

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: ___ Total depth, directional plan _____

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf. Owner	UL	Sec	Twp	N/S	Rng
30-045-35498-00-00	CHACO 2308 09A	146H	WPX ENERGY PRODUCTION, LLC	O	N	San Juan	F	A	9	23	N	8

Conditions of Approval:

Notify NMOCD 24hrs prior to beginning operations

Hold C104 for directional survey and "as drilled plat"

NMOCD Approved by Signature

12/30/13
Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

DEC 20 2013

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: 932' FNL & 204' FEL, sec 9, T23N, R8W – BHL: 2273' FNL & 233' FWL, Sec 9, 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 2308-00A #146H

9. API Well No.

30-045-35498

10. Field and Pool or Exploratory Area

Nageezi 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 surface chg
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

RCVD DEC 26 '13
OIL CONS. DIV.
DIST. 3

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 recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

WPX plans to change move the surface location 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 Permit Supervisor	
Signature <i>Larry Higgins</i>		Date 12/19/13	
THIS SPACE FOR FEDERAL OR STATE OFFICE USE			
Approved by <i>Ray Neumann</i>		Title EPS	Date 12/27/13
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 FFU	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

NMOCD Ar

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-35498		2 Pool Code 47540		3 Pool Name NAGEEZI GALLUP		
4 Property Code 40264		5 Property Name CHACO 2308-09A			6 Well Number 146H	
7 GRID No. 120782		8 Operator Name WPX ENERGY PRODUCTION, LLC			9 Elevation 6883'	

10 Surface Location

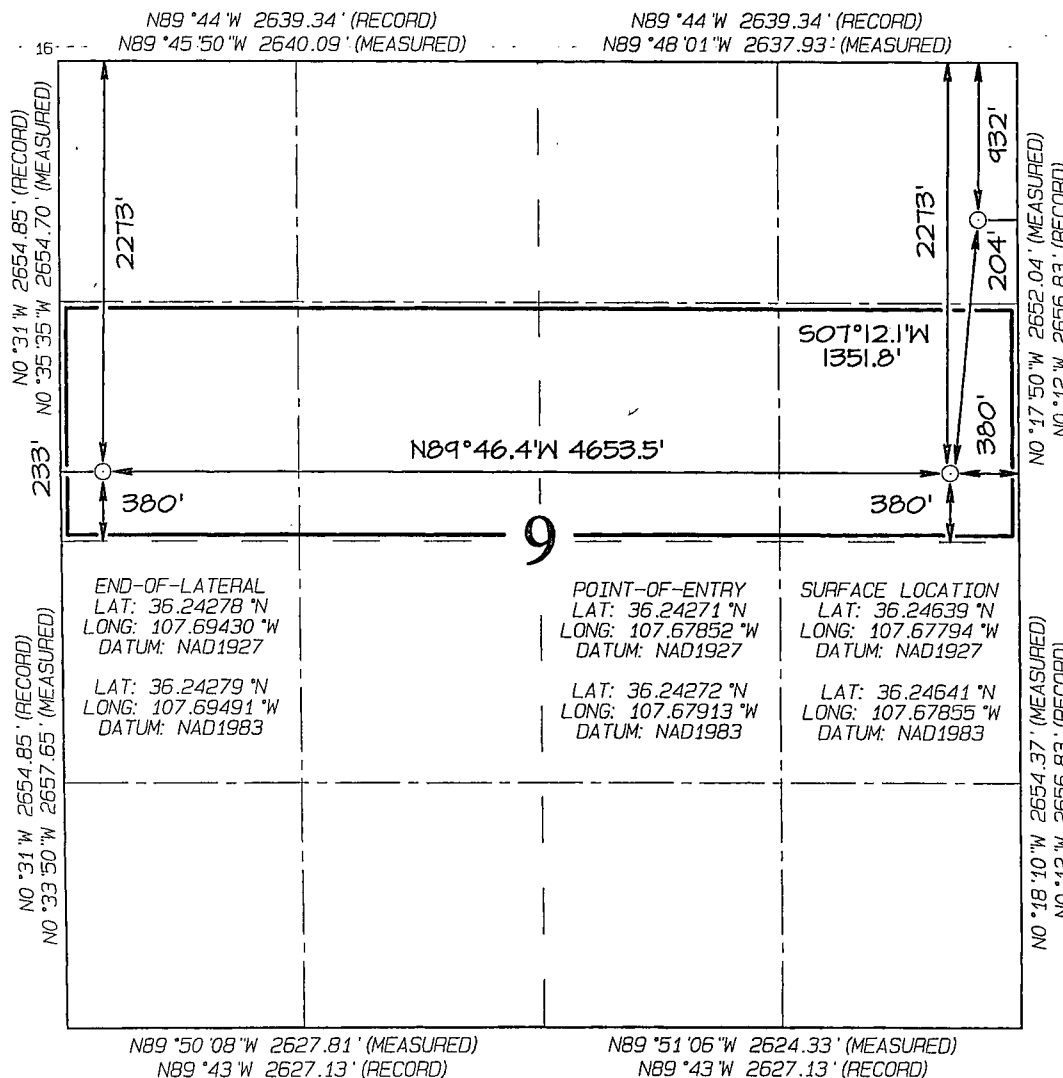
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	9	23N	8W		932	NORTH	204	EAST	SAN JUAN

