Form 3160-5 (February 2005)

RECEIVED UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT 1 2 4 2015

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

SUNDICT	NOTICES AND REF	PORTS ON WEL	LS	NMSF0	Serial No. 78534
Do not use this	form for proposals Use Form 3160-3 (s to drill or to re-	enter and Office		an, Allottee or Tribe Name
	MIT IN TRIPLICATE - Of			7. If Unit	of CA/Agreement, Name and/or No
1. Type of Well				NMNM1	34944
Мочии Па	Поч				Jame and No. com #160H
Oil Well G	Gas Well Other			9. API W	
WPX Energy Production, LLC				30-039-3	31312
3a. Address PO Box 640 Aztec, NM		3b. Phone No. (incli 505-333-1816	ude area code)		d and Pool or Exploratory Area K Gallup/Basin Mancos
4. Location of Well <i>(Footage, Sec</i> SHL: 1732' FSL & 269' FEL SE BHL: 330' FNL & 825' FWL SE	C 35 24N 7W	iption)		The second second	try or Parish, State iba, NM
12. CHECK	THE APPROPRIATE BOX	(ES) TO INDICATE N	NATURE OF NOTIO	CE, REPORT OF	R OTHER DATA
TYPE OF SUBMISSION			TYPE OF ACT	ION	
Notice of Intent	Acidize	Deepen	the same of the sa	Production t/Resume)	Water Shut-Off
	Alter Casing Casing Repair	Fracture Treat		Reclamation Recomplete	Well Integrity Other LATERAL
Subsequent Report	Change Plans	Plug and Abar	naon	Temporarily	CHANGE
Final Abandonment Notice	Convert to Injection	Plug Back		Water Disposal	<u>السلط المسماد</u> الأرا
	al, a Form 3160-4 must be fi	iled once testing has bee	en completed. Final	Abandonment N site is ready for i	
	46	of the lateral I	In dead alter	-41	
WPX requests to chan	ge the orientation	of the lateral.	Updated dire	ctional,ops	plans and C102 are
WPX requests to chan	ge the orientation OIL CONS. D	DIV DIST. 3	BLM'S APPI ACTION DO OPERATOR	ROVAL OR ACCES NOT RELI	CEPTANCE OF THIS EVE THE LESSEE AND NING ANY OTHER
WPX requests to chan	OIL CONS. D	DIV DIST. 3	BLM'S APPI ACTION DO OPERATOR AUTHORIZA	ROVAL OR ACCES NOT RELI	CEPTANCE OF THIS EVE THE LESSEE AND NING ANY OTHER RED FOR OPERATIONS
WPX requests to chan attached. 14. I hereby certify that the foregoin	OIL CONS. D	DIV DIST. 3	BLM'S APPI ACTION DO OPERATOR AUTHORIZA	ROVAL OR AC DES NOT RELI FROM OBTAI ATION REQUI	CEPTANCE OF THIS EVE THE LESSEE AND NING ANY OTHER RED FOR OPERATIONS
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WPX requests to chan attached. 14. Thereby certify that the foregoin Name (Printed/Typed) Lacey Granillo	OIL CONS. D NOV 3	0 2015	BLM'S APPI ACTION DO OPERATOR AUTHORIZA ON FEDERA Title Permi	ROVAL OR AC DES NOT RELI FROM OBTAI ATTON REQUI AL AND INDIA itting Tech III	CEPTANCE OF THIS EVE THE LESSEE AND NING ANY OTHER RED FOR OPERATIONS

(Instructions on page 2)

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

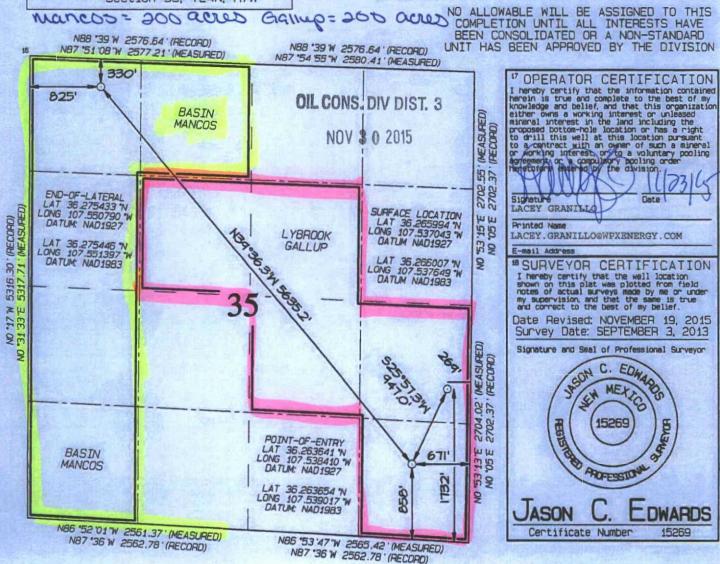
1220 South St. Francis Drive Santa Fe, NM 87505 AMENDED REPORT

