

DATE IN 4/24/14	SUSPENSE	ENGINEER WAM	LOGGED IN 6/18/2014	TYPE WSC	APP NO. DUA1416443512
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

[NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
☒ NSL ☐ NSP ☐ SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR
- [D] Other: Specify _____
- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or X Does Not Apply
- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☐ Waivers are Attached
- [3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**
- [4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Larry Higgins
Print or Type Name

Larry Higgins
Signature

Regulatory Specialist
Title

4/23/2014
Date

Larry.higgins@wpenergy.com
e-mail Address

Chaco 2306-19ME #190H
API #30-043-21189



Sent via Overnight Delivery

April 23, 2014

Jami Bailey
Division Director
NEW MEXICO OIL CONSERVATION DIVISION
1220 South Saint Francis Drive
Santa Fe, NM 87505

*Re: Request for Administrative Approval for Non-Standard Lybrook Gallup Lateral
Chaco 2306-19M #190H
API#: 30-043-21189
Sec. 19, T23N, R6W*

Dear Ms. Bailey:

WPX Energy Production, LLC ("WPX"), pursuant to the provisions of Division Rule 19.15.15.13, hereby seeks administrative approval of an unorthodox location for the Lybrook Gallup (42289) formation in the Chaco 2306-19M #190H. This is a horizontal well with a surface location of 1205' FSL and 243' FWL, Section 19, T23N, R6W and an end of lateral location of 1582' FSL & 230' FWL, Section 24, T23N, R7W. See attached plat.

This location is governed by statewide Rule 15.9.A [19.15.15.9.A NMAC], which provides for 40-acre units, with wells located at least 330 feet from a unit outer boundary. Initially the Lybrook Gallup Pool was set up with Special Pool Rules under Order No. R-2267 but these rules were later abolished with Order No. R-2267-B. The new Special Rules for Horizontal Wells under Division Rule 19.15.16.15(B)(3) also apply and state no internal setbacks are required within a project area. Given these setback requirements, the producing interval in the lateral is encroaching the S/2 of the S/2 of Section 24, T23N R7W in that it is approximately 33' from the unit boundary.

The spacing for the subject well is the N/2 of the S/2 of section 24 consisting of 4 consecutive parcels containing 40 acres more or less and totaling 160 acres. The spacing unit being encroached upon is the S/2 of the S/2 of Section 24 also consisting of 4 consecutive parcels containing 160 acres. All of Section 24 is operated by WPX and ownership is 100% WPX therefore no affected owner letters are required pursuant to NMOCD rules.



Please note that the maximum perforation range for the lateral will from 5,911' MD to 10,476' MD which are legal as to the east and west lines.

EAST LINE EXPLANATION: Referring to the plat, the Point of Entry is at 380' from the east line of Section 24 which correlates with approximately 5,909' MD. The top perforation is at 5,911' which is 2' past the Point of Entry so the distance from the east line for the perforation is 382'.

WEST LINE EXPLANATION: Our end of lateral is shown at 230' from the west line, which correlates to 10,577' MD. The deepest perforation would be the lower port in a RSI tool which would be set no deeper than 10,476' which correlates to 331' from the west line.

Note that the original bottom hole location for this well was 2206' FSL, 380' FWL, section 24, T23N, R7W. Attached is an approved Federal sundry (form 3160-5) changing the bottom hole for this well.

Should you have any questions or concerns, please don't hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "Larry Higgins".

Larry Higgins
Regulatory Specialist

Enc.: C-102
3160-5 (approved)

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) 748-1203 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number	*Pool Code	*Pool Name
30-043-21189	42289	LYBROOK GALLUP
*Property Code	*Property Name	*Well Number
39731	CHACO 2306-19M	190H
*OGRIID No.	*Operator Name	*Elevation
120782	WPX ENERGY PRODUCTION, LLC	7012'

10 Surface Location

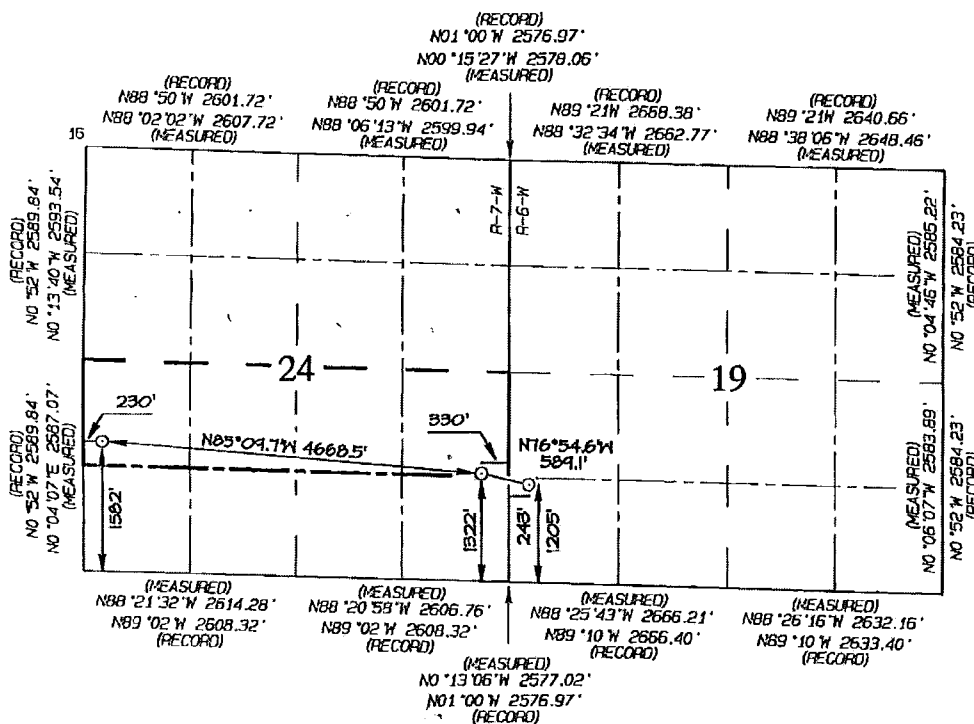
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	19	23N	6W		1205	SOUTH	243	WEST	SANDOVAL

