

RECEIVED

DEC 14 2015

Form 3160-5
(February 2005)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFairmont 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.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. NMSF078534
2. Name of Operator WPX Energy Production, LLC		6. If Indian, Allottee or Tribe Name
3a. Address PO Box 640 Aztec, NM 87410	3b. Phone No. (include area code) 505-333-1816	7. If Unit of CA/Agreement, Name and/or No. NMNM134944
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL: 1734' FSL & 225' FEL SEC 35 24N 7W BHL: 330' FNL & 825' FWL SEC 35 24N 7W		8. Well Name and No. MC 6 Com #160H
		9. API Well No. 30-039-31312
		10. Field and Pool or Exploratory Area Lybrook Gallup/Basin Mancos
		11. Country or Parish, State 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 RECORD CLEANUP AND REALIGN LATERAL
	<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	

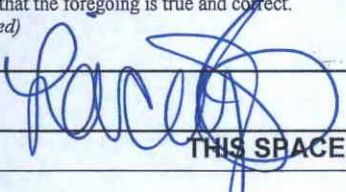
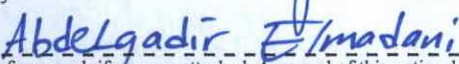
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be 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 recompleation 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. Name (Printed/Typed) Lacey Granillo		Title Permitting Tech III	
Signature 		12/14/15	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved by 		Title PE	Date 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 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

ADHERE TO PREVIOUS NMOC
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

DEC 11 4 2015

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31312		*Pool Code 97232 / 42289		*Pool Name BASIN MANCOS / LYBROOK GALLUP	
*Property Code 315094		*Property Name MC 6 COM			*Well Number 160H
*GRID No. 120782		*Operator Name WPX ENERGY PRODUCTION, LLC			*Elevation 6806'

¹⁰ Surface Location

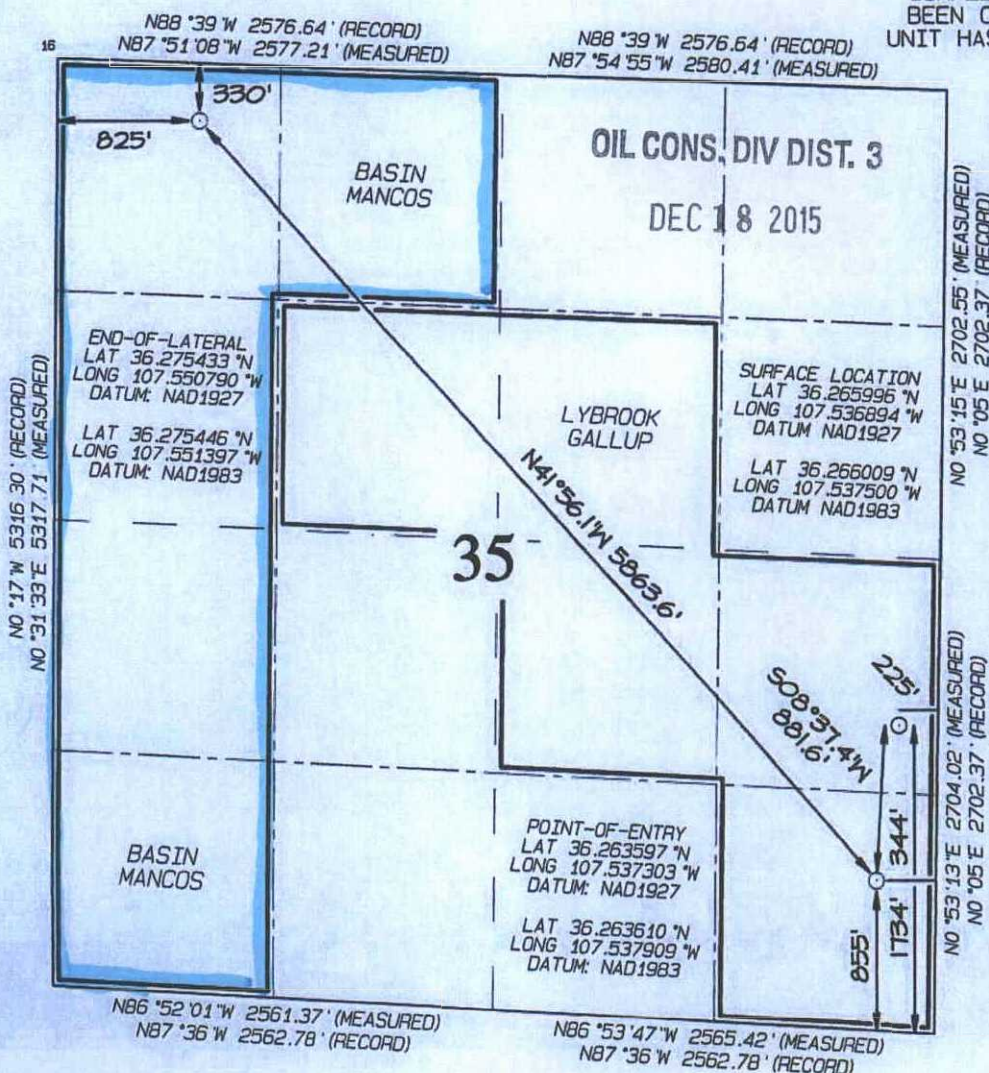
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	35	24N	7W		1734	SOUTH	225	EAST	RIO ARriba

¹¹ 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

¹² Dedicated Acres 400.0	N/2 SE/4, SE/4 SE/4, NW/4 SW/4 NE/4, W/2 SW/4 Section 35, T24N, R7W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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



¹⁷ 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: LACEY GRANILLO
Date: 12/14/15
Printed Name: lacey.granillo@wpxenergy.com
E-mail Address:

¹⁸ 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.

