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DEC 14 2015

Form 3160-5  
(February 2005)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Fairmington Field Office  
Bureau of Land Management

FORM 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.

|   |   |   |
|---|---|---|
| 1. Type of Well<br><input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other                            |   | 5. Lease Serial No.<br>NMSF078534                                     |
| 2. Name of Operator<br>WPX Energy Production, LLC   |   | 6. If Indian, Allottee or Tribe Name                                  |
| 3a. Address<br>PO Box 640    Aztec, NM 87410  | 3b. Phone No. (include area code)<br>505-333-1816 | 7. If Unit of CA/Agreement, Name and/or No.<br>NMNM134944             |
| 4. Location of Well (Footage, Sec., T., R., M., or Survey Description)<br>SHL: 1734' FSL & 225' FEL SEC 35 24N 7W<br>BHL: 330' FNL & 825' FWL SEC 35 24N 7W |   | 8. Well Name and No.<br>MC 6 Com #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                        |

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>RECORD CLEANUP AND REALIGN LATERAL</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 measured and true vertical depths of all pertinent 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 recomplate 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 recently submitted a series of sundries that we would like to clarify. The Sundries entitled "Realign Lateral" dated 11/23/2015 and 6/12/15 should be disregarded. Attached to this Sundry is an updated OPS plan, Directional Plan and C-102. The surface location is the same as what was approved in the APD. The lateral, the cement plan in the Operations Plan, and the BHL and POE on the C-102 have changed from the APD.

OIL CONS. DIV DIST. 3

DEC 18 2015

**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**

|  |                              |
|--|------------------------------|
| 14. I hereby certify that the foregoing is true and correct.<br>Name (Printed/Typed)<br>Lacey Granillo | Title<br>Permitting Tech III |
| Signature<br>  | 12/14/15                     |

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

|   |               |                  |
|---|---------------|------------------|
| Approved by<br>   | Title<br>PE   | Date<br>12-15-15 |
| 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<br>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)

NMOC D

**ADHERE TO PREVIOUS NMOC D  
CONDITIONS OF APPROVAL**

Rv

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**

DEC 14 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>315094    |  | *Property Name<br>MC 6 COM                   |  |   | *Well Number<br>160H |
| *OGRID No.<br>120782        |  | *Operator Name<br>WPX ENERGY PRODUCTION, LLC |  |   | *Elevation<br>6806'  |

<sup>10</sup> Surface Location

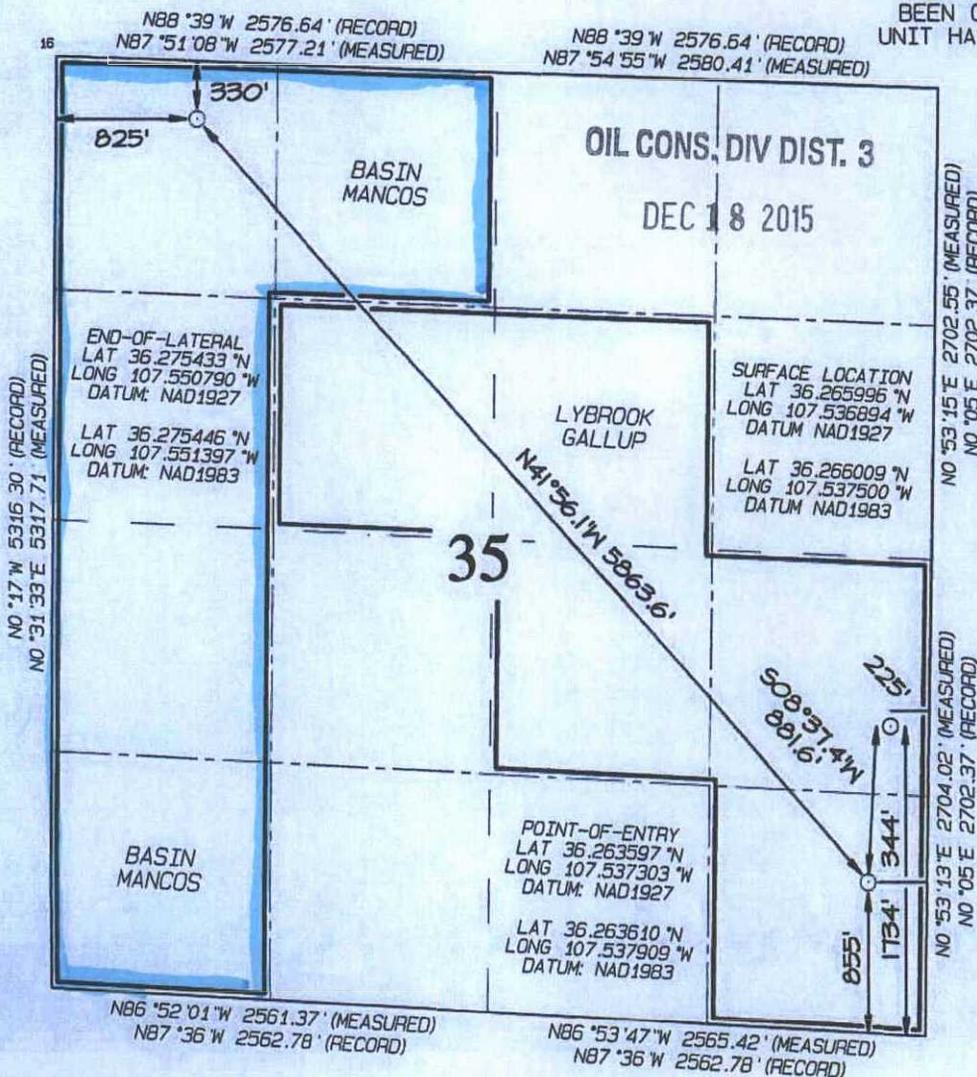
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County     |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|------------|
| I             | 35      | 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    |         | 330           | NORTH            | 825           | WEST           | RIO ARRIBA |

|  |   |                               |                                  |                         |
|--|---|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>400.0 | N/2 SE/4, SE/4 SE/4, NW/4<br>SW/4 NE/4, W/2 SW/4<br>Section 35, T24N, R7W | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> 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: 12/14/15

Printed Name: LACEY GRANILLO

E-mail Address: lacey.granillo@wpxenergy.com

<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: DECEMBER 14, 2015  
Survey Date: SEPTEMBER 3, 2013