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
L	24	23N	7W		1582	SOUTH	230	WEST	SANDOVAL

*Dedicated Acres	*Joint or Infill	*Consolidation Code	*Order No.
160.0 Acres N/2 S/2 - Section 24			

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



END-OF-LATERAL
1582' FSL 230' FWL
SECTION 24, T23N, R7W
LAT: 36.20859°N
LONG: 107.53455°W
DATUM: NAD1927

LAT: 36.20851°N
LONG: 107.53515°W
DATUM: NAD1983

POINT-OF-ENTRY
1322' FSL 330' FEL
SECTION 24, T23N, R7W
LAT: 36.20768°N
LONG: 107.51877°W
DATUM: NAD1927

LAT: 36.20769°N
LONG: 107.51937°W
DATUM: NAD1983

SURFACE LOCATION
1205' FSL 243' FWL
SECTION 19, T23N, R6W
LAT: 36.20733°N
LONG: 107.51682°W
DATUM: NAD1927

LAT: 36.20735°N
LONG: 107.51742°W
DATUM: NAD1983

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: *Larry Higgins* Date: 4/23/14
Larry Higgins

Printed Name
larry.higgins@wpxenergy.com

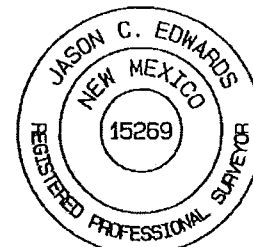
E-mail Address

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: APRIL 4, 2014
Survey Date: FEBRUARY 15, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APR 08 2014

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 ☒ Oil Well ☐ Gas Well ☐ Other		5. Lease Serial No. NMSF-078360
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) 505-333-1808	7. If Unit of CA/Agreement, Name and/or No.
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sur: 1205' FSL & 243' FWL, sec 19, T23N, R6W - BHL: 1582' FSL & 230' FWL, Sec 24, T23N, R7W		8. Well Name and No. Chaco 2306-19M #190H
		9. API Well No. 30-043-21189
		10. Field and Pool or Exploratory Area Lybrook Gallup
		11. Country or Parish, State Sandoval County, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Realign lateral
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ 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 recompleat 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 recompleat 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 plans to plans to realign the lateral on this well as per attached C-102, operations plan and directional plan. No new surface disturbance is required. 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.

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

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Larry Higgins		Title Regulatory Specialist
Signature <i>Larry Higgins</i>		Date 4/7/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>William Tambekou</i>	Petroleum Title Engineer	Date 4/9/2014
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)

RECEIVED

OPERATOR

APR 10 2014

WPX

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

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

Submit one copy to
Appropriate District Office

☐ AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

APR 08 2014

*API Number 30-043-21189		*Pool Code 42289	*Pool Name LYBROOK GALLUP Farmington Field Office
*Property Code 39731	*Property Name CHACO 2306-19M		Bureau of Land Management 190H
*OGAID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 7012'

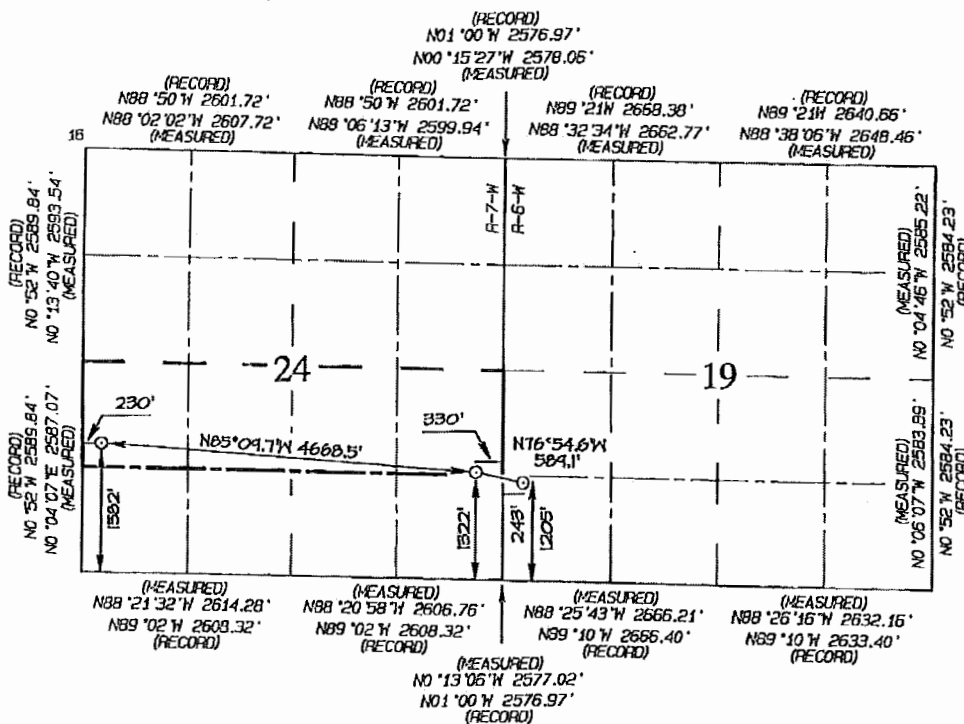
⁴⁰ Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	19	23N	6W		1205	SOUTH	243	WEST	SANDOVAL

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
L	24	23N	7W		1582	SOUTH	230	WEST	SANDOVAL
¹² Dedicated Acres 160.0 Acres N/2 S/2 - Section 24					¹³ Joint or Infill .		¹⁴ Consolidation Code .		¹⁵ Order No. .

