

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 24 2015

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.

5. Lease Serial No. NMSF078534
6. If Indian, Allottee or Tribe Name
7. If Unit of CA/Agreement, Name and/or No. NMNM134944
8. Well Name and No. MC 6 COM #918H
9. API Well No. 30-039-31311
10. Field and Pool or Exploratory Area Lybrook Gallup/Basin Mancos
11. Country or Parish, State 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: 1733' FSL & 247' FEL SEC 35 24N 7W  
BHL: 1880' FNL & 330' 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>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 recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be 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 well name from MC 6 COM #159H to MC COM #918H and change 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

14. I hereby certify that the foregoing is true and correct.  
Name (Printed/Typed)  
Lacey Granillo

Title Permitting Tech III

NOV 30 2015

Signature

Date

11/24/15

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

William Tambekou

Petroleum

Title Engineer

Date 11/25/2015

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)

**ADHERE TO PREVIOUS NMOC  
CONDITIONS OF APPROVAL**

21

19



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

NAME CHANGE/REALIGN LATERAL

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31311		*Pool Code 97232 / 42289		*Pool Name BASIN MANCOS / LYBROOK GALLUP	
*Property Code 315094		*Property Name MC 6 COM			*Well Number 918H
*OGRID No. 120782		*Operator Name WPX ENERGY PRODUCTION, LLC			*Elevation 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		1733	SOUTH	247	EAST	RIO ARriba

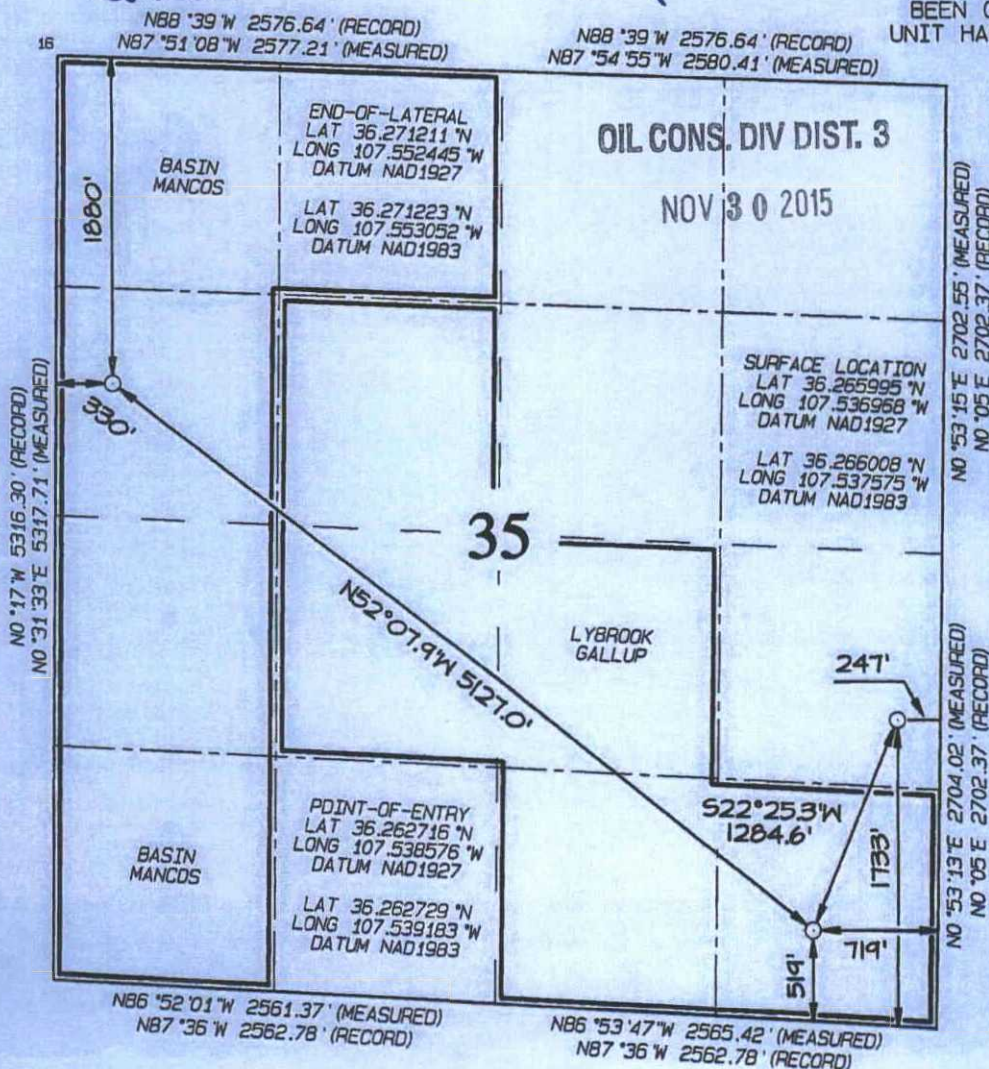
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	35	24N	7W		1880	NORTH	330	WEST	RIO ARriba

*Dedicated Acres 400.0		S/2 SE/4, NW/4 SE/4 W/2 (Except SE/4 SW/4) Section 35, T24N, R7W		*Joint or Infill	*Consolidation Code	*Order No.
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Mancos = 200 acres Gallup = 200 acres

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: 11/24/15  
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: NOVEMBER 19, 2015  
Survey Date: SEPTEMBER 3, 2013

