

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 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	

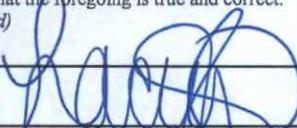
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths 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

Signature 

Title Permitting Tech III

Date ~~11/24/15~~ 11/24/15

NOV 30 2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by William Tambekou

Title Petroleum Engineer Date 11/25/2015

Office FFO

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.

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 D CONDITIONS OF APPROVAL

RV

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
*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		1733	SOUTH	247	EAST	RIO ARRIBA

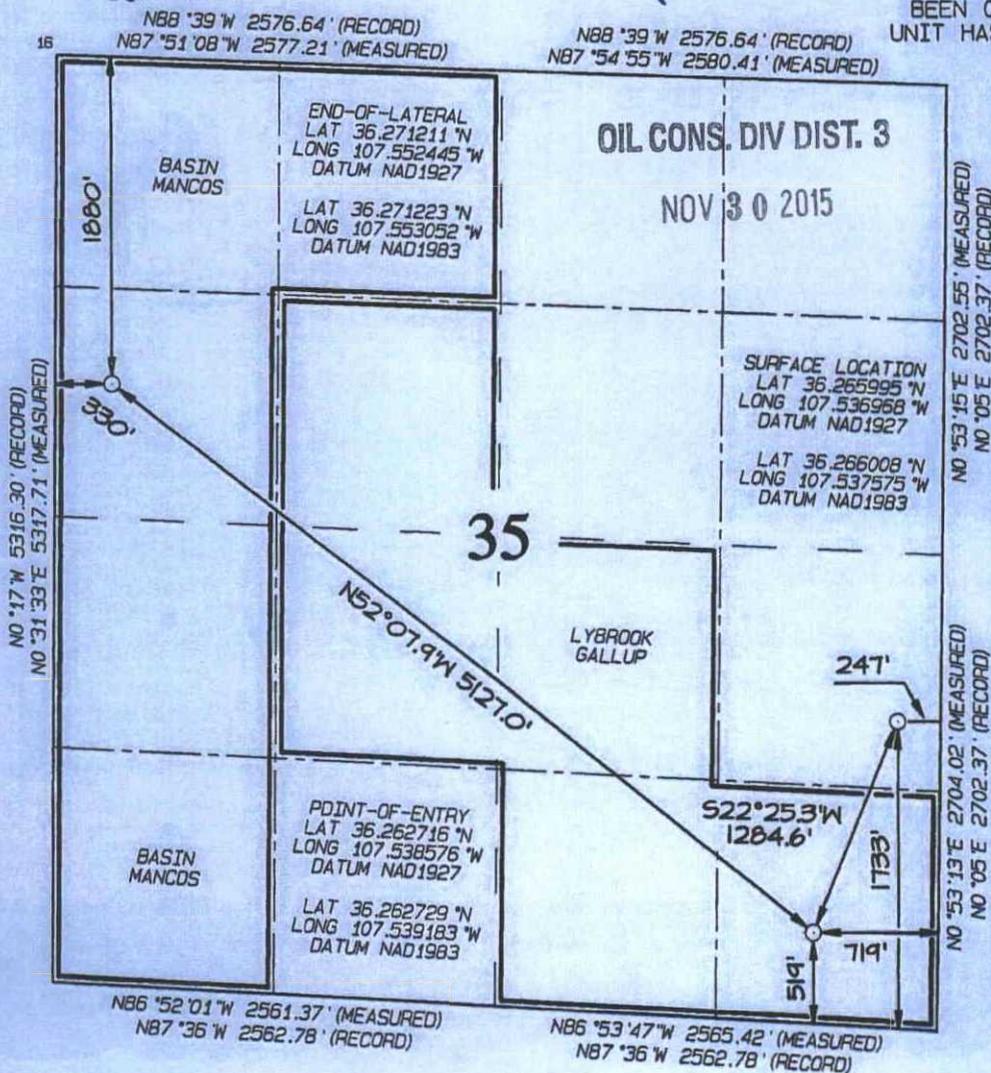
¹¹ Bottom Hole Location If Different From Surface

Ul. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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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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

Mancos = 200 acres Gallup = 200 acres



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: *[Signature]* Date: 11/24/15
Printed Name: LACEY GRANILLO
E-mail Address: LACEY.GRANILLO@WPXENERGY.COM

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: NOVEMBER 19, 2015
Survey Date: SEPTEMBER 3, 2013

