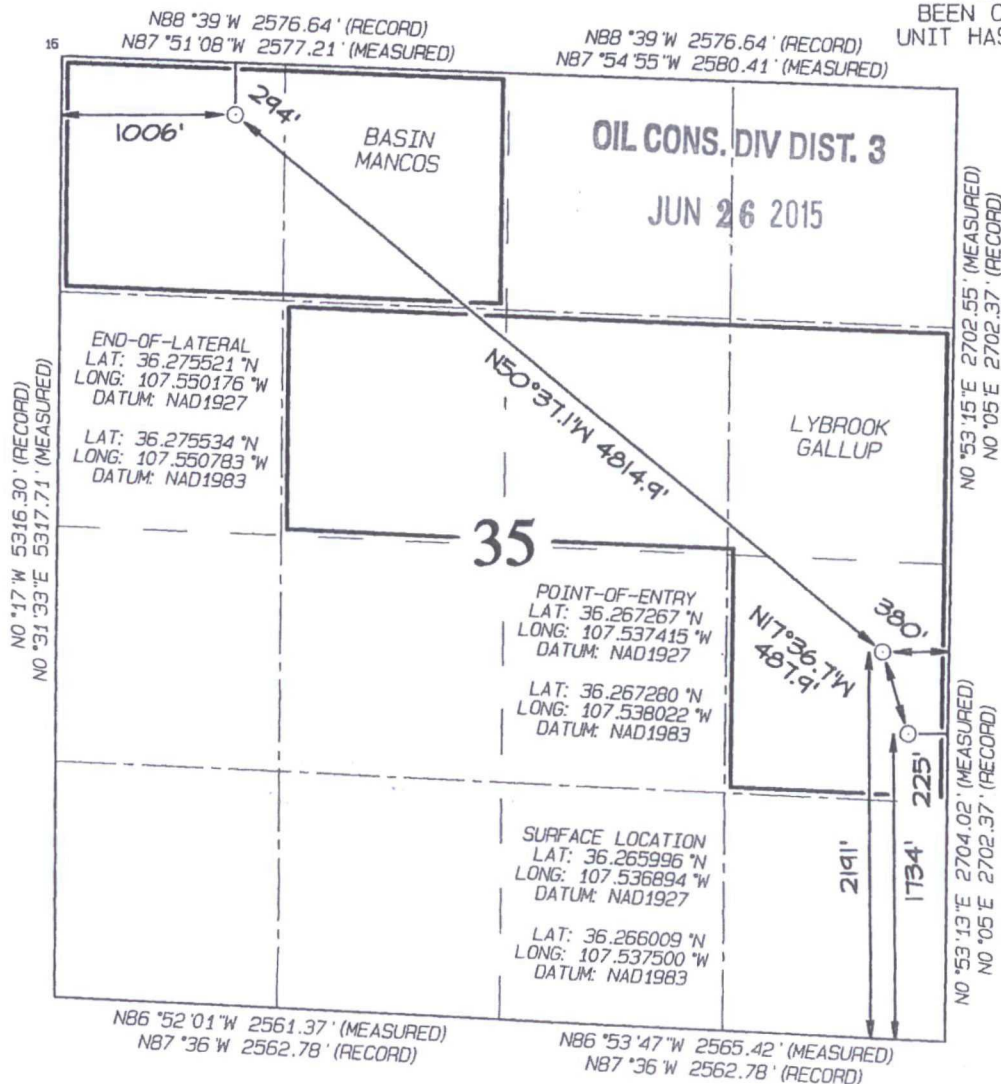
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| I             | 35      | 24N      | 7W    |         | 1734          | SOUTH            | 225           | EAST           | RIO ARriba |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| D             | 35      | 24N      | 7W    |         | 294           | NORTH            | 1006          | WEST           | RIO ARriba |

|                           |                                                                       |                  |                     |            |
|---------------------------|-----------------------------------------------------------------------|------------------|---------------------|------------|
| *Dedicated Acres<br>240.0 | N/2 NW/4 & SE/4 NW/4<br>S/2 NE/4 & NE/4 SE/4<br>SECTION 35, T24N, R7W | *Joint or Infill | *Consolidation Code | *Order No. |
|---------------------------|-----------------------------------------------------------------------|------------------|---------------------|------------|

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



<sup>17</sup> OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

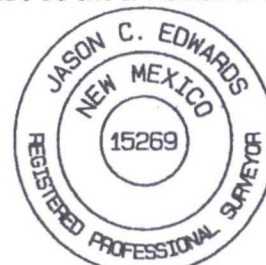
Signature: [Signature]  
Date: 6/12/15  
Printed Name: [Name]  
E-mail Address: [Email]