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



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1582' FSL 230' FWL
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LAT: 36.20861°N
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DATUM: NAD1983

POINT-OF-ENTRY
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SECTION 24, T23N, R7W
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LONG: 107.51877°W
DATUM: NAD1927

LAT: 35.20769°N
LONG: 107.51937°W
DATUM: NAD1983

SURFACE LOCATION
1205' FSL 243' FWL
SECTION 19, T23N, R61W
LAT: 36.20733°N
LONG: 107.51682°W
DATUM: NAD1927

LAT: 36.20735°N
LONG: 107.51742°W
DATUM: NAD1983

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 Larry Higgins Date 4/7/14
Larry Higgins

Printed Name
larry.higgins@wpxenergy.com

E-mail Address _____

18 SURVEYOR CERTIFICATION

I hereby certify that the wall 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: APRIL 4, 2014
Survey Date: FEBRUARY 15, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

WPX ENERGY

WPX ENERGY

Operations Plan

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

DATE: 01/16/2014 **FIELD:** Lybrook (Gallup)
WELL NAME: Chaco 2306-19M #190H **SURFACE:** BLM
SH Location: SWSW Sec 19-23N-6W **ELEVATION:** 7,012' GR
BH Location: NWSW Sec 24-23N-7W **MINERALS:** BLM
Sandoval Co, NM
MEASURED DEPTH: 10,535' **LEASE #:** NMSF-078360

I. GEOLOGY: Surface formation – San Jose

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1392	1387	Point Lookout	4212	4204
Kirtland	1661	1654	Mancos	4408	4400
Picture Cliffs	1947	1939	Kickoff Point	4841	4833
Lewis	2022	2014	Top Target	5668	5456
Chacra	2352	2344	Landing Point	5909	5500
Cliff House	3440	3432	Base Target	5900	5500
Menefee	3480	3472			
			TD	10577	5445

- 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, the curve portion of the wellbore. 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.

NOTE: Vertical portion of the well (8-3/4 in.) will be directionally drilled as per attached Directional Plan to +/- 4,841' (MD) / 4,833' (TVD). Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 5,909' (MD) / 5,500' (TVD). 7 in. csg will be set at this point. A 6-1/8" Lateral will be drilled as per the attached Directional Plan to +/- 10,577' (MD) / 5,445' (TVD). Will run 4-1/2 in. Production Liner from +/- 5759 ft. to TD and cemented. Liner will be tied back to surface w / 4-1/2" Casing for stimulation / testing, then removed from the well.

III. MATERIALS**A. CASING PROGRAM:**

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12.25"	400'+	9 5/8	36#	J-55
Intermediate	8.75"	5,909'	7	23#	K-55
Prod. Liner	6.125"	5,759' - 10,577'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf. - 5,759'	4-1/2"	11.6#	N-80

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 2,700 ft., 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 + (2) RSI (Sliding Sleeves) positioned inside 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.
4. TIE-BACK CASING: None

C. CEMENTING:

(Note: Volumes may be adjusted onsite due to actual conditions)

1. SURFACE: 10 bbl Fr Water Spacer + 190 sx (222.3 cu.ft.) of "Premium Cement" + 2% Calcium Chloride Cement + 0.125# pps of Poly-E-Flake, 15.8 #/gal (1.17 cu ft./sk, Vol 39.58 Bbls.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 600psi. Total Volume: (222.3 cu-ft/190 sx/39.6 Bbls).
2. INTERMEDIATE: 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: 850 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: 1216 cu-ft / 216.5 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). Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (1050 sx / 1461 cu-ft / 260 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
3. PRODUCTION LINER: **STAGE 1**: 10 bbl (56 cu-ft) Fr Water Spacer. **STAGE 2**: 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III + 0.5 gal/bbl Musol + 38.75 ppb Barite + 0.5 gal/bbl SEM-7. **STAGE 3**: 10 bbl Fr Water Spacer. **STAGE 4: Lead Cement**: 50 / 50 Poz Premium + 0.2% Versaset + 0.2% Halad -766, Yield 1.43 cu ft/sk, 13.0 ppg, (10 sx / 14.3 cu ft. / 2.5 bbls). **STAGE 5**: 200 sx. Foamed Lead Cement: 50 / 50 Poz Standard + 0.2% Versaset + 0.2% HALAD-766 + 1.5% Chem-Foamer 760. Yield 1.97 cu-ft/sk. 13.0 ppg (200 sx / 394 cu-ft. / 70.2 bbls.). **STAGE 6**: Tail Cement : 100 sx. 50/50 Poz Standard + 0.2% Versaset + 0.05% HALAD-766 + .05% SA-1015, Weight: 13.5 ppg (100 sx / Yield 1.28 cu ft/sk. / 128 cu ft. / 22.8 bbls) **STAGE 7**: Displace w/ +/- 137 bbl Fr Water. Total Cement (536.3 cu ft / 95.5 bbls). Mix Foamed Cement w/ +/- 75,000 SCF Nitrogen. Est. TOC +/- 5,459 ft.