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
E	9	23N	8W		2273	NORTH	233	WEST	SAN JUAN

12 Dedicated Acres 160.0 Acres - (S/2 N/2)					13 Joint or Infill		14 Consolidation Code		15 Order No. RCVD DEC 26 '13 OIL CONS. DIV.	
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION **DIST. 3**



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 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 *12/19/13*

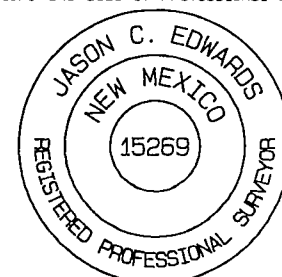
Printed Name
Larry Higgins
E-mail Address
larry.higgins@wpenergy.com

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: DECEMBER 18, 2013
Date of Survey: APRIL 19, 2013

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

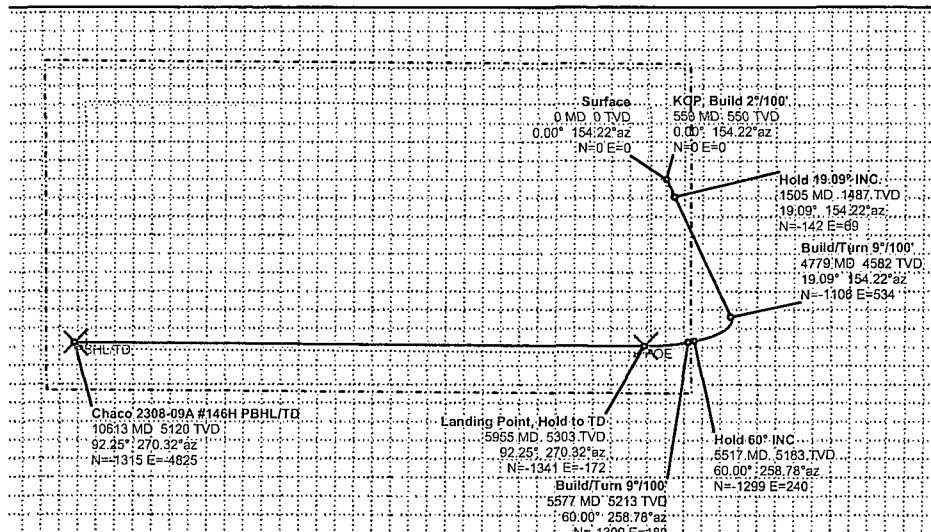
WELL	Chaco 2308-09A #146H	FIELD	NM San Juan County NAD27	STRUCTURE	Sec 9-23N-8W
Magnetic Parameters	Model: BGGM 2013	Clp: 63.009°	Date: September 26, 2013	Surface Location	NAD27 New Mexico State Plane, Western Zone, US Feet
	Mag Dec: 9.560°	FS: 50178.4mT	Lat: N 36 14 47.017	North: 1908955.87 RUS	Grid Conv: 0.092°
			Lon: W 107 40 40.578	Easting: 545821.75 RUS	Scale Fact: 0.9991907
Miscellaneous	Slit: Chaco 2308-09A #146H	TVD Ref: RKB(5687ft above MSL)	Plan: R2 mdy 16Dec13	Srvy Date: September 26, 2013	