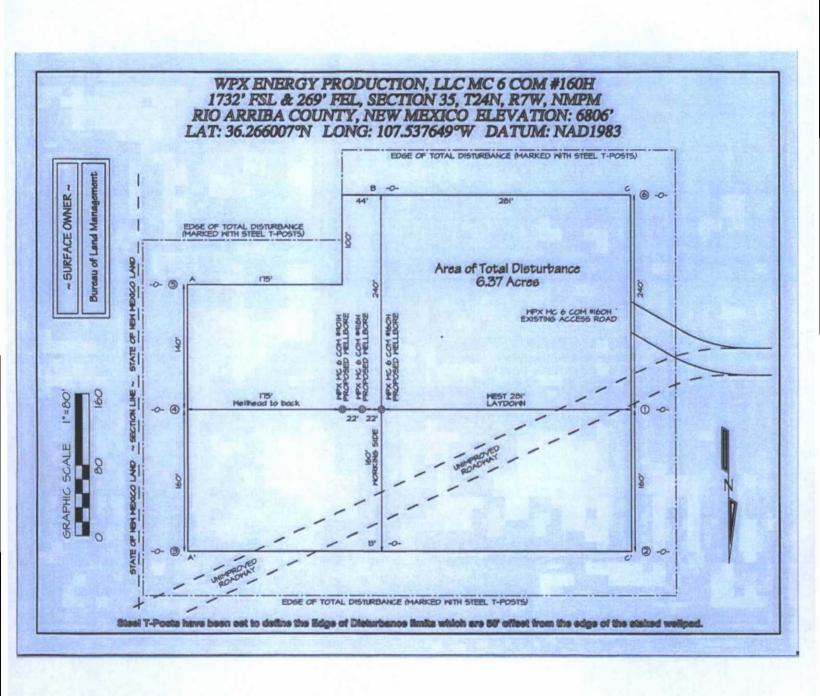
REALIGN LATERAL

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API 30-039-313	Number 312		972	*Pool Cod	2289	BASIN MA	Pool Name ANCOS / LY	and the same	K GALLUP		
'Property Co 315094	ode				*Property MC 5					11 Number 160H	
'OGRID No.				WPX	*Operator ENERGY PRO	Name ODUCTION, LLC				levation 6806	
		Samuel .	The second		10 Surface	Location					
UL or lot no.	Section 35	Township 24N	Range 7W	Lot Idn	Feet from the	SOUTH	Feet from the 269	2	ST	RIO ARRIBA	
			1 Botto	m Hole	Location I	f Different F	rom Surfac	e			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/N	est line	County	

RIO D 35 24N 7W 330 NORTH 825 WEST ARRIBA S Order No. Dedicated Acres Daint or Infill 14 Commolidation Code N/2 SE/4, SE/4 SE/4, NW/4 400.0 SW/4 NE/4, W/2 SW/4 Section 35, T24N, R7W





