

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions listed below are made in accordance with OCD Rule 19.15.7.11 and are in addition to the actions approved by BLM on the following 3160-4 or 3160-5 form.

Operator Signature Date: 11/20/2015
Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-039-31334-00-00	MC 6 COM	901H	WPX ENERGY PRODUCTION, LLC	O	N	Rio Arriba	F	I	35	24	N	7	W

Drilling/Casing Change

Conditions of Approval:

(See the below checked and additional conditions)

- Notify Aztec OCD 24hrs prior to casing & cement.
- Hold C-104 for directional survey & "As Drilled" Plat
- Hold C-104 for NSL, NSP, DHC
- Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- Ensure compliance with 19.15.17
- Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
- Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
- Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

Additional requirements

NMOCD Approved by Signature

12/01/2015
Date

RECEIVED
UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Serial No. NMSF 078534
2. Name of Operator WPX Energy Production, LLC	6. If Indian, Allottee or Tribe Name
3a. Address PO Box 640 Aztec, NM 87410	7. If Unit of CA/Agreement, Name and/or No. NMNM134944
3b. Phone No. (include area code) 505-333-1808	8. Well Name and No. MC 6 Com #901H
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	9. API Well No. 30-039-31334
10. Field and Pool or Exploratory Area Basin Mancos / Lybrook Gallup	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 <u>Realign Lateral</u>
	<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 Energy request to realign the lateral on the above mentioned well, per attached C102 Package, Directional & OPS plan.

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) Marie E. Jaramillo	Title Permit Tech Date 11/20/15
Signature <i>Marie Jaramillo</i>	Date NOV 30 2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>William Tambekou</i>	Title <i>Petroleum Engineer</i>	Date <i>11/25/2015</i>
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 <i>FFD</i>	

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)

NMOCD *NV* *RY*

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

REALIGN LATERAL

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-31334		*Pool Code 97232 / 42289		*Pool Name BASIN MANCOS / LYBROOK GALLUP	
*Property Code 315094		*Property Name MC 6 COM		*Well Number 901H	
*GRID No. 120782		*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6806'	

¹⁰ Surface Location

U. 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

U. 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

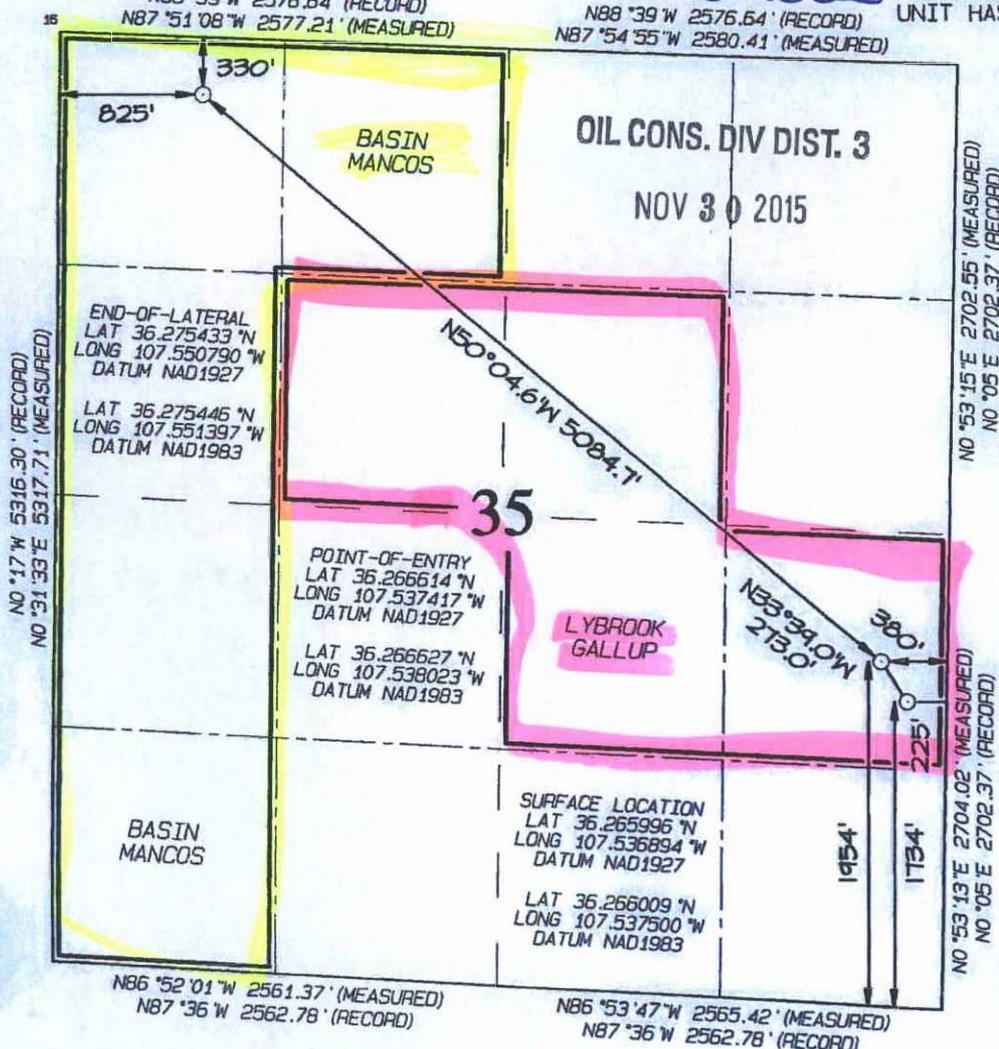
¹² Dedicated Acres 360.0 NW/4, W/2 SW/4, SW/4 NE/4 N/2 SE/4 - Section 35, T24N, R7W	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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Mancos = 200 acres Gallup = 160 acres

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' (MEASURED)

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.