Signature and Seal of Professional Surveyor

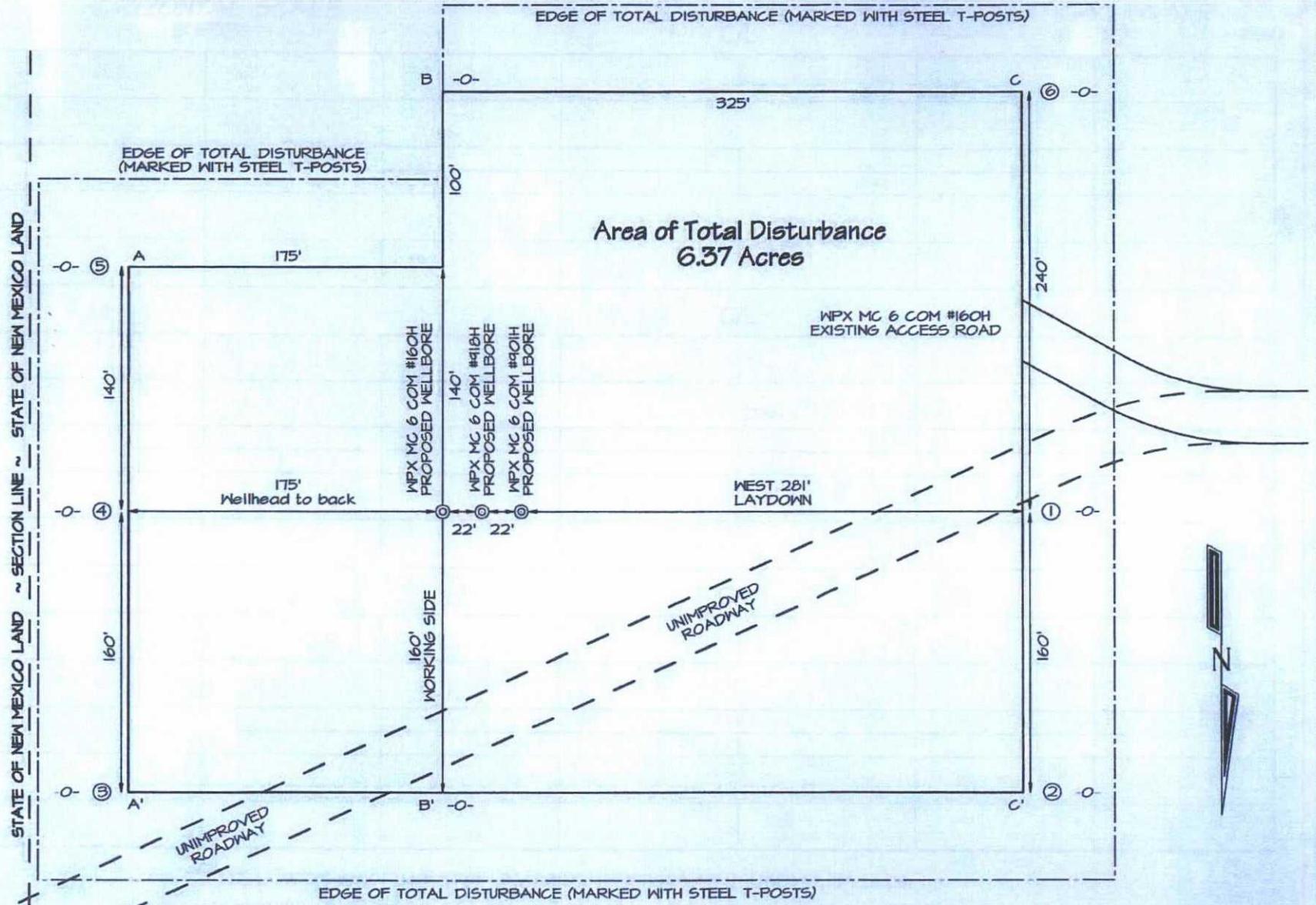


JASON C. EDWARDS

Certificate Number 15269

**WPX ENERGY PRODUCTION, LLC MC 6 COM #160H**  
**1734' FSL & 225' FEL, SECTION 35, T24N, R7W, NMPM**  
**RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6806'**  
**LAT: 36.266009°N LONG: 107.537500°W DATUM: NAD1983**

~ SURFACE OWNER ~  
 Bureau of Land Management



Steel T-Posts have been set to define the Edge of Disturbance limits which are 50' offset from the edge of the staked wellpad.

**WPX ENERGY PRODUCTION, LLC MC 6 COM #160H  
 1734' FSL & 225' FEL, SECTION 35, T24N, R7W, NMPM  
 RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6806'**

HORIZONTAL SCALE  
 1"=55'

VERTICAL SCALE  
 1"=30'

C/L

|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| A-A'  |  |  |  |  |  |  |
| 6816' |  |  |  |  |  |  |
| 6806' |  |  |  |  |  |  |
| 6796' |  |  |  |  |  |  |
|       |  |  |  |  |  |  |

C/L

|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| B-B'  |  |  |  |  |  |  |
| 6816' |  |  |  |  |  |  |
| 6806' |  |  |  |  |  |  |
| 6796' |  |  |  |  |  |  |
|       |  |  |  |  |  |  |

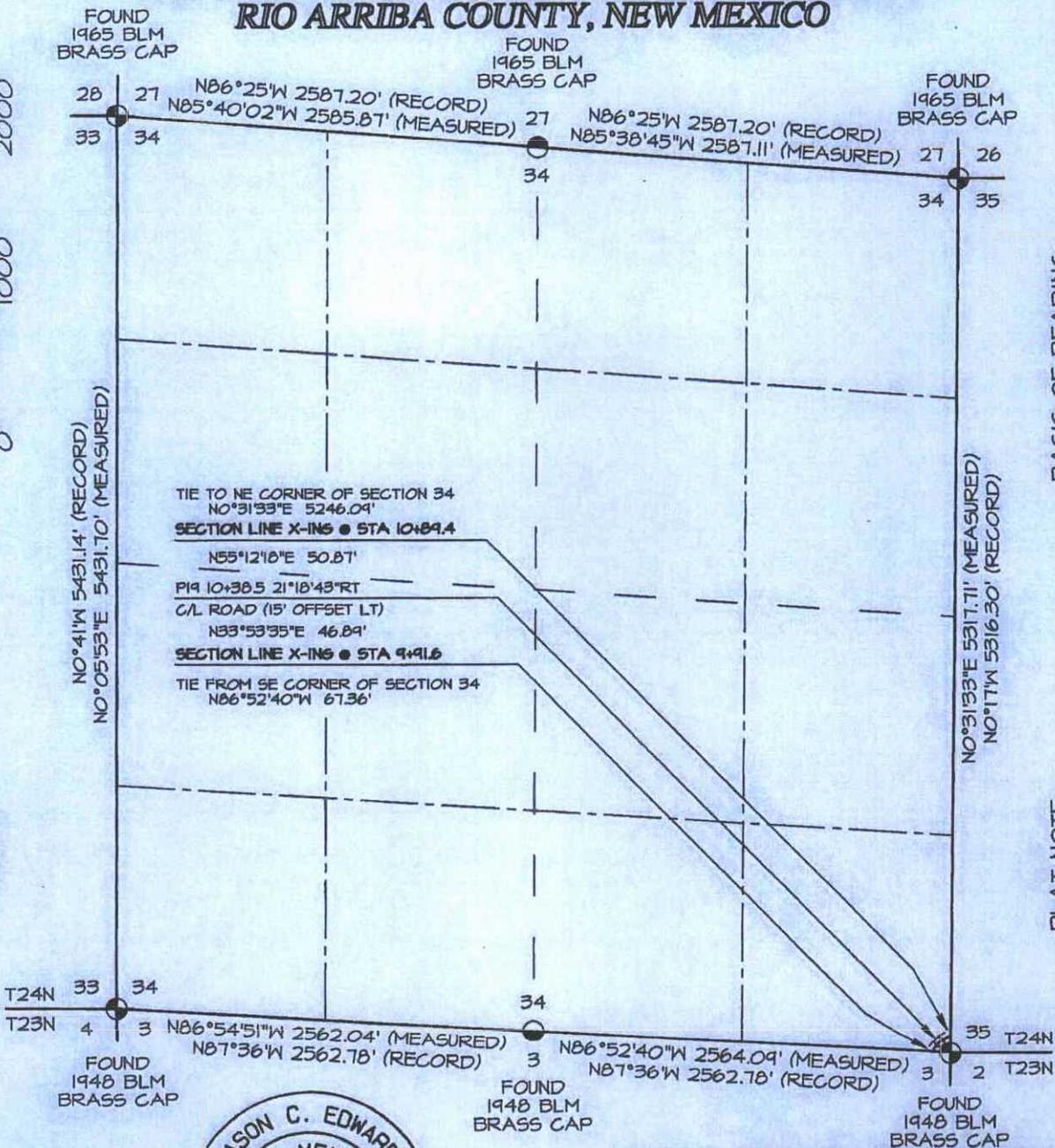
C/L

|       |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
| C-C'  |  |  |  |  |  |  |
| 6816' |  |  |  |  |  |  |
| 6806' |  |  |  |  |  |  |
| 6796' |  |  |  |  |  |  |
|       |  |  |  |  |  |  |

NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

**WPX ENERGY PRODUCTION, LLC MC 6 COM #160H  
PROPOSED PIPELINE SURVEY LOCATED IN THE  
SE/4 SE/4 OF SECTION 34, T24N, R7W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO**



BASIS OF BEARING:

PLAT NOTE:

REAL-TIME KINEMATIC GPS SURVEY SOLUTION OBTAINED FROM SATELLITES TRACKED ON MARCH 13, 2015 FROM A REFERENCE STATION POSITIONED IN NW/4 NW/4 OF SECTION 6, T23N, R6W

BEFORE ANY CONSTRUCTION BEGINS, CONTRACTOR IS ADVISED TO CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED PIPELINES OR CABLES IN THE AREA OF THIS PROJECT



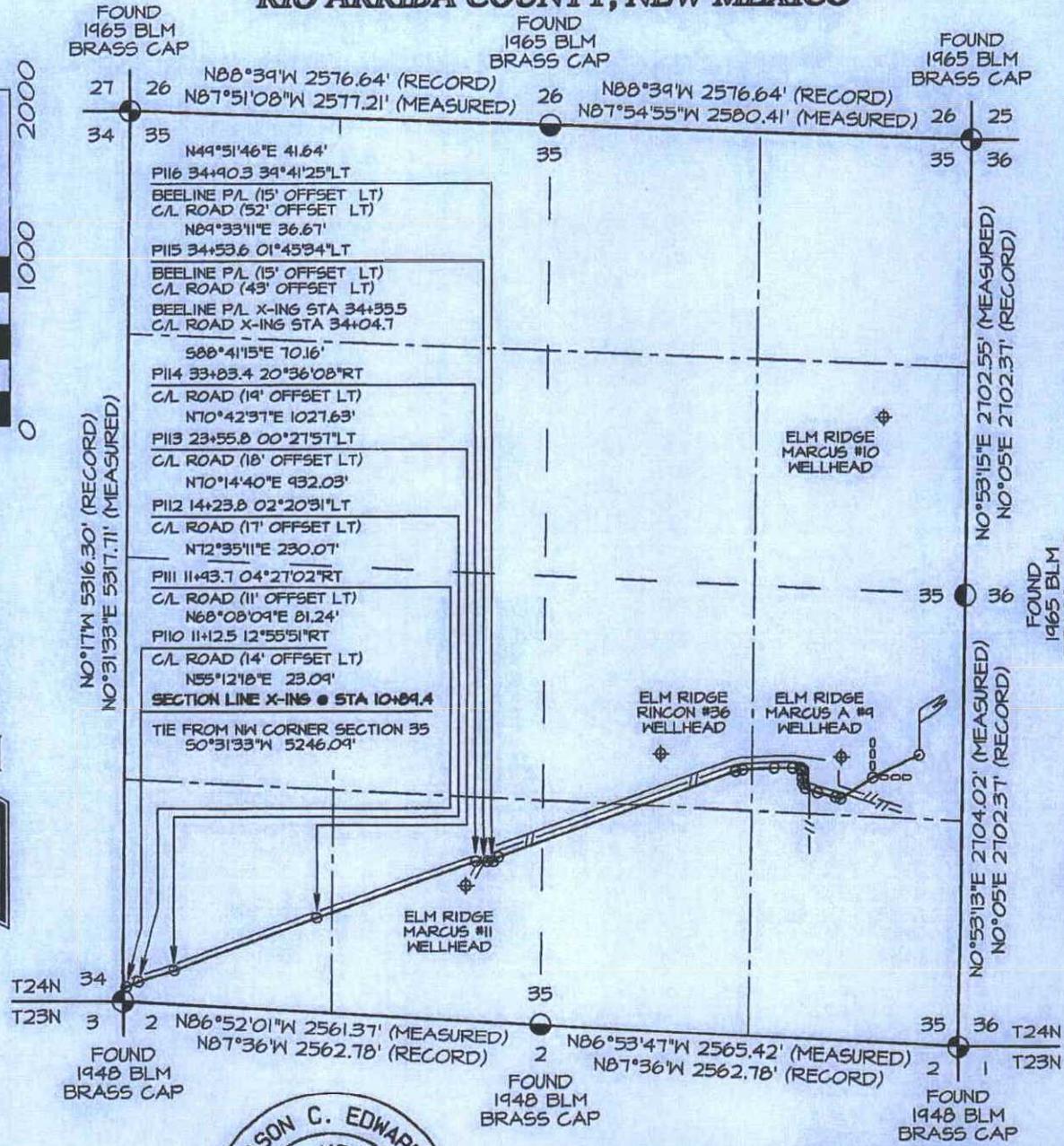
|  |                    |
|--|--------------------|
| ~ SURFACE OWNERSHIP ~<br>Bureau of Land Management |                    |
| 9+91.6 TO 10+89.4                                  | 97.8 FT / 5.9 RODS |

I, Jason C. Edwards, a registered professional surveyor under the laws of the State of New Mexico, hereby certify that this plat was prepared from field notes of an actual survey meeting the minimum requirements of the standards for easement surveys and is true and correct to the best of my knowledge and belief.

**JASON C. EDWARDS** Date: November 19, 2015  
Jason C. Edwards  
New Mexico LS #15269

|  |                      |  |                                     |
|--|----------------------|--|-------------------------------------|
| Prepared for:<br>WPX ENERGY PRODUCTION<br>P.O. BOX #640<br>AZTEC, NM 87410 |                      | <b>Land Surveyor:</b><br>Jason C. Edwards<br><br><b>Mailing Address:</b><br>Post Office Box 6612<br>Farmington, NM 87499<br><br><b>Business Address:</b><br>111 East Pinon Street<br>Farmington, NM 87402<br>(505) 486-1695 (Office)<br>jcesurveys@qwestoffice.net | CHECKED: JCE<br>DRAWN BY: EDO       |
|  | <b>SURVEYS, INC.</b> |  | SHEET 5 OF 10<br>FILENAME: 24T34P62 |

**WPX ENERGY PRODUCTION, LLC MC 6 COM #160H  
PROPOSED PIPELINE SURVEY LOCATED IN THE  
S/2 OF SECTION 35, T24N, R7W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO**



**BASIS OF BEARING:**

REAL-TIME KINEMATIC GPS SURVEY SOLUTION OBTAINED FROM SATELLITES TRACKED ON MARCH 13, 2015 FROM A REFERENCE STATION POSITIONED IN NW/4 NW/4 OF SECTION 6, T23N, R6W

**PLAT NOTE:**

BEFORE ANY CONSTRUCTION BEGINS, CONTRACTOR IS ADVISED TO CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED PIPELINES OR CABLES IN THE AREA OF THIS PROJECT

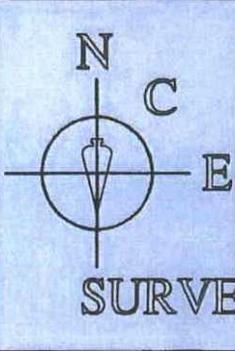


|  |                        |
|--|------------------------|
| ~ SURFACE OWNERSHIP ~<br>Bureau of Land Management |                        |
| 10+89.4 TO 63+63.8                                 | 5274.4 FT / 319.7 RODS |

I, Jason C. Edwards, a registered professional surveyor under the laws of the State of New Mexico, hereby certify that this plat was prepared from field notes of an actual survey meeting the minimum requirements of the standards for easement surveys and is true and correct to the best of my knowledge and belief.