IV. COMPLETION

A. CBL

1. Run CCL for perforating.

B. PRESSURE TEST

1. Pressure test 4-1/2" casing to 4500 psi max, hold at 1500 psi for 30 minutes. Open RSI sleeves.

C. 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.

D. 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 point of curve (~5,930' MD).
- 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:

Installation of RSI sleeves at Toe of Lateral.

Proposed Operations:

A 4-1/2" 11.6# N-80 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# K-55 Intermediate casing (set at 5,909 ft. MD) with a Liner Hanger and pack-off assembly then cemented to +/- 300 ft above the liner hanger. TOL will be +/- 5,759 ft. (MD) +/- 78 degree angle. TOC: +/- 5,459 ft. (MD).

After cementing and TOL clean up operations are complete, the TOL will be tested to 1500 psi (per BLM).

A 4-1/2" 11.6# N-80 tie-back string with seal assembly will be run and stung into the PBR of the liner hanger, tested to 1500 PSI and hung off at the surface.

The Drilling Rig will be rigged down at this point and Completion operations will begin. After Stimulation and Testing operations are complete the 4-1/2" tie-back string will be removed from the well.

Note: Changes to formation tops, casing landing points, well TD and Directional Plan

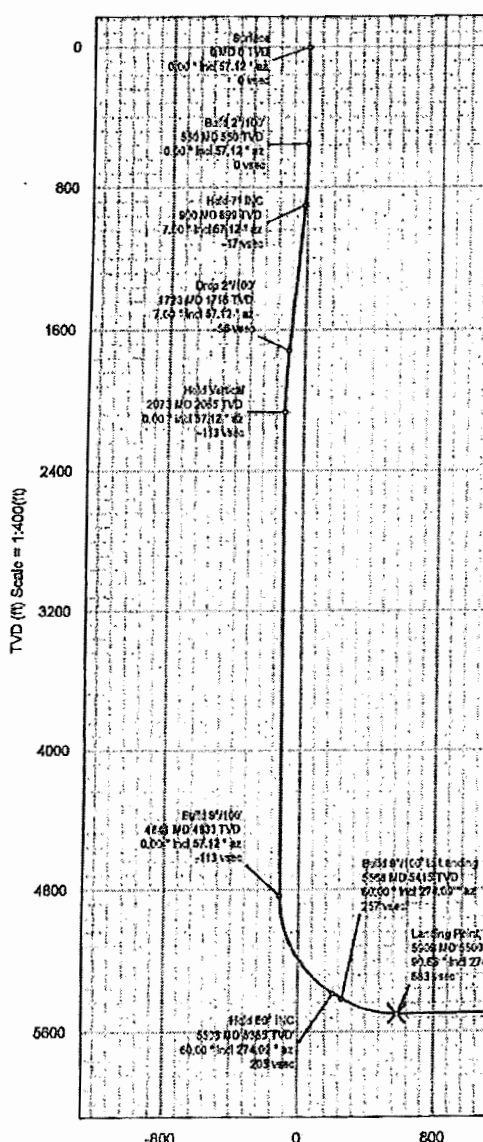
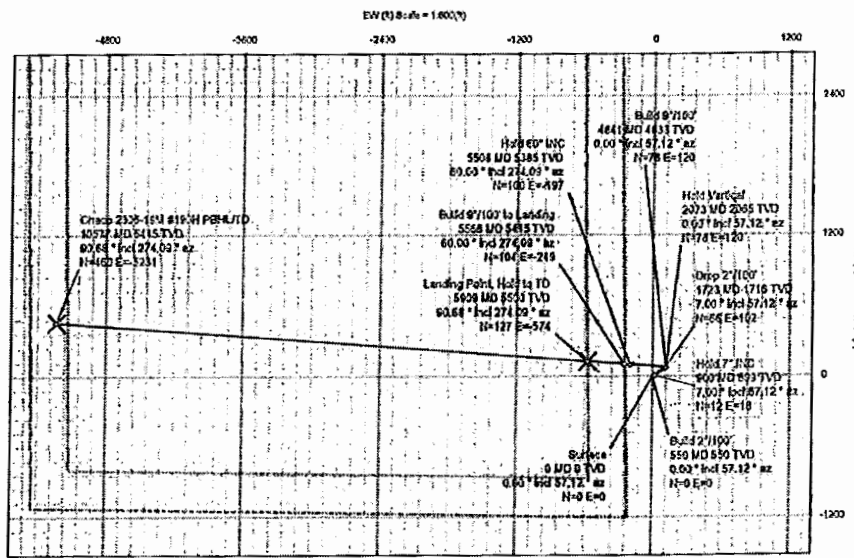
Borehole:	Well:	Field:	Structure:
Original Hole	Chaco 2306-19M #190H	NM Sandoval County NAD27	Sec 19-23N-6W

Gravity & Magneto Parameters	Surface Location	Miscellaneous
Model: EGM2008 Dip: 62.535° Date: 03-Jan-2014	NAD27 New Mexico State Plane, Central Zone, US Feet	Chaco 2306-19M #190H TVD Ref: RKB(7026H above HSL)
Mag Dec: 9.455° FG: 59142.22mT Gravity FG: 593.514mgn (R.I. 1655 Based)	Lat: N 36 12 26.33 Northing: 1097118.778 Grid Conv: -0.7454	Plot: Chaco 2306-19M #190H
	Long: W 107 31 0.55 Easting: 126291.916 Scale Fact: 1.00000000	Plan: Chaco 2306-19M #190H R3 mdy 07Apr14