Marie Jaramillo 11/20/15
Signature: MARIE JARAMILLO Date: 11/20/15

Printed Name: MARIE.JARAMILLO@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: NOVEMBER 19, 2015
Survey Date: SEPTEMBER 3, 2013

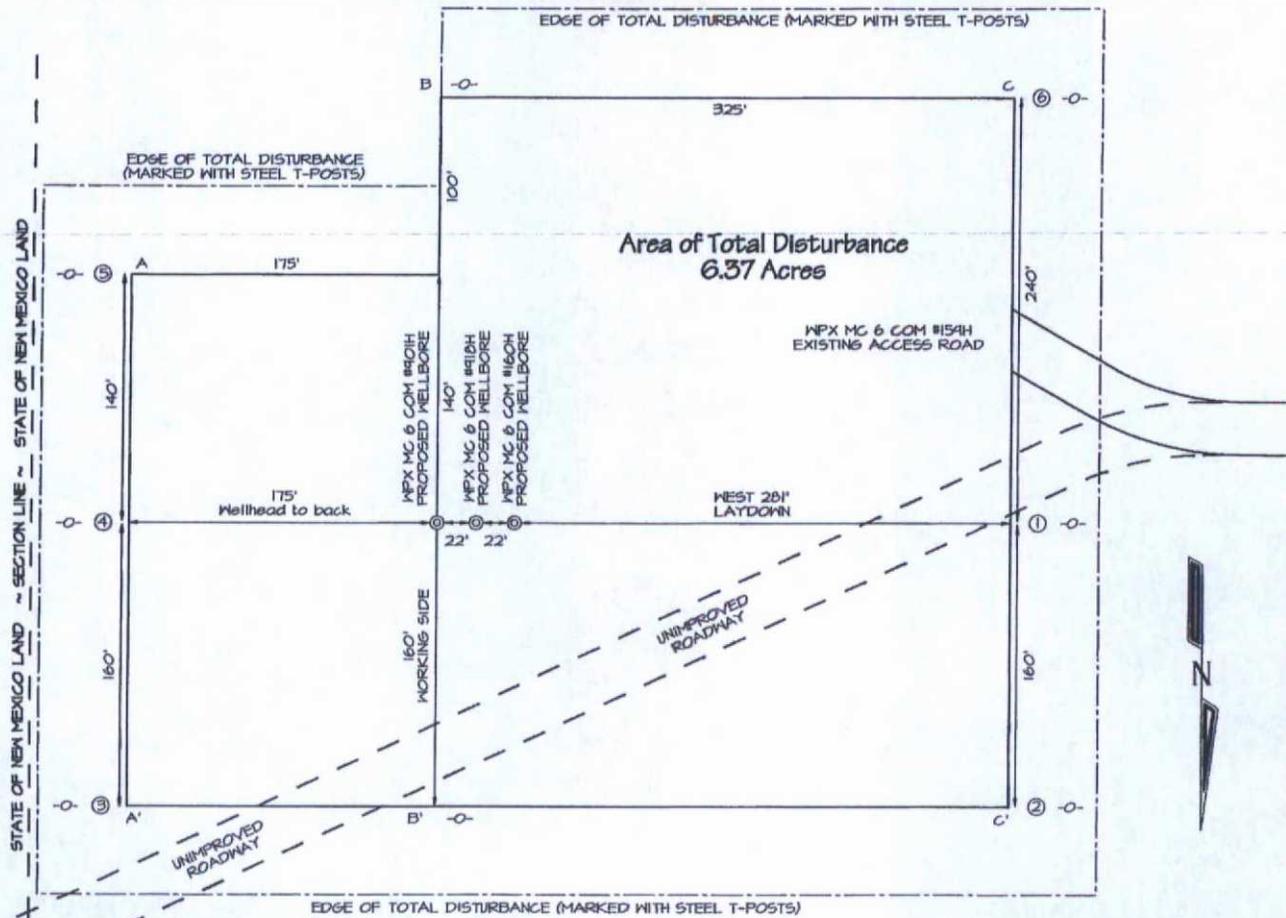
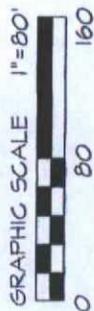
Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

WPX ENERGY PRODUCTION, LLC MC 6 COM #901H
1734' FSL & 225' FEL, SECTION 35, T24N, R7W, NMPM
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6806'
LAT: 36.266009°N LONG: 107.537500°W DATUM: NAD1983

~ SURFACE OWNER ~
 Bureau of Land Management



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

**WPX ENERGY PRODUCTION, LLC MC 6 COM #901H
 1734' FSL & 225' FEL, SECTION 35, T24N, R7W, NMPM
 RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6806'**

HORIZONTAL SCALE
 1"=55'

VERTICAL SCALE
 1"=30'

C/L

A-A'							
6816'							
6806'							
6796'							

C/L

B-B'							
6816'							
6806'							
6796'							