**JASON C. EDWARDS** Date: November 19, 2015  
Jason C. Edwards  
New Mexico LS #15269

Prepared for:  
WPX ENERGY PRODUCTION  
P.O. BOX #640  
AZTEC, NM 87410



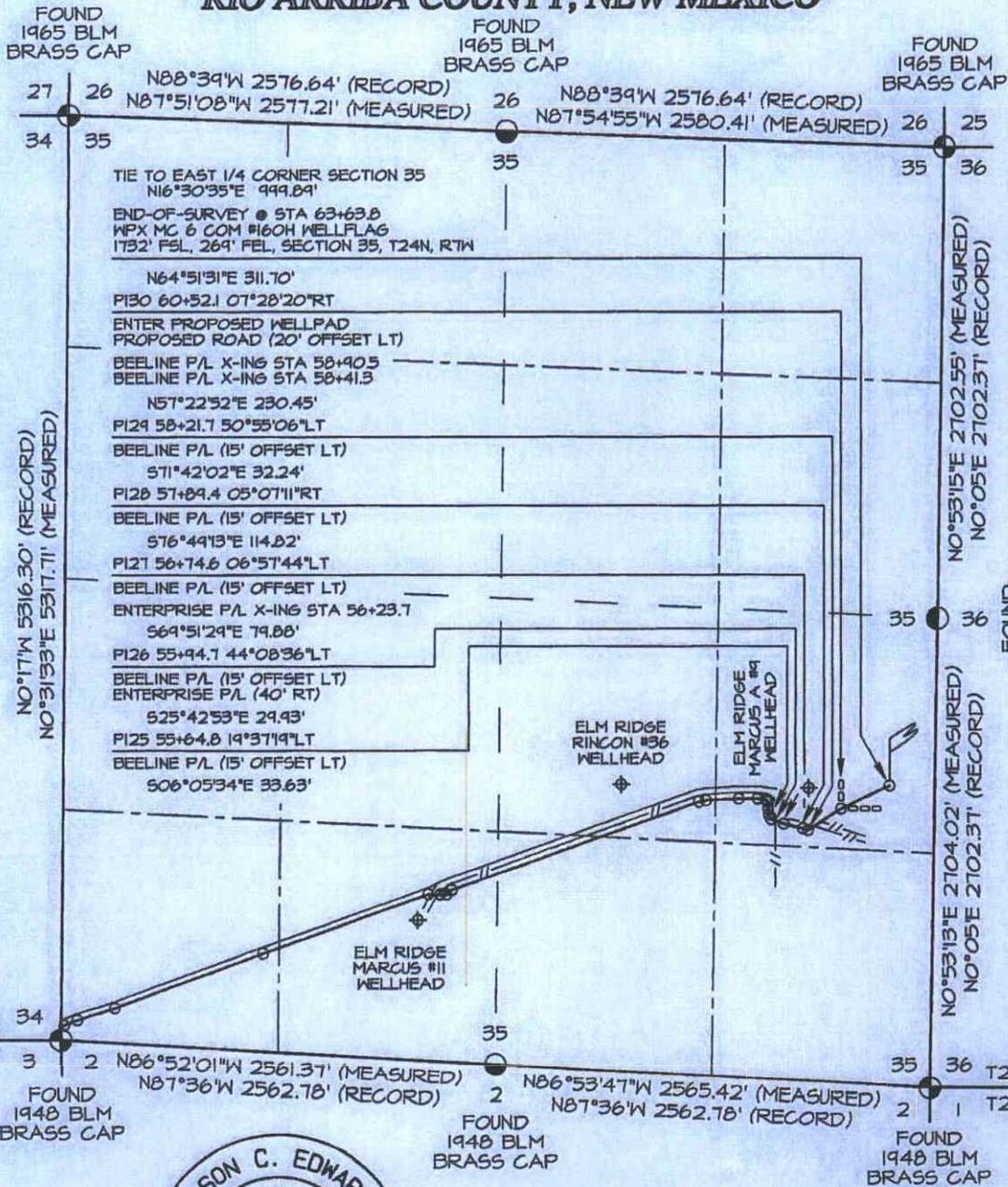
**Land Surveyor:**  
Jason C. Edwards  
**Mailing Address:**  
Post Office Box 6612  
Farmington, NM 87499  
**Business Address:**  
111 East Pinon Street  
Farmington, NM 87402  
(505) 486-1695 (Office)  
jcesurveys@qwestoffice.net

**SURVEYS, INC.**

SHEET 6 OF 10  
FILENAME: 241239P63  
CHECKED: JCE  
DRAWN BY: EDO



**WPX ENERGY PRODUCTION, LLC MC 6 COM #160H  
PROPOSED PIPELINE SURVEY LOCATED IN THE  
S/2 OF SECTION 35, T24N, R7W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO**



BASIS OF BEARING:

REAL-TIME KINEMATIC GPS SURVEY SOLUTION OBTAINED FROM SATELLITES TRACKED ON MARCH 13, 2015 FROM A REFERENCE STATION POSITIONED IN NW4 NW4 OF SECTION 6, T23N, R6W

PLAT NOTE:

BEFORE ANY CONSTRUCTION BEGINS, CONTRACTOR IS ADVISED TO CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED PIPELINES OR CABLES IN THE AREA OF THIS PROJECT

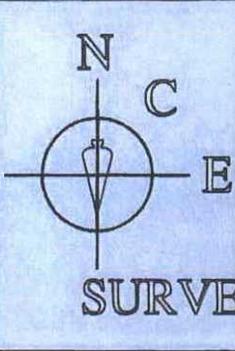


|  |                        |
|--|------------------------|
| ~ SURFACE OWNERSHIP ~<br>Bureau of Land Management |                        |
| 10+89.4 TO 63+63.8                                 | 5274.4 FT / 319.7 RODS |

I, Jason C. Edwards, a registered professional surveyor under the laws of the State of New Mexico, hereby certify that this plat was prepared from field notes of an actual survey meeting the minimum requirements of the standards for easement surveys and is true and correct to the best of my knowledge and belief.