Proposal



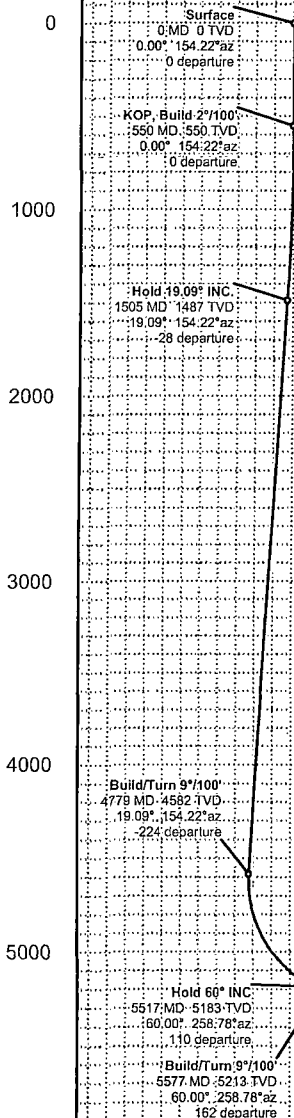
True North
Tot Corr (M->T 9.5596°)
Mag Dec (9.560°)
Grid Conv (0.092°)

<<< W Scale = 1:1500(ft) E >>>
-4500 -3000 -1500 0 1500



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

TVD Scale = 1:1000(ft)



Targets

Name	TVD(ft)	NS(ft)	EW(ft)	Latitude(deg)	Longitude(deg)	Shape
Chaco 2308-09A #146H POE	5303.00	-1341.00	-171.70	N 36 14 33.756	W 107 40 42.672	POINT
Chaco 2308-09A #146H PBHL/TD	5120.00	-1315.11	-4825.39	N 36 14 34.008	W 107 41 39.480	POINT

Critical Points

Comments	MD(ft)	INC	AZM	TVD(ft)	SS TVD	VS(ft)	NS(ft)	EW(ft)	DLS
Surface	0.00	0.00	154.22	0.00	-6897.00	0.00	0.00	0.00	
KOP, Build 2°/100'	550.00	0.00	154.22	550.00	-6347.00	0.00	0.00	0.00	0.00
Hold 19.09° INC	1504.55	19.09	154.22	1486.98	-5410.02	-28.81	-141.88	68.52	2.00
Build/Turn 9°/100'	4779.49	19.09	154.22	4581.80	-2315.20	-224.63	-1106.41	534.36	0.00
Hold 60° INC	5516.60	60.00	258.78	5183.10	-1713.90	109.98	-1299.09	240.07	9.00
Build/Turn 9°/100'	5576.60	60.00	258.78	5213.10	-1683.90	161.81	-1309.20	189.10	0.00
Landing Point, Hold to TD	5955.29	92.25	270.32	5303.00	-1594.00	518.22	-1340.99	-171.64	9.00
Chaco 2308-09A #146H PBHL/TD	10612.71	92.25	270.32	5120.00	-1777.00	5001.39	-1315.11	-4825.39	0.00

Vertical Section (ft) Azim = 254.75° Scale = 1:1000(ft) Origin = 0 N/-S, 0 E/-W



Chaco 2308-09A #146H R2 mdv 16Dec13 Proposal Geodetic Report

(Def Plan)

Report Date: December 16, 2013 - 03:23 PM
Client: WPX Energy
Field: NM San Juan County NAD27
Structure / Slot: WPX Sec 9-23N-8W (Chaco 2308-09A #146H) / Chaco 2308-09A #146H
Well: Chaco 2308-09A #146H
Borehole: Original Hole
UWI / API#: Unknown / Unknown
Survey Name: Chaco 2308-09A #146H R2 mdv 16Dec13
Survey Date: September 26, 2013
Tort / AHD / DDI / ERD Ratio: 119.519' / 6687.021 ft / 6.204 / 1.261
Coordinate Reference System: NAD27 New Mexico State Plane, Western Zone, US Feet
Location Lat / Long: N 36° 14' 47.01700", W 107° 40' 40.57800"
Location Grid N/E Y/X: N 1908965.870 IUS, E 545821.751 IUS
CRS Grid Convergence Angle: 0.0919°
Grid Scale Factor: 0.99991907