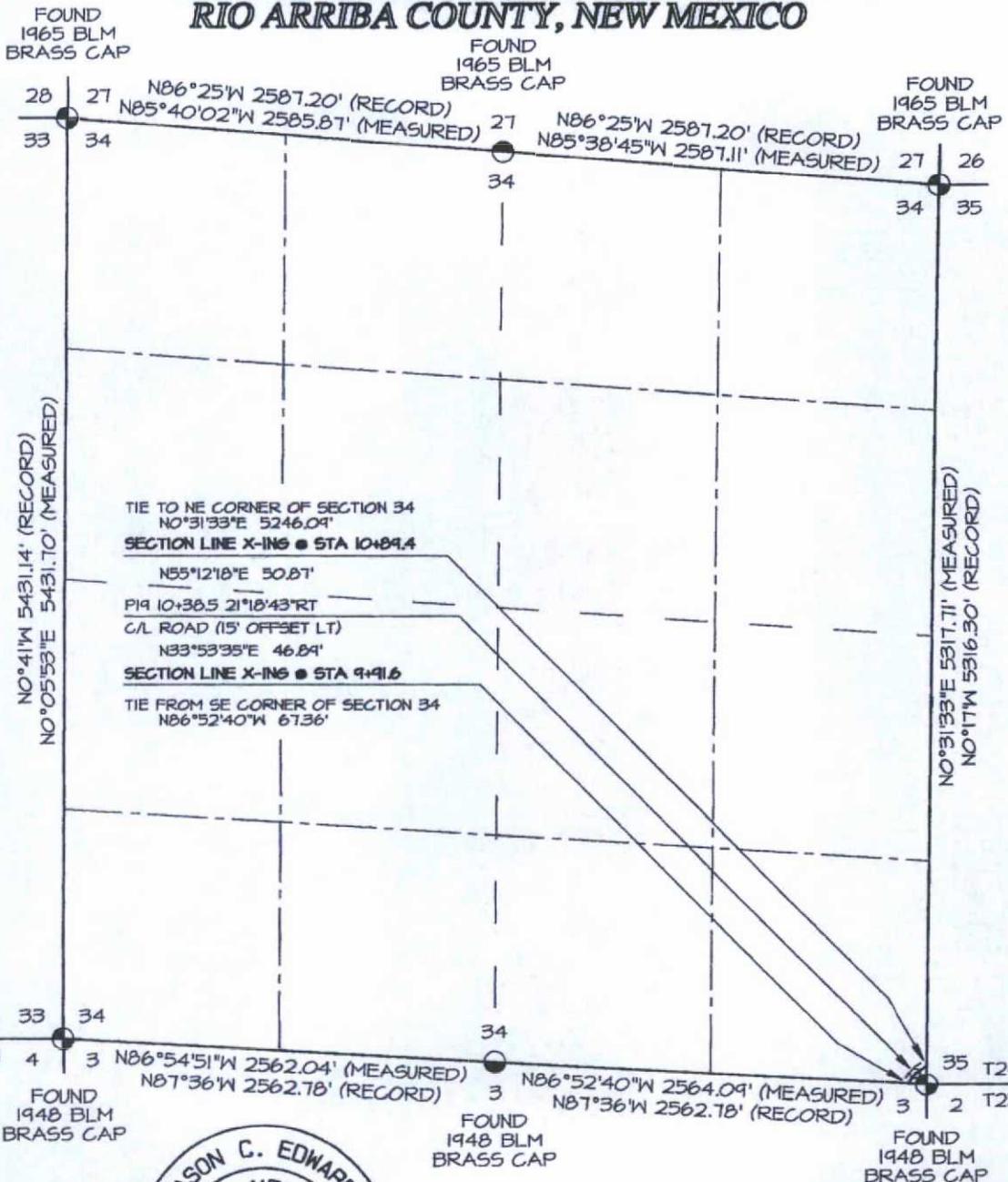
C/L

C-C'							
6816'							
6806'							
6796'							

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

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

**WPX ENERGY PRODUCTION, LLC MC 6 COM #901H
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



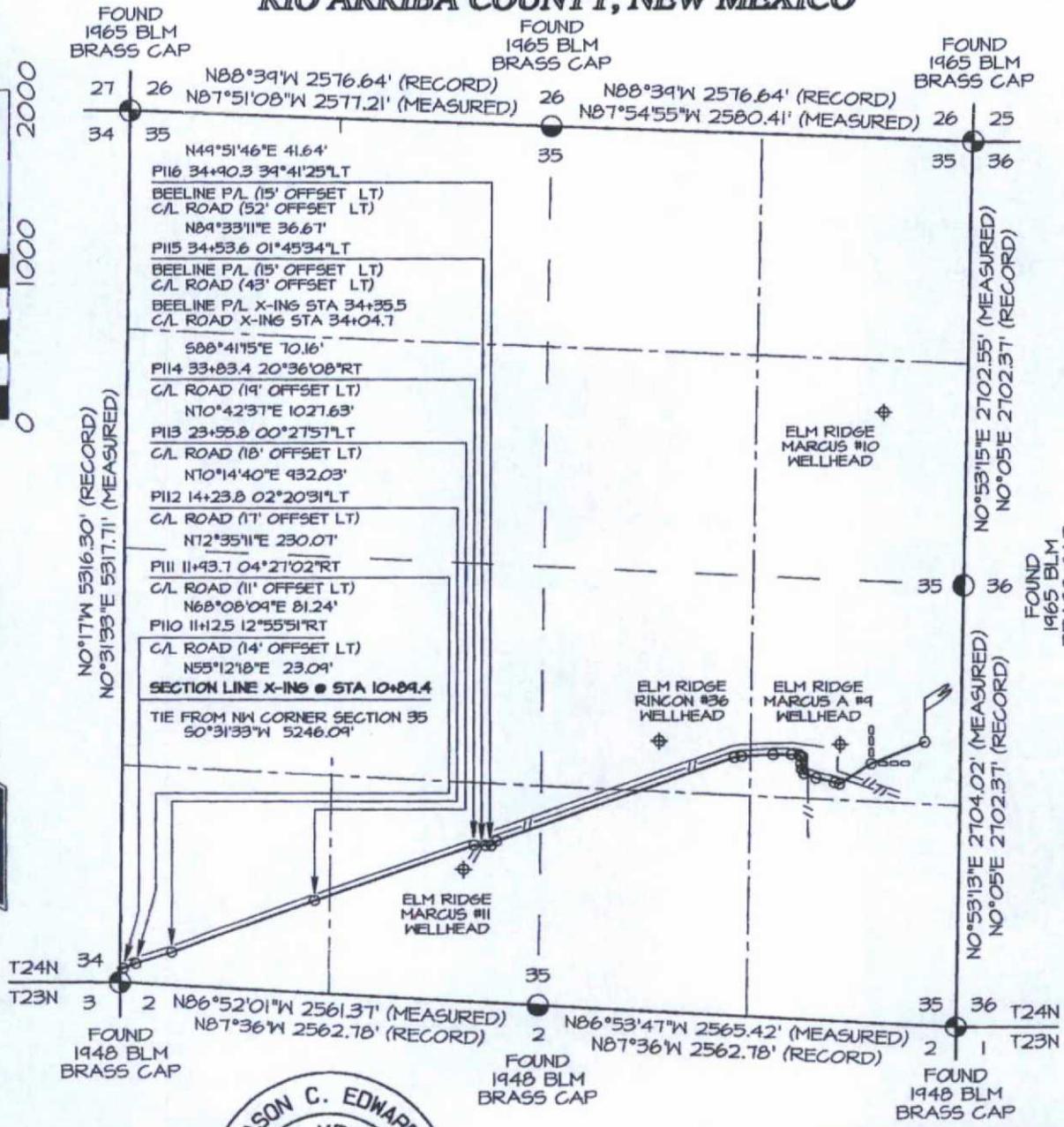
~ SURFACE OWNERSHIP ~ Bureau of Land Management	
9+91.6 TO 10+89.4	97.8 FT / 5.9 RODS

