

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

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

Jami Bailey, 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:

Application Type:

☐ P&A ☒ Drilling/Casing Change ☐ Recomplete/DHC
☒ Location Change ☐ Other: _____

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf. Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-35495-00-00	CHACO 2308 04P	149H	WPX ENERGY PRODUCTION, LLC	O	N	San Juan	F	P	4	23	N	8	W

Conditions of Approval:

Notify NMOCD 24hrs prior to beginning operations

Hold C-104 for directional survey and as drilled plat

JAN 29 2014

NMOCD Approved by Signature

Date

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

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

WPX Energy Production, LLC

3a. Address

PO Box 640 Aztec, NM 87410

3b. Phone No. (include area code)

505-333-1808

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sur: 1318' FSL & 246' FEL, sec 4, T23N, R8W - BHL: 2270' FSL & 280' FEL, Sec 3, T23N, R8W

5. Lease Serial No.

NMNM-18463

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

Chaco 2308-04P #149H

9. API Well No.

30-045-35495

10. Field and Pool or Exploratory Area

Nageesi Gallup

11. Country or Parish, State

San Juan, 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 <u>surface chg</u>
	☐ 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 change move the surface location for this well slightly for better rig access. There will be no change to pad or any additional disturbance as permitted.

Please see new plat, directional plan and operations plan

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Larry Higgins

Title Regulatory Specialist

Signature

Date 1/7/14

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title EPS

Date 1/14/14

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)

NMOCDA

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

RECEIVED

JAN 07 2014

WELL LOCATION AND ACREAGE DEDICATION PLAT

Farmington Field Office
Bureau of Land Management

*API Number 30-045-35495		*Pool Code 47540	*Pool Name NAGEEZI GALLUP
*Property Code 40275	*Property Name CHACO 2308-04P		*Well Number 149H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC		*Elevation 6871'

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
P	4	23N	8W		1318	SOUTH	246	EAST	SAN JUAN

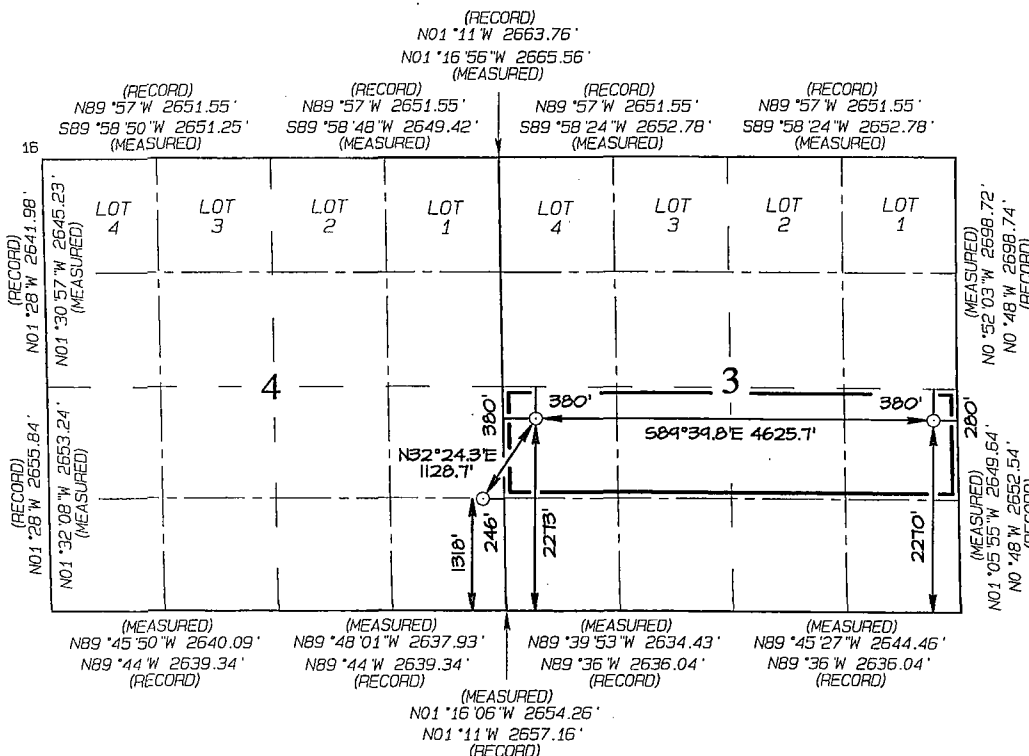
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	3	23N	8W		2270	SOUTH	280	EAST	SAN JUAN