<sup>18</sup> SURVEYOR CERTIFICATION

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 Revised: JUNE 10, 2015  
Survey Date: SEPTEMBER 3, 2013

Signature and Seal of Professional Surveyor



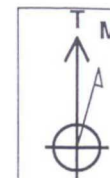
JASON C. EDWARDS  
Certificate Number 15269



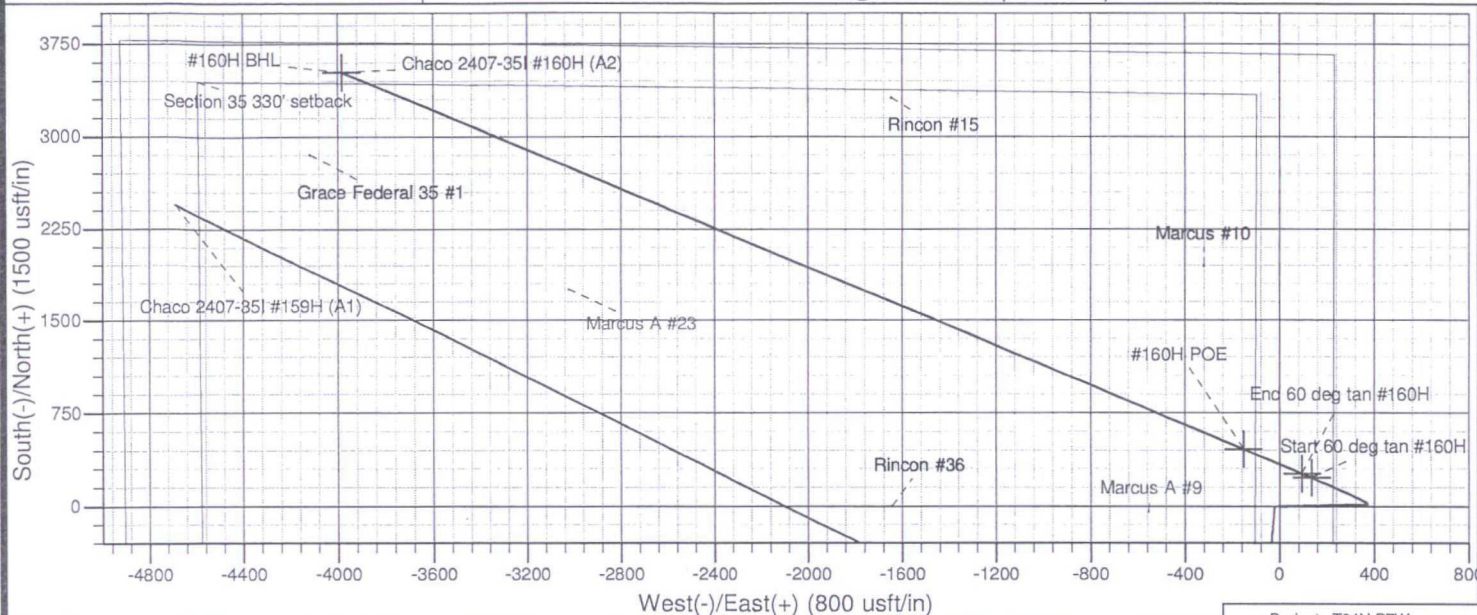


Well Name: Chaco 2407-35I #160H  
Surface Location: Chaco 2407-35I  
NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003  
Ground Elevation: 6806.00  
+N/-S 0.00 +E/-W 0.00 Northing 1916198.41 Easting 587389.82 Latitude 36.2659960 Longitude -107.5368940  
KB @ 6820.00usft (Aztec 920)