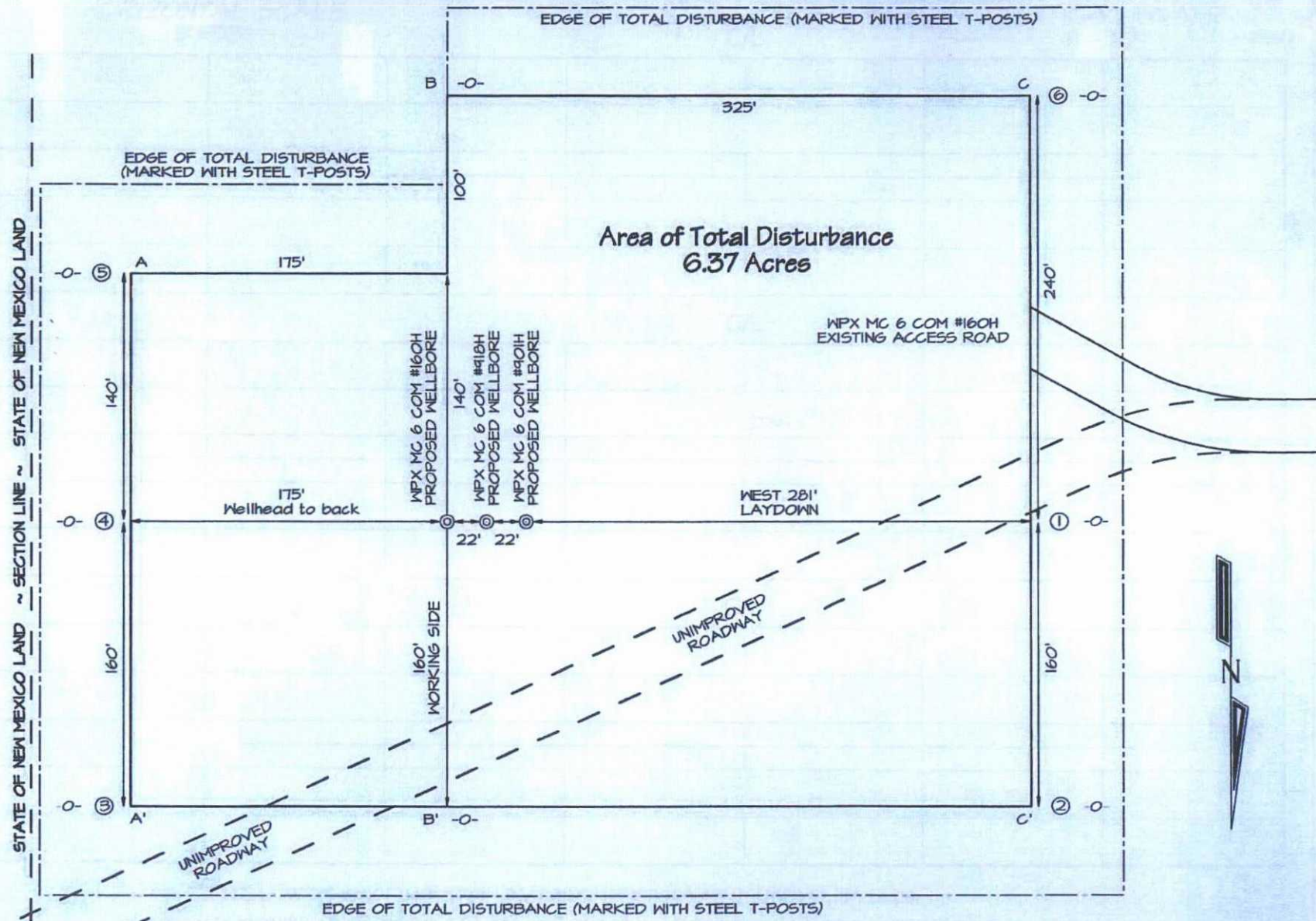
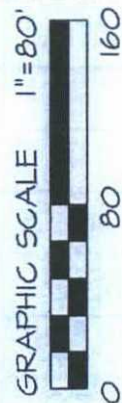
Date Revised: DECEMBER 14, 2015
Survey Date: SEPTEMBER 3, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

~ 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'

C/L

VERTICAL SCALE
1"=30'

A-A'							
6816'							
6806'							
6796'							

C/L

B-B'							
6816'							
6806'							
6796'							