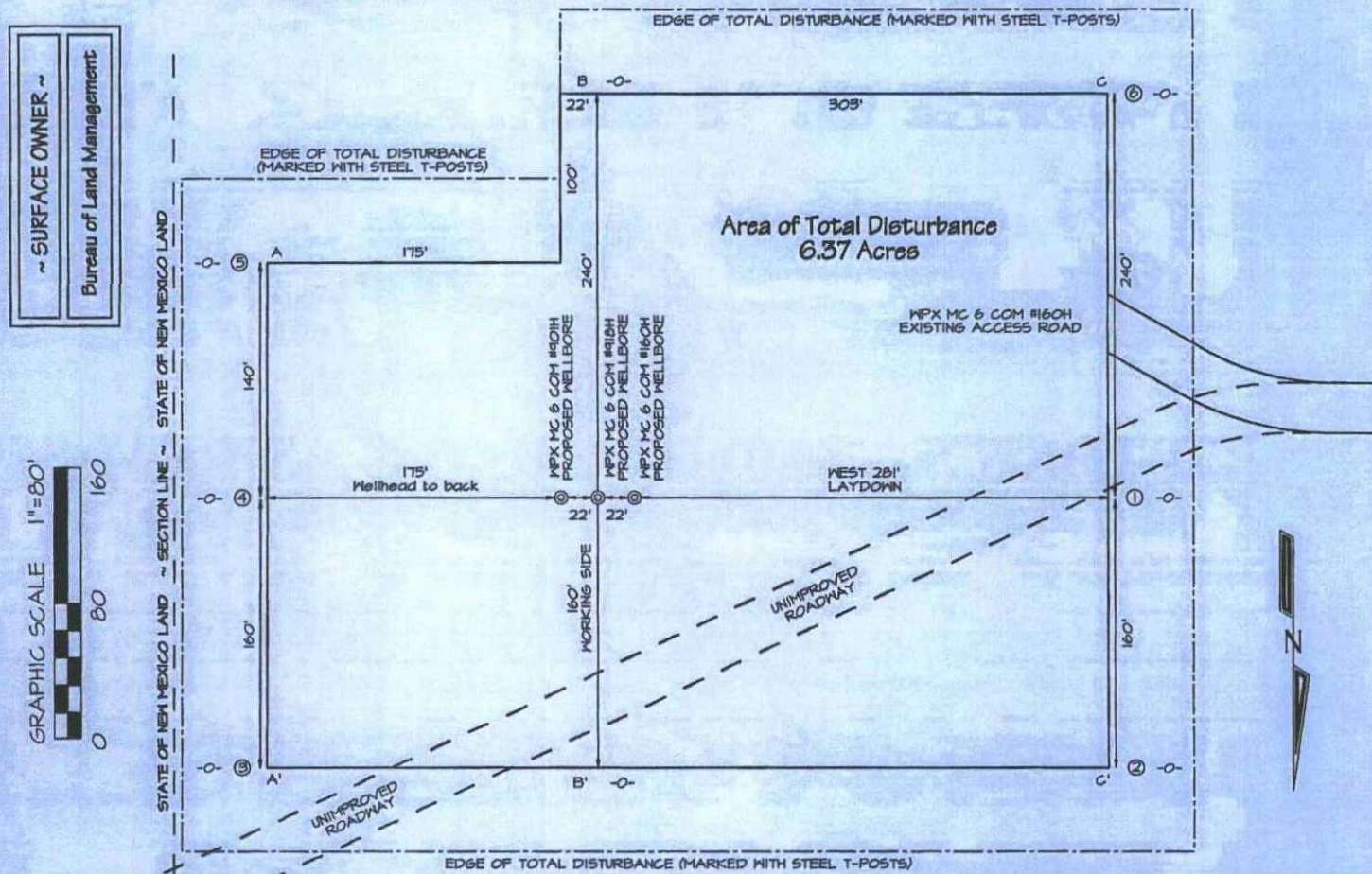
Signature and Seal of Professional Surveyor



JASON C. EDWARDS  
Certificate Number 15269



WPX ENERGY PRODUCTION, LLC MC 6 COM #918H  
1733' FSL & 247' FEL, SECTION 35, T24N, R7W, NMPM  
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6806'  
LAT: 36.266008°N LONG: 107.537575°W DATUM: NAD1983



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 #918H  
1733' FSL & 247' FEL, SECTION 35, T24N, R7W, NMPM  
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6806'**

HORIZONTAL SCALE  
1"=55'

C/L

VERTICAL SCALE  
1"=30'

A-A'							
6816'							
6806'							
6796'							

C/L

B-B'							
6816'							
6806'							
6796'							

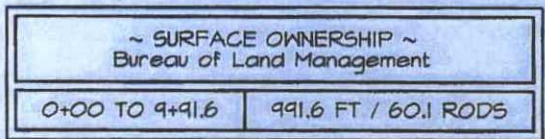
C/L

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.



FOUND  
1948 BLM  
27-125-1-12





**Land Surveyor:**  
Jason C. Edwards

**Mailing Address:**  
Post Office Box 6612  
Farmington, NM 87499

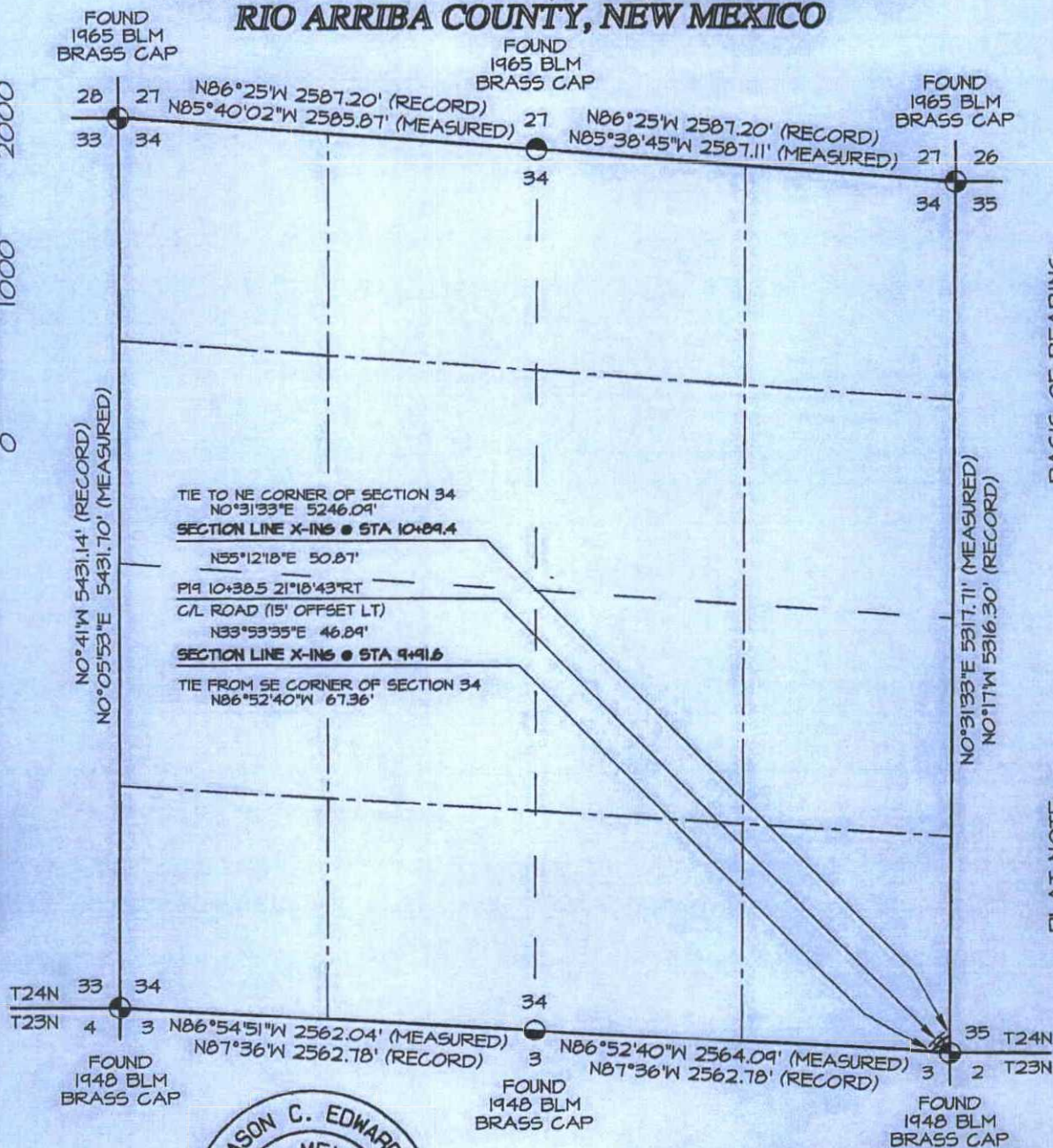
**Business Address:**  
111 East Pinon Street  
Farmington, NM 87402  
(505) 486-1695 (Office)  
ncosurveys@qwestoffice.net