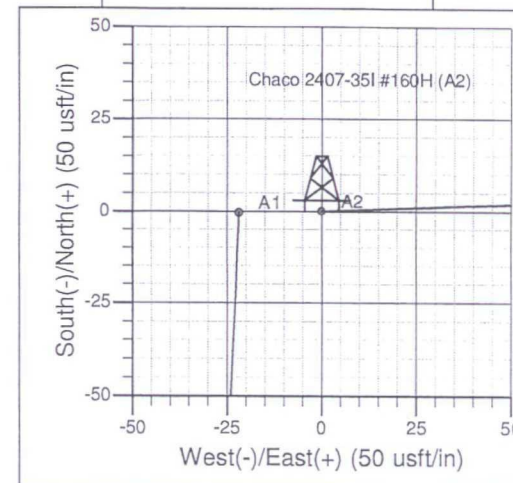
Slot  
A2



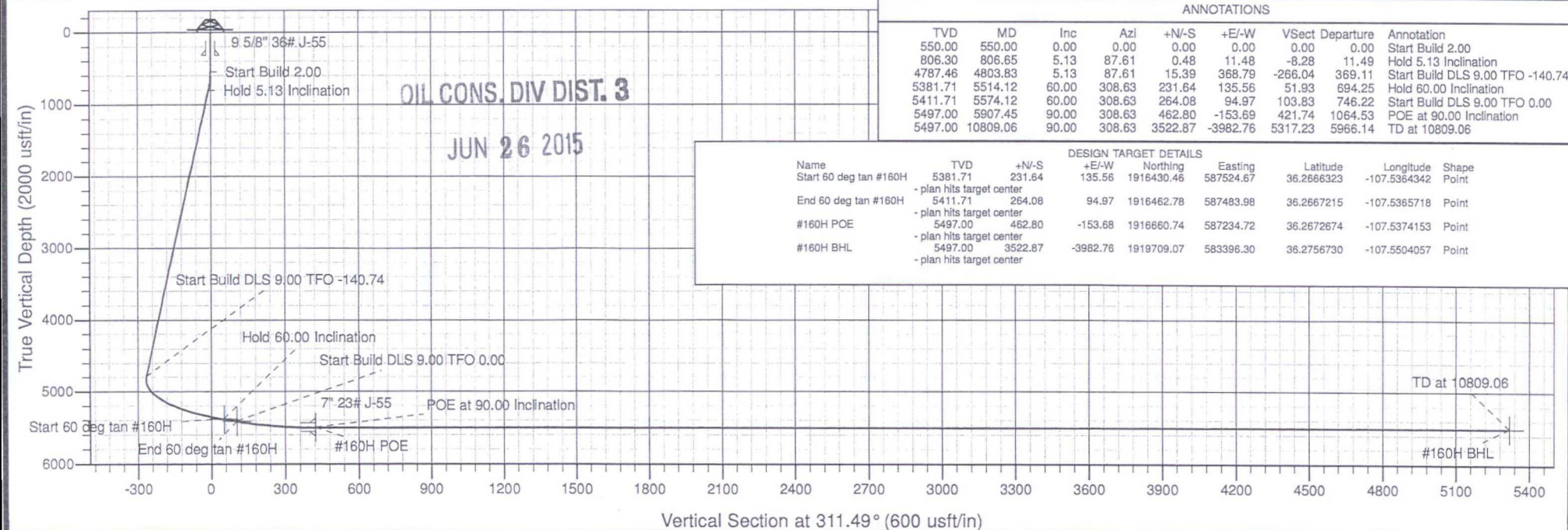
Azimuths to True North  
Magnetic North: 9.26°  
Magnetic Field  
Strength: 50097.8snT  
Dip Angle: 63.00°  
Date: 6/4/2015  
Model: IGRF2010



Project: T24N R7W  
Site: Chaco 2407-35I  
Well: Chaco 2407-35I #160H  
Design #1 4June15 sam



| SLOTS     |       |        |            |           |
|-----------|-------|--------|------------|-----------|
| Slot Name | +N/-S | +E/-W  | Northing   | Easting   |
| A1        | -0.37 | -21.81 | 1916197.98 | 587368.01 |
| A2        | 0.00  | 0.00   | 1916198.41 | 587389.82 |



| ANNOTATIONS |          |       |        |         |          |         |           |                                  |  |
|-------------|----------|-------|--------|---------|----------|---------|-----------|----------------------------------|--|
| TVD         | MD       | Inc   | Azi    | +N/-S   | +E/-W    | Vsect   | Departure | Annotation                       |  |
| 550.00      | 550.00   | 0.00  | 0.00   | 0.00    | 0.00     | 0.00    | 0.00      | Start Build 2.00                 |  |
| 806.30      | 806.65   | 5.13  | 87.61  | 0.48    | 11.48    | -8.28   | 11.49     | Hold 5.13 Inclination            |  |
| 4787.46     | 4803.83  | 5.13  | 87.61  | 15.39   | 368.79   | -266.04 | 369.11    | Start Build DLS 9.00 TFO -140.74 |  |
| 5381.71     | 5514.12  | 60.00 | 308.63 | 231.64  | 135.56   | 51.93   | 694.25    | Hold 60.00 Inclination           |  |
| 5411.71     | 5574.12  | 60.00 | 308.63 | 264.08  | 94.97    | 103.83  | 746.22    | Start Build DLS 9.00 TFO 0.00    |  |
| 5497.00     | 5907.45  | 90.00 | 308.63 | 462.80  | -153.69  | 421.74  | 1064.53   | POE at 90.00 Inclination         |  |
| 5497.00     | 10809.06 | 90.00 | 308.63 | 3522.87 | -3982.76 | 5317.23 | 5966.14   | TD at 10809.06                   |  |