C/L

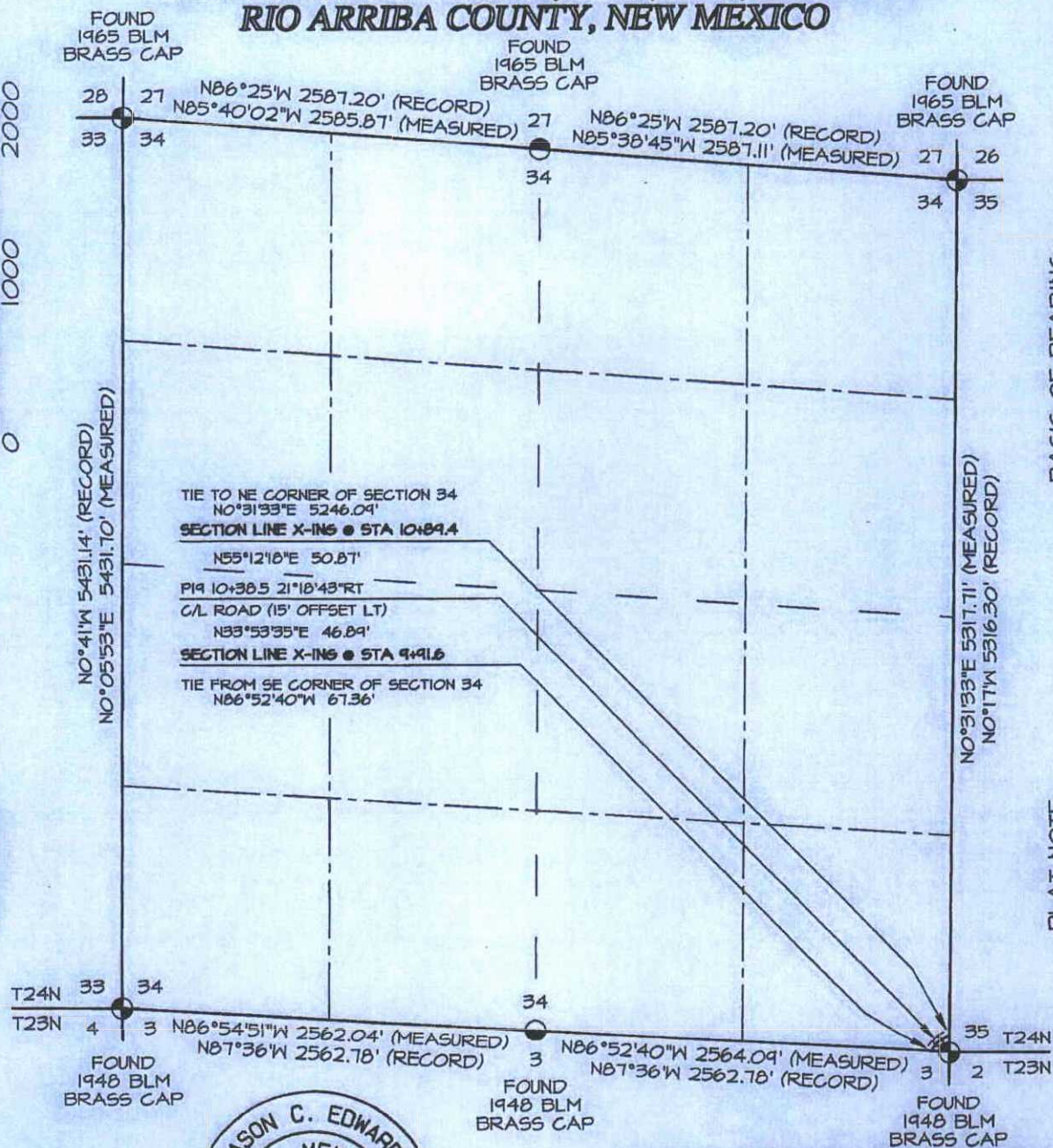
C-C'							
6816'							
6806'							
6796'							

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.

**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**

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



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

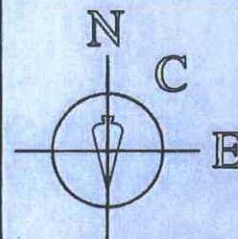
~ SURFACE OWNERSHIP ~
Bureau of Land Management

9+91.6 TO 10+89.4

97.8 FT / 5.9 RODS

Prepared for:

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



SURVEYS, INC.