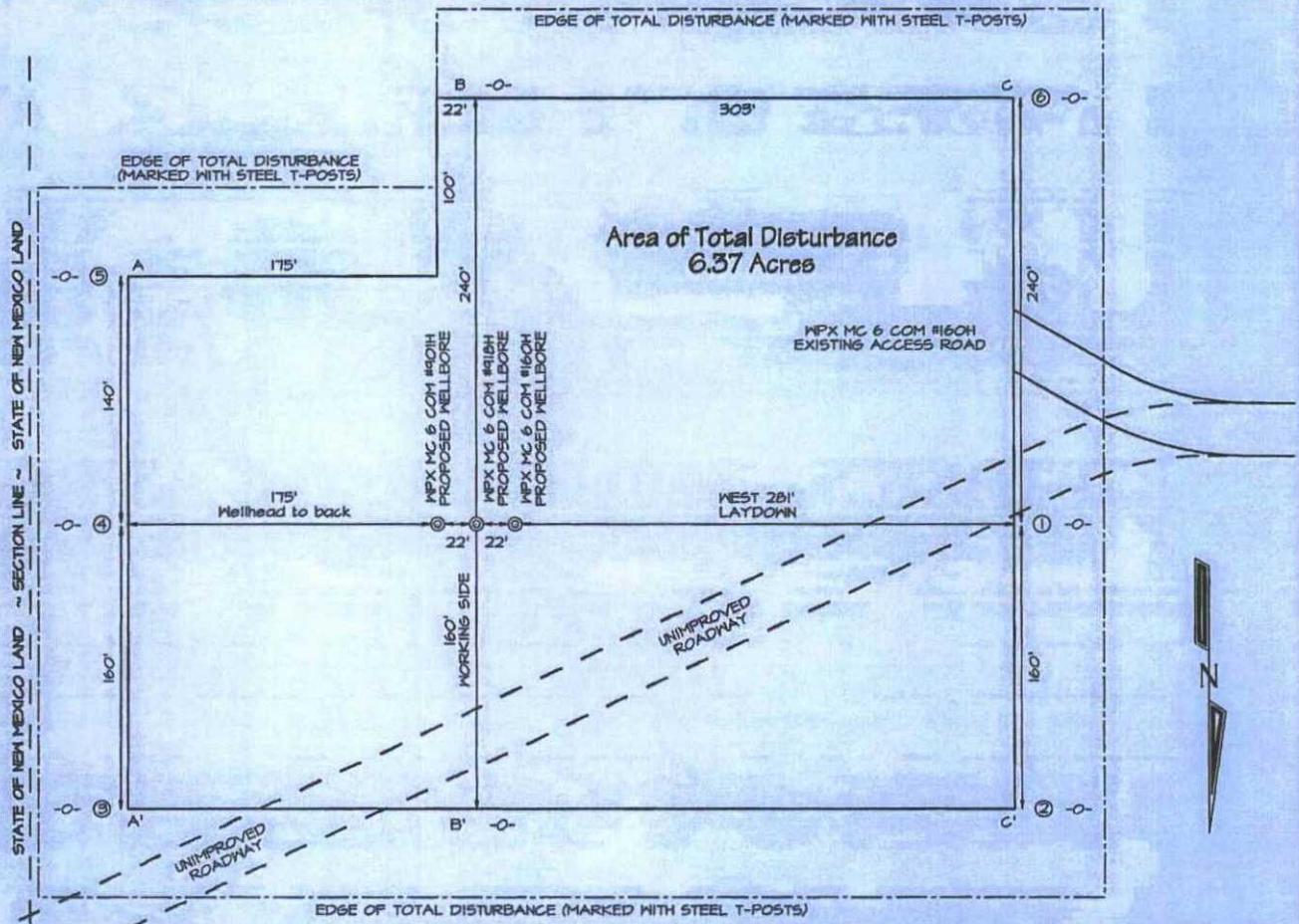
Signature and Seal of Professional Surveyor



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

~ 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 stated wellpad.