| DESIGN TARGET DETAILS  |         |         |          |            |           |            |              |
|------------------------|---------|---------|----------|------------|-----------|------------|--------------|
| Name                   | TVD     | +N/-S   | +E/-W    | Northing   | Easting   | Latitude   | Longitude    |
| Start 60 deg tan #160H | 5381.71 | 231.64  | 135.56   | 1916430.46 | 587524.67 | 36.2666323 | -107.5364342 |
| End 60 deg tan #160H   | 5411.71 | 264.08  | 94.97    | 1916462.78 | 587483.98 | 36.2667215 | -107.5365718 |
| #160H POE              | 5497.00 | 462.80  | -153.68  | 1916660.74 | 587234.72 | 36.2672674 | -107.5374153 |
| #160H BHL              | 5497.00 | 3522.87 | -3982.76 | 1919709.07 | 583396.30 | 36.2756730 | -107.5504057 |

OIL CONS. DIV DIST. 3

JUN 26 2015

## **WPX Energy**

T24N R7W

Chaco 2407-35I

Chaco 2407-35I #160H - Slot A2

Wellbore #1

Plan: Design #1 4June15 sam

## **Standard Planning Report**

09 June, 2015



# WPX

## Planning Report

|           |                       |                              |                                          |
|-----------|-----------------------|------------------------------|------------------------------------------|
| Database: | COMPASS-SANJUAN       | Local Co-ordinate Reference: | Well Chaco 2407-35I #160H (A2) - Slot A2 |
| Company:  | WPX Energy            | TVD Reference:               | KB @ 6820.00usft (Aztec 920)             |
| Project:  | T24N R7W              | MD Reference:                | KB @ 6820.00usft (Aztec 920)             |
| Site:     | Chaco 2407-35I        | North Reference:             | True                                     |
| Well:     | Chaco 2407-35I #160H  | Survey Calculation Method:   | Minimum Curvature                        |
| Wellbore: | Wellbore #1           |                              |                                          |
| Design:   | Design #1 4June15 sam |                              |                                          |

|             |                                      |               |                |
|-------------|--------------------------------------|---------------|----------------|
| Project     | T24N R7W                             |               |                |
| Map System: | US State Plane 1927 (Exact solution) | System Datum: | Mean Sea Level |
| Geo Datum:  | NAD 1927 (NADCON CONUS)              |               |                |
| Map Zone:   | New Mexico West 3003                 |               |                |

|                       |                |                   |                   |
|-----------------------|----------------|-------------------|-------------------|
| Site                  | Chaco 2407-35I |                   |                   |
| Site Position:        |                | Northing:         | 1,916,198.41 usft |
| From:                 | Lat/Long       | Easting:          | 587,389.82 usft   |
| Position Uncertainty: | 0.00 usft      | Slot Radius:      | 13.20 in          |
|                       |                | Latitude:         | 36.2659960        |
|                       |                | Longitude:        | -107.5368940      |
|                       |                | Grid Convergence: | 0.18 °            |

|                      |                                |                     |               |
|----------------------|--------------------------------|---------------------|---------------|
| Well                 | Chaco 2407-35I #160H - Slot A2 |                     |               |
| Well Position        | +N/-S                          | 0.00 usft           | Northing:     |
|                      | +E/-W                          | 0.00 usft           | Easting:      |
| Position Uncertainty | 0.00 usft                      | Wellhead Elevation: | 0.00 usft     |
|                      |                                | Latitude:           | 36.2659960    |
|                      |                                | Longitude:          | -107.5368940  |
|                      |                                | Ground Level:       | 6,806.00 usft |

|           |             |             |                |
|-----------|-------------|-------------|----------------|
| Wellbore  | Wellbore #1 |             |                |
| Magnetics | Model Name  | Sample Date | Declination    |
|           |             |             | (°)            |
|           | IGRF2010    | 6/4/2015    | 9.26           |
|           |             |             | Dip Angle      |
|           |             |             | (°)            |
|           |             |             | Field Strength |
|           |             |             | (nT)           |
|           |             |             | 63.00          |
|           |             |             | 50,098         |

|                   |                       |        |               |
|-------------------|-----------------------|--------|---------------|
| Design            | Design #1 4June15 sam |        |               |
| Audit Notes:      |                       |        |               |
| Version:          | Phase:                | PLAN   | Tie On Depth: |
|                   |                       |        | 0.00          |
| Vertical Section: | Depth From (TVD)      | +N/-S  | +E/-W         |
|                   | (usft)                | (usft) | (usft)        |
|                   | 0.00                  | 0.00   | 0.00          |
|                   |                       |        | Direction     |
|                   |                       |        | (°)           |
|                   |                       |        | 311.49        |