**JASON C. EDWARDS** Date: November 19, 2015  
Jason C. Edwards  
New Mexico LS #15269

Prepared for:  
WPX ENERGY PRODUCTION  
P.O. BOX #640  
AZTEC, NM 87410



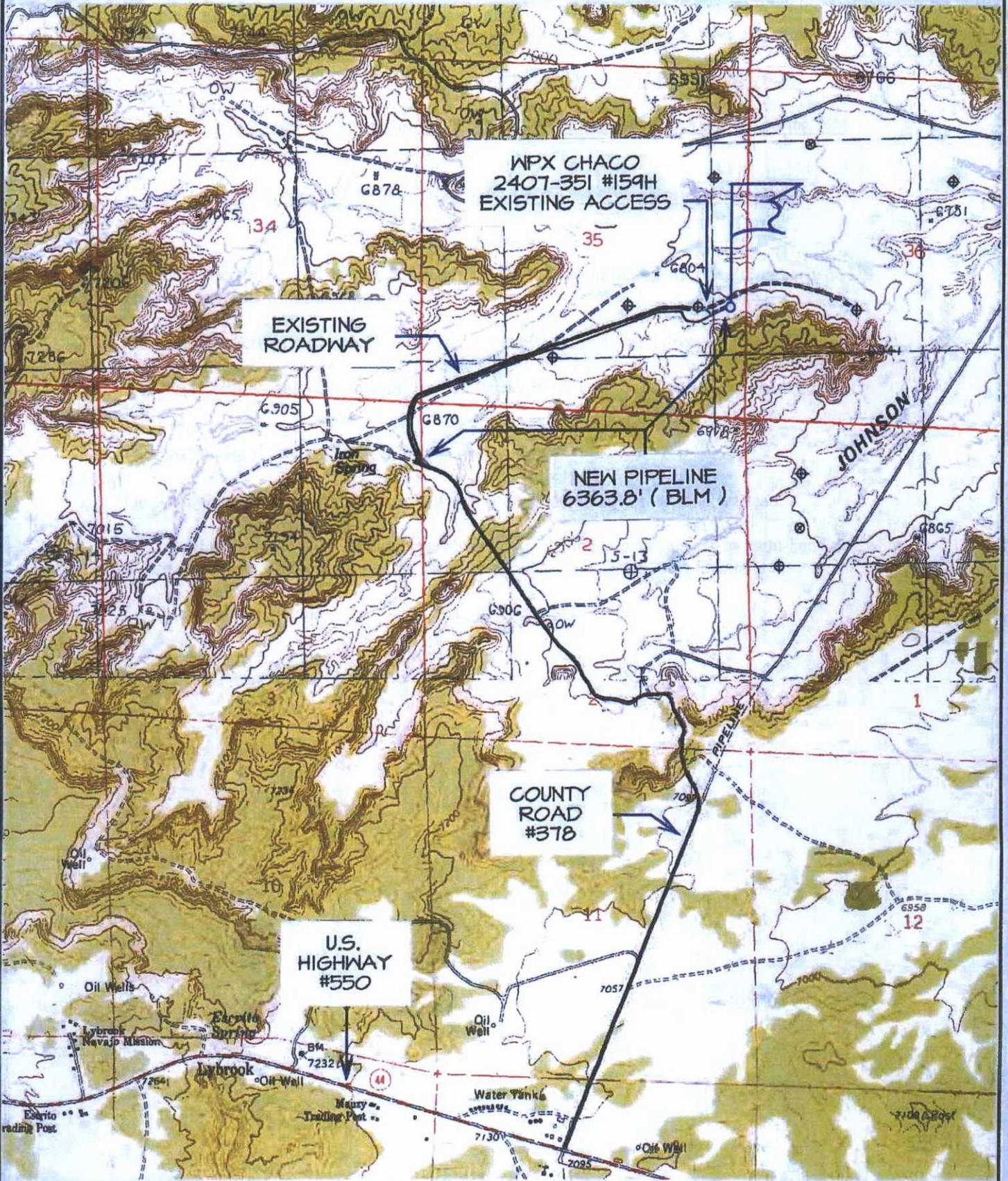
**Land Surveyor:**  
Jason C. Edwards  
**Mailing Address:**  
Post Office Box 6612  
Farmington, NM 87409  
**Business Address:**  
111 East Pinon Street  
Farmington, NM 87402  
(505) 486-1695 (Office)  
jcesurveys@jcesoffice.net

**SURVEYS, INC.**

SHEET 6 OF 10  
FILENAME: 24735965  
CHECKED: JCE  
DRAWN BY: EDO



**WPX ENERGY PRODUCTION, LLC MC 6 COM #160H**  
 1732' FSL & 269' FEL, SECTION 35, T24N, R7W, N.M.P.M.  
 SAN JUAN COUNTY, NEW MEXICO



TOPO NAMES : LYBROOK &  
 CROW MESA EAST

⊕ PRODUCING WELL    ⊗ PLUGGED & ABANDONED WELL

**Directions from the Intersection of US Hwy 550 & US Hwy 64**

**in Bloomfield, NM to WPX Energy Production, LLC MC 6 COM #160H**

**1732' FSL & 269' FEL, Section 35, T24N, R7W, N.M.P.M., Rio Arriba County, NM**

**Latitude: 36.266007°N Longitude: 107.537649°W Datum: NAD1983**

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 48.3 miles to Mile Marker 102.9;

Go Left (Northerly) on County Road #378 for 1.1 miles to fork in roadway:

Go Left (North-westerly) for 0.4 miles down Rocky Berry Hill to fork in roadway at bottom of hill;

Go Left (Westerly) for 1.1 miles to fork in roadway:

Go Right (Northerly) for 1.1 miles to 4-way intersection on edge of existing wellpad;

Go Straight (Easterly) for 0.1 miles through existing wellpad to begin access on right-hand side of existing roadway which continues for 78.0' to staked MC 6 COM #160H location.



### III. MATERIALS

#### A. CASING PROGRAM:

| CASING TYPE  | OH SIZE (IN) | DEPTH (MD)            | CSG SIZE | WEIGHT   | GRADE          | CONN |
|--------------|--------------|-----------------------|----------|----------|----------------|------|
| SURFACE      | 12.25"       | 320.00'               | 9.625"   | 36 LBS   | J-55 or equiv  | STC  |
| INTERMEDIATE | 8.75"        | 6,141.65'             | 7"       | 23 LBS   | J-55 or equiv  | LTC  |
| PRODUCTION   | 6.125"       | 5991.65' - 12,004.62' | 4.5"     | 11.6 LBS | P-110 or equiv | LTC  |
| TIE BACK     | 6.125"       | Surf. - 5991.65'      | 4.5"     | 11.6 LBS | P-110 or equiv | LTC  |

#### B. FLOAT EQUIPMENT:

- SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 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 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. **A DV tool will be placed 100' above the top of the Chacra formation. If cement is circulated back to surface on the first stage, a cancelation device will be dropped to shift the dv tool closed and the 2nd stage cement job will be aborted at that time.**
- 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.

#### 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 STAGE 1: Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 129 bbls, 369 sks, (726 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 85 bbls, 367 sks, (477 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 242 bbl Drilling mud or water.  
Total Cement: 214 bbls, 736 sks, (1203 cuft)  
STAGE 2: Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 60 bbls, 173 sks, (337 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 16 bbls, 78 sks, (90 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 93 bbl Drilling mud or water.  
Total Cement: 76 bbls, 251 sks, (427 cuft)
3. PROD. 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 cuft/sk 13.3 ppg (589 sx /801 cuft /143 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (589 sx /801bbls).

**I.**  
**COMPLETION**

A. **CBL**

Run CCL for perforating

A. **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.

B. **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.

C. **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:**

**Proposed Operations:**

A 4-1/2" 11.6# P-110 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# J-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).