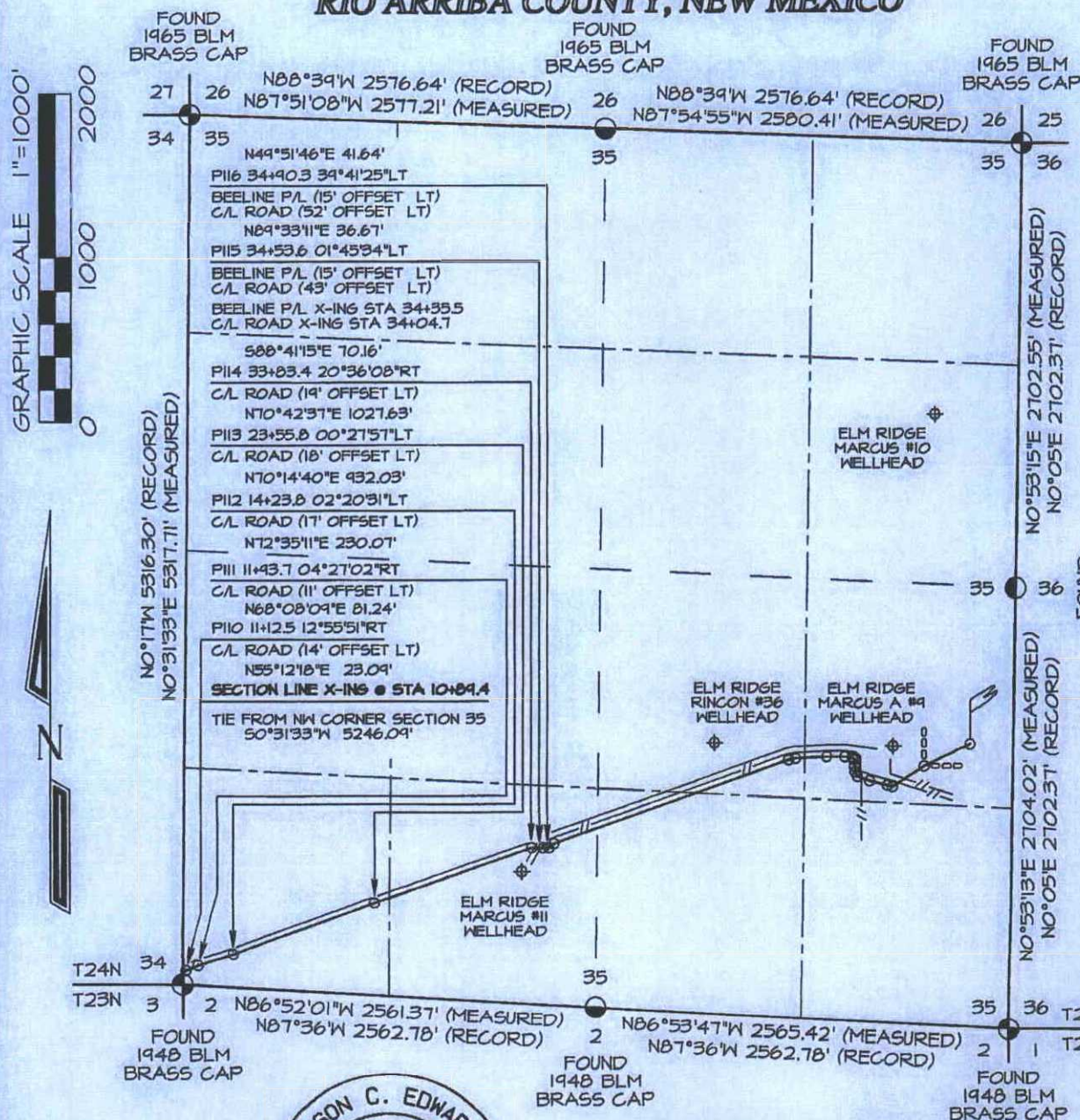
Land Surveyor:
Jason C. Edwards

Mailing Address:
Post Office Box 6612
Farmington, NM 87499

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

SHEET 5 OF 10
FILENAME: 24T34P62
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
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



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

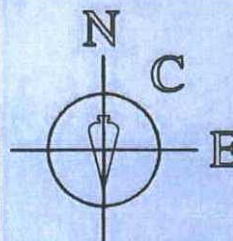
Jason C. Edwards
New Mexico LS #15269

~ SURFACE OWNERSHIP ~
Bureau of Land Management

10+89.4 TO 63+63.8 5274.4 FT / 319.7 RODS

Prepared for:

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



SURVEYS, INC.