|                |             |         |                |          |           |             |             |             |         |                       |
|----------------|-------------|---------|----------------|----------|-----------|-------------|-------------|-------------|---------|-----------------------|
| Plan Sections  |             |         |                |          |           |             |             |             |         |                       |
| Measured Depth | Inclination | Azimuth | Vertical Depth | +N/-S    | +E/-W     | Dogleg Rate | Build Rate  | Turn Rate   | TFO     | Target                |
| (usft)         | (°)         | (°)     | (usft)         | (usft)   | (usft)    | (°/100usft) | (°/100usft) | (°/100usft) | (°)     |                       |
| 0.00           | 0.00        | 0.00    | 0.00           | 0.00     | 0.00      | 0.00        | 0.00        | 0.00        | 0.00    |                       |
| 550.00         | 0.00        | 0.00    | 550.00         | 0.00     | 0.00      | 0.00        | 0.00        | 0.00        | 0.00    |                       |
| 806.65         | 5.13        | 87.61   | 806.31         | 0.48     | 11.48     | 2.00        | 2.00        | 0.00        | 87.61   |                       |
| 4,803.83       | 5.13        | 87.61   | 4,787.46       | 15.39    | 368.79    | 0.00        | 0.00        | 0.00        | 0.00    |                       |
| 5,514.12       | 60.00       | 308.63  | 5,381.71       | 231.64   | 135.56    | 9.00        | 7.72        | -19.57      | -140.74 | Start 60 deg tan #160 |
| 5,574.12       | 60.00       | 308.63  | 5,411.71       | 264.08   | 94.97     | 0.00        | 0.00        | 0.00        | 0.00    | End 60 deg tan #160   |
| 5,743.23       | 75.22       | 308.63  | 5,475.94       | 361.41   | -26.82    | 9.00        | 9.00        | 0.00        | 0.00    |                       |
| 5,907.45       | 90.00       | 308.63  | 5,497.00       | 462.80   | -153.68   | 9.00        | 9.00        | 0.00        | -0.01   | #160H POE             |
| 10,809.06      | 90.00       | 308.63  | 5,497.00       | 3,522.87 | -3,982.76 | 0.00        | 0.00        | 0.00        | 0.00    | #160H BHL             |

# WPX

## Planning Report

|           |                       |                              |                                          |
|-----------|-----------------------|------------------------------|------------------------------------------|
| Database: | COMPASS-SANJUAN       | Local Co-ordinate Reference: | Well Chaco 2407-35I #160H (A2) - Slot A2 |
| Company:  | WPX Energy            | TVD Reference:               | KB @ 6820.00usft (Aztec 920)             |
| Project:  | T24N R7W              | MD Reference:                | KB @ 6820.00usft (Aztec 920)             |
| Site:     | Chaco 2407-35I        | North Reference:             | True                                     |
| Well:     | Chaco 2407-35I #160H  | Survey Calculation Method:   | Minimum Curvature                        |
| Wellbore: | Wellbore #1           |                              |                                          |
| Design:   | Design #1 4June15 sam |                              |                                          |