*Dedicated Acres 160.0 Acres N/2 S/2 - Section 3	*Joint or Infill	*Consolidation Code	*Order No. RCVD JAN 16 '14 OIL CONS. DIV.
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DIST. 3

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



SURFACE LOCATION
1318' FSL 246' FEL
SECTION 4, T23N, R8W
LAT: 36.25257°N
LONG: 107.67819°W
DATUM: NAD1927

LAT: 36.25259°N
LONG: 107.67880°W
DATUM: NAD1983

POINT-OF-ENTRY
2273' FSL 380' FWL
SECTION 3, T23N, R8W
LAT: 36.25519°N
LONG: 107.67613°W
DATUM: NAD1927

LAT: 36.25520°N
LONG: 107.67674°W
DATUM: NAD1983

BOTTOM-HOLE
2270' FSL 280' FEL
SECTION 3, T23N, R8W
LAT: 36.25509°N
LONG: 107.66044°W
DATUM: NAD1927

LAT: 36.25511°N
LONG: 107.66105°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: 1/7/14

Printed Name: Larry Higgins
E-mail Address: larry.higgins@wpxenergy.com

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: JANUARY 6, 2014
Survey Date: AUGUST 19, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269

WELL	Chaco 2308-04P #149H	FIELD	NM San Juan County NAD27	STRUCTURE	Sec 4-23N-8W
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Magnetic Parameters Model: BGGM 2013 Dip: 63.015° Mag Dec: 9.565°	Date: September 10, 2013 FS: 50187.1mT	Surface Location Lat: N 36 15 9.264 Lon: W 107 40 41.466	NAD27 New Mexico State Plane, Western Zone, US Feet Northing: 1911215.28 ftUS Easting: 545745.22 ftUS Grid Conv: 0.092° Scale Fact: 0.99991909	Miscellaneous Slot: Chaco 2308-04P #149H Plan: R1 mdy 12Nov13	TVD Ref: RK9(6885) above MSL Srv Date: September 10, 2013
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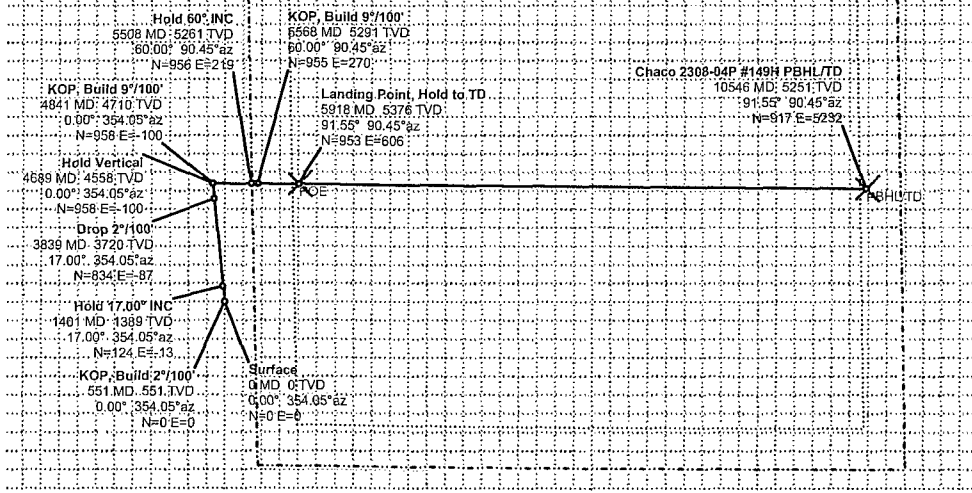
Proposal

<<< W Scale = 1:1500(ft) E >>>

-1500 0 1500 3000 4500 6000



True North
Tot Corr (M->T 9.565°)
Mag Dec (9.565°)
Grid Conv (0.092°)