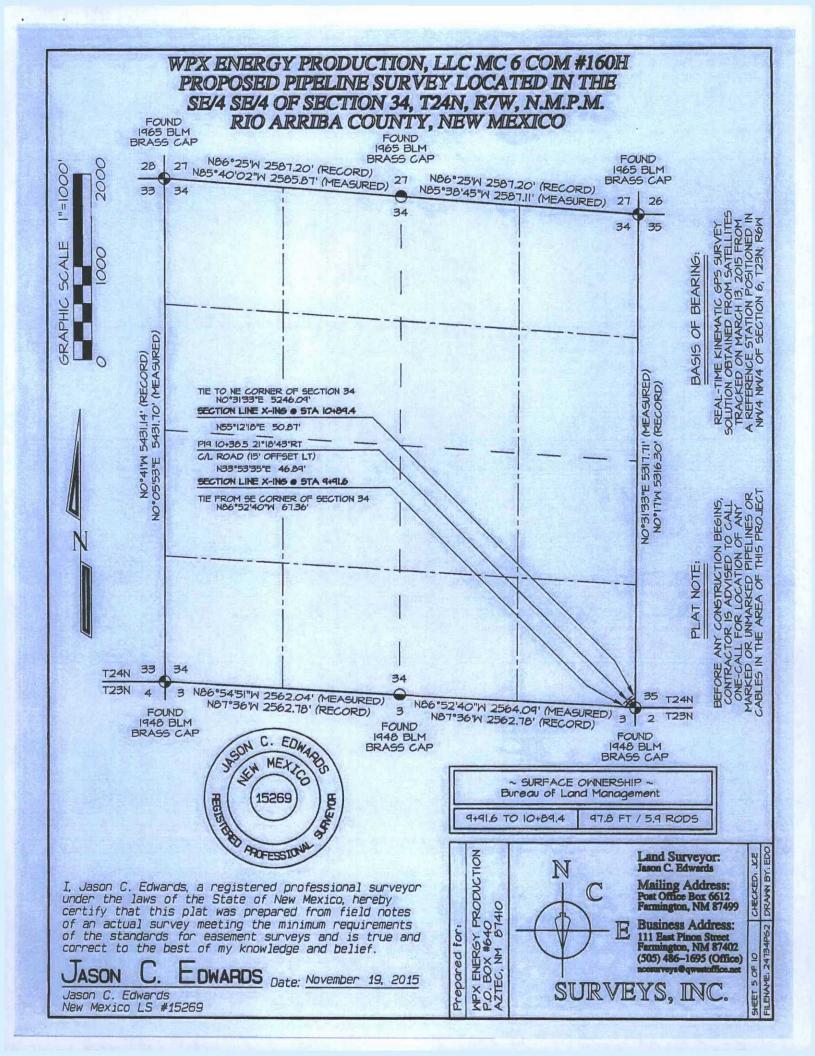
WPX ENERGY PRODUCTION, LLC MC 6 COM #160H 1732' FSL & 269' FEL, SECTION 35, T24N, R7W, NMPM RIO ARRIBA COUNTY, NEW MEXICO ELEVATION: 6806'

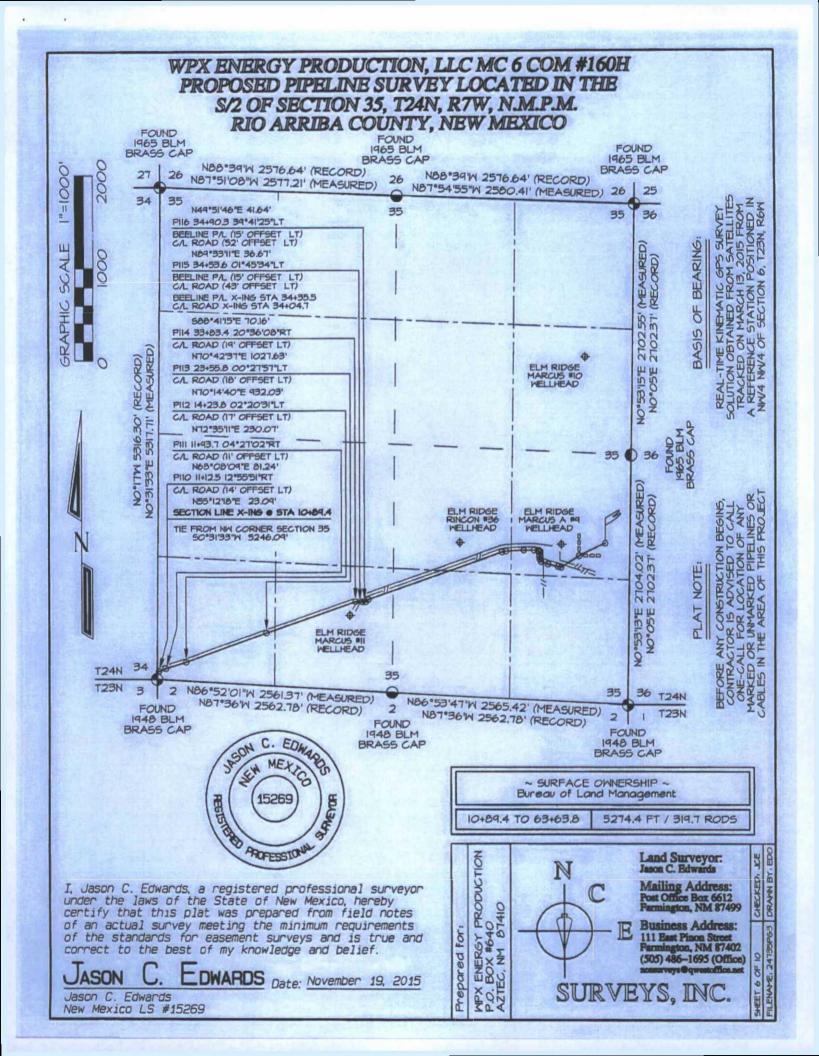
	HORIZONT	AL SCALE			ΛL	VERTICAL S	CALE
A-A'							
6816'		San Street					
6806'	Manage						
6796'							
				C	/L		
В-В'							
6816'		/ · · · · ·			=		
6806'							
6796'							
			CHEET.	C	/L		
C-C'							
6816'	EWAL SALES						
6806'							
6796'							