**WPX ENERGY PRODUCTION, LLC MC 6 COM #918H
 1733' FSL & 247' FEL, SECTION 35, T24N, R7W, NMPPM
 RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6806'**

HORIZONTAL SCALE
 1"=55'

VERTICAL SCALE
 1"=30'

C/L

A-A'							
6816'							
6806'							
6796'							

C/L

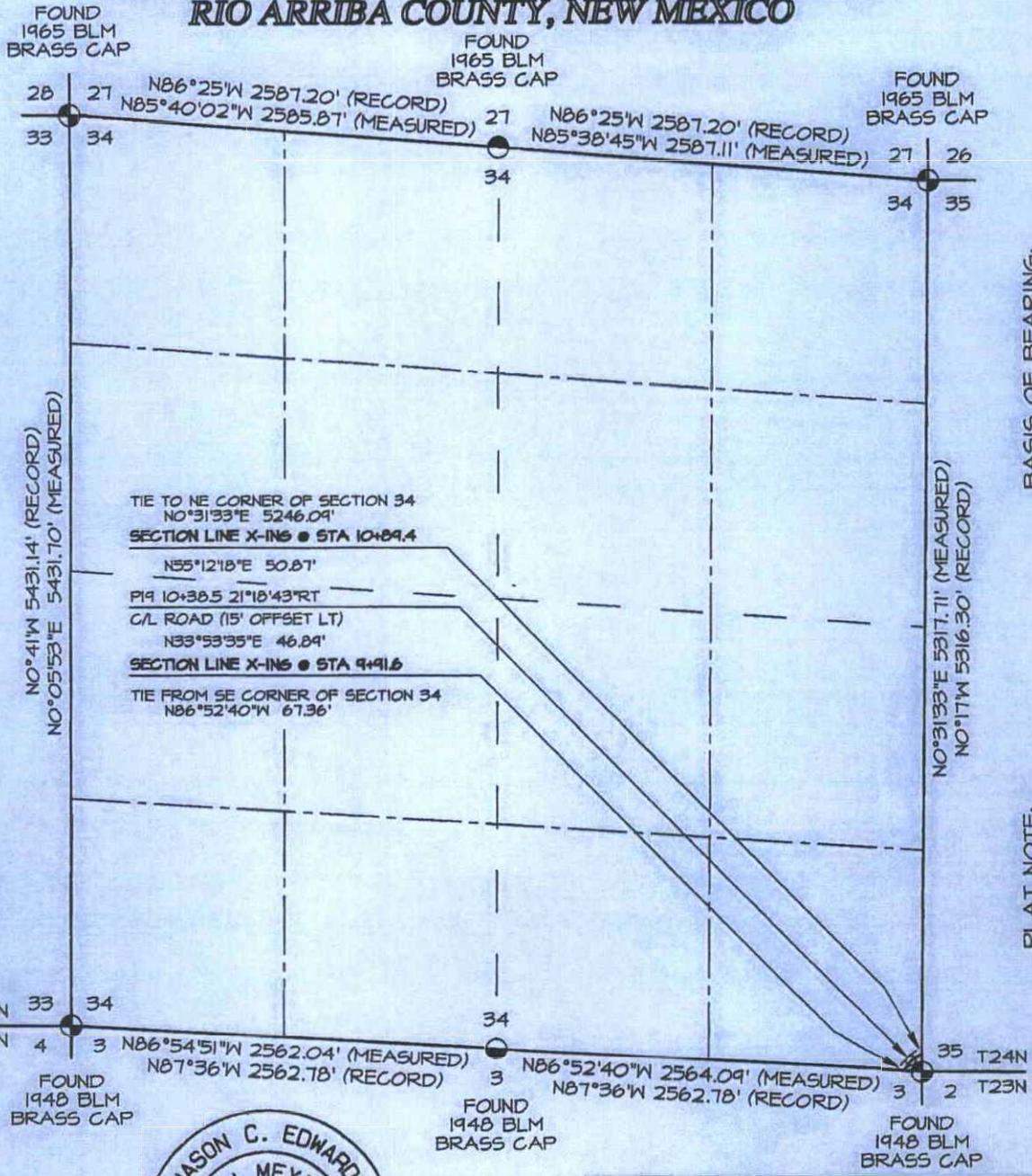
B-B'							
6816'							
6806'							
6796'							

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 #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**