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 254.755° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 6897.000 ft above MSL
Seabed / Ground Elevation: 6883.000 ft above MSL
Magnetic Declination: 9.560°
Total Gravity Field Strength: 998.4977mgn (9.80665 Based)
Total Magnetic Field Strength: 50178.358 nT
Magnetic Dip Angle: 63.009°
Declination Date: September 26, 2013
Magnetic Declination Model: BGGM 2013
North Reference: True North
Grid Convergence Used: 0.0000°
Total Corr Mag North->True North: 9.5596°
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	154.22	0.00	0.00	0.00	0.00	N/A	1908965.87	545821.75	N 36 14 47.02	W 107 40 40.58
KOP, Build 2°/100'	100.00	0.00	154.22	100.00	0.00	0.00	0.00	0.00	1908965.87	545821.75	N 36 14 47.02	W 107 40 40.58
	200.00	0.00	154.22	200.00	0.00	0.00	0.00	0.00	1908965.87	545821.75	N 36 14 47.02	W 107 40 40.58
	300.00	0.00	154.22	300.00	0.00	0.00	0.00	0.00	1908965.87	545821.75	N 36 14 47.02	W 107 40 40.58
	400.00	0.00	154.22	400.00	0.00	0.00	0.00	0.00	1908965.87	545821.75	N 36 14 47.02	W 107 40 40.58
	500.00	0.00	154.22	500.00	0.00	0.00	0.00	0.00	1908965.87	545821.75	N 36 14 47.02	W 107 40 40.58
	550.00	0.00	154.22	550.00	0.00	0.00	0.00	0.00	1908965.87	545821.75	N 36 14 47.02	W 107 40 40.58
	600.00	1.00	154.22	600.00	-0.08	-0.39	0.19	2.00	1908965.48	545821.94	N 36 14 47.01	W 107 40 40.57
	700.00	3.00	154.22	699.93	-0.72	-3.54	1.71	2.00	1908962.34	545823.46	N 36 14 46.98	W 107 40 40.56
	800.00	5.00	154.22	799.68	-1.99	-9.82	4.74	2.00	1908956.06	545826.51	N 36 14 46.92	W 107 40 40.52
	900.00	7.00	154.22	899.13	-3.90	-19.23	9.29	2.00	1908946.66	545831.07	N 36 14 46.83	W 107 40 40.46
	1000.00	9.00	154.22	998.15	-6.45	-31.76	15.34	2.00	1908934.14	545837.14	N 36 14 46.70	W 107 40 40.39
	1100.00	11.00	154.22	1096.63	-9.62	-47.40	22.89	2.00	1908918.52	545844.72	N 36 14 46.55	W 107 40 40.30
	1200.00	13.00	154.22	1194.44	-13.42	-66.12	31.93	2.00	1908899.81	545853.79	N 36 14 46.38	W 107 40 40.19
	1300.00	15.00	154.22	1291.46	-17.85	-87.90	42.45	2.00	1908878.05	545864.34	N 36 14 46.15	W 107 40 40.06
	1400.00	17.00	154.22	1387.58	-22.88	-112.72	54.44	2.00	1908853.25	545876.37	N 36 14 45.90	W 107 40 39.91
Hold 19.09° INC.	1500.00	19.00	154.22	1482.68	-28.53	-140.54	67.88	2.00	1908825.45	545889.85	N 36 14 45.63	W 107 40 39.75
	1504.55	19.09	154.22	1486.98	-28.81	-141.88	68.52	2.00	1908824.11	545890.50	N 36 14 45.61	W 107 40 39.74
	1600.00	19.09	154.22	1577.19	-34.51	-169.99	82.10	0.00	1908796.02	545904.12	N 36 14 45.34	W 107 40 39.57
	1700.00	19.09	154.22	1671.69	-40.49	-199.45	96.33	0.00	1908766.60	545918.39	N 36 14 45.04	W 107 40 39.40
	1800.00	19.09	154.22	1766.19	-46.47	-228.90	110.55	0.00	1908737.17	545932.66	N 36 14 44.75	W 107 40 39.23