| 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                  |
| 320.00                                  | 0.00            | 0.00        | 320.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>9 5/8" 36# J-55</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 500.00                                  | 0.00            | 0.00        | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| 550.00                                  | 0.00            | 0.00        | 550.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Build 2.00</b>                 |                 |             |                       |              |              |                         |                         |                        |                       |
| 806.65                                  | 5.13            | 87.61       | 806.30                | 0.48         | 11.48        | -8.28                   | 2.00                    | 2.00                   | 0.00                  |
| <b>Hold 5.13 Inclination</b>            |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,000.00                                | 5.13            | 87.61       | 998.88                | 1.20         | 28.76        | -20.75                  | 0.00                    | 0.00                   | 0.00                  |
| 1,500.00                                | 5.13            | 87.61       | 1,496.88              | 3.06         | 73.46        | -52.99                  | 0.00                    | 0.00                   | 0.00                  |
| 2,000.00                                | 5.13            | 87.61       | 1,994.87              | 4.93         | 118.15       | -85.23                  | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                                | 5.13            | 87.61       | 2,492.87              | 6.79         | 162.85       | -117.48                 | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                                | 5.13            | 87.61       | 2,990.86              | 8.66         | 207.54       | -149.72                 | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                                | 5.13            | 87.61       | 3,488.86              | 10.52        | 252.24       | -181.96                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                                | 5.13            | 87.61       | 3,986.85              | 12.39        | 296.93       | -214.20                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                                | 5.13            | 87.61       | 4,484.85              | 14.25        | 341.63       | -246.44                 | 0.00                    | 0.00                   | 0.00                  |
| 4,803.83                                | 5.13            | 87.61       | 4,787.46              | 15.39        | 368.79       | -266.04                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Build DLS 9.00 TFO -140.74</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,000.00                                | 14.05           | 319.85      | 4,981.84              | 34.10        | 362.15       | -248.67                 | 9.00                    | 4.55                   | -65.13                |
| 5,500.00                                | 58.73           | 308.73      | 5,374.52              | 224.05       | 145.04       | 39.80                   | 9.00                    | 8.94                   | -2.22                 |
| 5,514.12                                | 60.00           | 308.63      | 5,381.71              | 231.64       | 135.56       | 51.93                   | 9.00                    | 8.98                   | -0.69                 |
| <b>Hold 60.00 Inclination</b>           |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,574.12                                | 60.00           | 308.63      | 5,411.71              | 264.08       | 94.97        | 103.83                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Build DLS 9.00 TFO 0.00</b>    |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,743.23                                | 75.22           | 308.63      | 5,475.94              | 361.41       | -26.82       | 259.54                  | 9.00                    | 9.00                   | 0.00                  |
| 5,907.00                                | 89.96           | 308.63      | 5,497.00              | 462.52       | -153.33      | 421.29                  | 9.00                    | 9.00                   | 0.00                  |
| <b>7" 23# J-55</b>                      |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,907.45                                | 90.00           | 308.63      | 5,497.00              | 462.80       | -153.69      | 421.74                  | 8.95                    | 8.95                   | 0.00                  |
| <b>POE at 90.00 Inclination</b>         |                 |             |                       |              |              |                         |                         |                        |                       |
| 6,000.00                                | 90.00           | 308.63      | 5,497.00              | 520.58       | -225.98      | 514.17                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                                | 90.00           | 308.63      | 5,497.00              | 832.73       | -616.58      | 1,013.55                | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                                | 90.00           | 308.63      | 5,497.00              | 1,144.88     | -1,007.17    | 1,512.93                | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                                | 90.00           | 308.63      | 5,497.00              | 1,457.03     | -1,397.76    | 2,012.30                | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                                | 90.00           | 308.63      | 5,497.00              | 1,769.18     | -1,788.36    | 2,511.68                | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                                | 90.00           | 308.63      | 5,497.00              | 2,081.33     | -2,178.95    | 3,011.05                | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00                                | 90.00           | 308.63      | 5,497.00              | 2,393.48     | -2,569.54    | 3,510.43                | 0.00                    | 0.00                   | 0.00                  |
| 9,500.00                                | 90.00           | 308.63      | 5,497.00              | 2,705.62     | -2,960.14    | 4,009.81                | 0.00                    | 0.00                   | 0.00                  |
| 10,000.00                               | 90.00           | 308.63      | 5,497.00              | 3,017.77     | -3,350.73    | 4,509.18                | 0.00                    | 0.00                   | 0.00                  |
| 10,500.00                               | 90.00           | 308.63      | 5,497.00              | 3,329.92     | -3,741.32    | 5,008.56                | 0.00                    | 0.00                   | 0.00                  |
| 10,809.06                               | 90.00           | 308.63      | 5,497.00              | 3,522.87     | -3,982.76    | 5,317.23                | 0.00                    | 0.00                   | 0.00                  |
| <b>TD at 10809.06</b>                   |                 |             |                       |              |              |                         |                         |                        |                       |



# WPX

## Planning Report

|           |                       |                              |                                          |
|-----------|-----------------------|------------------------------|------------------------------------------|
| Database: | COMPASS-SANJUAN       | Local Co-ordinate Reference: | Well Chaco 2407-35I #160H (A2) - Slot A2 |
| Company:  | WPX Energy            | TVD Reference:               | KB @ 6820.00usft (Aztec 920)             |
| Project:  | T24N R7W              | MD Reference:                | KB @ 6820.00usft (Aztec 920)             |
| Site:     | Chaco 2407-35I        | North Reference:             | True                                     |
| Well:     | Chaco 2407-35I #160H  | Survey Calculation Method:   | Minimum Curvature                        |
| Wellbore: | Wellbore #1           |                              |                                          |
| Design:   | Design #1 4June15 sam |                              |                                          |