SURVEYS, INC.



**WPX ENERGY PRODUCTION, LLC MC 6 COM #918H  
PROPOSED PIPELINE SURVEY LOCATED IN THE  
SE/4 SE/4 OF SECTION 34, T24N, R7W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO**

GRAPHIC SCALE 1"=1000'



**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 ~ Bureau of Land Management	
9+91.6 TO 10+89.4	97.8 FT / 5.9 RODS

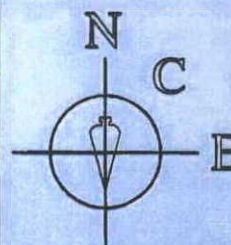
I, Jason C. Edwards, a registered professional surveyor under the laws of the State of New Mexico, hereby certify that this plat was prepared from field notes of an actual survey meeting the minimum requirements of the standards for easement surveys and is true and correct to the best of my knowledge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

**JASON C. EDWARDS** Date: November 19, 2015

Jason C. Edwards  
New Mexico LS #15269

Prepared for:

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



**SURVEYS, INC.**

**Land Surveyor:**  
Jason C. Edwards

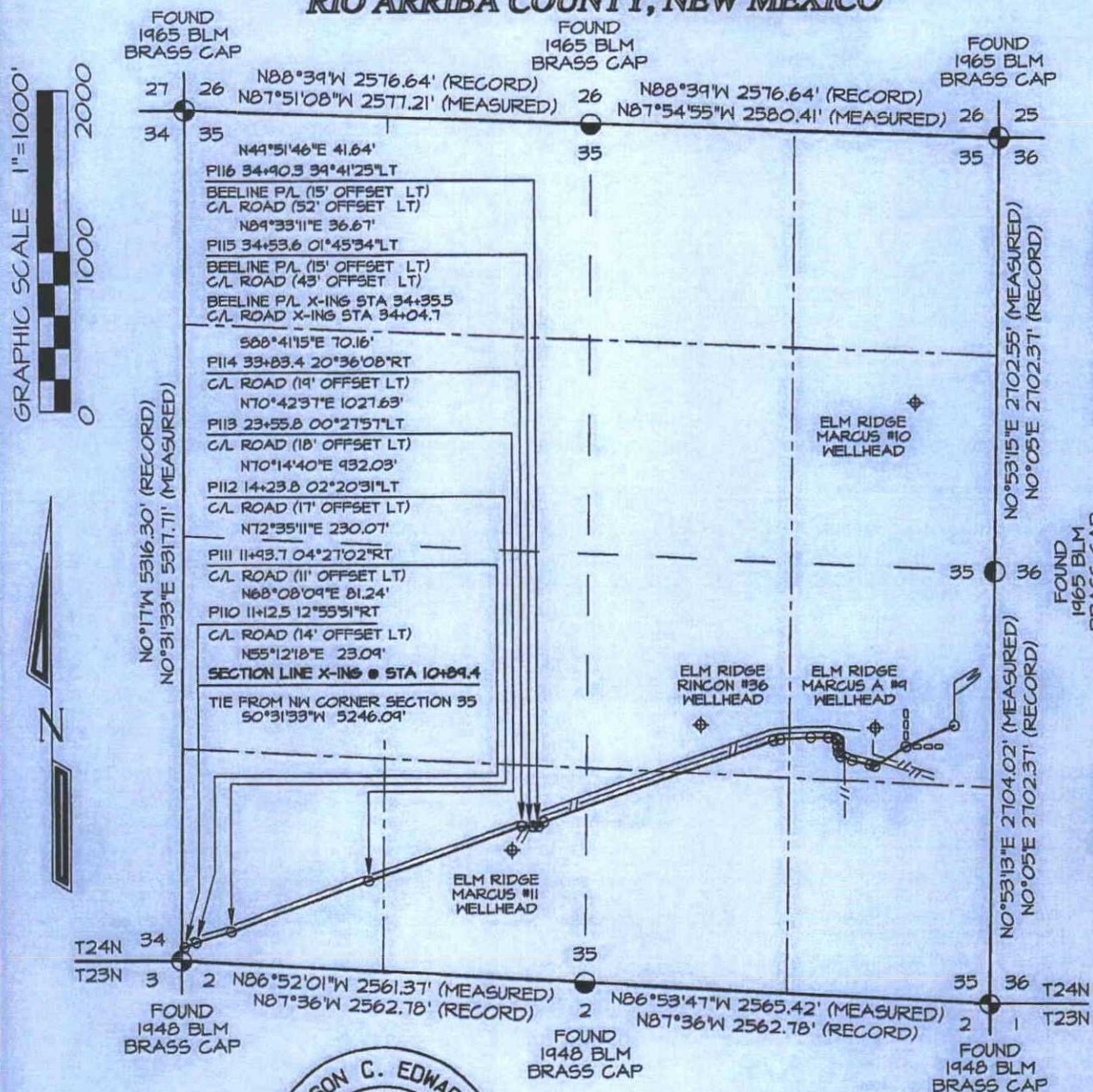
**Mailing Address:**  
Post Office Box 6612  
Farmington, NM 87499