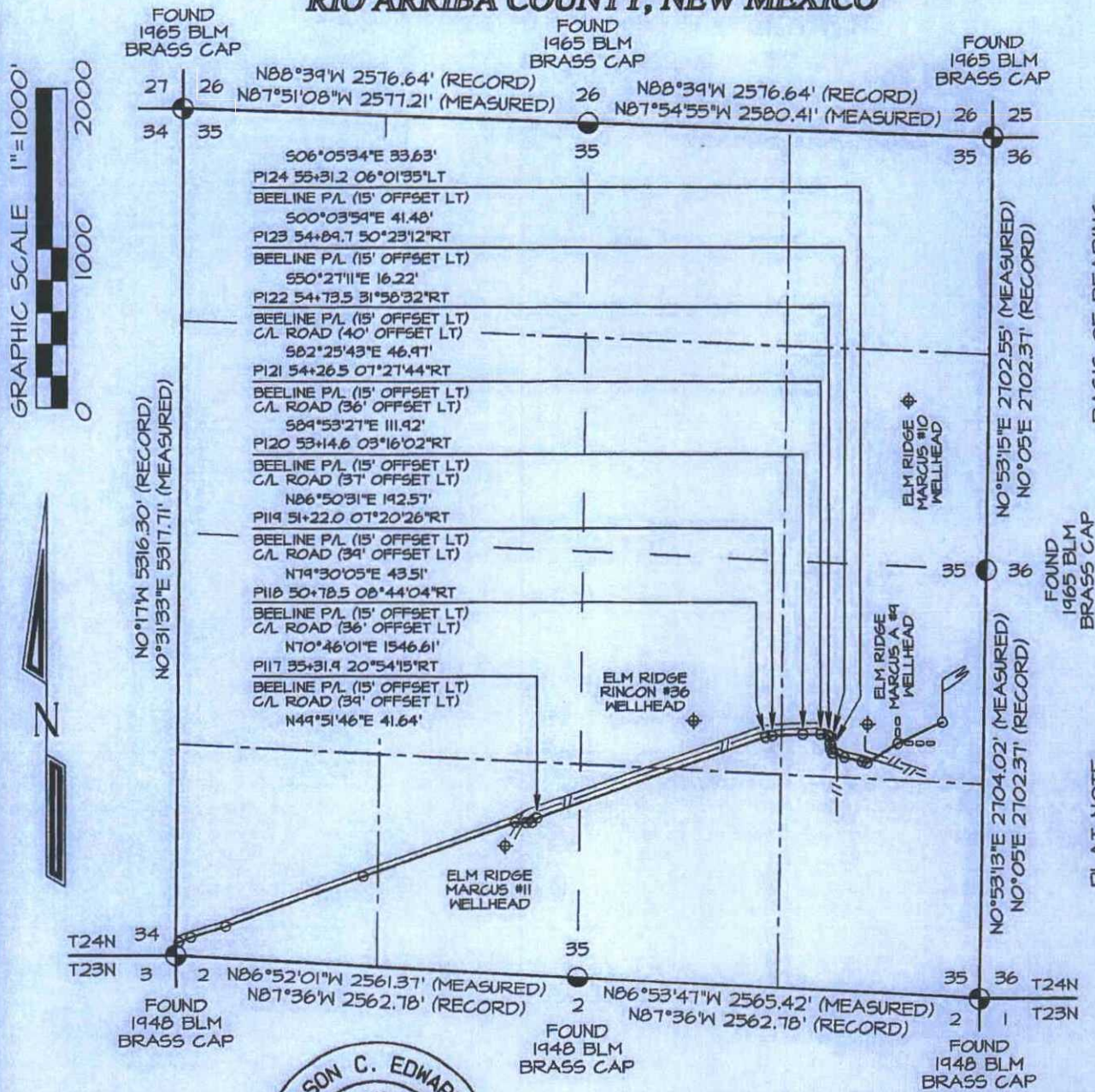
Land Surveyor:
Jason C. Edwards

Mailing Address:
Post Office Box 6612
Farmington, NM 87499

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

SHEET 6 OF 10
FILENAME: 24135P63
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 NW/4 NW/4 OF SECTION 6, T23N R6W

PLAT NOTE:

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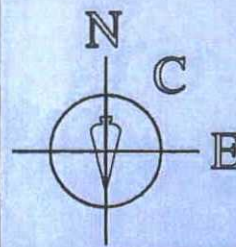