1500

0

-1500

<<< S Scale = 1:1500(ft) N >>>

TVD Scale = 1:1000(ft)

0

1000

2000

3000

4000

5000

6000

Targets						
Name	TVD(ft)	NS(ft)	EW(ft)	Latitude(deg)	Longitude(deg)	Shape
Chaco 2308-04P#149H POE	5376.00	952.57	605.97	N 36 15 18.684	W 107 40 34.068	POINT
Chaco 2308-04P#149H PBHL/TD	5251.00	916.64	5232.39	N 36 15 18.324	W 107 39 37.584	POINT

Critical Points									
Comments	M/D(ft)	INC	AZM	TVD(ft)	SS TVD	VS(ft)	NS(ft)	EW(ft)	DLS
Surface	0.00	0.00	354.05	0.00	-6885.00	0.00	0.00	0.00	
KOP, Build 2°/100'	551.00	0.00	354.05	551.00	-6334.00	0.00	0.00	0.00	0.00
Hold 17.00° INC	1400.97	17.00	354.05	1388.55	-5496.45	8.71	124.49	-12.97	2.00
Drop 2°/100'	3839.40	17.00	354.05	3720.45	-3164.55	58.31	833.56	-86.83	0.00
Hold Vertical	4689.37	0.00	354.05	4558.00	-2327.00	67.02	958.06	-99.80	2.00
KOP, Build 9°/100'	4840.98	0.00	354.05	4709.61	-2175.39	67.02	958.06	-99.80	0.00
Hold 60° INC	5507.65	60.00	90.45	5260.94	-1624.06	380.12	955.58	218.50	9.00
KOP, Build 9°/100'	5567.65	60.00	90.45	5290.94	-1594.06	431.23	955.18	270.46	0.00
Landing Point, Hold to TD	5918.20	91.55	90.45	5376.00	-1509.00	761.26	952.57	605.98	9.00
Chaco 2308-04P#149H PBHL/TD	10546.44	91.55	90.45	5251.00	-1634.00	5312.08	916.64	5232.39	0.00

Vertical Section (ft) Azim = 80.06° Scale = 1:1000(ft) Origin = 0 N-S, 0 E-W



Chaco 2308-04P #149H R1 mdv 12Nov13 Proposal Geodetic Report

(Def Plan)