**Business Address:**  
111 East Pinon Street  
Farmington, NM 87402  
(505) 486-1695 (Office)  
jcedwards@qwestoffice.net

SHEET 5 OF 10  
FILENAME: 24734P64  
CHECKED: JCE  
DRAWN BY: EDO



WPX ENERGY PRODUCTION, LLC MC 6 COM #918H  
PROPOSED PIPELINE SURVEY LOCATED IN THE  
S/2 OF SECTION 35, T24N, R7W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO



PLAT NOTE:

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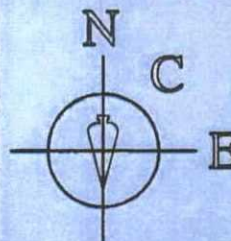
JASON C. EDWARDS Date: November 19, 2015  
Jason C. Edwards  
New Mexico LS #15269

~ SURFACE OWNERSHIP ~  
Bureau of Land Management

10+89.4 TO 63+83.8	5294.4 FT / 320.9 RODS
--------------------	------------------------

Prepared for:

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



**SURVEYS, INC.**

**Land Surveyor:**  
**Jason C. Edwards**

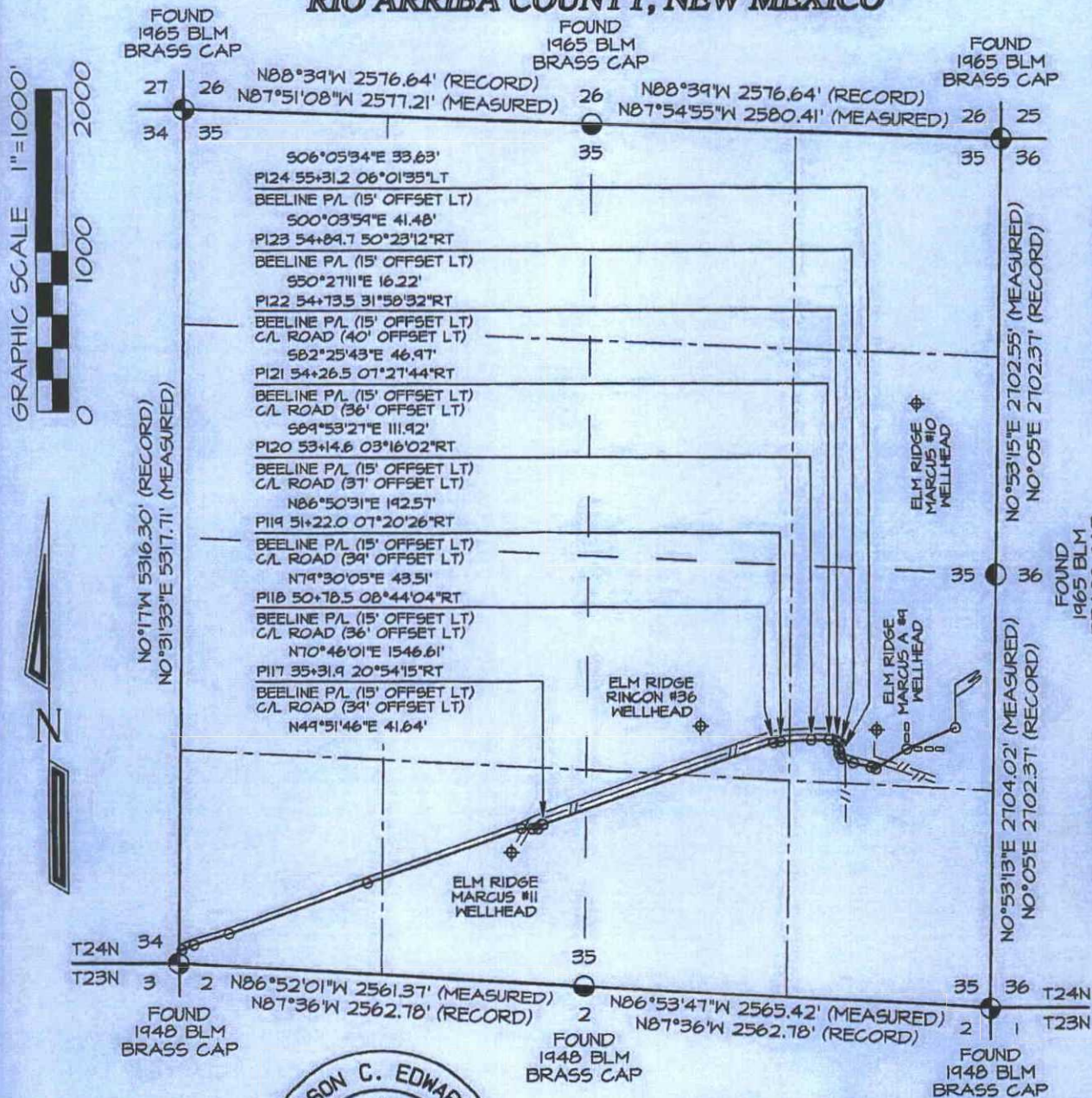
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111 East Pinon Street  
Farmington, NM 87402  
(505) 486-1695 (Office)  
ncoosurveys@qwestoffice.net

SHEET 6 OF 10	CHECKED: JCE
FILE NAME: 24735P65	DRAWN BY: EDO



**WPX ENERGY PRODUCTION, LLC MC 6 COM #918H  
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



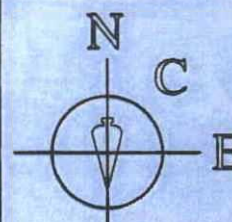
~ SURFACE OWNERSHIP ~ Bureau of Land Management	
10+89.4 TO 63+83.8	5294.4 FT / 320.9 RODS

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**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



**SURVEYS, INC.**

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

SHEET 7 OF 10  
FILENAME: 24T35P66  
CHECKED: JCE  
DRAWN BY: EDO




FOUND  
1965 BLM  
BRASS CAP

FOUND  
1965 BLM  
BRASS CAP

FOUND  
1965 BLM  
BRASS CAP

GRAPHIC SCALE 1"=1000'

A horizontal graphic scale bar with alternating black and white segments. It is marked with '0', '1000', and '2000' at the bottom. Above the bar, the text 'GRAPHIC SCALE 1"=1000\'' is printed.