OIL CONS. DIV DIST. 3

DEC 18 2015

## **WPX Energy**

T24N R7W

Chaco 2407-35I

MC 6 COM #160H - Slot A3

Wellbore #1

Plan: Design #3 7Dec15 sam

# **Standard Planning Report**

09 December, 2015

# WPX Planning Report

|           |                      |                              |                                    |
|-----------|----------------------|------------------------------|------------------------------------|
| Database: | COMPASS              | Local Co-ordinate Reference: | Well MC 6 COM #160H (A3) - Slot A3 |
| Company:  | WPX Energy           | TVD Reference:               | KB @ 6831.00usft (Aztec 1000)      |
| Project:  | T24N R7W             | MD Reference:                | KB @ 6831.00usft (Aztec 1000)      |
| Site:     | Chaco 2407-35I       | North Reference:             | True                               |
| Well:     | MC 6 COM #160H       | Survey Calculation Method:   | Minimum Curvature                  |
| Wellbore: | Wellbore #1          |                              |                                    |
| Design:   | Design #3 7Dec15 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:      | 13.200 in         |
|                       |                | Latitude:         | 36.265996         |
|                       |                | Longitude:        | -107.536894       |
|                       |                | Grid Convergence: | 0.18 °            |

|                      |                          |                     |                             |
|----------------------|--------------------------|---------------------|-----------------------------|
| Well                 | MC 6 COM #160H - Slot A3 |                     |                             |
| Well Position        | +N-S                     | 0.00 usft           | Northing: 1,916,198.41 usft |
|                      | +E-W                     | 0.00 usft           | Easting: 587,389.82 usft    |
| Position Uncertainty | 0.00 usft                | Wellhead Elevation: | 0.00 usft                   |
|                      |                          | Latitude:           | 36.265996                   |
|                      |                          | Longitude:          | -107.536894                 |
|                      |                          | Ground Level:       | 6,806.00 usft               |

|           |             |             |                     |
|-----------|-------------|-------------|---------------------|
| Wellbore  | Wellbore #1 |             |                     |
| Magnetics | Model Name  | Sample Date | Declination (°)     |
|           | IGRF2010    | 6/18/2015   | 9.25                |
|           |             |             | Dip Angle (°)       |
|           |             |             | 63.00               |
|           |             |             | Field Strength (nT) |
|           |             |             | 50,094              |

|                   |                            |                |                        |
|-------------------|----------------------------|----------------|------------------------|
| Design            | Design #3 7Dec15 sam       |                |                        |
| Audit Notes:      |                            |                |                        |
| Version:          | Phase:                     | PLAN           | Tie On Depth: 0.00     |
| Vertical Section: | Depth From (TVD)<br>(usft) | +N-S<br>(usft) | +E-W<br>(usft)         |
|                   | 0.00                       | 0.00           | 0.00                   |
|                   |                            |                | Direction<br>(bearing) |
|                   |                            |                | 309.99                 |

| Plan Sections         |                 |                   |                       |             |             |                         |                        |                       |         |                       |  |
|-----------------------|-----------------|-------------------|-----------------------|-------------|-------------|-------------------------|------------------------|-----------------------|---------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target                |  |
| 0.00                  | 0.00            | 0.00              | 0.00                  | 0.00        | 0.00        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                       |  |
| 500.00                | 0.00            | 0.00              | 500.00                | 0.00        | 0.00        | 0.00                    | 0.00                   | 0.00                  | 0.00    |                       |  |
| 1,521.51              | 20.43           | 163.60            | 1,500.00              | -172.87     | 50.88       | 2.00                    | 2.00                   | 0.00                  | 163.60  |                       |  |
| 4,880.73              | 20.43           | 163.60            | 4,647.92              | -1,297.74   | 381.99      | 0.00                    | 0.00                   | 0.00                  | 0.00    |                       |  |
| 5,754.05              | 60.00           | 317.24            | 5,396.73              | -1,140.90   | 127.00      | 9.00                    | 4.53                   | 17.59                 | 156.91  | Start 60 Tan #160H 7I |  |
| 5,814.05              | 60.00           | 317.24            | 5,426.73              | -1,102.75   | 91.72       | 0.00                    | 0.00                   | 0.00                  | 0.00    | End 60 Tan #160H 7C   |  |
| 6,106.04              | 86.27           | 317.24            | 5,510.69              | -899.39     | -96.33      | 9.00                    | 9.00                   | 0.00                  | -0.01   |                       |  |
| 6,141.65              | 89.51           | 317.30            | 5,512.00              | -873.25     | -120.48     | 9.09                    | 9.09                   | 0.19                  | 1.19    | POE #160H 7Dec15 s    |  |
| 12,004.62             | 89.51           | 317.30            | 5,562.00              | 3,435.58    | -4,096.14   | 0.00                    | 0.00                   | 0.00                  | 0.00    | BHL #160H 11Nov15     |  |

**WPX**  
Planning Report

|           |                      |                              |                                    |
|-----------|----------------------|------------------------------|------------------------------------|
| Database: | COMPASS              | Local Co-ordinate Reference: | Well MC 6 COM #160H (A3) - Slot A3 |
| Company:  | WPX Energy           | TVD Reference:               | KB @ 6831.00usft (Aztec 1000)      |
| Project:  | T24N R7W             | MD Reference:                | KB @ 6831.00usft (Aztec 1000)      |
| Site:     | Chaco 2407-351       | North Reference:             | True                               |
| Well:     | MC 6 COM #160H       | Survey Calculation Method:   | Minimum Curvature                  |
| Wellbore: | Wellbore #1          |                              |                                    |
| Design:   | Design #3 7Dec15 sam |                              |                                    |