Report Date: November 12, 2013 - 12:45 PM
Client: WPX Energy
Field: NM San Juan County NAD27
Structure / Slot: WPX Sec 4-23N-8W (Chaco 2308-04P #149H) / Chaco 2308-04P #149H
Well: Chaco 2308-04P #149H
Borehole: Original Hole
UWI / API#: Unknown / Unknown
Survey Name: Chaco 2308-04P #149H R1 mdv 12Nov13
Survey Date: September 10, 2013
Tort / AHD / DDI / ERD Ratio: 125.553 * / 6295.594 ft / 6.190 / 1.171
Coordinate Reference System: NAD27 New Mexico State Plane, Western Zone, US Feet
Location Lat / Long: N 36° 15' 9.26424", W 107° 40' 41.46636"
Location Grid N/E Y/X: N 1911215.284 ftUS, E 545745.221 ftUS
CRS Grid Convergence Angle: 0.0917 *
Grid Scale Factor: 0.99991906
Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 80.063 * (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 6885.000 ft above MSL
Seabed / Ground Elevation: 6871.000 ft above MSL
Magnetic Declination: 9.565 *
Total Gravity Field Strength: 998.4993mgn (9.80665 Based)
Total Magnetic Field Strength: 50187.098 nT
Magnetic Dip Angle: 63.015 *
Declination Date: September 10, 2013
Magnetic Declination Model: BGGM 2013
North Reference: True North
Grid Convergence Used: 0.0000 *
Total Corr Mag North->True North: 9.5652 *
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	354.05	0.00	0.00	0.00	0.00	N/A	1911215.28	545745.22	N 36 15 9.26	W 107 40 41.47
	100.00	0.00	354.05	100.00	0.00	0.00	0.00	0.00	1911215.28	545745.22	N 36 15 9.26	W 107 40 41.47
	200.00	0.00	354.05	200.00	0.00	0.00	0.00	0.00	1911215.28	545745.22	N 36 15 9.26	W 107 40 41.47
	300.00	0.00	354.05	300.00	0.00	0.00	0.00	0.00	1911215.28	545745.22	N 36 15 9.26	W 107 40 41.47
	400.00	0.00	354.05	400.00	0.00	0.00	0.00	0.00	1911215.28	545745.22	N 36 15 9.26	W 107 40 41.47
	500.00	0.00	354.05	500.00	0.00	0.00	0.00	0.00	1911215.28	545745.22	N 36 15 9.26	W 107 40 41.47
KOP, Build 2"/100'	551.00	0.00	354.05	551.00	0.00	0.00	0.00	0.00	1911215.28	545745.22	N 36 15 9.26	W 107 40 41.47
	600.00	0.98	354.05	600.00	0.03	0.42	-0.04	2.00	1911215.70	545745.18	N 36 15 9.27	W 107 40 41.47
	700.00	2.98	354.05	699.93	0.27	3.85	-0.40	2.00	1911219.14	545744.81	N 36 15 9.30	W 107 40 41.47
	800.00	4.98	354.05	799.69	0.75	10.76	-1.12	2.00	1911226.04	545744.08	N 36 15 9.37	W 107 40 41.48
	900.00	6.98	354.05	899.14	1.48	21.12	-2.20	2.00	1911236.40	545742.99	N 36 15 9.47	W 107 40 41.49
	1000.00	8.98	354.05	998.16	2.44	34.93	-3.64	2.00	1911250.20	545741.53	N 36 15 9.61	W 107 40 41.51
	1100.00	10.98	354.05	1096.65	3.65	52.16	-5.43	2.00	1911267.43	545739.70	N 36 15 9.78	W 107 40 41.53
	1200.00	12.98	354.05	1194.46	5.09	72.81	-7.58	2.00	1911286.07	545737.52	N 36 15 9.98	W 107 40 41.56
	1300.00	14.98	354.05	1291.50	6.77	96.63	-10.09	2.00	1911312.09	545734.98	N 36 15 10.22	W 107 40 41.59
	1400.00	16.98	354.05	1387.63	8.69	124.21	-12.94	2.00	1911339.47	545732.08	N 36 15 10.49	W 107 40 41.62
Hold 17.00° INC	1400.97	17.00	354.05	1388.55	8.71	124.49	-12.97	2.00	1911339.75	545732.05	N 36 15 10.50	W 107 40 41.62