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

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

Prepared for: WPX ENERGY PRODUCTION P.O. BOX #640 AZTEC, NM 87410		Land Surveyor: Jason C. Edwards Mailing Address: Post Office Box 6612 Farmington, NM 87499 Business Address: 111 East Pinon Street Farmington, NM 87402 (505) 486-1695 (Office) ncesurveys@qwestoffice.net	CHECKED: JCE DRAWN BY: EDO
	SURVEYS, INC.		SHEET 5 OF 10 FILENAME: 2473MP62

**WPX ENERGY PRODUCTION, LLC MC 6 COM #901H
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 NW4 NW4 OF SECTION 6, T23N, R6W



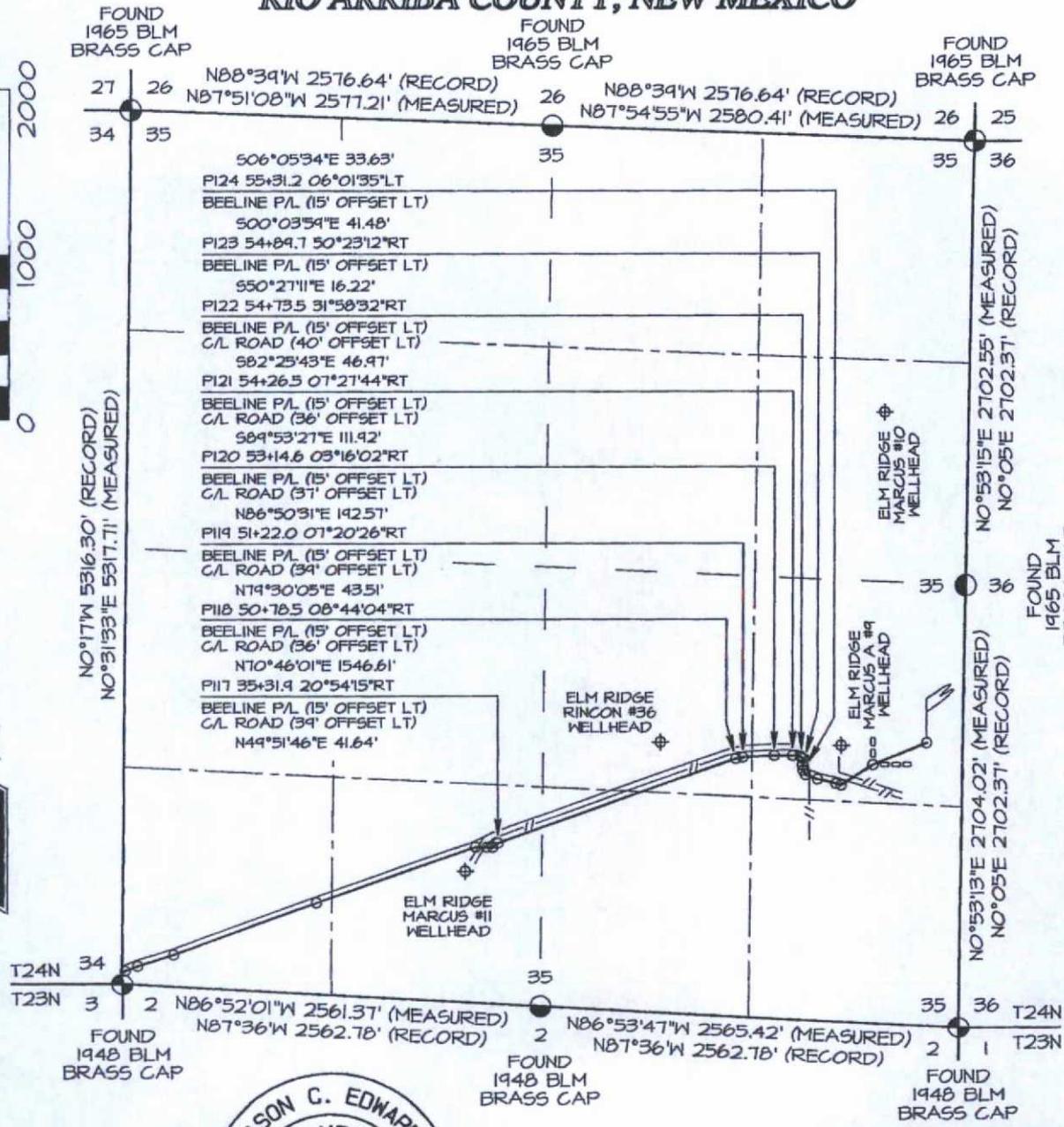
~ SURFACE OWNERSHIP ~ Bureau of Land Management	
10+89.4 TO 64+04.1	5314.7 FT / 322.1 RODS