Proposal



True North
Tot Corr (M-T 9.458°)
Mag Dec (9.458°)
Grid Conv (-0.745°)



Surface Location									
Northing: 1097118.778			Easting: 126291.916			Latitude: N 36 12 26.33			
						Longitude: W 107 31 0.55			
						VSec Azimuth: 275.027			
Target Description		Grid Coord						Local Coord	
Target Name	Latitude	Longitude	Northing	Easting	TVD	VSec	N(°E)	E(°N/E)	
Chaco 2306-19M #190H PSH/TO	N 36 12 30.93	W 107 32 4.37	1097047.21	121037.65	5445.00	6290.72	463.12	-5230.82	
Chaco 2306-19M #190H POE	N 36 12 27.65	W 107 31 7.55	1097253.51	125688.35	5500.00	663.18	127.24	-574.24	
Chaco 2306-19M #190H Section Line	N 36 12 28.69	W 107 31 0.16	1097169.32	126295.04	7026.00	-37.86	50.97	32.45	
Chaco 2306-19M #190H 3307 Seback	N 36 12 28.69	W 107 31 0.16	1097169.32	126295.04	7026.00	-37.86	50.97	32.45	
Critical Points									
Critical Point	MD	INCL	AZIM	TVD	VSEC	N(°E)	E(°N/E)	DLB	
Surface	0.00	0.00	57.12	0.00	0.00	0.00	0.00		
Bld 271107	550.00	0.00	57.12	550.00	0.00	0.00	0.00	0.00	
Hold 7° INC	629.92	7.00	57.12	593.05	-18.64	11.89	17.83	2.09	
Drop 271107	1722.64	7.00	57.12	1718.95	-65.87	64.02	102.14	0.00	
Hold Vertical	2072.87	0.00	57.12	2065.00	-112.61	77.60	120.07	2.09	
Bld 971107	4341.29	0.00	57.12	4332.42	-112.61	77.60	120.07	0.00	
Hold 60° INC	5507.69	60.00	274.09	5384.75	205.45	100.51	-197.43	9.00	
Bld 571107 to Landing	5587.89	60.00	274.09	5414.75	257.41	104.01	-249.29	0.00	
Landing Point, Hold to TD	5939.79	91.67	274.09	5500.00	563.18	127.24	-574.24	9.00	
Chaco 2306-19M #190H PSH/TO	10577.28	91.67	274.09	5445.00	5293.72	450.12	-5230.82	0.00	



Chaco 2306-19M #190H R3 mdv 02Apr14 Proposal Geodetic Report



(Def Plan)

Report Date: April 02, 2014 - 01:14 PM
Client: WPX Energy
Field: NM Sandoval County NAD27
Structure / Slot: WPX Sec 19-23N-6W (Chaco 2306-19M #190H) / Chaco 2306-19M #190H
Well: Chaco 2306-19M #190H
Borehole: Original Hole
UWI / API#: Unknown / Unknown
Survey Name: Chaco 2306-19M #190H R3 mdv 02Apr14
Survey Date: November 05, 2013
Tort / AHD / DDI / ERD Ratio: 104.650 * / 5507.203 ft / 6.045 / 1.001
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 36° 12' 28.3860", W 107° 31' 0.5520"
Location Grid N/E Y/X: N 1697118.778 NUS, E 126261.916 NUS
CRS Grid Convergence Angle: -0.7484 *
Grid Scale Factor: 1.0005934
Version / Patch: 2.7.1043.0
Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 275.027 * (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 7026.000 ft above MSL
Seabed / Ground Elevation: 7012.000 ft above MSL
Magnetic Declination: 9.458 *
Total Gravity Field Strength: 993.9139mgm (9.60685 Base-0)
Gravity Model: DOX
Total Magnetic Field Strength: 50142.221 nT
Magnetic Dip Angle: 62.998 *
Declination Date: January 03, 2014
Magnetic Declination Model: BGGM 2013
North Reference: True North
Grid Convergence Used: 0.0000 *
Total Corr Mag North-True North: 9.4578 *
Local Coord Referenced To: Well Head