	1500.00	17.00	354.05	1483.26	10.72	153.29	-15.97	0.00	1911368.54	545729.01	N 36 15 10.78	W 107 40 41.66
	1600.00	17.00	354.05	1578.89	12.76	182.37	-19.00	0.00	1911397.61	545725.93	N 36 15 11.07	W 107 40 41.70
	1700.00	17.00	354.05	1674.52	14.79	211.45	-22.03	0.00	1911426.68	545722.86	N 36 15 11.36	W 107 40 41.74
	1800.00	17.00	354.05	1770.15	16.82	240.53	-25.06	0.00	1911455.75	545719.78	N 36 15 11.64	W 107 40 41.77
	1900.00	17.00	354.05	1865.78	18.86	269.61	-28.08	0.00	1911484.82	545716.71	N 36 15 11.93	W 107 40 41.81
	2000.00	17.00	354.05	1961.41	20.89	298.69	-31.11	0.00	1911513.90	545713.63	N 36 15 12.22	W 107 40 41.85
	2100.00	17.00	354.05	2057.04	22.93	327.76	-34.14	0.00	1911542.97	545710.56	N 36 15 12.51	W 107 40 41.88
	2200.00	17.00	354.05	2152.67	24.96	356.84	-37.17	0.00	1911572.04	545707.48	N 36 15 12.79	W 107 40 41.92
	2300.00	17.00	354.05	2248.30	27.00	385.92	-40.20	0.00	1911601.11	545704.40	N 36 15 13.08	W 107 40 41.96
	2400.00	17.00	354.05	2343.94	29.03	415.00	-43.23	0.00	1911630.18	545701.33	N 36 15 13.37	W 107 40 41.99
	2500.00	17.00	354.05	2439.57	31.06	444.08	-46.26	0.00	1911659.25	545698.25	N 36 15 13.66	W 107 40 42.03
	2600.00	17.00	354.05	2535.20	33.10	473.16	-49.29	0.00	1911688.32	545695.18	N 36 15 13.94	W 107 40 42.07
	2700.00	17.00	354.05	2630.83	35.13	502.24	-52.32	0.00	1911717.40	545692.10	N 36 15 14.23	W 107 40 42.11
	2800.00	17.00	354.05	2726.46	37.17	531.32	-55.35	0.00	1911746.47	545689.03	N 36 15 14.52	W 107 40 42.14
	2900.00	17.00	354.05	2822.09	39.20	560.39	-58.38	0.00	1911775.54	545685.95	N 36 15 14.81	W 107 40 42.18
	3000.00	17.00	354.05	2917.72	41.23	589.47	-61.41	0.00	1911804.61	545682.88	N 36 15 15.09	W 107 40 42.22
	3100.00	17.00	354.05	3013.35	43.27	618.55	-64.43	0.00	1911833.68	545679.80	N 36 15 15.38	W 107 40 42.25
	3200.00	17.00	354.05	3108.98	45.30	647.63	-67.46	0.00	1911862.75	545676.73	N 36 15 15.67	W 107 40 42.29
	3300.00	17.00	354.05	3204.61	47.34	676.71	-70.49	0.00	1911891.82	545673.65	N 36 15 15.96	W 107 40 42.33
	3400.00	17.00	354.05	3300.24	49.37	705.79	-73.52	0.00	1911920.90	545670.58	N 36 15 16.24	W 107 40 42.36
	3500.00	17.00	354.05	3395.87	51.40	734.87	-76.55	0.00	1911949.97	545667.50	N 36 15 16.53	W 107 40 42.40
	3600.00	17.00	354.05	3491.50	53.44	763.95	-79.58	0.00	1911979.04	545664.42	N 36 15 16.82	W 107 40 42.44
	3700.00	17.00	354.05	3587.14	55.47	793.02	-82.61	0.00	1912008.11	545661.35	N 36 15 17.11	W 107 40 42.47
Drop 2"/100'	3800.00	17.00	354.05	3682.77	57.51	822.10	-85.64	0.00	1912037.18	545658.27	N 36 15 17.39	W 107 40 42.51
	3839.40	17.00	354.05	3720.45	58.31	833.56	-86.83	0.00	1912048.64	545657.06	N 36 15 17.51	W 107 40 42.53
	3900.00	15.79	354.05	3778.58	59.50	850.57	-88.60	2.00	1912065.64	545655.26	N 36 15 17.68	W 107 40 42.55
	4000.00	13.79	354.05	3875.26	61.27	875.96	-91.25	2.00	1912091.02	545652.58	N 36 15 17.93	W 107 40 42.58
	4100.00	11.79	354.05	3972.78	62.81	897.97	-93.54	2.00	1912113.03	545650.25	N 36 15 18.14	W 107 40 42.61