27 | 26 N88°39'W 2576.64' (RECORD)  
N87°51'08"W 2577.21' (MEASURED)

N88°39'W 2576.64' (RECORD)  
N87°54'55"W 2580.41' 1/4 SEC 1/4

1965 BLM  
BRASS CA  
26 | 25

TIE TO EAST 1/4 CORNER SECTION 35  
N15°17'34"E 993.92'  
END-OF-SURVEY @ STA 63+83.8  
WPX MC 6 COM #918H WELLFLAG  
1733' FSL, 247' FEL, SECTION 35, T24N, R7W

N66°28'58"E 331.72'  
P130 60+52.1 09°06'06"RT  
ENTER PROPOSED WELLPAD  
PROPOSED ROAD (20' OFFSET LT)  
BEELINE P/L X-ING STA 58+90.5 -  
BEELINE P/L X-ING STA 58+41.3

N57°22'52"E 230.45'  
P129 58+21.7 50°55'06"LT  
BEELINE P/L (15' OFFSET LT)  
S71°42'02"E 32.24'  
P128 57+89.4 05°07'11"RT  
BEELINE P/L (15' OFFSET LT)

576°49'13"E 114.82'  
P127 56+74.6 06°57'44"LT  
BEELINE P/L (15' OFFSET LT)  
ENTERPRISE P/L X-ING STA 56+23.7

569°51'29"E 79.88'  
PI26 55+94.7 44°08'36"LT  
BEELINE P/L (15' OFFSET LT)  
ENTERPRISE P/L (40' RT)

525°42'53"E 29.43'  
P125 55+64.8 19°37'19"LT  
BEELINE P/L (15' OFFSET LT)  
506°05'34"E 33.63'

NO°17'W 5316.30' (RECORD)  
NO°31'33"E 5317.71' (MEASURED)

NO°53'15"E	2702.55'	(MEASURED)
NO°05'E	2702.37'	(RECORD)

**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

T24N 34  
T23N 3 2 N86°52'01"W 2561.37' (MEASURED)  
FOUND N87°36'W 2562.78' (RECORD)

NB6°53'47"W 2565.42' (MEASURE  
NAT°36'11" 2565.42'

FOUND  
1948 BLM  
BRASS CAP

2  
FOUND  
1948 BLM  
BRASS CAP

ED) 2 | 1  
FOUND  
1948 BLM  
BRASS CAP

~ SURFACE OWNERSHIP ~  
Bureau of Land Management

10+89.4 TO 63+83.8	5294.4 FT / 320.9 RODS
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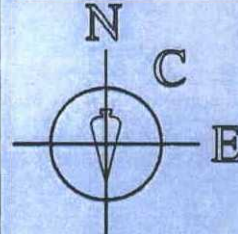
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JASON C. EDWARDS Date: November 19, 2015

Jason C. Edwards  
New Mexico LS #15269

Prepared for:

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



# SURVEYS, INC.

**Land Surveyor:**  
**Jason C. Edwards**

**Mailing Address:**  
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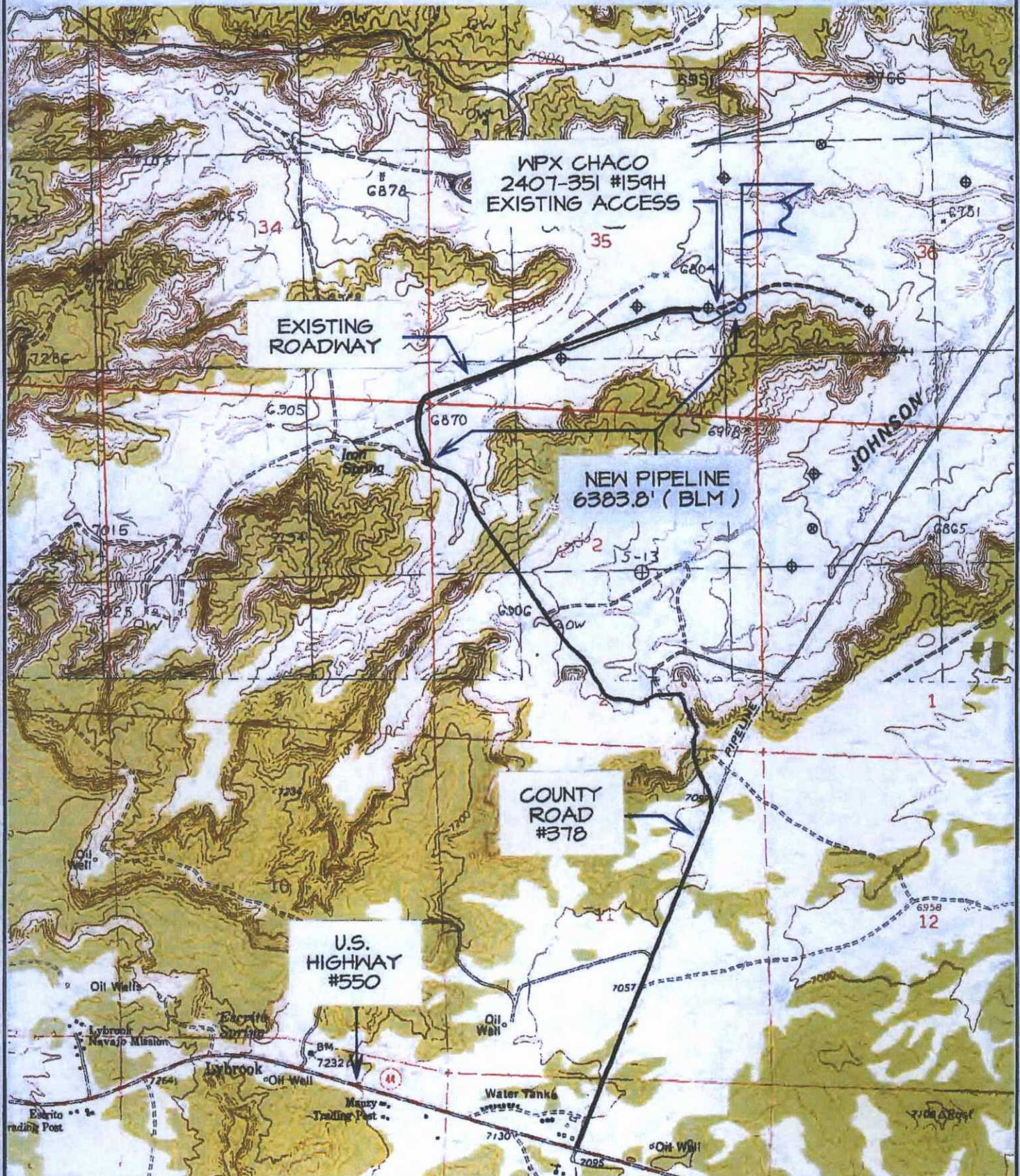
**Business Address:**  
111 East Pinon Street  
Farmington, NM 87402  
(505) 486-1695 (Office)  
notsurveys@qwestoffice.net