JASON C. EDWARDS Date: November 19, 2015
Jason C. Edwards
New Mexico LS #15269

~ SURFACE OWNERSHIP ~
Bureau of Land Management

10+89.4 TO 63+63.8	5274.4 FT / 319.7 RODS
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Prepared for:

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



Land Surveyor:
Jason C. Edwards

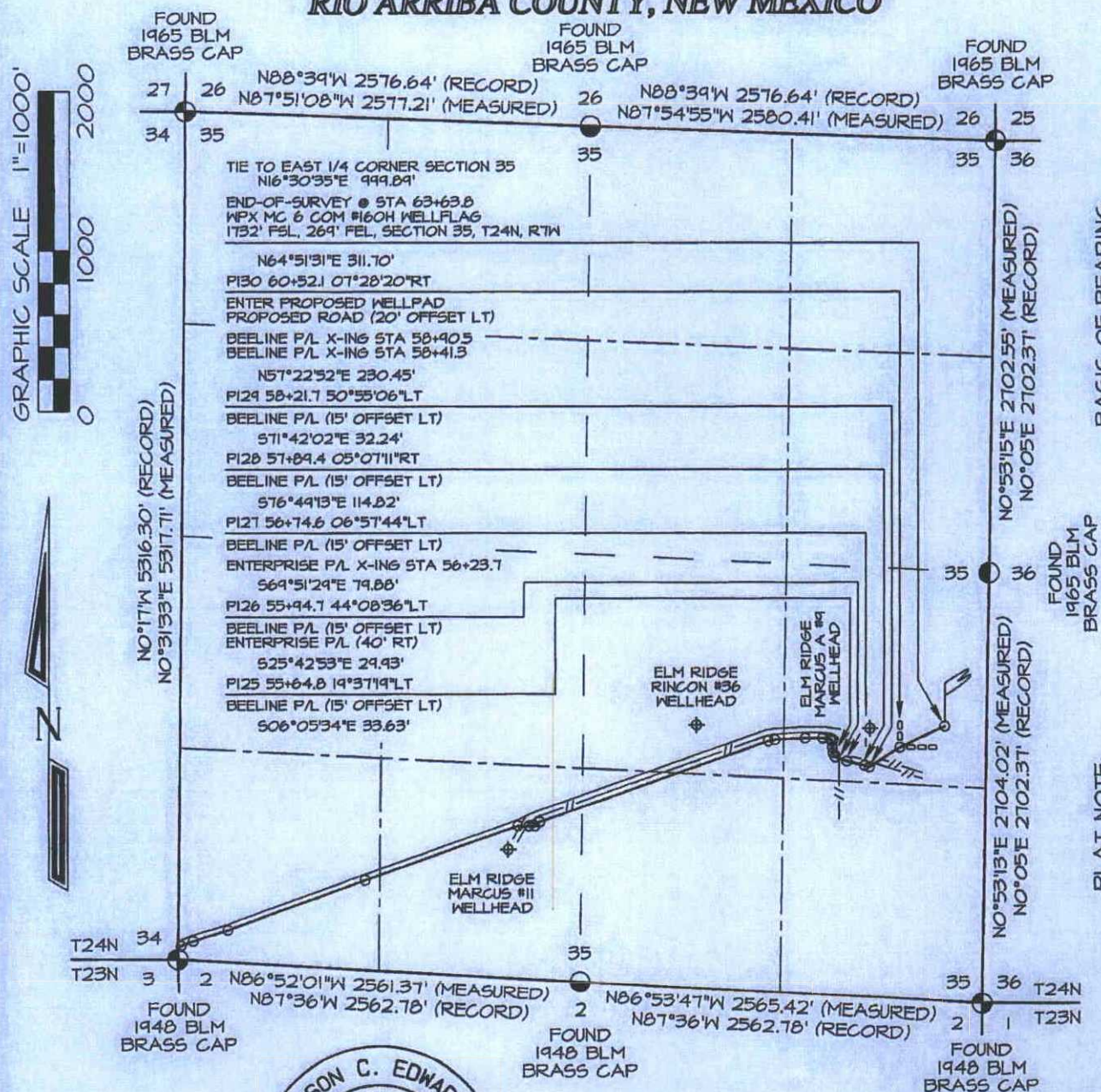
Mailing Address:
Post Office Box 6612
Farmington, NM 87499