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

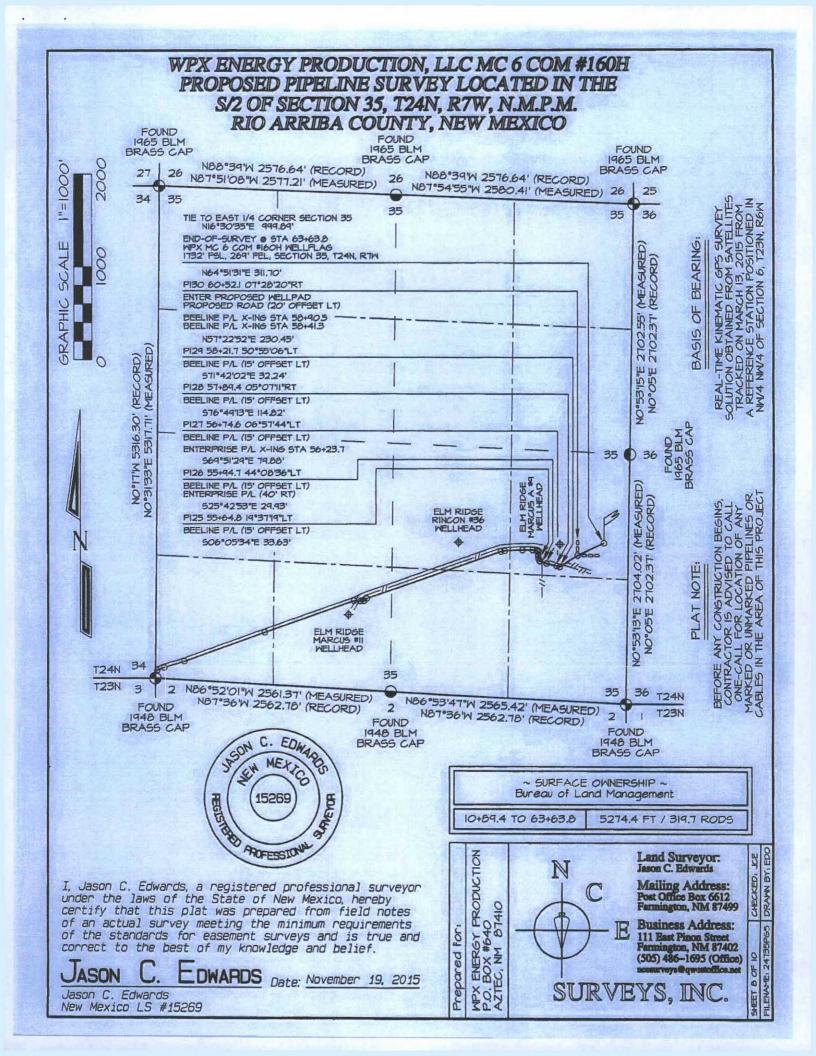
CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