| Design Targets                                                 |                  |                 |               |                 |                 |                    |                   |            |              |
|----------------------------------------------------------------|------------------|-----------------|---------------|-----------------|-----------------|--------------------|-------------------|------------|--------------|
| Target Name<br>- hit/miss target<br>- Shape                    | Dip Angle<br>(°) | Dip Dir.<br>(°) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude   | Longitude    |
| Start 60 deg tan #160H<br>- plan hits target center<br>- Point | 0.00             | 0.00            | 5,381.71      | 231.64          | 135.56          | 1,916,430.46       | 587,524.67        | 36.2666323 | -107.5364342 |
| End 60 deg tan #160H<br>- plan hits target center<br>- Point   | 0.00             | 0.00            | 5,411.71      | 264.08          | 94.97           | 1,916,462.78       | 587,483.99        | 36.2667214 | -107.5365719 |
| #160H POE<br>- plan hits target center<br>- Point              | 0.00             | 0.00            | 5,497.00      | 462.80          | -153.68         | 1,916,660.74       | 587,234.72        | 36.2672674 | -107.5374154 |
| #160H BHL<br>- plan hits target center<br>- Point              | 0.00             | 0.00            | 5,497.00      | 3,522.87        | -3,982.76       | 1,919,709.07       | 583,396.30        | 36.2756729 | -107.5504057 |

| Casing Points               |                             |                 |                            |                          |  |
|-----------------------------|-----------------------------|-----------------|----------------------------|--------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name            | Casing<br>Diameter<br>(in) | Hole<br>Diameter<br>(in) |  |
| 320.00                      | 320.00                      | 9 5/8" 36# J-55 | 9.62                       | 12.25                    |  |
| 5,907.00                    | 5,497.00                    | 7" 23# J-55     | 7.00                       | 8.75                     |  |

| Plan Annotations            |                             |                   |                 |                                  |  |
|-----------------------------|-----------------------------|-------------------|-----------------|----------------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 |                                  |  |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) | Comment                          |  |
| 550.00                      | 550.00                      | 0.00              | 0.00            | Start Build 2.00                 |  |
| 806.65                      | 806.30                      | 0.48              | 11.48           | Hold 5.13 Inclination            |  |
| 4,803.83                    | 4,787.46                    | 15.39             | 368.79          | Start Build DLS 9.00 TFO -140.74 |  |
| 5,514.12                    | 5,381.71                    | 231.64            | 135.56          | Hold 60.00 Inclination           |  |
| 5,574.12                    | 5,411.71                    | 264.08            | 94.97           | Start Build DLS 9.00 TFO 0.00    |  |
| 5,907.45                    | 5,497.00                    | 462.80            | -153.69         | POE at 90.00 Inclination         |  |
| 10,809.06                   | 5,497.00                    | 3,522.87          | -3,982.76       | TD at 10809.06                   |  |

**WPX ENERGY**

**Operations Plan**

*(Note: This procedure will be adjusted on site based upon actual conditions)*

**DATE:** 6/12/2015 **FIELD:** Basin Mancos/ Lybrook Gallup

**WELL NAME:** Chaco 2407-35I #160H **SURFACE:** BLM

**SH Location:** NESE Section 35 24N-07W **ELEVATION:** 6806' GR

**BH Location:** NWNW Section 35 24N-07W **MINERALS:** Federal  
Rio Arriba CO., NM

**MEASURED DEPTH:** 10,722'

**I. GEOLOGY:** Surface formation – San Jose

**A. FORMATION TOPS: ( KB)**

| Name           | MD   | TVD         | Name                 | MD          | TVD  |
|----------------|------|-------------|----------------------|-------------|------|
| Ojo Alamo      | 1032 | 1031        | Point Lookout        | 4163        | 4149 |
| Kirtland       | 1340 | <b>1338</b> | Mancos               | 4423        | 4408 |
| Picture Cliffs | 2017 | 2012        | <b>Kickoff Point</b> | <b>4804</b> | 4788 |
| Lewis          | 2089 | 2084        | Top Target           | 5539        | 5394 |
| Chacra         | 2348 | 2341        | <b>Landing Point</b> | <b>5908</b> | 5497 |
| Cliff House    | 3444 | 3433        | Base Target          | <b>5908</b> | 5497 |
| Menefee        | 3496 | 3485        |                      |             |      |
|                |      |             | TD                   | 10722       | 5497 |

- B. **MUD LOGGING PROGRAM:** Mudlogger on location from surface csg to TD.
- C. **LOGGING PROGRAM:** LWD GR from surface casing to TD.
- D. **NATURAL GAUGES:** Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

**II. DRILLING**

- A. **MUD PROGRAM:** LSND mud (WBM) will be used to drill the 12-1/4" Surface hole, the 8 3/4" Directional Vertical hole, and the curve portion of the wellbore. A LSND (WBM) or (OBM) will be used to drill the lateral portion of well. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.
- B. **BOP TESTING:** While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 minutes**. Pressure test surface casing to **600 psi for 30 minutes** and intermediate casing to **1500 psi for 30 minutes**. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results.**