	1900.00	19.09	154.22	1860.69	-52.45	-258.35	124.77	0.00	1908707.74	545946.93	N 36 14 44.46	W 107 40 39.05
	2000.00	19.09	154.22	1955.19	-58.43	-287.80	139.00	0.00	1908678.32	545961.20	N 36 14 44.17	W 107 40 38.88
	2100.00	19.09	154.22	2049.69	-64.41	-317.25	153.22	0.00	1908648.89	545975.47	N 36 14 43.88	W 107 40 38.71
	2200.00	19.09	154.22	2144.19	-70.39	-346.70	167.45	0.00	1908619.46	545989.74	N 36 14 43.59	W 107 40 38.53
	2300.00	19.09	154.22	2238.69	-76.37	-376.16	181.67	0.00	1908590.04	546004.01	N 36 14 43.30	W 107 40 38.36
	2400.00	19.09	154.22	2333.19	-82.35	-405.61	195.90	0.00	1908560.61	546018.28	N 36 14 43.01	W 107 40 38.18
	2500.00	19.09	154.22	2427.69	-88.33	-435.06	210.12	0.00	1908531.18	546032.55	N 36 14 42.71	W 107 40 38.01
	2600.00	19.09	154.22	2522.19	-94.31	-464.51	224.34	0.00	1908501.76	546046.82	N 36 14 42.42	W 107 40 37.84
	2700.00	19.09	154.22	2616.69	-100.29	-493.96	238.57	0.00	1908472.33	546061.09	N 36 14 42.13	W 107 40 37.66
	2800.00	19.09	154.22	2711.19	-106.26	-523.42	252.79	0.00	1908442.90	546075.36	N 36 14 41.84	W 107 40 37.49
	2900.00	19.09	154.22	2805.69	-112.24	-552.87	267.02	0.00	1908413.48	546089.63	N 36 14 41.55	W 107 40 37.32
	3000.00	19.09	154.22	2900.19	-118.22	-582.32	281.24	0.00	1908384.05	546103.90	N 36 14 41.26	W 107 40 37.14
	3100.00	19.09	154.22	2994.69	-124.20	-611.77	295.47	0.00	1908354.62	546118.17	N 36 14 40.97	W 107 40 36.97
	3200.00	19.09	154.22	3089.19	-130.18	-641.22	309.69	0.00	1908325.20	546132.44	N 36 14 40.68	W 107 40 36.80
	3300.00	19.09	154.22	3183.69	-136.16	-670.68	323.91	0.00	1908295.77	546146.71	N 36 14 40.38	W 107 40 36.62
	3400.00	19.09	154.22	3278.19	-142.14	-700.13	338.14	0.00	1908266.34	546160.98	N 36 14 40.09	W 107 40 36.45
	3500.00	19.09	154.22	3372.69	-148.12	-729.58	352.36	0.00	1908236.92	546175.25	N 36 14 39.80	W 107 40 36.27
	3600.00	19.09	154.22	3467.19	-154.10	-759.03	366.59	0.00	1908207.49	546189.52	N 36 14 39.51	W 107 40 36.10
	3700.00	19.09	154.22	3561.69	-160.08	-788.48	380.81	0.00	1908178.06	546203.79	N 36 14 39.22	W 107 40 35.93
	3800.00	19.09	154.22	3656.19	-166.06	-817.94	395.04	0.00	1908148.64	546218.06	N 36 14 38.93	W 107 40 35.75
3900.00	19.09	154.22	3750.69	-172.04	-847.39	409.26	0.00	1908119.21	546232.34	N 36 14 38.64	W 107 40 35.58	
4000.00	19.09	154.22	3845.19	-178.02	-876.84	423.48	0.00	1908089.78	546246.61	N 36 14 38.35	W 107 40 35.41	
4100.00	19.09	154.22	3939.69	-184.00	-906.29	437.71	0.00	1908060.36	546260.88	N 36 14 38.05	W 107 40 35.23	
4200.00	19.09	154.22	4034.19	-189.98	-935.74	451.93	0.00	1908030.93	546275.15	N 36 14 37.76	W 107 40 35.06	
4300.00	19.09	154.22	4128.69	-195.96	-965.19	466.16	0.00	1908001.50	546289.42	N 36 14 37.47	W 107 40 34.89	