WPX ENERGY PRODUCTION, LLC MC 6 COM #160H PROPOSED PIPELINE SURVEY LOCATED IN THE NE/4 NE/4 OF SECTION 3, T23N, R7W, N.M.P.M. RIO ARRIBA COUNTY. NEW MEXICO FOUND 1948 BLM BRASS CAP 1948 BLM FOUND 1948 BLM BRASS CAP N87°36'W 2562.78' (RECORD) 33 34 N86°54'51"W 2562.04' (MEASURED) BRASS CAP T24N N87°36'W 2562.78' (RECORD) 34 N86°52'40"W 2564.09' (MEASURED) 34 T23N 3 35 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, R6M T24N LOT 3 3 (RECORD) (MEASURED) LOT 4 T23N 2 TIE TO NE CORNER OF SECTION 3 586°52'40"E 67.36' BEARING (RECORD) SECTION LINE X-ING @ STA 9+91.6 N33°53'35"E 41.46" PIB 9+50.1 10°17'20"RT 2542.48' (2553.48' (C/L ROAD (16' OFFSET LT) LOT OF N23°36'15"E 141.89" 2616.05' PIT 8+083 |7°21'22"RT BASIS CAL ROAD (15' OFFSET LT) M'06'ION W"TE'25'ON NO6°14'53"E 85.89 PI6 7+22.4 12°45'29"RT NO°36'55"W NO°24'W C/L ROAD (15' OFFSET LT) NO6"30'36"W 209.83" PI5 5+12.5 06°34'01"RT FOUND 1948 BLM BRASS CAP CAL ROAD (17' OFFSET LT) NI3°04'37"W 150.04" FOUND 1948 BLM BRASS CAP 4 3 PI4 3+62.5 09°17'48"RT C/L ROAD (17' OFFSET LT) N22°22'25"W 211.76 (MEASURED) 3 2 PI3 1+50.7 12°04'13"LT (RECORD) C/L ROAD (16' OFFSET LT) (MEASURED) (RECORD) NIO 1812"W 43.77 2000 =1000 BEFORE ANY CONSTRUCTION BEGINS, CONTRACTOR IS ADVISED TO CALL ONE-CATION OF ANY MARKED OR UNMARKED PIPEL INES OR CABLES IN THE AREA OF THIS PROJECT PI2 1+07.0 10°56'01"LT CAL ROAD (13' OFFSET LT) LOT 2542.48' NOO°37'49"F 48 27" PII 0+58.7 25*19'33"LT CAL ROAD (14' OFFSET LT) 0.37126"M 2604.08' NOI"24"M 2607.00' CA ROAD X-ING STA 0+226 NOº 46'23"W N25°57'22"E 58.69" NOTE BEGIN SURVEY @ STA 0+00 STA 190+18.6 ON WPX ENERGY PRODUCTION CHACO TRUNK #4 EXT 3 PRELIM SURVEY 000 4 50 PLAT NO.37'26"W FROM EAST 1/4 CORNER SECTION 3 NO2°12'41"W 1676.45' LOT GRAPHIC LOT LOT 10 4 3 3 N85°28'18"W 2563.16' (MEASURED) 10 N86°16'W 2564.43' (RECORD) 3 N85°26'32"W 2562.II' (MEASURED) 2 FOUND 10 N86°16'W 2564.43' (RECORD) 1948 BLM FOUND 10 BRASS CAP 1948 BLM EDWARDS FOUND 1948 BLM JASON BRASS CAP C. BRASS CAP JEW. SURFACE OWNERSHIP ~ REGISTER SAMETOR Bureau of Land Management 15269 0+00 TO 9+91.6 991.6 FT / 60.1 RODS APOFESSTOWN DRAWN BY, EDO Land Surveyor: **PRODUCTION** CHICKED, JOE N Jason C. Edwards I, Jason C. Edwards, a registered professional surveyor under the laws of the State of New Mexico, hereby Mailing Address: Post Office Box 6612 Farmington, NM 87499 #640 M 81410 certify that this plat was prepared from field notes **Business Address:** of an actual survey meeting the minimum requirements for: MPX ENERGY F P.O. BOX #64C AZTEC, NM B1 SHEET 4 OF 10 FILENAME, 2373PGI 111 East Pinon Street Farmington, NM 87402 of the standards for easement surveys and is true and correct to the best of my knowledge and belief. (505) 486-1695 (Office) Prepared DWARDS Date: November 19, 2015 ASON SURVEYS, INC Jason C. Edwards New Mexico LS #15269