SHEET 8 OF 10	CHECKED: JCE
FILENAME: 24735PG7	DRAWN BY: EDO



# WPX ENERGY PRODUCTION, LLC MC 6 COM #918H

1733' FSL & 247' FEL, SECTION 35, T24N, RTW, N.M.P.M.  
RIO ARriba 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 #918H**

**1733' FSL & 247' FEL, Section 35, T24N, R7W, N.M.P.M., Rio Arriba County, NM**

**Latitude: 36.266008°N Longitude: 107.537575°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 #918H location.





## **WPX Energy**

### **Operations Plan**

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

<b>Date:</b>	<b>November 17, 2015</b>	<b>Field:</b>	<b>Basin Mancos / Lybrook Gallup</b>
<b>Well Name:</b>	<b>MC 6 COM #918H</b>	<b>Surface:</b>	<b>BLM</b>
<b>SH Location:</b>	<b>NESE Sec 35-24N-07W</b>	<b>Elevation:</b>	<b>6806' GR</b>
<b>BH Location:</b>	<b>SWNW Sec 35-24N-07W</b>	<b>Minerals:</b>	<b>FED</b>

**Measured Depth:** 11,124.47'

**I. GEOLOGY:** SURFACE FORMATION - NACIMIENTO/ SAN JOSE

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

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	1049	1049	POINT LOOKOUT	4167	4167
KIRTLAND	1356	1356	MANCOS	4426	4426
PICTURED CLIFFS	2030	2030	GALLUP	4836	4836
LEWIS	2102	2102	KICKOFF POINT	5,607.00	5,161.52
CHACRA	2359	2359	TOP TARGET	5271	5227
CLIFF HOUSE	3451	3451	LANDING POINT	5,998.20	5,276.81
MENELEE	3503	3503	BASE TARGET	5,998.20	5,276.81
			TD	11,124.47	5,294.00

**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:

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"	5,998.20'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5848.2' - 11,124.47'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf. - 5848.2'	4.5"	11.6 LBS	P-110 or equiv	LTC

#### 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 2,500 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.

#### 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. 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 (517 sx /703 cuft /125 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (517 sx /703bbls).



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).





# **WPX Energy**

**T24N R7W**

**Chaco 2407-35I**

**MC 6 COM #918H - Slot A2**

**Wellbore #1**

**Plan: Design #1 11Nov15 sam**

## **Standard Planning Report**

**12 November, 2015**



**WPX**  
Planning Report

**OIL CONS. DIV DIST. 3**

**NOV 30 2015**

Database:	COMPASS	Local Co-ordinate Reference:	Well MC 6 COM #918H (A2) - Slot A2
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 #918H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 11Nov15 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:		Easting:		587,389.82 usft	
Position Uncertainty:		Slot Radius:		Grid Convergence:	
Lat/Long		0.00 usft		13.200 in	
				36.265996	
				-107.536894	
				0.18 °	

Well	MC 6 COM #918H - Slot A2					
Well Position	+N/-S	-0.36 usft	Northing:	1,916,197.98 usft	Latitude:	36.265995
	+E/-W	-21.82 usft	Easting:	587,388.01 usft	Longitude:	-107.536968
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,806.00 usft

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

Design	Design #1 11Nov15 sam			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)
	0.00	0.00	0.00	292.60

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	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,837.96	24.76	174.04	1,799.79	-261.92	27.36	2.00	2.00	0.00	174.04	
4,739.32	24.76	174.04	4,434.44	-1,470.45	153.59	0.00	0.00	0.00	0.00	
5,607.00	60.00	307.11	5,161.52	-1,415.75	-180.58	9.00	4.06	15.34	139.72	Start 60 tan #918H 11
5,667.00	60.00	307.11	5,191.52	-1,384.40	-222.02	0.00	0.00	0.00	0.00	End 60 tan #918H 11I
5,829.55	74.63	307.11	5,254.04	-1,294.16	-341.31	9.00	9.00	0.00	0.00	
5,998.20	89.81	307.11	5,276.81	-1,193.65	-474.18	9.00	9.00	0.00	0.00	POE #918H
11,124.47	89.81	307.11	5,294.00	1,898.96	-4,562.47	0.00	0.00	0.00	0.00	BHL #918H