4400.00	19.09	154.22	4223.19	-201.93	-994.65	480.38	0.00	1907972.08	546303.69	N 36 14 37.18	W 107 40 34.71	
4500.00	19.09	154.22	4317.69	-207.91	-1024.10	494.61	0.00	1907942.65	546317.96	N 36 14 36.89	W 107 40 34.54	
4600.00	19.09	154.22	4412.19	-213.89	-1053.55	508.83	0.00	1907913.22	546332.23	N 36 14 36.60	W 107 40 34.36	
Build/Turn 9°/100'	4700.00	19.09	154.22	4506.69	-219.87	-1083.00	523.05	0.00	1907883.80	546346.50	N 36 14 36.31	W 107 40 34.19
	4779.49	19.09	154.22	4581.80	-224.63	-1106.41	534.36	0.00	1907860.41	546357.84	N 36 14 36.08	W 107 40 34.05
	4800.00	18.42	159.57	4601.23	-225.53	-1112.47	536.95	9.00	1907854.35	546360.44	N 36 14 36.02	W 107 40 34.02
	4900.00	17.65	188.83	4696.51	-220.76	-1142.32	540.14	9.00	1907824.51	546363.68	N 36 14 35.72	W 107 40 33.98
	5000.00	20.99	214.37	4791.03	-200.90	-1172.14	527.68	9.00	1907794.67	546351.27	N 36 14 35.43	W 107 40 34.13
	5100.00	26.96	231.13	4882.47	-166.42	-1201.21	499.87	9.00	1907765.56	546323.50	N 36 14 35.14	W 107 40 34.47
	5200.00	34.20	241.72	4968.57	-118.18	-1228.81	457.39	9.00	1907737.90	546281.07	N 36 14 34.87	W 107 40 34.99
	5300.00	42.05	248.86	5047.21	-57.36	-1254.25	401.29	9.00	1907712.37	546225.01	N 36 14 34.61	W 107 40 35.68
	5400.00	50.23	254.08	5116.47	14.53	-1276.91	332.95	9.00	1907689.60	546156.72	N 36 14 34.39	W 107 40 36.51
	5500.00	58.60	258.17	5174.62	95.73	-1296.24	254.06	9.00	1907670.15	546077.86	N 36 14 34.20	W 107 40 37.47
Hold 60° INC Build/Turn 9°/100'	5516.60	60.00	258.78	5183.10	109.98	-1299.09	240.07	9.00	1907667.28	546063.88	N 36 14 34.17	W 107 40 37.65
	5576.60	60.00	258.78	5213.10	161.81	-1309.20	189.10	0.00	1907657.09	546012.93	N 36 14 34.07	W 107 40 38.27
	5600.00	61.97	259.63	5224.44	182.21	-1313.03	169.00	9.00	1907653.22	545992.84	N 36 14 34.03	W 107 40 38.51
	5700.00	70.44	262.96	5264.76	273.00	-1326.77	78.64	9.00	1907639.33	545902.51	N 36 14 33.90	W 107 40 39.62
	5800.00	78.96	265.96	5291.13	367.97	-1336.03	-17.27	9.00	1907629.93	545806.63	N 36 14 33.81	W 107 40 40.79
	5900.00	87.52	268.78	5302.89	464.77	-1340.56	-116.37	9.00	1907625.24	545707.54	N 36 14 33.76	W 107 40 42.00
	Landing Point, Hold to TD	5955.28	92.25	270.32	5303.00	518.22	-1340.99	-171.64	9.00	1907624.72	545652.27	N 36 14 33.76
6000.00	92.25	270.32	5301.25	581.25	-1340.74	-216.31	0.00	1907624.89	545607.61	N 36 14 33.76	W 107 40 43.22	
6100.00	92.25	270.32	5297.32	657.51	-1340.18	-316.23	0.00	1907625.29	545507.69	N 36 14 33.76	W 107 40 44.44	
6200.00	92.25	270.32	5293.39	753.76	-1339.63	-416.16	0.00	1907625.69	545407.78	N 36 14 33.77	W 107 40 45.66	
6300.00	92.25	270.32	5289.47	850.02	-1339.07	-516.08	0.00	1907626.09	545307.86	N 36 14 33.78	W 107 40 46.88	
6400.00	92.											