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

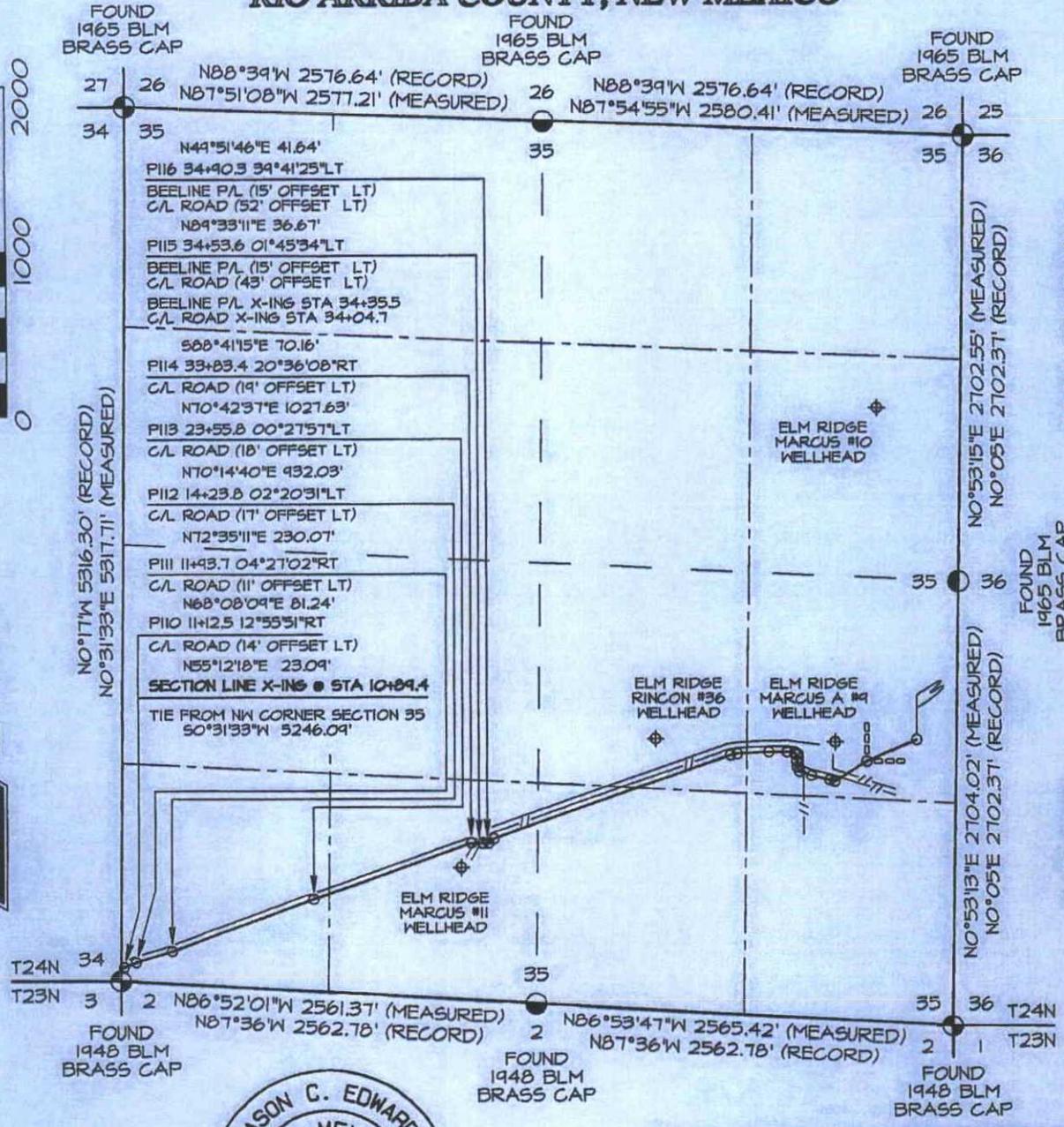
9+91.6 TO 10+89.4	97.8 FT / 5.9 RODS
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I, Jason C. Edwards, a registered professional surveyor under the laws of the State of New Mexico, hereby certify that this plat was prepared from field notes of an actual survey meeting the minimum requirements 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		<p>Land Surveyor: Jason C. Edwards</p> <p>Mailing Address: Post Office Box 6612 Farmington, NM 87499</p> <p>Business Address: 111 East Pinon Street Farmington, NM 87402 (505) 486-1695 (Office) jcesurveys@qwestoffice.net</p>	<p>CHECKED: JCE DRAWN BY: EDO</p>
	<p>SURVEYS, INC.</p>	<p>SHEET 5 OF 10 FILENAME: 24734P64</p>	