**WPX**  
Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well MC 6 COM #918H (A2) - Slot A2
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 #918H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1 11Nov15 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
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Start Build 2.00</b>									
1,000.00	8.00	174.04	998.70	-27.73	2.90	-13.33	2.00	2.00	0.00
1,500.00	18.00	174.04	1,485.27	-139.45	14.57	-67.03	2.00	2.00	0.00
1,837.96	24.76	174.04	1,799.79	-261.92	27.36	-125.90	2.00	2.00	0.00
<b>Hold 24.76 Inclination</b>									
2,000.00	24.76	174.04	1,946.93	-329.41	34.41	-158.35	0.00	0.00	0.00
2,500.00	24.76	174.04	2,400.97	-537.68	56.16	-258.46	0.00	0.00	0.00
3,000.00	24.76	174.04	2,855.01	-745.95	77.92	-358.57	0.00	0.00	0.00
3,500.00	24.76	174.04	3,309.05	-954.22	99.67	-458.69	0.00	0.00	0.00
4,000.00	24.76	174.04	3,763.09	-1,162.49	121.42	-558.80	0.00	0.00	0.00
4,500.00	24.76	174.04	4,217.12	-1,370.76	143.18	-658.91	0.00	0.00	0.00
4,739.32	24.76	174.04	4,434.44	-1,470.45	153.59	-706.83	0.00	0.00	0.00
<b>Start Build DLS 9.00 TFO 139.72</b>									
5,000.00	16.22	241.20	4,681.42	-1,543.30	126.98	-710.26	9.00	-3.28	25.77
5,500.00	50.91	303.24	5,100.89	-1,466.58	-108.73	-463.16	9.00	6.94	12.41
5,607.00	60.00	307.11	5,161.52	-1,415.75	-180.58	-377.30	9.00	8.50	3.61
<b>Hold 60.00 Inclination</b>									
5,667.00	60.00	307.11	5,191.52	-1,384.40	-222.02	-326.99	0.00	0.00	0.00
<b>Start Build DLS 9.00 TFO 0.00</b>									
5,829.55	74.63	307.11	5,254.04	-1,294.16	-341.31	-182.19	9.00	9.00	0.00
<b>Start DLS 9.00 TFO 0.00</b>									
5,998.00	89.79	307.11	5,276.81	-1,193.77	-474.02	-21.09	9.00	9.00	0.00
<b>7"</b>									
5,998.20	89.81	307.11	5,276.81	-1,193.65	-474.18	-20.90	9.00	9.00	0.00
<b>POE at 89.81 Inc 307.11 Deg</b>									
6,000.00	89.81	307.11	5,276.82	-1,192.57	-475.61	-19.16	0.00	0.00	0.00
6,500.00	89.81	307.11	5,278.49	-890.92	-874.37	464.90	0.00	0.00	0.00
7,000.00	89.81	307.11	5,280.17	-589.28	-1,273.13	948.95	0.00	0.00	0.00
7,500.00	89.81	307.11	5,281.85	-287.63	-1,671.89	1,433.00	0.00	0.00	0.00
8,000.00	89.81	307.11	5,283.52	14.01	-2,070.65	1,917.06	0.00	0.00	0.00
8,500.00	89.81	307.11	5,285.20	315.65	-2,469.41	2,401.11	0.00	0.00	0.00
9,000.00	89.81	307.11	5,286.88	617.30	-2,868.17	2,885.16	0.00	0.00	0.00
9,500.00	89.81	307.11	5,288.55	918.94	-3,266.92	3,369.22	0.00	0.00	0.00
10,000.00	89.81	307.11	5,290.23	1,220.58	-3,665.68	3,853.27	0.00	0.00	0.00
10,500.00	89.81	307.11	5,291.91	1,522.23	-4,064.44	4,337.32	0.00	0.00	0.00
11,000.00	89.81	307.11	5,293.58	1,823.87	-4,463.20	4,821.38	0.00	0.00	0.00
11,124.47	89.81	307.11	5,294.00	1,898.96	-4,562.47	4,941.88	0.00	0.00	0.00
<b>TD at 11124.47</b>									



# WPX Planning Report

Database: COMPASS  
Company: WPX Energy  
Project: T24N R7W  
Site: Chaco 2407-35I  
Well: MC 6 COM #918H  
Wellbore: Wellbore #1  
Design: Design #1 11Nov15 sam

Local Co-ordinate Reference: Well MC 6 COM #918H (A2) - Slot A2  
TVD Reference: KB @ 6831.00usft (Aztec 1000)  
MD Reference: KB @ 6831.00usft (Aztec 1000)  
North Reference: True  
Survey Calculation Method: Minimum Curvature

## Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 tan #918H 11Nc - plan hits target center - Point	0.00	0.00	5,161.52	-1,415.75	-180.58	1,914,781.68	587,191.76	36.262106	-107.537581
End 60 tan #918H 11No - plan hits target center - Point	0.00	0.00	5,191.52	-1,384.40	-222.02	1,914,812.91	587,150.23	36.262192	-107.537721
POE #918H - plan hits target center - Point	0.00	0.00	5,276.81	-1,193.65	-474.18	1,915,002.88	586,897.49	36.262716	-107.538577
BHL #918H - plan hits target center - Point	0.00	0.00	5,294.00	1,898.96	-4,562.47	1,918,082.97	582,799.75	36.271211	-107.552446

## Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
345.00	345.00	9 5/8"	9.625	12.250
5,998.00	5,276.81	7"	7.000	8.750

## Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.00	600.00	0.00	0.00	Start Build 2.00
1,837.96	1,799.79	-261.92	27.36	Hold 24.76 Inclination
4,739.32	4,434.44	-1,470.45	153.59	Start Build DLS 9.00 TFO 139.72
5,607.00	5,161.52	-1,415.75	-180.58	Hold 60.00 Inclination
5,667.00	5,191.52	-1,384.40	-222.02	Start Build DLS 9.00 TFO 0.00
5,829.55	5,254.04	-1,294.16	-341.31	Start DLS 9.00 TFO 0.00
5,998.20	5,276.81	-1,193.65	-474.18	POE at 89.81 Inc 307.11 Deg
11,124.47	5,294.00	1,898.96	-4,562.47	TD at 11124.47