Comments	MSD (ft)	Incl (°)	Azlm True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft)	Northing (NUS)	Easting (EUS)	Latitude (NUS °'")	Longitude (EUS °'")
Surface	0.00	0.00	57.12	0.00	0.00	0.00	0.00	0.00	1697118.78	126261.92	N 36 12 28.39	W 107 31 0.55
	100.00	0.00	57.12	100.00	0.00	0.00	0.00	0.00	1697118.78	126261.92	N 36 12 28.39	W 107 31 0.55
	200.00	0.00	57.12	200.00	0.00	0.00	0.00	0.00	1697118.78	126261.92	N 36 12 28.39	W 107 31 0.55
	300.00	0.00	57.12	300.00	0.00	0.00	0.00	0.00	1697118.78	126261.92	N 36 12 28.39	W 107 31 0.55
	400.00	0.00	57.12	400.00	0.00	0.00	0.00	0.00	1697118.78	126261.92	N 36 12 28.39	W 107 31 0.55
	500.00	0.00	57.12	500.00	0.00	0.00	0.00	0.00	1697118.78	126261.92	N 36 12 28.39	W 107 31 0.55
	550.00	0.00	57.12	550.00	0.00	0.00	0.00	0.00	1697118.78	126261.92	N 36 12 28.39	W 107 31 0.55
But'd 2' / 100'	600.00	1.00	57.12	600.00	-0.34	0.24	0.37	2.00	1697120.87	126265.24	N 36 12 26.41	W 107 31 0.51
	700.00	3.00	57.12	699.93	-3.10	2.13	3.30	2.00	1697124.58	126271.15	N 36 12 26.45	W 107 31 0.44
	800.00	5.00	57.12	799.88	-8.60	5.92	9.16	2.00	1697130.13	126279.99	N 36 12 26.50	W 107 31 0.33
	899.92	7.00	57.12	899.05	-18.84	11.59	17.93	2.00	1697130.13	126280.00	N 36 12 26.50	W 107 31 0.33
Hold 7" INC	900.00	7.00	57.12	899.13	-18.85	11.59	17.93	0.00	1697138.61	126280.32	N 36 12 26.57	W 107 31 0.21
	1000.00	7.00	57.12	998.38	-28.46	18.20	28.17	0.00	1697143.09	126300.04	N 36 12 26.63	W 107 31 0.08
	1100.00	7.00	57.12	1097.64	-38.03	24.82	38.40	0.00	1697149.57	126310.98	N 36 12 26.70	W 107 30 59.96
	1200.00	7.00	57.12	1166.89	-45.69	31.43	48.63	0.00	1697158.05	126321.28	N 36 12 26.76	W 107 30 59.83
	1300.00	7.00	57.12	1266.15	-55.30	38.05	58.88	0.00	1697162.53	126331.59	N 36 12 26.83	W 107 30 59.71
	1400.00	7.00	57.12	1395.40	-64.92	44.68	69.10	0.00	1697169.01	126341.91	N 36 12 26.90	W 107 30 59.58
	1500.00	7.00	57.12	1494.66	-74.53	51.27	79.33	0.00	1697175.49	126352.23	N 36 12 26.96	W 107 30 59.46
	1600.00	7.00	57.12	1593.91	-84.15	57.89	89.56	0.00	1697181.97	126362.55	N 36 12 27.03	W 107 30 59.33
	1700.00	7.00	57.12	1693.17	-93.76	64.50	99.80	0.00	1697188.46	126372.87	N 36 12 27.09	W 107 30 59.21
Drop 2' / 100'	1722.65	7.00	57.12	1715.95	-95.97	68.02	102.14	2.00	1697187.01	126372.00	N 36 12 27.09	W 107 30 59.22
	1800.00	5.46	57.12	1782.54	-102.56	70.56	109.18	2.00	1697192.04	126378.68	N 36 12 27.13	W 107 30 59.14
	1900.00	3.46	57.12	1892.23	-108.69	74.77	115.69	2.00	1697194.32	126382.21	N 36 12 27.15	W 107 30 59.10
	2000.00	1.46	57.12	1992.14	-112.08	77.10	119.29	2.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
Hold Vertical	2072.87	0.00	57.12	2065.00	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	2100.00	0.00	57.12	2092.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	2200.00	0.00	57.12	2182.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	2300.00	0.00	57.12	2282.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	2400.00	0.00	57.12	2392.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	2500.00	0.00	57.12	2492.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	2600.00	0.00	57.12	2592.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	2700.00	0.00	57.12	2692.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	2800.00	0.00	57.12	2792.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	2900.00	0.00	57.12	2892.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	3000.00	0.00	57.12	2992.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	3100.00	0.00	57.12	3092.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	3200.00	0.00	57.12	3192.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	3300.00	0.00	57.12	3292.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	3400.00	0.00	57.12	3392.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	3500.00	0.00	57.12	3492.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	3600.00	0.00	57.12	3592.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	3700.00	0.00	57.12	3692.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	3800.00	0.00	57.12	3792.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	3900.00	0.00	57.12	3892.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	4000.00	0.00	57.12	3992.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	4100.00	0.00	57.12	4092.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	4200.00	0.00	57.12	4192.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	4300.00	0.00	57.12	4292.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	4400.00	0.00	57.12	4392.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	4500.00	0.00	57.12	4492.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	4600.00	0.00	57.12	4592.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	4700.00	0.00	57.12	4692.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	4800.00	0.00	57.12	4792.13	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
	4841.29	0.00	57.12	4833.42	-112.81	77.61	120.07	0.00	1697194.81	126383.00	N 36 12 27.16	W 107 30 59.09
But'd 9' / 100'	4900.00	5.28	274.09	4892.05	-110.10	72.69	117.37	9.00	1697195.04	126380.30	N 36 12 27.16	W 107 30 59.12
	5000.00	14.28	274.09	4990.49	-93.13	78.01	100.44	9.00	1697196.47	126383.38	N 36 12 27.17	W 107 30 59.33
	5100.00	23.28	274.09	5085.07	-60.97	81.30	68.35	9.00	1697199.19	126331.33	N 36 12 27.19	W 107 30 59.72
	5200.00	32.28	274.09	5173.45	-14.41	84.62	21.91	9.00	1697203.11	126284.93	N 36 12 27.22	W 107 31 0.28
	5300.00	41.28	274.09	5253.48	45.40	88.89	-37.76	9.00	1697208.16	126225.32	N 36 12 27.27	W 107 31 1.68
	5400.00	50.28	274.09	5323.12	116.99	94.00	-109.17	9.00	1697214.20	126159.97	N 36 12 27.32	W 107 31 2.88
	5500.00	59.28	274.09	5383.75	198.59	98.82	-180.58	9.00	1697221.08	126072.64	N 36 12 27.38	W 107 31 2.88
	5527.65	60.00	274.09	5384.75	205.48	100.31	-197.43	8.00	1697221.66	126095.60	N 36 12 27.35	W 107 31 2.88
Hold 60" INC												
But'd 6' / 100' to												
Landing	5567.88	60.00	274.09	5414.75	257.41	104.01	-249.28	0.00	1697226.05	126014.02	N 36 12 27.42	W 107 31 3.59
	5600.00	62.88	274.09	5430.07	285.55	108.02	-277.33	9.00	1697228.42	125985.88	N 36 12 27.44	W 107 31 3.84
	5700.00	71.88	274.09	5468.48	377.75	112.60	-389.31	9.00	1697236.20	125894.09	N 36 12 27.50	W 107 31 5.06
	5800.00	80.88	274.09	5492.00	474.83	119.52	-465.15	9.00	1697244.38	125787.34	N 36 12 27.57	W 107 31 6.24
	5900.00	89.88	274.09	5500.04	574.39	128.61	-585.47	9.00	1697252.77	125698.11	N 36 12 27.64	W 107 31 7.45
Landing Point,												
Hold to TD	5908.78	90.67	274.09	5500.00	593.18	127.24	-574.24	9.00	1697250.51	125689.35	N 36 12 27.85	W 107 31 7.58
	6000.00	90.67	274.09	5499.92	674.37	133.73	-665.21	0.00	1697261.20	125598.47	N 36 12 27.71	W 107 31 8.67
	6100.00	90.67	274.09	5497.74	774.35	140.69	-784.05	0.00	1697269.62	125498.83	N 36 12 27.76	W 107 31 9.69
	6200.00	90.67	274.09	5496.56	874.33	147.93	-864.69	0.00	1697278.05	125399.18	N 36 12 27.85	W 107 31 11.10
	6300.00	90.67	274.09	5495.39</								