**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:
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

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



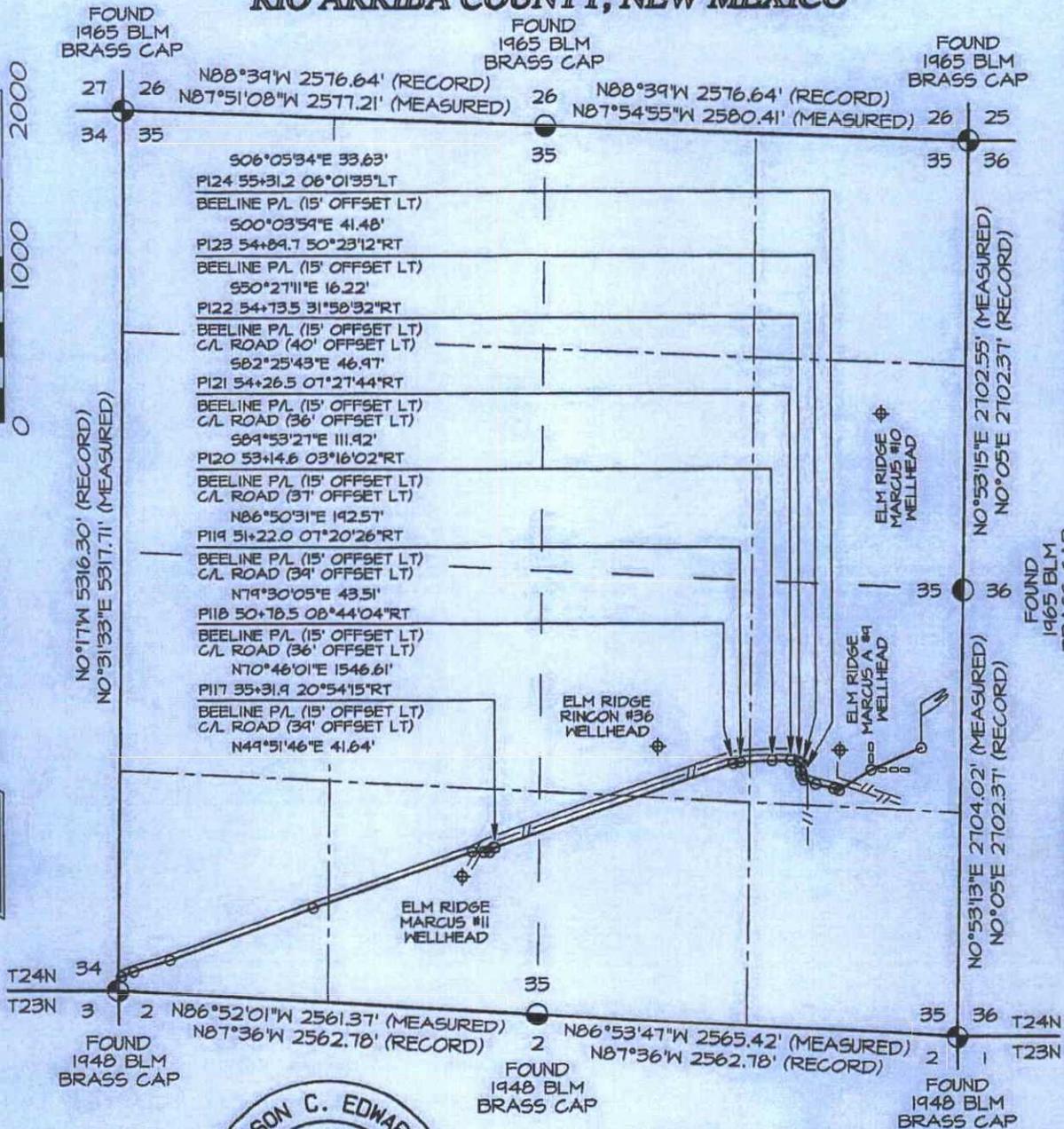
~ SURFACE OWNERSHIP ~ Bureau of Land Management	
10+89.4 TO 63+83.8	5294.4 FT / 320.9 RODS

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	SURVEYS, INC.		