**Planned Survey**

| Measured Depth (usft)                  | Inclination (°) | Azimuth (bearing) | 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                  |
| 345.00                                 | 0.00            | 0.00              | 345.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>9 5/8"</b>                          |                 |                   |                       |              |              |                         |                         |                        |                       |
| 500.00                                 | 0.00            | 0.00              | 500.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Build 2.00</b>                |                 |                   |                       |              |              |                         |                         |                        |                       |
| 1,000.00                               | 10.00           | 163.60            | 997.47                | -41.75       | 12.29        | -36.25                  | 2.00                    | 2.00                   | 0.00                  |
| 1,500.00                               | 20.00           | 163.60            | 1,479.82              | -165.74      | 48.79        | -143.88                 | 2.00                    | 2.00                   | 0.00                  |
| 1,521.51                               | 20.43           | 163.60            | 1,500.00              | -172.87      | 50.88        | -150.08                 | 2.00                    | 2.00                   | 0.00                  |
| <b>Hold 20.43 Inclination</b>          |                 |                   |                       |              |              |                         |                         |                        |                       |
| 2,000.00                               | 20.43           | 163.60            | 1,948.39              | -333.10      | 98.05        | -289.18                 | 0.00                    | 0.00                   | 0.00                  |
| 2,500.00                               | 20.43           | 163.60            | 2,416.94              | -500.53      | 147.33       | -434.53                 | 0.00                    | 0.00                   | 0.00                  |
| 3,000.00                               | 20.43           | 163.60            | 2,885.49              | -667.96      | 196.62       | -579.89                 | 0.00                    | 0.00                   | 0.00                  |
| 3,500.00                               | 20.43           | 163.60            | 3,354.04              | -835.39      | 245.90       | -725.24                 | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                               | 20.43           | 163.60            | 3,822.59              | -1,002.82    | 295.18       | -870.60                 | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                               | 20.43           | 163.60            | 4,291.14              | -1,170.25    | 344.47       | -1,015.95               | 0.00                    | 0.00                   | 0.00                  |
| 4,880.73                               | 20.43           | 163.60            | 4,647.92              | -1,297.74    | 381.99       | -1,126.64               | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Build DLS 9.00 TFO 156.91</b> |                 |                   |                       |              |              |                         |                         |                        |                       |
| 5,000.00                               | 11.33           | 185.42            | 4,762.61              | -1,329.47    | 386.78       | -1,150.69               | 9.00                    | -7.63                  | 18.30                 |
| 5,500.00                               | 37.54           | 311.46            | 5,230.27              | -1,274.69    | 261.48       | -1,019.48               | 9.00                    | 5.24                   | 25.21                 |
| 5,754.05                               | 60.00           | 317.24            | 5,396.73              | -1,140.90    | 127.00       | -830.47                 | 9.00                    | 8.84                   | 2.28                  |
| <b>Hold 60.00 Inclination</b>          |                 |                   |                       |              |              |                         |                         |                        |                       |
| 5,814.05                               | 60.00           | 317.24            | 5,426.73              | -1,102.75    | 91.72        | -778.93                 | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Build DLS 9.00 TFO -0.01</b>  |                 |                   |                       |              |              |                         |                         |                        |                       |
| 6,000.00                               | 76.73           | 317.24            | 5,495.04              | -976.29      | -25.21       | -608.07                 | 9.00                    | 9.00                   | 0.00                  |
| 6,106.04                               | 86.27           | 317.24            | 5,510.69              | -899.39      | -96.33       | -504.16                 | 9.00                    | 9.00                   | 0.00                  |
| 6,106.54                               | 86.32           | 317.24            | 5,510.72              | -899.02      | -96.68       | -503.66                 | 9.09                    | 9.09                   | 0.19                  |
| <b>Start DLS 9.09 TFO 1.20</b>         |                 |                   |                       |              |              |                         |                         |                        |                       |
| 6,141.65                               | 89.51           | 317.30            | 5,512.00              | -873.25      | -120.48      | -468.86                 | 9.09                    | 9.09                   | 0.19                  |
| <b>POE at 89.51 Inc 317.30 Deg</b>     |                 |                   |                       |              |              |                         |                         |                        |                       |
| 6,142.00                               | 89.51           | 317.30            | 5,512.00              | -872.99      | -120.72      | -468.51                 | 0.00                    | 0.00                   | 0.00                  |
| <b>7"</b>                              |                 |                   |                       |              |              |                         |                         |                        |                       |
| 6,500.00                               | 89.51           | 317.30            | 5,515.06              | -809.89      | -363.48      | -113.44                 | 0.00                    | 0.00                   | 0.00                  |
| 7,000.00                               | 89.51           | 317.30            | 5,519.32              | -242.43      | -702.53      | 382.47                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                               | 89.51           | 317.30            | 5,523.58              | 125.03       | -1,041.57    | 878.39                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                               | 89.51           | 317.30            | 5,527.85              | 492.50       | -1,380.62    | 1,374.30                | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                               | 89.51           | 317.30            | 5,532.11              | 859.96       | -1,719.67    | 1,870.21                | 0.00                    | 0.00                   | 0.00                  |
| 9,000.00                               | 89.51           | 317.30            | 5,536.38              | 1,227.42     | -2,058.72    | 2,366.12                | 0.00                    | 0.00                   | 0.00                  |
| 9,500.00                               | 89.51           | 317.30            | 5,540.64              | 1,594.88     | -2,397.77    | 2,862.03                | 0.00                    | 0.00                   | 0.00                  |
| 10,000.00                              | 89.51           | 317.30            | 5,544.90              | 1,962.34     | -2,736.82    | 3,357.95                | 0.00                    | 0.00                   | 0.00                  |
| 10,500.00                              | 89.51           | 317.30            | 5,549.17              | 2,329.80     | -3,075.87    | 3,853.86                | 0.00                    | 0.00                   | 0.00                  |
| 11,000.00                              | 89.51           | 317.30            | 5,553.43              | 2,697.26     | -3,414.91    | 4,349.77                | 0.00                    | 0.00                   | 0.00                  |
| 11,500.00                              | 89.51           | 317.30            | 5,557.70              | 3,064.73     | -3,753.96    | 4,845.68                | 0.00                    | 0.00                   | 0.00                  |
| 12,000.00                              | 89.51           | 317.30            | 5,561.96              | 3,432.19     | -4,093.01    | 5,341.60                | 0.00                    | 0.00                   | 0.00                  |
| 12,004.62                              | 89.51           | 317.30            | 5,562.00              | 3,435.58     | -4,096.14    | 5,346.18                | 0.00                    | 0.00                   | 0.00                  |
| <b>TD at 12004.62</b>                  |                 |                   |                       |              |              |                         |                         |                        |                       |

**WPX**  
Planning Report

|                  |                      |                                     |                                    |
|------------------|----------------------|-------------------------------------|------------------------------------|
| <b>Database:</b> | COMPASS              | <b>Local Co-ordinate Reference:</b> | Well MC 6 COM #160H (A3) - Slot A3 |
| <b>Company:</b>  | WPX Energy           | <b>TVD Reference:</b>               | KB @ 6831.00usft (Aztec 1000)      |
| <b>Project:</b>  | T24N R7W             | <b>MD Reference:</b>                | KB @ 6831.00usft (Aztec 1000)      |
| <b>Site:</b>     | Chaco 2407-35I       | <b>North Reference:</b>             | True                               |
| <b>Well:</b>     | MC 6 COM #160H       | <b>Survey Calculation Method:</b>   | Minimum Curvature                  |
| <b>Wellbore:</b> | Wellbore #1          |                                     |                                    |
| <b>Design:</b>   | Design #3 7Dec15 sam |                                     |                                    |

| Design Targets   |                  |                       |               |                 |                 |                    |                   |           |             |
|--|------------------|-----------------------|---------------|-----------------|-----------------|--------------------|-------------------|-----------|-------------|
| Target Name<br>- hit/miss target<br>- Shape  | Dip Angle<br>(°) | Dip Dir.<br>(bearing) | TVD<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Northing<br>(usft) | Easting<br>(usft) | Latitude  | Longitude   |
| Start 60 Tan #160H 7De<br>- plan hits target center<br>- Point   | 0.00             | 0.00                  | 5,396.73      | -1,140.90       | 127.00          | 1,915,057.91       | 587,520.31        | 36.262862 | -107.536463 |
| End 60 Tan #160H 7Dec<br>- plan misses target center by 0.39usft at 5813.69usft MD (5426.55 TVD, -1102.98 N, 91.93 E)<br>- Point | 0.00             | 0.00                  | 5,426.73      | -1,103.28       | 91.76           | 1,915,095.42       | 587,484.96        | 36.262965 | -107.536583 |
| POE #160H 7Dec15 sam<br>- plan hits target center<br>- Point   | 0.00             | 0.00                  | 5,512.00      | -873.25         | -120.48         | 1,915,324.80       | 587,272.02        | 36.263597 | -107.537303 |
| BHL #160H 11Nov15 sai<br>- plan hits target center<br>- Point  | 0.00             | 0.00                  | 5,562.00      | 3,435.58        | -4,096.14       | 1,919,621.44       | 583,283.18        | 36.275433 | -107.550791 |

| Casing Points               |                             |        |                            |                          |  |
|-----------------------------|-----------------------------|--------|----------------------------|--------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Name   | Casing<br>Diameter<br>(in) | Hole<br>Diameter<br>(in) |  |
| 345.00                      | 345.00                      | 9 5/8" | 9.625                      | 12.250                   |  |
| 6,142.00                    | 5,512.00                    | 7"     | 7.000                      | 8.750                    |  |