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.

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		SURVEYS, INC.	

**WPX ENERGY PRODUCTION, LLC MC 6 COM #901H
PROPOSED PIPELINE SURVEY LOCATED IN THE
S/2 OF SECTION 35, T24N, R7W, N.M.P.M.
RIO ARriba COUNTY, NEW MEXICO**



FOUND 1965 BLM BRASS CAP 27 26 N88°39'W 2576.64' (RECORD)
N87°51'08\"W 2577.21' (MEASURED) 26 25
FOUND 1965 BLM BRASS CAP N88°39'W 2576.64' (RECORD)
N87°54'55\"W 2580.41' (MEASURED) 26 25

506°05'34\"E 33.63'
P124 55+31.2 06°01'35\"LT
BEELINE P/L (15' OFFSET LT)
500°03'54\"E 41.48'
P123 54+84.7 50°23'12\"RT
BEELINE P/L (15' OFFSET LT)
550°27'11\"E 16.22'
P122 54+73.5 31°58'32\"RT
BEELINE P/L (15' OFFSET LT)
C/L ROAD (40' OFFSET LT)
582°23'43\"E 46.97'
P121 54+26.5 07°21'44\"RT
BEELINE P/L (15' OFFSET LT)
C/L ROAD (36' OFFSET LT)
589°53'27\"E 111.92'
P120 53+14.6 03°16'02\"RT
BEELINE P/L (15' OFFSET LT)
C/L ROAD (37' OFFSET LT)
N86°50'31\"E 192.57'
P119 51+22.0 07°20'26\"RT
BEELINE P/L (15' OFFSET LT)
C/L ROAD (34' OFFSET LT)
N79°30'05\"E 43.51'
P118 50+78.5 08°44'04\"RT
BEELINE P/L (15' OFFSET LT)
C/L ROAD (36' OFFSET LT)
N70°46'01\"E 1546.61'
P117 35+31.9 20°54'15\"RT
BEELINE P/L (15' OFFSET LT)
C/L ROAD (34' OFFSET LT)
N49°51'46\"E 41.64'

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

ELM RIDGE MARCUS #11 WELLHEAD
ELM RIDGE MARCUS #10 WELLHEAD
ELM RIDGE MARCUS A #9 WELLHEAD
ELM RIDGE RINCON #36 WELLHEAD

FOUND 1965 BLM BRASS CAP 35 36
NO°53'15\"E 2702.55' (MEASURED)
NO°05'E 2702.37' (RECORD)

FOUND 1965 BLM BRASS CAP 35 36
NO°53'13\"E 2704.02' (MEASURED)
NO°05'E 2702.37' (RECORD)

FOUND 1448 BLM BRASS CAP 34 35
N86°52'01\"W 2561.37' (MEASURED)
N87°36'W 2562.78' (RECORD)

FOUND 1448 BLM BRASS CAP 35 36
N86°53'47\"W 2565.42' (MEASURED)
N87°36'W 2562.78' (RECORD)

FOUND 1448 BLM BRASS CAP 35 36

BASIS OF BEARING:

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

PLAT NOTE:

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



~ SURFACE OWNERSHIP ~ Bureau of Land Management	
10+89.4 TO 64+04.1	5314.7 FT / 322.1 RODS