**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:
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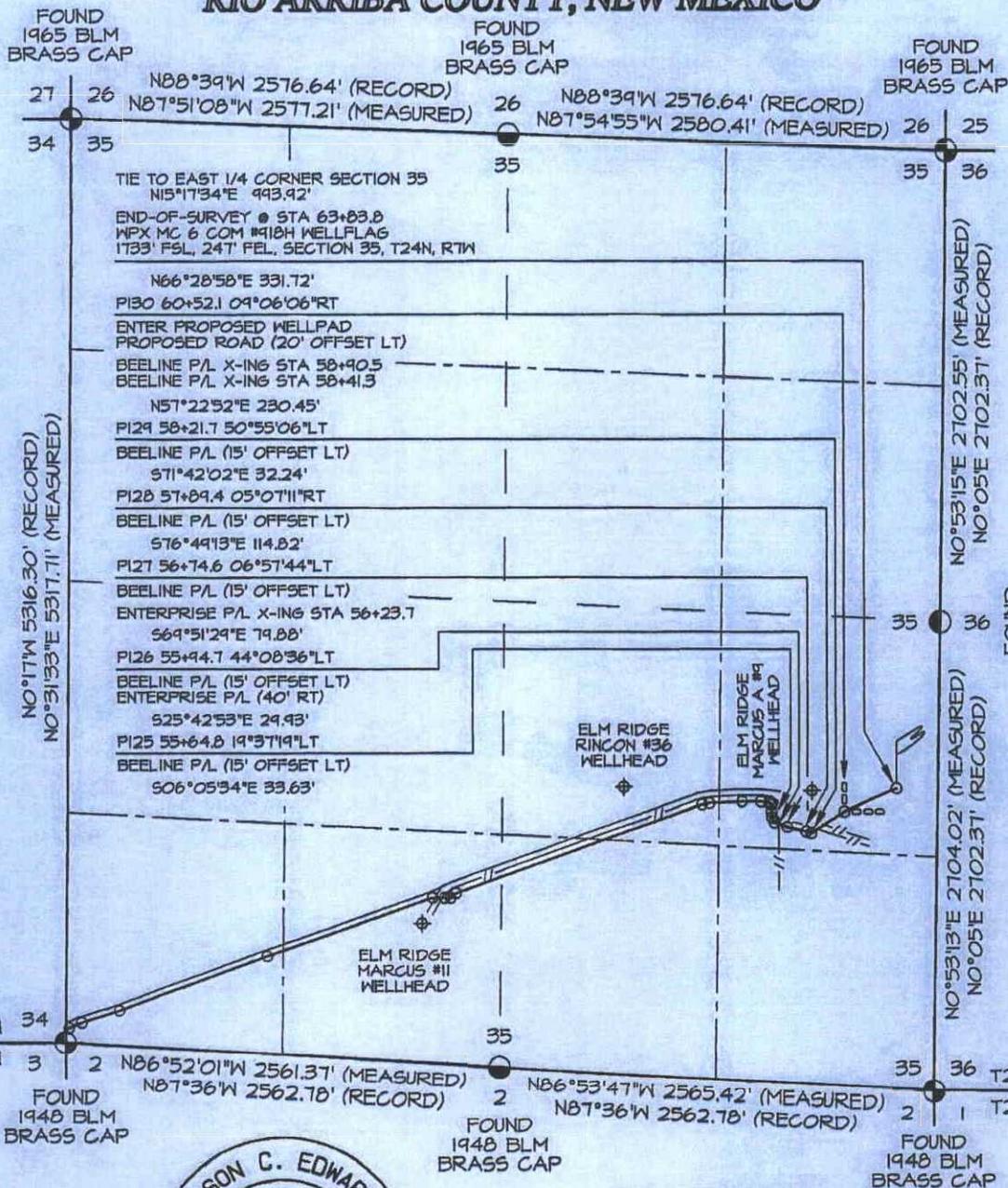
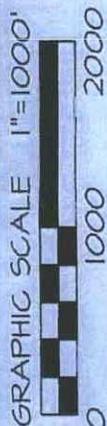
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		SURVEYS, INC.	