	4200.00	9.79	354.05	4071.01	64.12	916.58	-95.48	2.00	1912131.64	545648.28	N 36 15 18.33	W 107 40 42.63
	4300.00	7.79	354.05	4169.83	65.18	931.78	-97.06	2.00	1912146.83	545646.87	N 36 15 18.48	W 107 40 42.65
	4400.00	5.79	354.05	4269.12	66.00	943.53	-98.29	2.00	1912158.58	545645.43	N 36 15 18.59	W 107 40 42.67
	4500.00	3.79	354.05	4368.77	66.58	951.83	-99.15	2.00	1912166.88	545644.55	N 36 15 18.68	W 107 40 42.68
Hold Vertical	4600.00	1.79	354.05	4468.64	66.92	956.67	-99.66	2.00	1912171.71	545644.04	N 36 15 18.72	W 107 40 42.68
	4689.37	0.00	354.05	4558.00	67.02	958.06	-99.80	2.00	1912173.10	545643.90	N 36 15 18.74	W 107 40 42.68
	4700.00	0.00	354.05	4568.63	67.02	958.06	-99.80	0.00	1912173.10	545643.90	N 36 15 18.74	W 107 40 42.68
	4800.00	0.00	354.05	4668.63	67.02	958.06	-99.80	0.00	1912173.10	545643.90	N 36 15 18.74	W 107 40 42.68
KOP, Build 9"/100'	4840.98	0.00	354.05	4709.61	67.02	958.06	-99.80	0.00	1912173.10	545643.90	N 36 15 18.74	W 107 40 42.68
	4900.00	5.31	90.45	4768.54	69.71	958.03	-97.07	9.00	1912173.08	545646.63	N 36 15 18.74	W 107 40 42.65
	5000.00	14.31	90.45	4866.98	86.45	957.90	-80.04	9.00	1912172.98	545663.65	N 36 15 18.74	W 107 40 42.44
	5100.00	23.31	90.45	4961.54	118.14	957.65	-47.83	9.00	1912172.78	545695.86	N 36 15 18.73	W 107 40 42.05
	5200.00	32.31	90.45	5049.90	163.98	957.29	-1.22	9.00	1912172.49	545742.46	N 36 15 18.73	W 107 40 41.48
	5300.00	41.31	90.45	5129.88	222.86	956.82	58.63	9.00	1912172.12	545802.32	N 36 15 18.73	W 107 40 40.75
	5400.00	50.31	90.45	5199.51	293.32	956.27	130.26	9.00	1912171.68	545873.94	N 36 15 18.72	W 107 40 39.88
	5500.00	59.31	90.45	5257.08	373.62	955.63	211.90	9.00	1912171.18	545955.57	N 36 15 18.71	W 107 40 38.88
Hold 60° INC	5507.65	60.00	90.45	5260.94	380.12	955.58	218.50	9.00	1912171.14	545962.17	N 36 15 18.71	W 107 40 38.80
KOP, Build 9"/100'	5567.65	60.00	90.45	5290.94	431.23	955.18	270.46	0.00	1912170.82	546014.13	N 36 15 18.71	W 107 40 38.16
	5600.00	62.91	90.45	5306.40	459.18	954.96	298.88	9.00	1912170.64	546042.54	N 36 15 18.71	W 107 40 37.82
	5700.00	71.91	90.45	5344.77	549.90	954.24	391.11	9.00	1912170.07	546134.77	N 36 15 18.70	W 107 40 36.69
	5800.00	80.91	90.45	5368.24	645.41	953.49	488.21	9.00	1912169.47	546231.86	N 36 15 18.69	W 107 40 35.51
	5900.00	89.91	90.45	5376.23	743.36	952.71	587.78	9.00	1912168.86	546331.43	N 36 15 18.69	W 107 40 34.29
Landing Point, Hold to TD	5918.20	91.55	90.45	5376.00	761.26	952.57	605.98	9.00	1912168.75	546349.62	N 36 15 18.68	W 107 40 34.07
	6000.00	91.55	90.45	5373.78	841.89	951.94	687.74	0.00	1912168.24	546431.38	N 36 15 18.68	W 107 40 33.07
	6100.00	91.55	90.45	5371.08	940.02	951.16	787.71	0.00	1912167.63	546531.34	N 36 15 18.67	W 107 40 31.85
	6200.00	91.55	90.45	5368.38	1038.35	950.39	887.67	0.00	1912167.01	546631.29	N 36 15 18.66	W 107 40 30.63
	6300.00	91.55	90.45	5365.67	1136.67	949.61	987.63	0.00	1912166.39	546731.24	N 36 15 18.65	W 107 40 29.41
	6400.00	91.55	9									