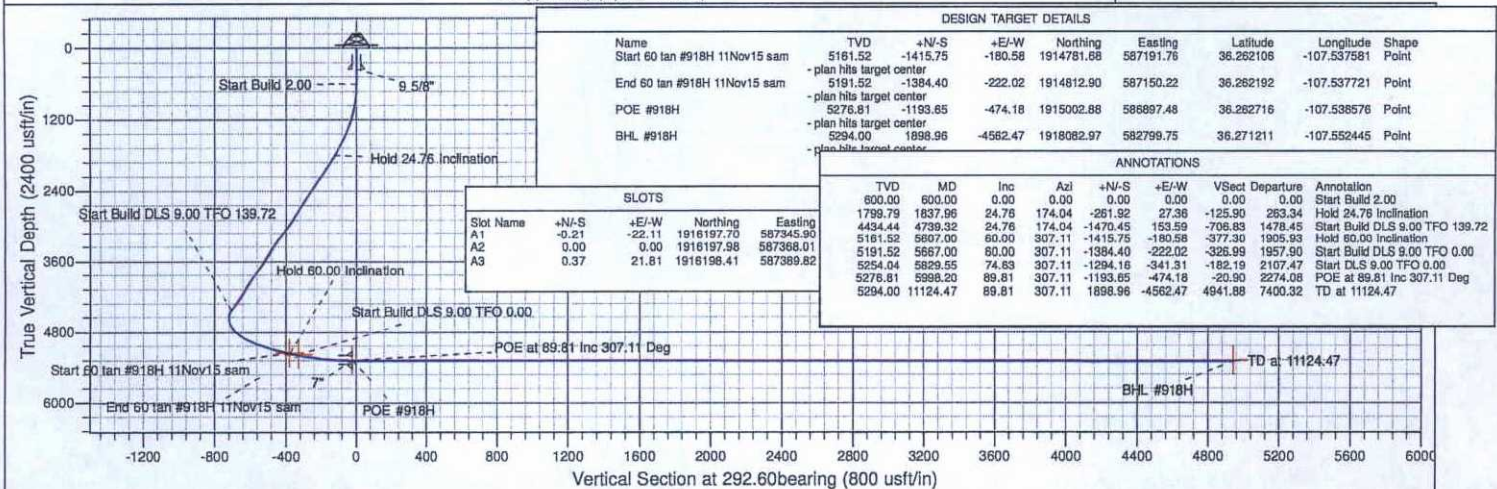
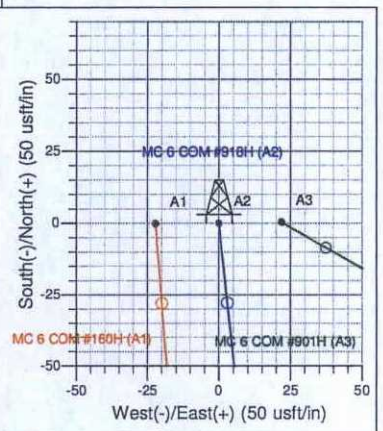
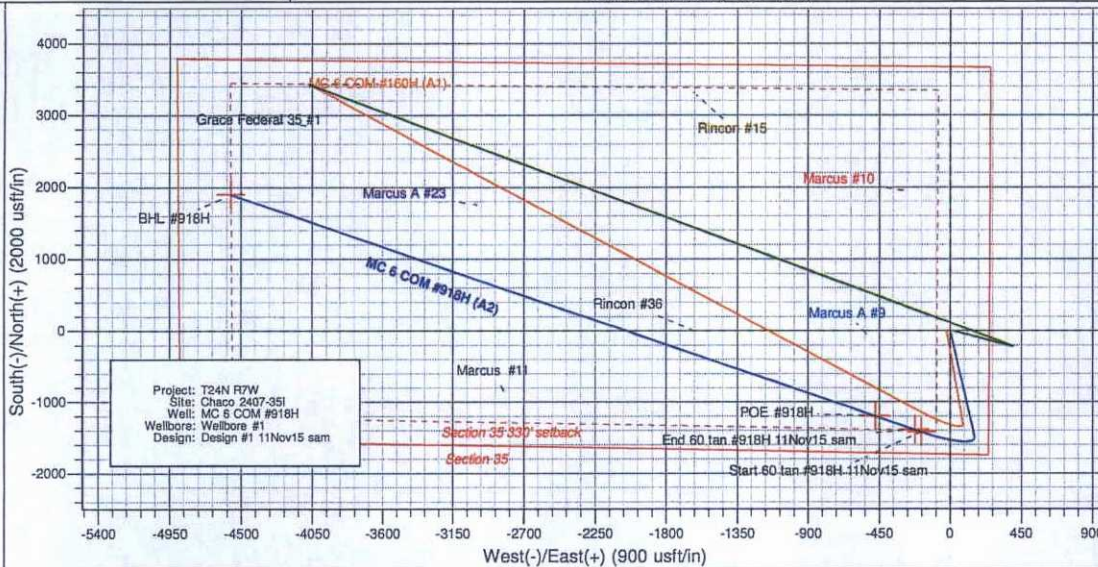
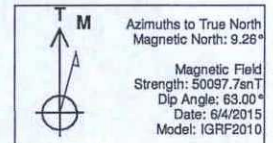


# OIL CONS. DIV DIST. 3

NOV 30 2015



Well Name: MC 6 COM #918H  
 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 1916197.98 587368.01 36.265995 -107.536968 A2  
 KB @ 6831.00usft (Aztec 1000)



DESIGN TARGET DETAILS									
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape	
Start 60 tan #918H 11Nov15 sam	5161.52	-1415.75	-180.58	1914781.88	587191.76	36.262106	-107.537581	Point	
End 60 tan #918H 11Nov15 sam	5191.52	-1384.40	-222.02	1914812.90	587150.22	36.262192	-107.537721	Point	
POE #918H	5276.81	-1193.65	-474.18	1915002.88	586897.48	36.262716	-107.538576	Point	
BHL #918H	5294.00	1898.96	-4562.47	1918082.97	582799.75	36.271211	-107.552445	Point	
ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation	
600.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00	
1789.79	1837.96	24.76	174.04	-261.92	27.36	-125.90	253.34	Hold 24.76 inclination	
4494.44	4739.32	24.76	174.04	-1470.45	155.59	-706.83	1478.45	Start Build DLS 9.00 TFO 139.72	
5161.52	5607.00	60.00	307.11	-1415.75	-180.58	-377.30	1905.93	Hold 60.00 inclination	
5191.52	5667.00	60.00	307.11	-1384.40	-222.02	-326.99	1957.90	Start Build DLS 9.00 TFO 0.00	
5254.04	5829.55	74.83	307.11	-1294.16	-341.31	-182.19	2107.47	Start DLS 9.00 TFO 0.00	
5276.81	5998.20	89.81	307.11	-1193.65	-474.18	-20.90	2274.08	POE at 89.81 Inc 307.11 Deg	
5294.00	11124.47	89.81	307.11	1898.96	-4562.47	4941.88	7400.32	TD at 11124.47	