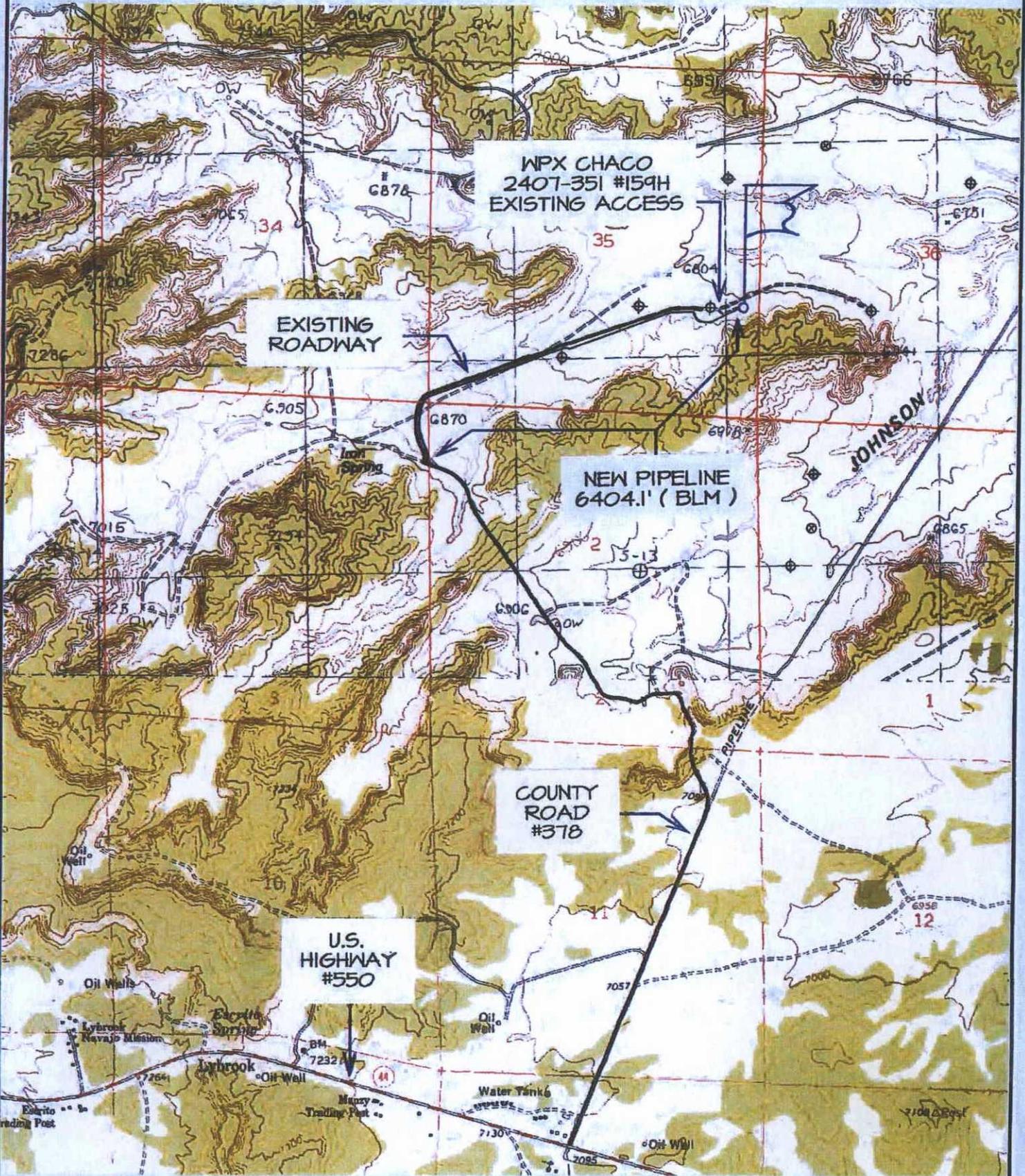
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JASON C. EDWARDS Date: November 19, 2015
Jason C. Edwards
New Mexico LS #15269

Prepared for: WPX ENERGY PRODUCTION P.O. BOX #640 AZTEC, NM 87410	 SURVEYS, INC.	Land Surveyor: Jason C. Edwards Mailing Address: Post Office Box 6612 Farmington, NM 87499 Business Address: 111 East Pinon Street Farmington, NM 87402 (505) 486-1695 (Office) nceesurveys@questoffice.net	CHECKED: JCE DRAWN BY: EDO
	SHEET 7 OF 10 FILENAME: 24155P64		

WPX ENERGY PRODUCTION, LLC MC 6 COM #901H

1734' FSL & 225' 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 #901H

1734' FSL & 225' FEL, Section 35, T24N, R7W, N.M.P.M., Rio Arriba County, NM

Latitude: 36.266009°N Longitude: 107.537500°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 #901H 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 #901H **Surface:** BLM
SH Location: NESE Sec 35-24N-07W **Elevation:** 6806' GR
BH Location: NWNW Sec 35-24N-07W **Minerals:** FED

Measured Depth: 10,781.96'

I. GEOLOGY: SURFACE FORMATION - NACIMIENTO/ SAN JOSE

A. FORMATION TOPS (KB)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	1061	1059	POINT LOOKOUT	4198	4177
KIRTLAND	1369	1366	MANCOS	4459	4436
PICTURED CLIFFS	2048	2040	GALLUP	4875	4846
LEWIS	2120	2112	KICKOFF POINT	5,309.57	5,170.73
CHACRA	2379	2369	TOP TARGET	5499	5236
CLIFF HOUSE	3478	3461	LANDING POINT	5,697.89	5,286.00
MENEFEE	3530	3513	BASE TARGET	5,697.89	5,286.00
			TD	10,781.96	5,326.00

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"	5,697.89'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5547.89' - 10,781.96'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf. - 5547.89'	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 (513 sx /697 cuft /124 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (513 sx /697bbls).

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 #901H - Slot A3

Wellbore #1

Plan: Design #2 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 #901H (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 #901H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 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 #901H - 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 #2 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	309.99

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	
919.02	6.38	119.71	918.36	-8.80	15.41	2.00	2.00	0.00	119.71	
4,572.91	6.38	119.71	4,549.62	-210.06	368.08	0.00	0.00	0.00	0.00	
5,309.57	60.00	309.16	5,170.73	-5.57	129.01	9.00	7.28	-23.15	-171.07	Start 60 tan #901H 11
5,369.57	60.00	309.16	5,200.73	27.24	88.72	0.00	0.00	0.00	0.00	End 60 tan #901H 11I
5,534.14	74.81	309.16	5,263.78	122.93	-28.76	9.00	9.00	0.00	0.00	
5,697.89	89.55	309.16	5,286.00	225.09	-154.20	9.00	9.00	0.00	0.00	POE #901H 11Nov15
10,781.96	89.55	309.16	5,326.00	3,435.58	-4,096.14	0.00	0.00	0.00	0.00	BHL #901H 11Nov15