**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

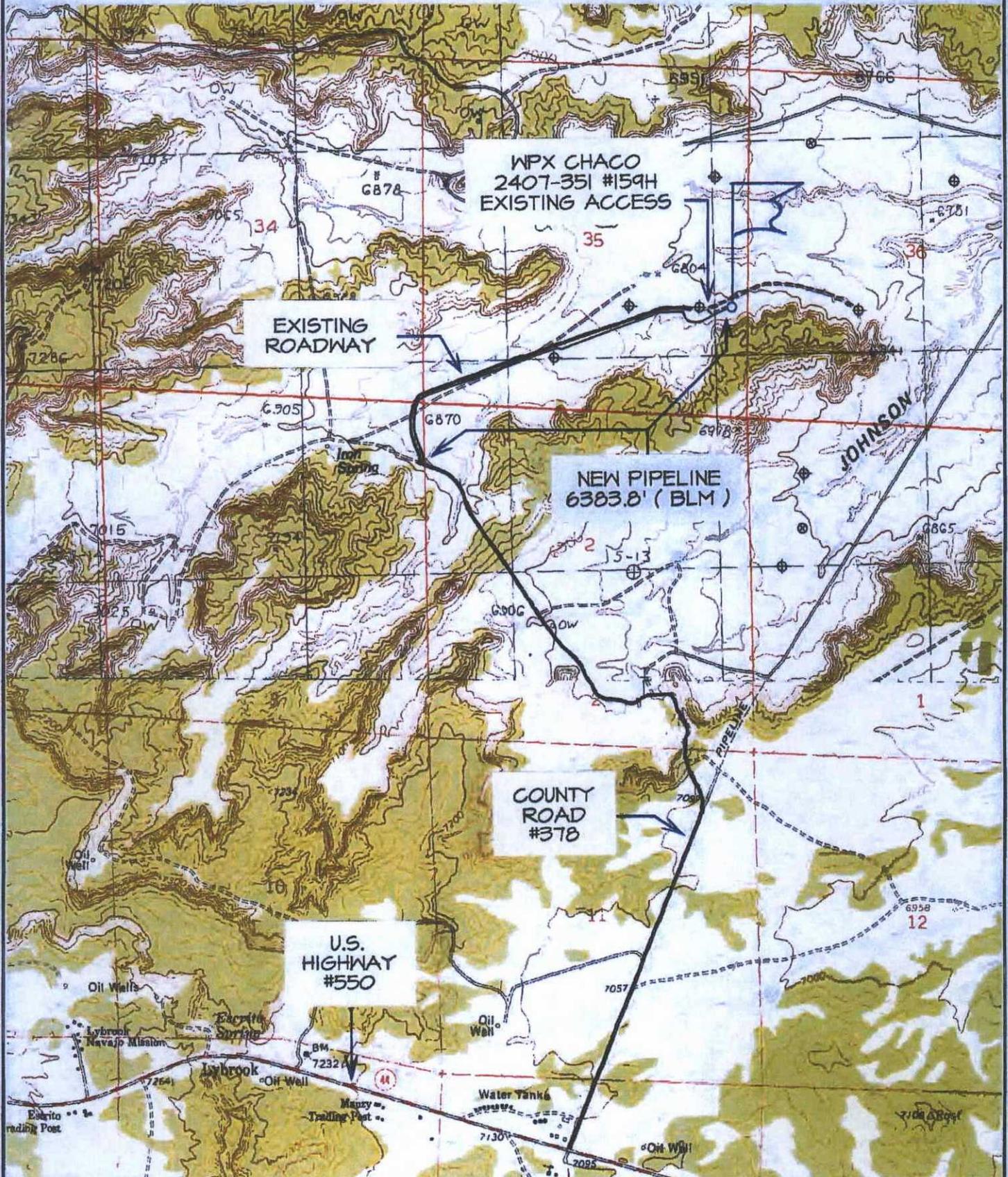
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WPX ENERGY PRODUCTION, LLC MC 6 COM #918H

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)

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

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
MENEFEE	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:

- 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.
- 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.

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	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 #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:	587,368.01 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 111
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
9 5/8"									
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
Start Build 2.00									
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
Hold 24.76 Inclination									
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
Start Build DLS 9.00 TFO 139.72									
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
Hold 60.00 Inclination									
5,667.00	60.00	307.11	5,191.52	-1,384.40	-222.02	-326.99	0.00	0.00	0.00
Start Build DLS 9.00 TFO 0.00									
5,829.55	74.63	307.11	5,254.04	-1,294.16	-341.31	-182.19	9.00	9.00	0.00
Start DLS 9.00 TFO 0.00									
5,998.00	89.79	307.11	5,276.81	-1,193.77	-474.02	-21.09	9.00	9.00	0.00
7"									
5,998.20	89.81	307.11	5,276.81	-1,193.65	-474.18	-20.90	9.00	9.00	0.00
POE at 89.81 Inc 307.11 Deg									
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
TD at 11124.47									