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	8700.00	00.67	274.09	5490.67	1374.25	183.61	-1363.58	0.00	1697320.19	124900.97	N 35 12 28.20	W 107 31 17.19
	8800.00	00.67	274.09	5469.50	1474.21	160.73	-1483.12	0.00	1697328.62	124801.33	N 35 12 28.27	W 107 31 18.40
	8900.00	00.67	274.09	5488.32	1574.19	197.68	-1582.68	0.00	1697337.04	124701.65	N 35 12 28.34	W 107 31 19.82
	9000.00	00.67	274.09	5487.14	1674.17	204.88	-1662.60	0.00	1697345.47	124602.04	N 35 12 28.41	W 107 31 20.84
	9100.00	00.67	274.09	5485.95	1774.15	212.11	-1762.34	0.00	1697353.90	124502.40	N 35 12 28.49	W 107 31 22.66
	9200.00	00.67	274.09	5484.78	1874.13	219.24	-1862.03	0.00	1697362.33	124402.75	N 35 12 28.56	W 107 31 23.27
	9300.00	00.67	274.09	5483.61	1974.11	226.38	-1961.82	0.00	1697370.76	124303.11	N 35 12 28.63	W 107 31 24.49
	9400.00	00.67	274.09	5482.43	2074.08	233.49	-2061.55	0.00	1697379.19	124203.47	N 35 12 28.70	W 107 31 25.71
	9500.00	00.67	274.09	5481.25	2174.06	240.62	-2161.29	0.00	1697387.62	124103.83	N 35 12 28.77	W 107 31 26.92
	9600.00	00.67	274.09	5480.07	2274.04	247.75	-2261.03	0.00	1697396.05	124004.18	N 35 12 28.84	W 107 31 28.14
	9700.00	00.67	274.09	5478.89	2374.02	254.88	-2360.77	0.00	1697404.49	123904.54	N 35 12 28.91	W 107 31 29.36
	9800.00	00.67	274.09	5477.72	2474.00	262.01	-2460.51	0.00	1697412.92	123804.90	N 35 12 28.98	W 107 31 30.57
	9900.00	00.67	274.09	5476.54	2573.98	269.14	-2560.25	0.00	1697421.35	123705.25	N 35 12 29.05	W 107 31 31.79
	10000.00	00.67	274.09	5475.36	2673.96	276.26	-2659.99	0.00	1697429.78	123605.61	N 35 12 29.12	W 107 31 33.01
	10100.00	00.67	274.09	5474.18	2773.94	283.39	-2759.72	0.00	1697438.21	123505.97	N 35 12 29.19	W 107 31 34.23
	10200.00	00.67	274.09	5473.00	2873.92	290.52	-2859.46	0.00	1697446.65	123406.33	N 35 12 29.26	W 107 31 35.44
	10300.00	00.67	274.09	5471.83	2973.90	297.66	-2959.20	0.00	1697455.08	123306.68	N 35 12 29.33	W 107 31 36.66
	10400.00	00.67	274.09	5470.65	3073.88	304.79	-3058.94	0.00	1697463.51	123207.04	N 35 12 29.40	W 107 31 37.88
	10500.00	00.67	274.09	5469.47	3173.86	311.92	-3158.68	0.00	1697471.95	123107.40	N 35 12 29.47	W 107 31 39.09
	10600.00	00.67	274.09	5468.29	3273.84	319.05	-3258.42	0.00	1697480.38	123007.76	N 35 12 29.54	W 107 31 40.31
	10700.00	00.67	274.09	5467.11	3373.82	326.18	-3358.16	0.00	1697488.82	122908.11	N 35 12 29.61	W 107 31 41.53
	10800.00	00.67	274.09	5465.94	3473.80	333.31	-3457.89	0.00	1697497.25	122808.47	N 35 12 29.68	W 107 31 42.74
	10900.00	00.67	274.09	5464.76	3573.78	340.44	-3557.63	0.00	1697505.68	122708.83	N 35 12 29.75	W 107 31 43.96
	11000.00	00.67	274.09	5463.58	3673.76	347.58	-3657.37	0.00	1697514.12	122609.19	N 35 12 29.82	W 107 31 45.18
	11100.00	00.67	274.09	5462.40	3773.74	354.71	-3757.11	0.00	1697522.55	122509.54	N 35 12 29.89	W 107 31 46.40
	11200.00	00.67	274.09	5461.22	3873.72	361.84	-3856.85	0.00	1697530.99	122409.90	N 35 12 29.96	W 107 31 47.61
	11300.00	00.67	274.09	5460.05	3973.70	368.98	-3956.59	0.00	1697539.43	122310.26	N 35 12 30.03	W 107 31 48.83
	11400.00	00.67	274.09	5458.87	4073.68	376.11	-4056.32	0.00	1697547.86	122210.62	N 35 12 30.10	W 107 31 50.05
	11500.00	00.67	274.09	5457.69	4173.66	383.25	-4156.06	0.00	1697556.30	122110.97	N 35 12 30.17	W 107 31 51.28
	11600.00	00.67	274.09	5456.51	4273.64	390.38	-4255.80	0.00	1697564.74	122011.33	N 35 12 30.25	W 107 31 52.48
	11700.00	00.67	274.09	5455.33	4373.62	397.51	-4355.54	0.00	1697573.18	121911.69	N 35 12 30.32	W 107 31 53.70
	11800.00	00.67	274.09	5454.15	4473.60	404.65	-4455.28	0.00	1697581.61	121812.05	N 35 12 30.39	W 107 31 54.91
	11900.00	00.67	274.09	5452.98	4573.58	411.79	-4555.01	0.00	1697590.05	121712.41	N 35 12 30.46	W 107 31 56.13
	12000.00	00.67	274.09	5451.80	4673.56	418.92	-4654.75	0.00	1697598.49	121612.76	N 35 12 30.53	W 107 31 57.35
	12100.00	00.67	274.09	5450.62	4773.54	426.06	-4754.49	0.00	1697606.93	121513.12	N 35 12 30.60	W 107 31 58.57
	12200.00	00.67	274.09	5449.44	4873.52	433.19	-4854.23	0.00	1697615.37	121413.48	N 35 12 30.67	W 107 31 59.78
	12300.00	00.67	274.09	5448.27	4973.50	440.33	-4953.97	0.00	1697623.81	121313.84	N 35 12 30.74	W 107 32 0.00
	12400.00	00.67	274.09	5447.09	5073.48	447.47	-5053.71	0.00	1697632.25	121214.19	N 35 12 30.81	W 107 32 2.22
	12500.00	00.67	274.09	5445.91	5173.46	454.60	-5153.44	0.00	1697640.69	121114.55	N 35 12 30.88	W 107 32 4.43
Chaco 2306-19M #190H PBH/ID	10577.28	00.67	274.09	5445.00	5250.72	460.12	-5230.52	0.00	1697647.21	121037.55	N 35 12 30.83	W 107 32 4.37