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 FOUND 1965 BLM FOUND 1965 BLM 1965 BLM BRASS CAP BRASS CAP 2000 N88°39'W 2576.64' (RECORD) BRASS CAP 1"=1000 27 26 N86°39'W 2576.64' (RECORD) N87°51'08"W 2577.21' (MEASURED) 26 N87°54'55"W 2580.41' (MEASURED) 25 26 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, R6M 34 35 35 506°05'34"E 33.63" 36 PI24 55+31.2 06°01'95"LT BEELINE PAL (15' OFFSET LT) (MEASURED) (RECORD) BEARING Ш 500°03'59"E 41.48" 000 SCAL PI23 54+89.7 50°23'12"RT BEELINE PAL (15' OFFSET LT) 550°27'II"E 16.22 PI22 54+73.5 31°58'32"RT GRAPHIC BEELINE PAL (15' OFFSET LT) BASIS OF 2702.55 582°25'43"E 46,97" PI2I 54+26.5 07°27'44"RT BEELINE PAL (15' OFFSET LT) CAL ROAD (36' OFFSET LT) (MEASURED, 0 (RECORD, NO°53'15"E PARCUS #10 589°53'27"E III.92" PI20 53+14.6 03°16'02"RT BEELINE PAL (15' OFFSET LT) N86°50'31"E 192.57" 5316.30 11.TIES FOUND 1965 BLM BRASS CAP PII9 51+22.0 07°20'26"RT BEELINE PAL (15' OFFSET LT) CAL ROAD (39' OFFSET LT) 35 36 NT9°30'05"E 43.51" 133"E MILI-ON PIIB 50+78.5 08*44'04"RT BEELINE PAL (15' OFFSET LT) (RECORD) No all 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 N70°46'01"E 1546.61" PII7 35+31,9 20°54'15'RT BEELINE P/L (15' OFFSET LT) N49°51'46"E 41.64" 2704.02 2702.37 NOTE NO°53'13"E PLAT ELM RIDGE MARCUS #II WELLHEAD 34 T24N 35 T23N 2 N86°52'01"W 2561.37' (MEASURED) 3 36 T24N N87°36'W 2562.78' (RECORD) N86°53'47"W 2565.42' (MEASURED) FOUND 1948 BLM N87°36'W 2562.78' (RECORD) FOUND BRASS CAP EDWARDS FOUND 1948 BLM JASON 1948 BLM C BRASS CAP BRASS CAP MEXICO JEW. ~ SURFACE OWNERSHIP ~ WANEYOR REGISTERED Bureau of Land Management 10+89.4 TO 63+63.8 5274.4 FT / 319.7 RODS AROFESSTOWN DRAWN BY, EDO Land Surveyor: **PRODUCTION** JCE N Jason C. Edwards CHECKED! Mailing Address: Post Office Box 6612 Farmington, NM 87499 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 MPX ENERGY PROD P.O. BOX #640 AZTEC, NM 87410 of an actual survey meeting the minimum requirements SHEET 7 OF 10 FILENAME: 24735P64 Business Address: for: 111 East Pinon Street Fermington, NM 87402 of the standards for easement surveys and is true and correct to the best of my knowledge and belief. (505) 486-1695 (Office) Prepared DWARDS Date: November 19, 2015 ASON SURVEYS, INC Jason C. Edwards New Mexico LS #15269



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 WPX CHACO 2407-351 #159H 6878 EXISTING ACCESS EXISTING ROADWAY 6905 G870 NEW PIPELINE 6363.8' (BLM) COUNTY ROAD #378 U.S. HIGHWAY #550 Water Tanks TOPO NAMES : LYBROOK & CROW MESA EAST ◆ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

<u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> 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)

Date:

November 17, 2015

Field:

Basin Mancos / Lybrook Gallup

Well Name:

MC 6 COM #160H

Surface:

BLM

SH Location:

NESE Sec 35-24N-07W

Elevation:

6806' GR

BH Location:

NWNW Sec 35-24N-07W

Minerals:

FED

Measured Depth: 11,765.61'

. GEOLOGY:

SURFACE FORMATION - NACIMIENTO/ SAN JOSE

A. FORMATION TOPS (KB)

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	5,743.31	5,397.24
CHACRA	2469	2396	TOP TARGET	5884	5463
CLIFF HOUSE	3631	3488	LANDING POINT	6,131.05	5,512.51
MENEFEE	3686	3540	BASE TARGET	6,131.05	5,512.51
COLD STATE			TD	11,765.61	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. <u>MUD PROGRAM:</u> LSND mud (WBM) will be used to drill the 12-1/4" Surface hole, the 8 %" 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. <u>BOP TESTING:</u> 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"	6,131.05'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5981.05' - 11,765.61	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf 5981.05'	4.5"	11.6 LBS	P-110 or equiv	LTC

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 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 (567 sx /770 cuft /137 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (567 sx /770bbls).