### III. MATERIALS

#### A. CASING PROGRAM:

|                 |  |        |  |               |  |        |  |       |      |
|-----------------|--|--------|--|---------------|--|--------|--|-------|------|
| Surface         |  | 12.25" |  | 320'          |  | 9.625" |  | 36#   | J-55 |
| Intermediate    |  | 8.75"  |  | 5907'         |  | 7"     |  | 23#   | K-55 |
| Prod. Liner     |  | 6.125" |  | 5757'- 10722' |  | 4-1/2" |  | 11.6# | N-80 |
| Tie-Back String |  | N/A    |  | Surf-5757'    |  | 4-1/2" |  | 11.6# | N-80 |

#### B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft.
3. PRODUCTION LINER: Run 4-1/2" Liner with cement nose guide Float Shoe + 2jts. of 4-1/2" casing + Landing Collar + 4-1/2" pup joint + 1 RSI (Sliding Sleeve) positioned inside the 330ft Hard line. Centralizer program will be determined by Wellbore condition and when Lateral is evaluated by Geoscientists and Reservoir Engineers. Set seals on Liner Hanger. Test TOL to 1500 psi for 15 minutes.
4. TIE-BACK CASING: None

#### C. CEMENTING:

*(Note: Volumes may be adjusted onsite due to actual conditions)*

1. SURFACE: 5 bbl Fresh Water Spacer, 100 sx (160 cu.ft.) of 14.5 ppg Type I-II (Neat G) + 20% Fly Ash cement w/ 7.41 gal/sack mix water ratio @ 1.61 cu ft/sx yield. Calculated @ volume + 50% excess. WOC 12 hours. Test csg to 600psi. Total Volume: (160 cu-ft/100 sx/ Bbls). TOC at Surface.
2. INTERMEDIATE: 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: +/- 700 sx Foamed 50/50 Poz Cement. 13.0 ppg + 0.1% Halad 766 + 0.2% Versaset + 1.5% Chem-Foamer 760 (Yield :1.43 cu-ft/ sk. / Vol: 1001 cu-ft / 178.3 Bbls.) + TAIL: 100 sx 13.5 #/gal. + 0.2% Versaset + 0.15% HALAD-766 (Yield: 1.28 cu-ft / sk / Vol: 128 cu-ft / 22.8 Bbls.). + Fresh Water Displacement (1,362 cu-ft / +/- 242 Bbls) + 100 sx Top-Out Cement Premium: Yield: (1.17 cu-ft/ sk / (Vol: 117 cu-ft / 20.8 Bbls). WOC 12 hrs. Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (900 sx / 1246 cu-ft / 222 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
3. PRODUCTION LINER: **Spacer #1:** 10 bbl (56 cu-ft) Water Spacer. **Spacer #2:** 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III. **Spacer #3:** 10 bbl Water Spacer. **Lead Cement:** Extencem™ System. Yield 1.36 cu ft/sk, 13.5 ppg, (395 sx / 538.13 cu ft. / 95 bbls). **Tail Spacer:** 20 BBL of MMCR. **Displacement:** Displace w/ +/- 138 bbl Fr Water. Total Cement ( 538 cu ft / 95 bbls).

#### IV. COMPLETION

##### A. CBL

1. Run CCL for perforating.

##### B. PRESSURE TEST

1. Pressure test 4-1/2" casing to 4500 psi max, hold at 1500 psi for 30 minutes. Increase pressure to Open RSI sleeves.

##### C. STIMULATION

1. Stimulate with approximately 2,805,000# 20/40 mesh sand and 340,000# 16/30 mesh sand in 619,113 gallons water with 42,696 mscf N2 for 17 stages.
2. Isolate stages with flow through frac plug.
3. Drill out frac plugs and flowback lateral.

##### D. RUNNING TUBING

1. Production Tubing: Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner.

- Although this horizontal well will be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 B(1) NMAC, will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 B(2) NMAC, 19.15.16.15 B(2) NMAC, and 19.15.16.15 B(4) NMAC.

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#### NOTE:

Installation of RSI sleeves at Toe of Lateral.

#### **Proposed Operations:**

A 4-1/2" 11.6# N-80 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# K-55 Intermediate casing with a Liner Hanger and pack-off assembly then cemented to top of liner hanger.

After cementing and TOL clean up operations are complete, the TOL will be tested to 1500 psi (per BLM).

A 4-1/2" 11.6# N-80 tie-back string with seal assembly will be run and stung into the PBR of the liner hanger, tested to 1500 PSI and hung off at the surface. After Stimulation and Testing operations are complete the 4-1/2" tie-back string will be removed from the well.