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 ° ' ")
	7200.00	92.25	270.32	5254.12	1716.35	-1334.05	-1415.37	0.00	1907629.66	544408.64	N 36 14 33.82	W 107 40 57.85
	7300.00	92.25	270.32	5250.20	1812.61	-1333.50	-1515.29	0.00	1907630.06	544308.73	N 36 14 33.83	W 107 40 59.07
	7400.00	92.25	270.32	5246.27	1808.87	-1332.94	-1615.21	0.00	1907630.45	544208.81	N 36 14 33.84	W 107 41 0.29
	7500.00	92.25	270.32	5242.34	2005.13	-1332.38	-1715.13	0.00	1907630.85	544108.90	N 36 14 33.84	W 107 41 1.51
	7600.00	92.25	270.32	5238.41	2101.38	-1331.83	-1815.05	0.00	1907631.25	544008.99	N 36 14 33.85	W 107 41 2.73
	7700.00	92.25	270.32	5234.48	2197.64	-1331.27	-1914.97	0.00	1907631.64	543909.07	N 36 14 33.85	W 107 41 3.95
	7800.00	92.25	270.32	5230.56	2293.90	-1330.71	-2014.90	0.00	1907632.04	543809.16	N 36 14 33.86	W 107 41 5.17
	7900.00	92.25	270.32	5226.63	2390.16	-1330.16	-2114.82	0.00	1907632.43	543709.24	N 36 14 33.86	W 107 41 6.39
	8000.00	92.25	270.32	5222.70	2486.42	-1329.60	-2214.74	0.00	1907632.83	543609.33	N 36 14 33.87	W 107 41 7.61
	8100.00	92.25	270.32	5218.77	2582.68	-1329.05	-2314.66	0.00	1907633.22	543509.42	N 36 14 33.87	W 107 41 8.83
	8200.00	92.25	270.32	5214.84	2678.94	-1328.49	-2414.58	0.00	1907633.62	543409.50	N 36 14 33.88	W 107 41 10.05
	8300.00	92.25	270.32	5210.91	2775.20	-1327.93	-2514.50	0.00	1907634.02	543309.59	N 36 14 33.88	W 107 41 11.27
	8400.00	92.25	270.32	5206.98	2871.45	-1327.38	-2614.42	0.00	1907634.41	543209.68	N 36 14 33.89	W 107 41 12.49
	8500.00	92.25	270.32	5203.05	2967.71	-1326.82	-2714.34	0.00	1907634.81	543109.76	N 36 14 33.89	W 107 41 13.71
	8600.00	92.25	270.32	5199.12	3063.97	-1326.27	-2814.27	0.00	1907635.20	543009.85	N 36 14 33.90	W 107 41 14.93
	8700.00	92.25	270.32	5195.19	3160.23	-1325.71	-2914.19	0.00	1907635.60	542909.94	N 36 14 33.91	W 107 41 16.15
	8800.00	92.25	270.32	5191.26	3256.49	-1325.16	-3014.11	0.00	1907635.99	542810.02	N 36 14 33.91	W 107 41 17.37
	8900.00	92.25	270.32	5187.33	3352.75	-1324.60	-3114.03	0.00	1907636.39	542710.11	N 36 14 33.92	W 107 41 18.59
	9000.00	92.25	270.32	5183.40	3449.01	-1324.05	-3213.95	0.00	1907636.78	542610.19	N 36 14 33.92	W 107 41 19.81
	9100.00	92.25	270.32	5179.47	3545.27	-1323.49	-3313.87	0.00	1907637.17	542510.28	N 36 14 33.93	W 107 41 21.03
	9200.00	92.25	270.32	5175.54	3641.53	-1322.94	-3413.79	0.00	1907637.57	542410.37	N 36 14 33.93	W 107 41 22.25
	9300.00	92.25	270.32	5171.61	3737.79	-1322.38	-3513.71	0.00	1907637.96	542310.45	N 36 14 33.94	W 107 41 23.47
	9400.00	92.25	270.32	5167.68	3834.04	-1321.83	-3613.64	0.00	1907638.36	542210.54	N 36 14 33.94	W 107 41 24.69
	9500.00	92.25	270.32	5163.75	3930.30	-1321.28	-3713.56	0.00	1907638.75	542110.63	N 36 14 33.95	W 107 41 25.91
	9600.00	92.25	270.32	5159.82	4026.56	-1320.72	-3813.48	0.00	1907639.15	542010.71	N 36 14 33.95	W 107 41 27.13
	9700.00	92.25	270.32	5155.89	4122.82	-1320.17	-3913.40	0.00	1907639.54	541910.80	N 36 14 33.96	W 107 41 28.35
	9800.00	92.25	270.32	5151.96	4219.08	-1319.61	-4013.32	0.00	1907639.93	541810.88	N 36 14 33.96	W 107 41 29.57
	9900.00	92.25	270.32	5148.02	4315.34	-1319.06	-4113.24	0.00	1907640.33	541710.97	N 36 14 33.97	W 107 41 30.79
	10000.00	92.25	270.32	5144.09	4411.60	-1318.50	-4213.16	0.00	1907640.72	541611.06	N 36 14 33.98	W 107 41 32.01
	10100.00	92.25	270.32	5140.16	4507.86	-1317.95	-4313.08	0.00	1907641.11	541511.14	N 36 14 33.98	W 107 41 33.23
	10200.00	92.25	270.32	5136.23	4604.12	-1317.40	-4413.00	0.00	1907641.51	541411.23	N 36 14 33.99	W 107 41 34.45
	10300.00	92.25	270.32	5132.30	4700.38	-1316.84	-4512.93	0.00	1907641.90	541311.32	N 36 14 33.99	W 107 41 35.67
	10400.00	92.25	270.32	5128.36	4796.64	-1316.29	-4612.85	0.00	1907642.29	541211.40	N 36 14 34.00	W 107 41 36.89
	10500.00	92.25	270.32	5124.43	4892.90	-1315.74	-4712.77	0.00	1907642.69	541111.49	N 36 14 34.00	W 107 41 38.11
	10600.00	92.25	270.32	5120.50	4989.16	-1315.18	-4812.69	0.00	1907643.08	541011.58	N 36 14 34.01	W 107 41 39.32
Chaco 2308-09A #146H PBHL/TD	10612.71	92.25	270.32	5120.00	5001.39	-1315.11	-4825.39	0.00	1907643.13	540998.88	N 36 14 34.01	W 107 41 39.48