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

SURVEYS, INC.

SHEET 7 OF 10	CHECKED: JCE
FILENAME: 24T35PG4	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 NW/4 NW/4 OF SECTION 6, T29N 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



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

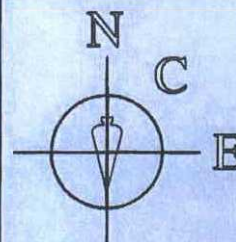
Jason C. Edwards
New Mexico LS #15269

~ SURFACE OWNERSHIP ~
Bureau of Land Management

10+89.4 TO 63+63.8	5274.4 FT / 319.7 RODS
--------------------	------------------------

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)
ncoosurveys@qwestoffice.net

SHEET 8 OF 10	CHECKED: JCE
FILENAME: 24735PG5	DRAWN BY: EDO

FOUND
1948 BLM
BRASS CAP



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

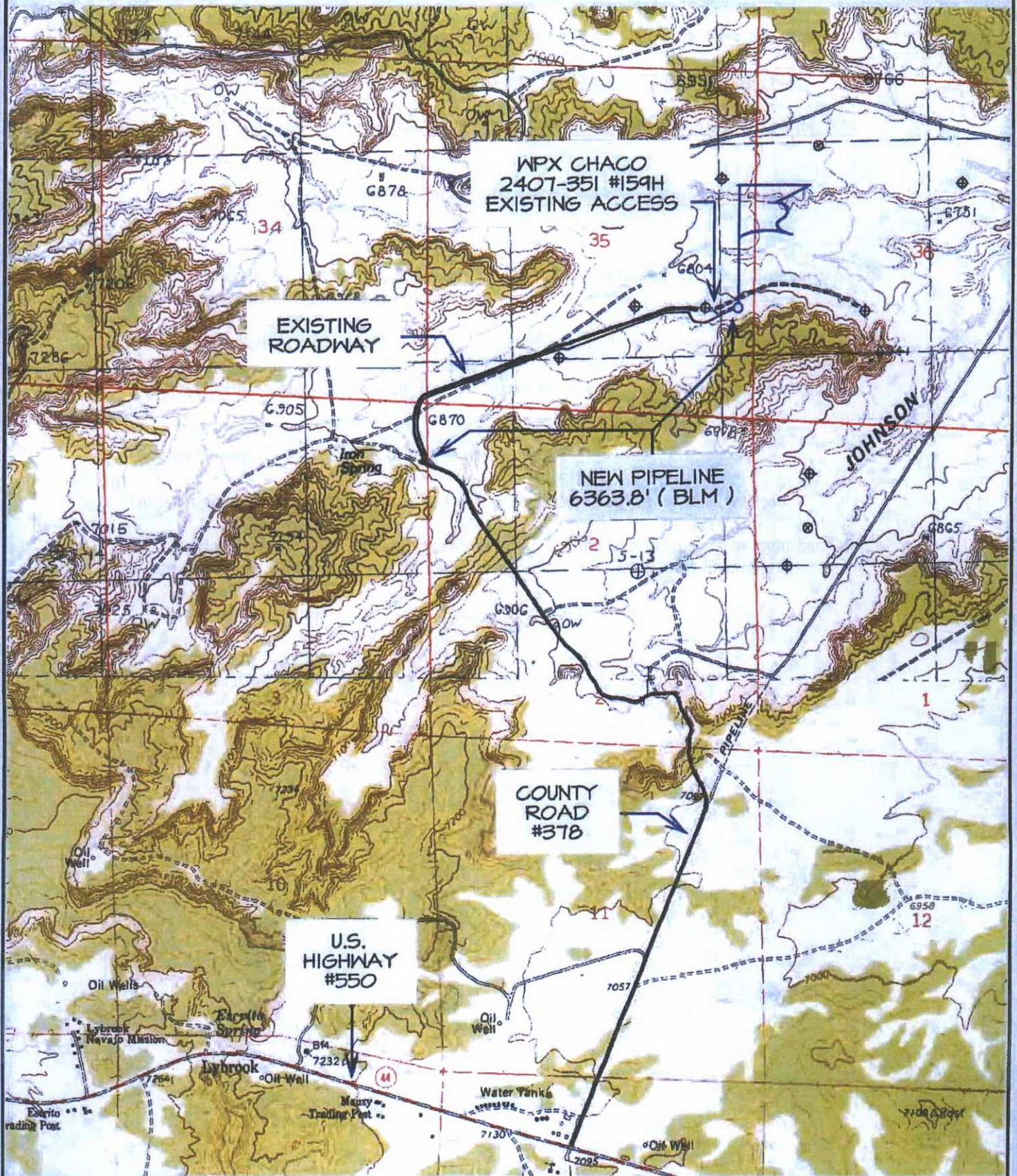


SHEET 4 OF 10	CHECKED: JCE
FILENAME: 2373P61	DRAWN BY: EDO

SURVEYS, INC.

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.



WPX Energy

Operations Plan

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

<u>Date:</u>	December 14, 2015	<u>Field:</u>	Basin Mancos
<u>Well Name:</u>	MC 6 COM #160H	<u>Surface:</u>	BLM
<u>SH Location:</u>	NESE Sec 35-24N-07W	<u>Elevation:</u>	6806' GR
<u>BH Location:</u>	NWNW Sec 35-24N-07W	<u>Minerals:</u>	FED

Measured Depth: 12,004.62'

I. GEOLOGY: SURFACE FORMATION - NACIMIENTO

A. FORMATION TOPS (GL)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	1088	1086	POINT LOOKOUT	4393	4204
KIRTLAND	1403	1393	MANCOS	4669	4463
PICTURED CLIFFS	2119	2067	GALLUP	5098	4873
LEWIS	2195	2139	KICKOFF POINT	4,880.73	4,647.92
CHACRA	2469	2396	TOP TARGET	5884	5463
CLIFF HOUSE	3631	3488	LANDING POINT	6,141.65	5,512.00
MENEFEE	3686	3540	BASE TARGET	6,141.65	5,512.00
			TD	12,004.62	5,562.00

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"	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:

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. **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.**
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 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.

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	Latitude:	36.265996
From:	Lat/Long	Easting:	587,389.82 usft	Longitude:	-107.536894
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.18 °

Well	MC 6 COM #160H - Slot A3					
Well Position	+N/-S	0.00 usft	Northing:	1,916,198.41 usft	Latitude:	36.265996
	+E/-W	0.00 usft	Easting:	587,389.82 usft	Longitude:	-107.536894
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	6/18/2015	9.25	63.00	50,094

Design	Design #3 7Dec15 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	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
Company: WPX Energy
Project: T24N R7W
Site: Chaco 2407-35I
Well: MC 6 COM #160H
Wellbore: Wellbore #1
Design: Design #3 7Dec15 sam

Local Co-ordinate Reference: Well MC 6 COM #160H (A3) - Slot A3
TVD Reference: KB @ 6831.00usft (Aztec 1000)
MD Reference: KB @ 6831.00usft (Aztec 1000)
North Reference: True
Survey Calculation Method: Minimum Curvature

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
9 5/8"									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
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
Hold 20.43 Inclination									
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
Start Build DLS 9.00 TFO 156.91									
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
Hold 60.00 Inclination									
5,814.05	60.00	317.24	5,426.73	-1,102.75	91.72	-778.93	0.00	0.00	0.00
Start Build DLS 9.00 TFO -0.01									
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
Start DLS 9.09 TFO 1.20									
6,141.65	89.51	317.30	5,512.00	-873.25	-120.48	-468.86	9.09	9.09	0.19
POE at 89.51 Inc 317.30 Deg									
6,142.00	89.51	317.30	5,512.00	-872.99	-120.72	-468.51	0.00	0.00	0.00
7"									
6,500.00	89.51	317.30	5,515.06	-609.89	-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
TD at 12004.62									

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		

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 #160H 7Dec - plan hits target center - 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 - plan misses target center by 0.39usft at 5813.69usft MD (5426.55 TVD, -1102.98 N, 91.93 E) - 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 - plan hits target center - 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 - plan hits target center - 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 Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)	
345.00	345.00	9 5/8"	9.625	12.250	
6,142.00	5,512.00	7"	7.000	8.750	