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. <u>Production Tubing:</u> 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 #160H - Slot A1

Wellbore #1

Plan: Design #2 11Nov15 sam

Standard Planning Report

12 November, 2015

WPX Planning Report

OIL CONS. DIV DIST. 3

NOV 3 0 2015

Database: Company: Project: Site: Well:

COMPASS WPX Energy **T24N R7W** Chaco 2407-351 MC 6 COM #160H Wellbore #1

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well MC 6 COM #160H (A1) - Slot A1 KB @ 6831.00usft (Aztec 1000) KB @ 6831.00usft (Aztec 1000)

True

Minimum Curvature

Design: Project

Wellbore:

T24N R7W

Map System: Geo Datum:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Design #2 11Nov15 sam

System Datum:

Mean Sea Level

Map Zone:

New Mexico West 3003

Site Chaco 2407-351

Site Position: From:

Lat/Long

Northing: Easting:

1,916,198.41 usft 587,389.82 usft

Latitude: Longitude:

36.265996 -107.536894

Position Uncertainty:

0.00 usft Slot Radius: 13,200 in Grid Convergence: 0.18°

Well

Well Position

MC 6 COM #160H - Slot A1

+N/-S +E/-W

-0.57 usft -43.92 usft

Northing: Easting:

Wellhead Elevation:

1,916,197.70 usft 587,345.90 usft

0.00 usft

Latitude: Longitude: Ground Level:

36.265995 -107.537043

Position Uncertainty

0.00 usft

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 #2 11Nov15 sam			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(bearing)
	0.00	0.00	0.00	310.30

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	P WEIGHT
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.89	20.02	175.49	1,580.65	-172,53	13.62	2.00	2.00	0.00	175.49	
4,890.74	20.02	175.49	4,671.75	-1,295.19	102.25	0.00	0.00	0.00	0.00	
5,743.31	60.00	319.63	5,397.24	-1,134.64	-166.85	9.00	4.69	16.91	148.59	Start 60 tan #160H 1
5,803.31	60.00	319.63	5,427.24	-1,095.05	-200.50	0.00	0.00	0.00	0.00	End 60 tan #160H 11
5,963.87	74.45	319.63	5,489.23	-982.55	-296.14	9.00	9.00	0.00	0.00	
6,131.05	89.50	319.63	5,512.51	-856.79	-403.05	9.00	9.00	0.00	0.01	POE #160H 11Nov15
11,765.61	89.50	319.63	5,562.00	3,436,15	-4,052.23	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

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well MC 6 COM #160H (A1) - Slot A1 KB @ 6831.00usft (Aztec 1000) KB @ 6831.00usft (Aztec 1000)