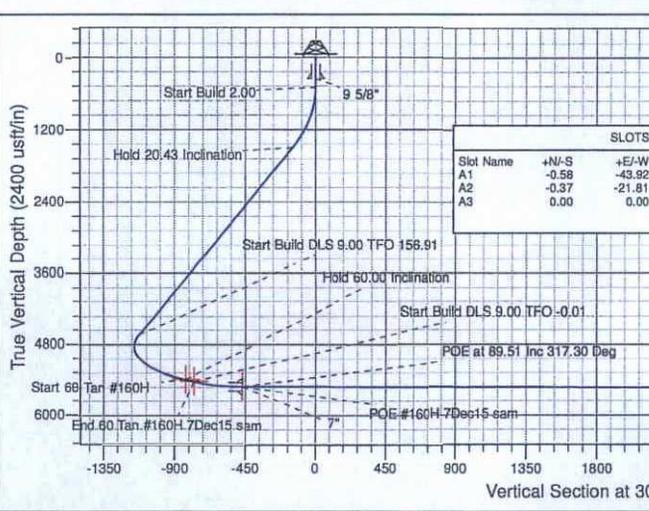
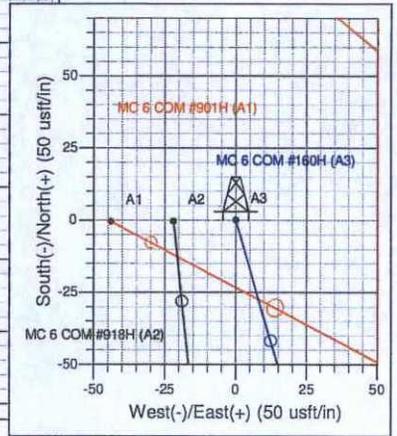
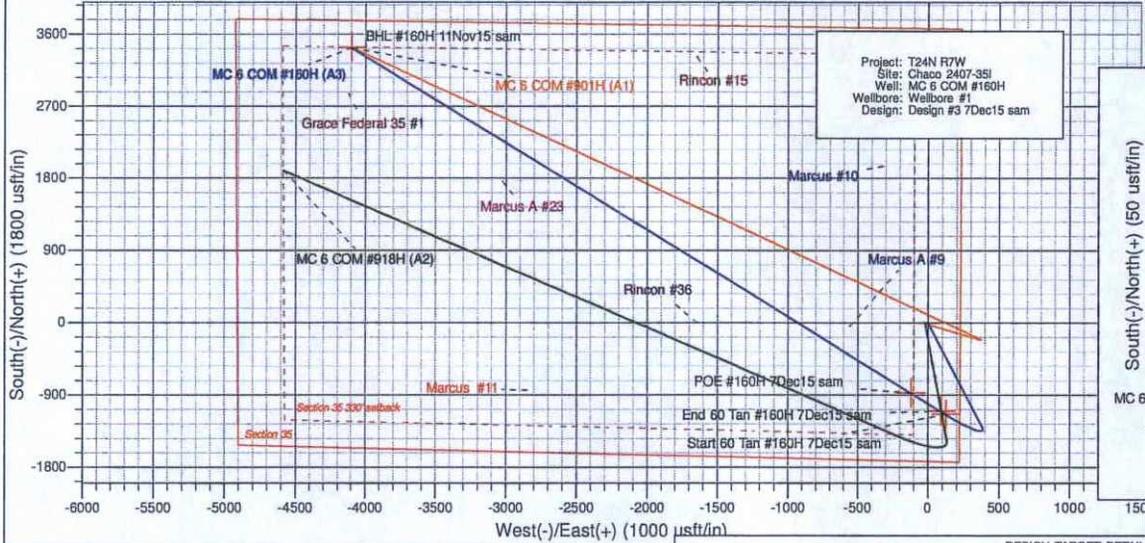
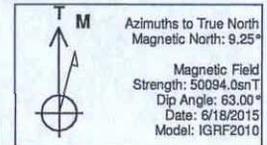
| Plan Annotations            |                             |                   |                 |                                 |  |
|-----------------------------|-----------------------------|-------------------|-----------------|---------------------------------|--|
| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                         |  |
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                 |  |
| 500.00                      | 500.00                      | 0.00              | 0.00            | Start Build 2.00                |  |
| 1,521.51                    | 1,500.00                    | -172.87           | 50.88           | Hold 20.43 Inclination          |  |
| 4,880.73                    | 4,647.92                    | -1,297.74         | 381.99          | Start Build DLS 9.00 TFO 156.91 |  |
| 5,754.05                    | 5,396.73                    | -1,140.90         | 127.00          | Hold 60.00 Inclination          |  |
| 5,814.05                    | 5,426.73                    | -1,102.75         | 91.72           | Start Build DLS 9.00 TFO -0.01  |  |
| 6,106.54                    | 5,510.72                    | -899.02           | -96.68          | Start DLS 9.09 TFO 1.20         |  |
| 6,141.65                    | 5,512.00                    | -873.25           | -120.48         | POE at 89.51 Inc 317.30 Deg     |  |
| 12,004.62                   | 5,562.00                    | 3,435.58          | -4,096.14       | TD at 12004.62                  |  |

OIL CONS. DIV DIST. 3

DEC 18 2015



Well Name: MC 6 COM #160H  
 Surface Location: Chaco 2407-351  
 NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003  
 Ground Elevation: 6806.00  
 +N/-S +E/-W Northing Easting Latitude Longitude Slot  
 0.00 0.00 1916198.41 587389.82 36.265996 -107.536894 A3  
 KB @ 6831.00usft (Aztec 1000)



DESIGN TARGET DETAILS

| Name                          | TVD     | +N/-S    | +E/-W    | Northing   | Easting   | Latitude  | Longitude   | Shape |
|-------------------------------|---------|----------|----------|------------|-----------|-----------|-------------|-------|
| Start 60 Tan #160H 7Dec15 sam | 5396.73 | -1140.90 | 127.00   | 1915057.90 | 587520.31 | 36.262862 | -107.536463 | Point |
| End 60 Tan #160H 7Dec15 sam   | 5426.73 | -1103.28 | 91.76    | 1915095.42 | 587484.96 | 36.262965 | -107.536583 | Point |
| POE #160H 7Dec15 sam          | 5512.00 | -873.25  | -120.48  | 1915324.80 | 587272.01 | 36.263597 | -107.537303 | Point |
| BHL #160H 11Nov15 sam         | 5562.00 | 3435.58  | -4096.14 | 1919621.44 | 583283.18 | 36.275433 | -107.550790 | Point |

SLOTS

| Slot Name | +N/-S | +E/-W  | Northing   | Easting   |
|-----------|-------|--------|------------|-----------|
| A1        | -0.58 | -43.92 | 1916197.70 | 587345.90 |
| A2        | -0.37 | -21.81 | 1916197.98 | 587388.01 |
| A3        | 0.00  | 0.00   | 1916198.41 | 587389.82 |

ANNOTATIONS

| TVD     | MD       | Inc   | Azi    | +N/-S    | +E/-W    | VSect    | Departure | Annotation                      |
|---------|----------|-------|--------|----------|----------|----------|-----------|---------------------------------|
| 500.00  | 500.00   | 0.00  | 0.00   | 0.00     | 0.00     | 0.00     | 0.00      | Start Build 2.00                |
| 1500.00 | 1521.51  | 20.43 | 163.60 | -172.57  | 50.68    | -150.08  | 180.20    | Hold 20.43 Inclination          |
| 4647.92 | 4880.73  | 20.43 | 163.60 | -1297.74 | 381.59   | -1126.64 | 1352.79   | Start Build DLS 9.00 TFO 156.91 |
| 5396.73 | 5754.05  | 60.00 | 317.24 | -1140.90 | 127.00   | -830.47  | 1905.52   | Hold 60.00 Inclination          |
| 5426.73 | 5814.05  | 60.00 | 317.24 | -1102.75 | 91.72    | -778.93  | 1957.49   | Start Build DLS 9.00 TFO -0.01  |
| 5516.72 | 6106.54  | 86.32 | 317.24 | -899.02  | -96.69   | -503.66  | 2234.97   | Start DLS 9.09 TFO 1.20         |
| 5512.00 | 6141.65  | 89.51 | 317.30 | -873.25  | -120.48  | -468.66  | 2270.05   | POE at 69.51 Inc 317.30 Deg     |
| 5562.00 | 12004.62 | 89.51 | 317.30 | 3435.58  | -4096.14 | 5346.18  | 8132.81   | TD at 12004.62                  |