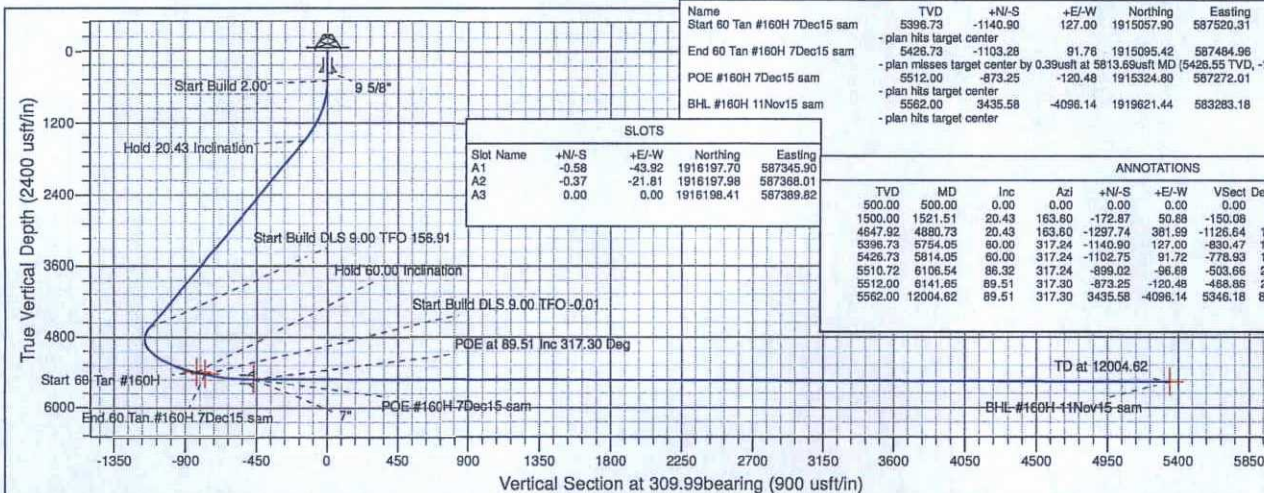
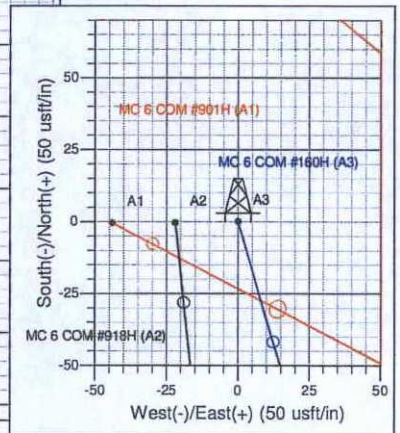
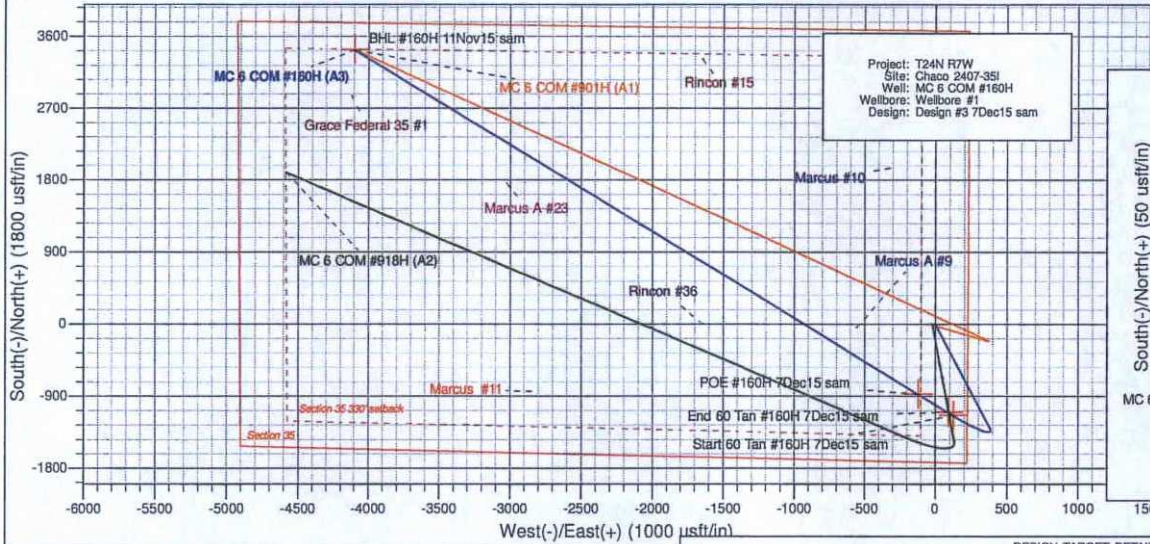
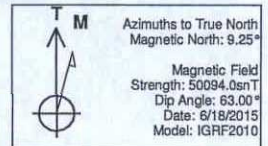
Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
500.00	500.00	0.00	0.00	Start Build 2.00	
1,521.51	1,500.00	-172.87	50.88	Hold 20.43 Inclination	
4,880.73	4,647.92	-1,297.74	381.99	Start Build DLS 9.00 TFO 156.91	
5,754.05	5,396.73	-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	V/Sect	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
5510.72	6106.54	86.32	317.24	-899.02	-96.68	-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