Iculation Method: Minimum Curvature

Design: Design #2 11Nov15 sam

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld 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"							THE RESERVE		
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	VIA-31								
1,000.00	8.00	175.49	998.70	-27.79	2.19	-19.65	2.00	2.00	0.00
1,500.00	18.00	175.49	1,485.27	-139.78	11.03	-98.82	2.00	2.00	0.00
1,600.89	20.02	175.49	1,580.65	-172.53	13.62	-121.98	2.00	2.00	0.00
Hold 20.02 lr	nclination				N PERM	Designation of the last			STATES THE
2,000.00	20.02	175.49	1,955.65	-308.73	24.37	-218.26	0.00	0.00	0.00
2,500.00	20.02	175.49	2,425.44	-479.36	37.84	-338.89	0.00	0.00	0.00
3,000.00	20.02	175.49	2,895.24	-649.98	51.31	-459.51	0.00	0.00	0.00
3,500.00	20.02	175.49	3,365.03	-820.61	64.78	-580.13	0.00	0.00	0.00
4,000.00	20.02	175.49	3,834.82	-991.23	78.25	-700.76	0.00	0.00	0.00
4,500.00	20.02	175.49	4,304.62	-1,161.86	91.72	-821.38	0.00	0.00	0.00
4,890.74	20.02	175.49	4,671.75	-1,295.19	102.25	-915.65	0.00	0.00	0.00
Start Build D	LS 9.00 TFO 14	8.59		TO THE REAL PROPERTY.				12.00	15.0
5,000.00	12.66	199.44	4,776.64	-1,325.20	99.73	-933.14	9.00	-6.73	21.93
5,500.00	38.74	312.58	5,239.60	-1,268.05	-41.02	-788.82	9.00	5.22	22.63
5,743.31	60.00	319.63	5,397.24	-1,134.64	-166.85	-606.57	9.00	8.74	2.90
Hold 60.00 In								religibles	THE RESIDENCE OF THE PARTY OF T
5,803.31	60.00	319.63	5,427.24	-1,095.05	-200.50	-555.30	0.00	0.00	0.00
154.50.50.00	LS 9.00 TFO 0.0			CALL SOUTH		Links Kalen			
5,963.87	74.45	319.63	5,489.23	-982.55	-296.14	-409.60	9.00	9.00	0.00
Start DLS 9.0	Alleran			THE PARTY OF THE PARTY.	EN-SVESTILLE		WINE	CHECK THE PARTY	THE CONTRACTOR
6,000.00	77.70	319.63	5,497.93	-955.84	-318.85	-375.00	9.00	9,00	0.00
The state of the s			1000						
6,131.00	89.49	319.63	5,512.51	-856.82	-403.01	-246.77	9.00	9.00	0.00
7"	00.55	040.00	5.540.54	050.70	400.05	040.70	0.00	0.00	Ballery King
6,131.05	89.50	319.63	5,512.51	-856.79	-403.05	-246.72	9.00	9.00	0.00
	Inc 319.63 Deg			F7F 00	044.60	447.00	0.00	0.00	
6,500.00 7,000.00	89.50 89.50	319.63 319.63	5,515.75 5,520.14	-575.69 -194.74	-641.99 -965.81	117.33 610.68	0.00	0.00	0.00
7,500.00	89.50	319.63	5,524.53	186.21	-1,289.64	1,104.04	0.00	0.00	0.00
8,000.00	89.50	319.63	5,528.93	567.15	-1,613.46	1,597.40	0.00	0.00	0.00
8,500.00	89.50	319.63	5,533.32	948.10	-1,937.28	2,090.75	0.00	0.00	0.00
9,000.00	89.50	319.63	5,537.71	1,329.05	-2,261.10	2,584.11	0.00	0.00	0.00
9,500.00	89.50 89.50	319.63 319.63	5,542.10	1,710.00	-2,584.92	3,077.46	0.00	0.00	0.00
10,000.00			5,546.49	2,090.94	-2,908.74	3,570.82	0.00		0.00
10,500.00	89.50	319.63	5,550.88	2,471.89	-3,232.56	4,064.18	0.00	0.00	0.00
11,000.00	89.50	319.63	5,555.28	2,852.84	-3,556.38	4,557.53	0.00	0.00	0.00
11,500.00	89.50	319.63	5,559.67	3,233.78	-3,880.20	5,050.89	0.00	0.00	0.00
11,765.61	89.50	319.63	5,562.00	3,436.15	-4,052.23	5,312.97	0.00	0.00	0.00

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 #2 11Nov15 sam

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well MC 6 COM #160H (A1) - Slot A1 KB @ 6831.00usft (Aztec 1000) KB @ 6831.00usft (Aztec 1000) True

Minimum Curvature

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (bearing	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 tan #160H 11Nc - plan hits target cent - Point	0.00 er	0.00	5,397.24	-1,134.64	-166.85	1,915,062.56	587,182.52	36.262878	-107.537609
End 60 tan #160H 11No - plan hits target cent - Point	0.00 er	0.00	5,427.24	-1,095.05	-200.51	1,915,102.04	587,148.74	36.262986	-107.537723
POE #160H 11Nov15 sa - plan hits target cent - Point	0.00 er	0.00	5,512.51	-856.79	-403.05	1,915,339.69	586,945.48	36.263641	-107.538410
BHL #160H 11Nov15 sai - plan hits target cent - Point	0.00 er	0.00	5,562.00	3,436.15	-4,052.23	1,919,621.44	583,283.18	36.275433	-107.550791

asing 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
	6,131.00	5,512.51	7"		7.000	8.750

Measured	Vertical	Local Coor	dinates		
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
600.00	600.00	0.00	0.00	Start Build 2.00	11.
1,600.89	1,580.65	-172.53	13.62	Hold 20.02 Inclination	
4,890.74	4,671.75	-1,295.19	102.25	Start Build DLS 9.00 TFO 148.59	
5,743.31	5,397.24	-1,134.64	-166.85	Hold 60.00 Inclination	
5,803.31	5,427.24	-1,095.05	-200.50	Start Build DLS 9.00 TFO 0.00	
5,963.87	5,489.23	-982.55	-296.14	Start DLS 9.00 TFO 0.01	
6,131.05	5,512.51	-856.79	-403.05	POE at 89.50 Inc 319.63 Deg	
11,765.61	5,562.00	3,436,15	-4,052.23	TD at 11765.61	

OIL CONS. DIV DIST. 3

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