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ° °)	Longitude (E/W ° ° °)
	7000.00	91.55	90.45	5346.75	1824.96	944.17	1687.35	0.00	1912162.08	547430.92	N 36 15 18.60	W 107 40 20.87
	7100.00	91.55	90.45	5344.04	1923.29	943.40	1787.31	0.00	1912161.46	547530.87	N 36 15 18.59	W 107 40 19.65
	7200.00	91.55	90.45	5341.34	2021.62	942.62	1887.27	0.00	1912160.85	547630.82	N 36 15 18.59	W 107 40 18.42
	7300.00	91.55	90.45	5338.64	2119.94	941.84	1987.23	0.00	1912160.23	547730.78	N 36 15 18.58	W 107 40 17.20
	7400.00	91.55	90.45	5335.94	2218.27	941.07	2087.19	0.00	1912159.62	547830.73	N 36 15 18.57	W 107 40 15.98
	7500.00	91.55	90.45	5333.23	2316.60	940.29	2187.15	0.00	1912159.00	547930.68	N 36 15 18.56	W 107 40 14.76
	7600.00	91.55	90.45	5330.53	2414.92	939.52	2287.11	0.00	1912158.38	548030.64	N 36 15 18.55	W 107 40 13.54
	7700.00	91.55	90.45	5327.83	2513.25	938.74	2387.07	0.00	1912157.77	548130.59	N 36 15 18.55	W 107 40 12.32
	7800.00	91.55	90.45	5325.13	2611.58	937.96	2487.03	0.00	1912157.15	548230.54	N 36 15 18.54	W 107 40 11.10
	7900.00	91.55	90.45	5322.43	2709.91	937.19	2586.99	0.00	1912156.53	548330.50	N 36 15 18.53	W 107 40 9.88
	8000.00	91.55	90.45	5319.72	2808.23	936.41	2686.95	0.00	1912155.92	548430.45	N 36 15 18.52	W 107 40 8.66
	8100.00	91.55	90.45	5317.02	2906.56	935.63	2786.91	0.00	1912155.30	548530.40	N 36 15 18.52	W 107 40 7.44
	8200.00	91.55	90.45	5314.32	3004.89	934.86	2886.87	0.00	1912154.68	548630.36	N 36 15 18.51	W 107 40 6.22
	8300.00	91.55	90.45	5311.62	3103.21	934.08	2986.84	0.00	1912154.07	548730.31	N 36 15 18.50	W 107 40 5.00
	8400.00	91.55	90.45	5308.92	3201.54	933.30	3086.80	0.00	1912153.45	548830.26	N 36 15 18.49	W 107 40 3.78
	8500.00	91.55	90.45	5306.22	3299.87	932.53	3186.76	0.00	1912152.84	548930.22	N 36 15 18.48	W 107 40 2.56
	8600.00	91.55	90.45	5303.52	3398.19	931.75	3286.72	0.00	1912152.22	549030.17	N 36 15 18.48	W 107 40 1.34
	8700.00	91.55	90.45	5300.82	3496.52	930.97	3386.68	0.00	1912151.60	549130.12	N 36 15 18.47	W 107 40 0.12
	8800.00	91.55	90.45	5298.12	3594.85	930.20	3486.64	0.00	1912150.99	549230.08	N 36 15 18.46	W 107 39 58.90
	8900.00	91.55	90.45	5295.42	3693.18	929.42	3586.60	0.00	1912150.37	549330.03	N 36 15 18.45	W 107 39 57.68
	9000.00	91.55	90.45	5292.72	3791.50	928.64	3686.56	0.00	1912149.75	549429.98	N 36 15 18.45	W 107 39 56.46
	9100.00	91.55	90.45	5290.02	3889.83	927.87	3786.52	0.00	1912149.14	549529.94	N 36 15 18.44	W 107 39 55.24
	9200.00	91.55	90.45	5287.32	3988.16	927.09	3886.48	0.00	1912148.52	549629.89	N 36 15 18.43	W 107 39 54.02
	9300.00	91.55	90.45	5284.63	4086.48	926.32	3986.44	0.00	1912147.90	549729.84	N 36 15 18.42	W 107 39 52.80
	9400.00	91.55	90.45	5281.93	4184.81	925.54	4086.40	0.00	1912147.29	549829.80	N 36 15 18.41	W 107 39 51.58
	9500.00	91.55	90.45	5279.23	4283.14	924.76	4186.36	0.00	1912146.67	549929.75	N 36 15 18.41	W 107 39 50.35
	9600.00	91.55	90.45	5276.53	4381.47	923.99	4286.32	0.00	1912146.06	550029.70	N 36 15 18.40	W 107 39 49.13
	9700.00	91.55	90.45	5273.83	4479.79	923.21	4386.28	0.00	1912145.44	550129.66	N 36 15 18.39	W 107 39 47.91
	9800.00	91.55	90.45	5271.13	4578.12	922.43	4486.24	0.00	1912144.82	550229.61	N 36 15 18.38	W 107 39 46.69
	9900.00	91.55	90.45	5268.44	4676.45	921.66	4586.20	0.00	1912144.21	550329.56	N 36 15 18.37	W 107 39 45.47
	10000.00	91.55	90.45	5265.74	4774.77	920.88	4686.16	0.00	1912143.59	550429.52	N 36 15 18.37	W 107 39 44.25
	10100.00	91.55	90.45	5263.04	4873.10	920.10	4786.13	0.00	1912142.97	550529.47	N 36 15 18.36	W 107 39 43.03
	10200.00	91.55	90.45	5260.34	4971.43	919.33	4886.09	0.00	1912142.36	550629.42	N 36 15 18.35	W 107 39 41.81
	10300.00	91.55	90.45	5257.65	5069.76	918.55	4986.05	0.00	1912141.74	550729.38	N 36 15 18.34	W 107 39 40.59
	10400.00	91.55	90.45	5254.95	5168.08	917.77	5086.01	0.00	1912141.12	550829.33	N 36 15 18.34	W 107 39 39.37
	10500.00	91.55	90.45	5252.25	5266.41	917.00	5185.97	0.00	1912140.51	550929.28	N 36 15 18.33	W 107 39 38.15
Chaco 2308-04P #149H PBHL/TD	10546.44	91.55	90.45	5251.00	5312.08	916.64	5232.39	0.00	1912140.22	550975.71	N 36 15 18.32	W 107 39 37.58