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		

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		

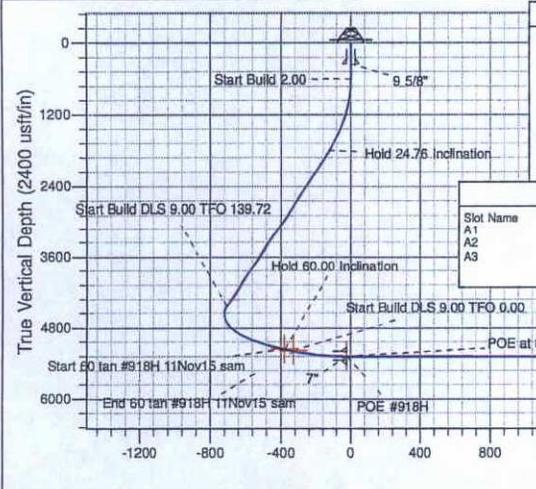
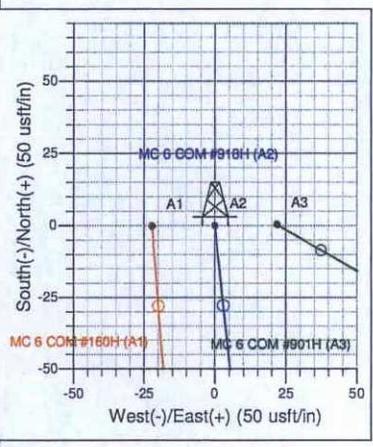
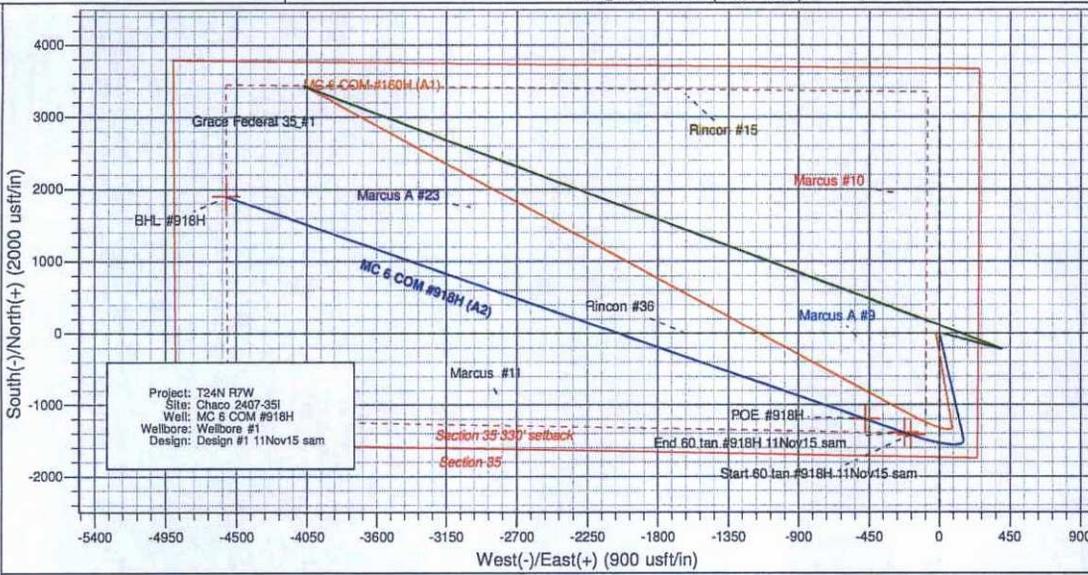
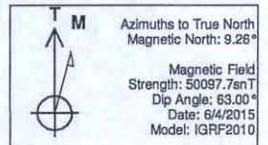
Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
600.00	600.00	0.00	0.00	Start Build 2.00	
1,837.96	1,799.79	-261.92	27.36	Hold 24.76 Inclination	
4,739.32	4,434.44	-1,470.45	153.59	Start Build DLS 9.00 TFO 139.72	
5,607.00	5,161.52	-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	38.262106	-107.537581	Point	
End 60 tan #918H 11Nov15 sam	5191.52	-1394.40	-222.02	1914812.90	587150.22	38.262192	-107.537721	Point	
POE #918H	5276.81	-1193.65	-474.18	1915002.88	586897.48	38.262716	-107.538576	Point	
BHL #918H	5294.00	1898.96	-4562.47	1918082.97	582799.75	38.271211	-107.552445	Point	

SLOTS									
Slot Name	+N/-S	+E/-W	Northing	Easting	TVD	MD	Inc	Azi	
A1	-0.21	-22.11	1916197.70	587345.90	4434.44	4739.32	24.76	174.04	
A2	0.00	0.00	1916197.98	587368.01	5161.52	5607.00	60.00	307.11	
A3	0.37	21.81	1916198.41	587389.82	5191.52	5667.00	60.00	307.11	
					5254.04	5829.55	74.83	307.11	
					5276.81	5998.20	89.81	307.11	
					5294.00	11124.47	89.81	307.11	

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	263.34	Hold 24.76 inclination	
4434.44	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	-1394.40	-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	