WPX
Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well MC 6 COM #901H (A3) - Slot A3
Company:	WPX Energy	TVD Reference:	KB @ 6831.00usft (Aztec 1000)
Project:	T24N R7W	MD Reference:	KB @ 6831.00usft (Aztec 1000)
Site:	Chaco 2407-351	North Reference:	True
Well:	MC 6 COM #901H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 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	0.00
345.00	0.00	0.00	345.00	0.00	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	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
919.02	6.38	119.71	918.36	-8.80	15.41	-17.46	2.00	2.00	0.00	0.00
Hold 6.38 Inclination										
1,000.00	6.38	119.71	998.84	-13.26	23.23	-26.31	0.00	0.00	0.00	0.00
1,500.00	6.38	119.71	1,495.74	-40.80	71.49	-80.99	0.00	0.00	0.00	0.00
2,000.00	6.38	119.71	1,992.65	-68.34	119.75	-135.66	0.00	0.00	0.00	0.00
2,500.00	6.38	119.71	2,489.55	-95.88	168.00	-190.34	0.00	0.00	0.00	0.00
3,000.00	6.38	119.71	2,986.45	-123.42	216.26	-245.01	0.00	0.00	0.00	0.00
3,500.00	6.38	119.71	3,483.35	-150.96	264.52	-299.68	0.00	0.00	0.00	0.00
4,000.00	6.38	119.71	3,980.26	-178.50	312.78	-354.36	0.00	0.00	0.00	0.00
4,500.00	6.38	119.71	4,477.16	-206.05	361.04	-409.03	0.00	0.00	0.00	0.00
4,572.91	6.38	119.71	4,549.82	-210.06	368.08	-417.01	0.00	0.00	0.00	0.00
Start Build DLS 9.00 TFO -171.07										
5,000.00	32.15	310.16	4,958.08	-146.12	299.25	-323.18	9.00	6.03	-39.70	0.00
5,309.57	60.00	309.16	5,170.73	-5.57	129.01	-102.42	9.00	9.00	-0.32	0.00
Hold 60.00 Inclination										
5,369.57	60.00	309.16	5,200.73	27.24	88.72	-50.47	0.00	0.00	0.00	0.00
Start Build DLS 9.00 TFO 0.00										
5,500.00	71.74	309.16	5,253.96	102.28	-3.42	68.35	9.00	9.00	0.00	0.00
5,534.14	74.81	309.16	5,263.78	122.93	-28.76	101.04	9.00	9.00	0.00	0.00
Start DLS 9.00 TFO 0.00										
5,697.89	89.55	309.16	5,286.00	225.09	-154.20	262.80	9.00	9.00	0.00	0.00
POE at 89.55 Inc 309.16 Deg										
5,698.00	89.55	309.16	5,286.00	225.16	-154.29	262.91	0.00	0.00	0.00	0.00
7"										
6,000.00	89.55	309.16	5,288.38	415.87	-388.45	564.87	0.00	0.00	0.00	0.00
6,500.00	89.55	309.16	5,292.31	731.61	-776.12	1,064.80	0.00	0.00	0.00	0.00
7,000.00	89.55	309.16	5,296.24	1,047.35	-1,163.80	1,564.73	0.00	0.00	0.00	0.00
7,500.00	89.55	309.16	5,300.18	1,363.09	-1,551.47	2,064.67	0.00	0.00	0.00	0.00
8,000.00	89.55	309.16	5,304.11	1,678.83	-1,939.15	2,564.60	0.00	0.00	0.00	0.00
8,500.00	89.55	309.16	5,308.05	1,994.57	-2,326.83	3,064.53	0.00	0.00	0.00	0.00
9,000.00	89.55	309.16	5,311.98	2,310.31	-2,714.50	3,564.46	0.00	0.00	0.00	0.00
9,500.00	89.55	309.16	5,315.91	2,626.05	-3,102.18	4,064.40	0.00	0.00	0.00	0.00
10,000.00	89.55	309.16	5,319.85	2,941.79	-3,489.85	4,564.33	0.00	0.00	0.00	0.00
10,500.00	89.55	309.16	5,323.78	3,257.53	-3,877.53	5,064.26	0.00	0.00	0.00	0.00
10,781.96	89.55	309.16	5,326.00	3,435.58	-4,096.14	5,346.18	0.00	0.00	0.00	0.00
TD at 10781.96										

WPX
Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well MC 6 COM #901H (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 #901H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2 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 #901H 11Nc - plan hits target center - Point	0.00	0.00	5,170.73	-5.57	129.01	1,916,193.24	587,518.85	36.265981	-107.536457
End 60 tan #901H 11No - plan hits target center - Point	0.00	0.00	5,200.73	27.24	88.72	1,916,225.92	587,478.46	36.266071	-107.536593
POE #901H 11Nov15 sa - plan hits target center - Point	0.00	0.00	5,286.00	225.09	-154.20	1,916,423.03	587,234.93	36.266614	-107.537417
BHL #901H 11Nov15 sai - plan hits target center - Point	0.00	0.00	5,326.00	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"	9.620	12.250	
5,698.00	5,286.00	7"	7.000	8.750	