Survey Type: Def Plan

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

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	14.000	1/100.000	30.000	30.000	SLB_MWD-STD-Depth Only	Original Hole / Chaco 2308-04P #149H R1 mdv 12Nov13
	14.000	10546.444	1/100.000	30.000	30.000	SLB_MWD-STD	Original Hole / Chaco 2308-04P #149H R1 mdv 12Nov13

WPX ENERGY**Operations Plan***(Note: This procedure will be adjusted on site based upon actual conditions)*

<u>DATE:</u>	12/29/2013	<u>FIELD:</u>	Nageezi (Gallup)
<u>WELL NAME:</u>	Chaco 2308-04P #149H	<u>SURFACE:</u>	BLM
<u>SH Location:</u>	SESE Sec 4-23N-8W	<u>ELEVATION:</u>	6,870' GR
<u>BH Location:</u>	NESE Sec 3-23N-8W San Juan Co, NM	<u>MINERALS:</u>	BLM
<u>MEASURED DEPTH:</u>	10,546'	<u>LEASE #:</u>	?????

I. GEOLOGY: Surface formation – San Jose**A. FORMATION TOPS:** (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1,127	1,123	Point Lookout	4,169	4,041
Kirtland	1,314	1,305	Mancos	4,387	4,256
Pictured Cliffs	1,691	1,666	Kickoff Point	4,841	4,710
Lewis	1,833	1,802	Target Top	5,448	5,227
Chacra	2,110	2,067	Landing Point	5,918	5,376
Cliff House	3,241	3,148	Target Base	5,918	5,376
Menefee	3,291	3,196			
			TD	10,546	5,251

B. MUD LOGGING PROGRAM: Mudlogger on location from surface csg to TD.**C. LOGGING PROGRAM:** LWD GR from surface casing to TD. LWD GR / E- Sonic will be run in Lateral.**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) / 4,710' (TVD). Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 5,918' (MD) / 5,376' (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 +/- 10,546' (MD) / 5,251' (TVD). Will run 4-1/2 in. Production Liner from +/- 5,768 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"	5,918'	7	23#	K-55
Prod. Liner	6.125"	5,768' - 10,546'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf. - 5,768'	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 (563.3 cu ft / 95.5 bbls). Mix Foamed Cement w/ +/- 75,000 SCF Nitrogen. Est. TOC +/- 5,610 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 (~5,900' 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.
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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 5,918 ft. MD) with a Liner Hanger and pack-off assembly then cemented to +/- 300 ft above the liner hanger. TOL will be +/- 5,768 ft. (MD) +/- 75 degree angle. TOC: +/- 5,618 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