Survey Type: Dal Plan

Survey Error Model: ISCVSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	14.000	1/100.000	30.000	30.000	SLB_MWD-STD-Depth Only	Original Hole / Chaco 2306-19M #190H R3 mdy 02Apr14
	1	14.000	10577.276	1/100.000	30.000	30.000	SLB_MWD-STD	Original Hole / Chaco 2306-19M #190H R3 mdy 02Apr14

McMillan, Michael, EMNRD

From: Riley, Heather <Heather.Riley@wpxenergy.com>
Sent: Wednesday, June 18, 2014 12:43 PM
To: McMillan, Michael, EMNRD
Subject: RE: CHACO 2306-19M #190H; API - 30-043-21189

This location of this lateral was chosen to increase reserves and production.

Heather Riley
Regulatory Team Lead
WPX Energy
P. O. Box 640
Aztec, NM 87410
(970) 749-8747 (cell)
(505) 333-1822 (office)
heather.riley@wpxenergy.com

From: McMillan, Michael, EMNRD [<mailto:Michael.McMillan@state.nm.us>]
Sent: Wednesday, June 18, 2014 12:39 PM
To: Riley, Heather
Subject: RE: CHACO 2306-19M #190H; API - 30-043-21189

Can you provide a reason for this NSL application?

From: Riley, Heather [<mailto:Heather.Riley@wpxenergy.com>]
Sent: Wednesday, June 18, 2014 10:08 AM
To: McMillan, Michael, EMNRD
Cc: Felix, Andrea; Granillo, Lacey; Heil, Mark; Higgins, Larry; McQueen Jr, Ken; Vermersch, Amy H, EMNRD; Perrin, Charlie, EMNRD
Subject: RE: CHACO 2306-19M #190H; API - 30-043-21189

Here is the application.

Thanks,

Heather Riley
Regulatory Team Lead
WPX Energy
P. O. Box 640
Aztec, NM 87410
(970) 749-8747 (cell)
(505) 333-1822 (office)
heather.riley@wpxenergy.com