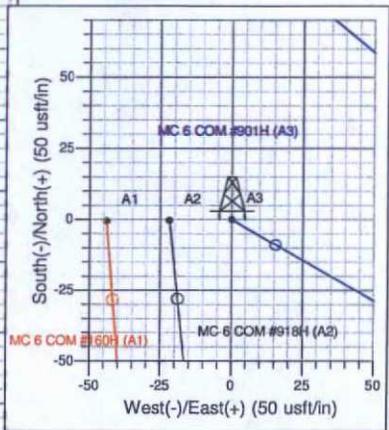
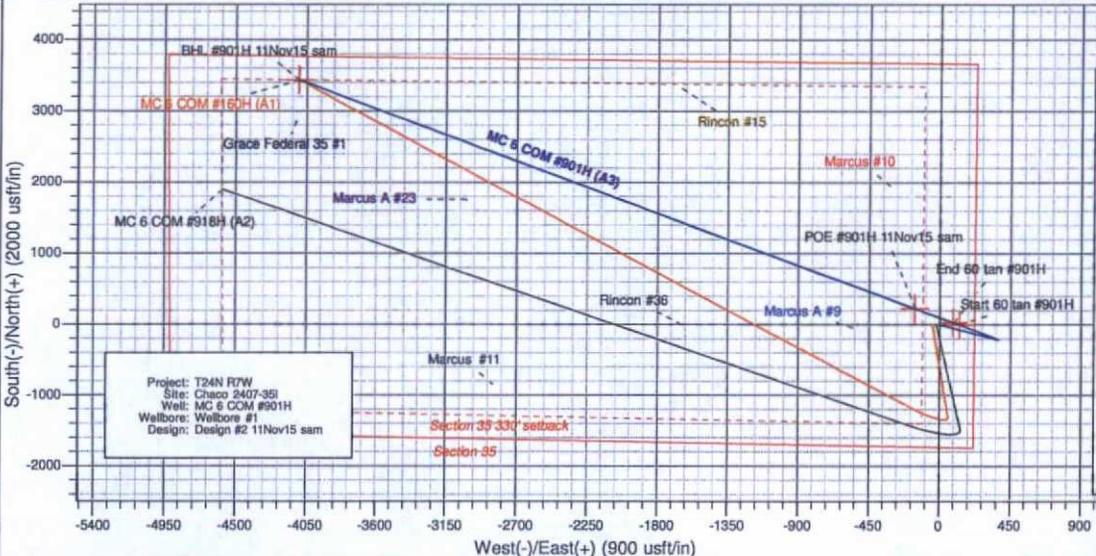
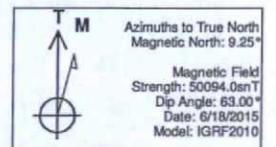
Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
600.00	600.00	0.00	0.00	Start Build 2.00	
919.02	918.36	-8.80	15.41	Hold 6.38 Inclination	
4,572.91	4,549.62	-210.06	368.08	Start Build DLS 9.00 TFO -171.07	
5,309.57	5,170.73	-5.57	129.01	Hold 60.00 Inclination	
5,369.57	5,200.73	27.24	88.72	Start Build DLS 9.00 TFO 0.00	
5,534.14	5,263.78	122.93	-28.76	Start DLS 9.00 TFO 0.00	
5,697.89	5,286.00	225.09	-154.20	POE at 89.55 Inc 309.16 Deg	
10,781.96	5,326.00	3,435.58	-4,096.14	TD at 10781.96	

OIL CONS. DIV DIST. 3

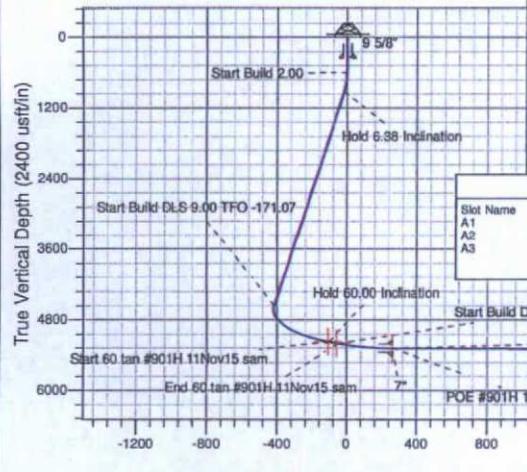
NOV 30 2015



Well Name: MC 6 COM #901H
 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 0.00 +E/-W 0.00 Northing 1916198.41 Easting 587389.82 Latitude 36.265996 Longitude -107.536894 Slot A3
 KB @ 6831.00usft (Aztec 1000)



Project: T24N R7W
 Site: Chaco 2407-351
 Well: MC 6 COM #901H
 Wellbore: Wellbore #1
 Design: Design #2 11Nov15 sam



DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Start 60 tan #901H 11Nov15 sam	5170.73	-5.57	129.01	1916193.23	587518.85	36.265981	-107.536456	Point
End 60 tan #901H 11Nov15 sam	5200.73	27.24	88.72	1916225.92	587478.46	36.266071	-107.536593	Point
POE #901H 11Nov15 sam	5286.00	225.09	-154.20	1916423.03	587234.93	36.266614	-107.537417	Point
BHL #901H 11Nov15 sam	5326.00	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	587368.01
A3	0.00	0.00	1916198.41	587389.82

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	
918.36	919.02	6.38	119.71	-8.80	15.41	-17.46	17.74	Hold 6.38 Inclination	
4548.62	4572.91	6.38	119.71	-210.06	308.09	-417.01	423.80	Start Build DLS 9.00 TFO -171.07	
5170.73	5309.57	60.00	309.16	-5.57	129.01	-102.42	747.22	Hold 60.00 Inclination	
5200.73	5389.57	60.00	309.16	27.24	88.72	-50.47	799.18	Start Build DLS 9.00 TFO 0.00	
5263.78	5534.14	74.81	309.16	122.93	-28.76	101.04	950.68	Start DLS 9.00 TFO 0.00	
5286.00	5697.89	89.55	309.16	225.09	-154.20	262.80	1112.46	POE at 89.55 Inc 309.16 Deg	
5326.00	10781.96	89.55	309.16	3435.58	-4096.14	5348.18	6196.37	TD at 10781.96	