Survey Type: Def Plan

Survey Error Model: ISCWSA 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_UNKNOWN-Depth Only	Original Hole / Chaco 2308-09A #146H R2 mdv 16Dec13
	14.000	10612.706	1/100.000	30.000	30.000	SLB_UNKNOWN	Original Hole / Chaco 2308-09A #146H R2 mdv 16Dec13

WPX ENERGY

Operations Plan

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

DATE: 12/17/2013 **FIELD:** Nageezi (Gallup)
WELL NAME: Chaco 2308-09A #146H **SURFACE:** BLM
SH Location: NENE Sec 9 -23N -08W **ELEVATION:** 6883' GR
BH Location: SWNW Sec 9 -23N -08W **MINERALS:** BLM
San Juan Co, NM
MEASURED DEPTH: 10,613' **LEASE #:** NMNM 18463

I. GEOLOGY: Surface formation – San Jose

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	933	932	Point Lookout	4,126	3,964
Kirtland	1,065	1,062	Mancos	4,359	4,184
Pictured Cliffs	1,591	1,569	Kickoff Point	4,779	4,582
Lewis	1,775	1,743	Target Top	5,589	5,219
Chacra	2,041	1,994	Landing Point	5,955	5,303
Cliff House	3,166	3,057	Target Base	5,955	5,303
Menefee	3,236	3,123			
			TD	10,613	5,120

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, and the curve portion of the wellbore. A LSND (WBM) or (OBM) will be used to drill the lateral portion of well. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.

B. BOP TESTING: While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **1500 psi (High) for 10 minutes**. Pressure test surface casing to **600 psi for 30 minutes** and intermediate casing to **1500 psi for 30 minutes**. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. The drum brakes will be inspected and tested each tour. **All tests and inspections will be recorded in the tour book as to time and results.**

NOTE: Vertical portion of the well (8-3/4 in.) will be directionally drilled as per attached Directional Plan to +/- 4,779' (MD) / 4,582' (TVD). Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 5,955' (MD) / 5,303' (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 +/- 10,613' (MD) / 5,120' (TVD). Will run 4-1/2 in. Production Liner from +/- 5,805 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'+	9.625"	36#	J-55
Intermediate	8.75"	5,955'	7"	23#	K-55
Prod. Liner	6.125"	5,805' - 10,613'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf. - 5,805'	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 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.
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). TOC at Surface.
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 +/- 5,505 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. Increase pressure to 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 (~5,800' 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 6,148 ft. MD) with a Liner Hanger and pack-off assembly then cemented to +/- 300 ft above the liner hanger. TOL will be +/- 5,805 ft. (MD) +/- 75 degree angle. TOC: +/- 5,505 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.