

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

**District II**  
811 S. First St., 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 Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101  
Revised November 14, 2012

Energy Minerals and Natural Resources

Oil Conservation Division

AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

RCVD JUL 25 '13  
OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address WPX Energy Production, LLC P.O. Box 640 Aztec, NM 87410		<sup>2</sup> OGRID Number 120782
<sup>4</sup> Property Code <b>39590</b>		<sup>3</sup> API Number <b>30-045-35491</b>
<sup>5</sup> Property Name Chaco 2408-32P		<sup>6</sup> Well No. 115H

<sup>7</sup> Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	32	24N	8W		537	South	329	East	San Juan

<sup>8</sup> Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
M	32	24N	8W		380	South	380 280	West	San Juan

<sup>9</sup> Pool Information

Pool Name Nageezi Gallup	Pool Code 47540
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Additional Well Information

<sup>11</sup> Work Type N	<sup>12</sup> Well Type O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type S	<sup>15</sup> Ground Level Elevation 7035'
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth 10,437' MD/5,453' TVD	<sup>18</sup> Formation Gallup	<sup>19</sup> Contractor AWS	<sup>20</sup> Spud Date 08/01/13
Depth to Ground water >120'		Distance from nearest fresh water well >1000'		Distance to nearest surface water >1000'

<sup>21</sup> Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
J-55	12-1/4"	9-5/8"	36#	400'	190	Surface
K-55	8-3/4"	7"	23#	5915'	1050	Surface
N-80	6-1/8"	4-1/2"	11.6#	10,437'	420	5,440'

Casing/Cement Program: Additional Comments

A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A; A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A; A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C

<sup>22</sup> Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000#	2000#	

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.  
 I further certify that I have complied with 19.15.14.9 (A) NMAC  and/or 19.15.14.9 (B) NMAC , if applicable.  
 Signature: Larry Higgins  
 Printed name: Larry Higgins  
 Title: Permit Supervisor  
 E-mail Address: larry.higgins@wpxenergy.com  
 Date: 7/25/12 Phone: 333-1808

OIL CONSERVATION DIVISION

Approved By: Chuck Herr 8-1-2013  
 Title: SUPERVISOR DISTRICT # 3  
 Approved Date: AUG 01 2013 Expiration Date: AUG 01 2015  
 Conditions of Approval Attached

NOTIFY AZTEC COUNTY PRIOR TO CASING & CEMENT

Hold C104 for Directional Survey and "As Drilled" plat

AV AUG 01 2013 ca

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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  
RCVD JUL 29 '13  
OIL CONS. DIV.

WELL LOCATION AND ACREAGE DEDICATION PLAT DIST. 3

<sup>1</sup> API Number 30-045-35491	<sup>2</sup> Pool Code 47540	<sup>3</sup> Pool Name NAGEEZI GALLUP
<sup>4</sup> Property Code 39590	<sup>5</sup> Property Name CHACO 2408-32P	<sup>6</sup> Well Number 115H
<sup>7</sup> GRID No. 120782	<sup>8</sup> Operator Name WPX ENERGY PRODUCTION, LLC	<sup>9</sup> Elevation 7035'

<sup>10</sup> 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	32	24N	8W		537	SOUTH	329	EAST	SAN JUAN

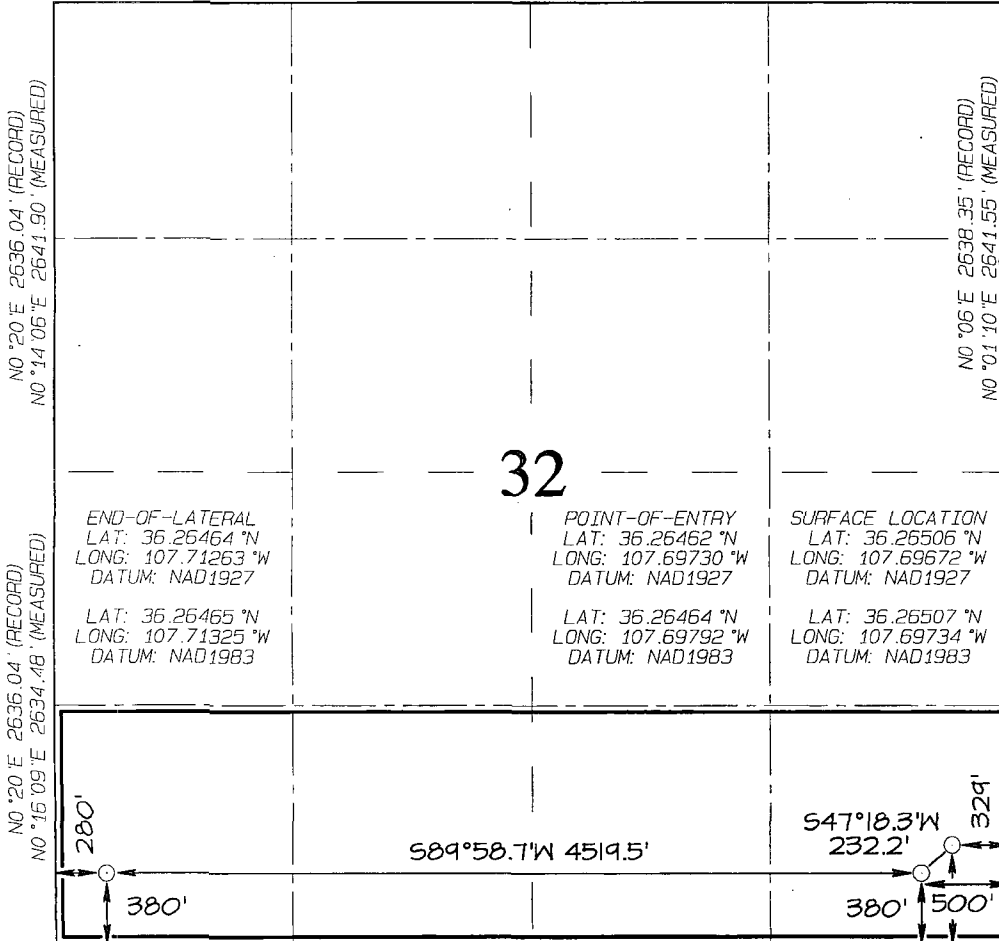
<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	32	24N	8W		380	SOUTH	280	WEST	SAN JUAN

<sup>12</sup> Dedicated Acres 160.0 Acres - (S/2 S/2)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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

<sup>16</sup> N89°59'W 2640.99' (RECORD) N89°59'W 2640.99' (RECORD)  
S89°59'28"W 2640.71' (MEASURED) S89°57'36"W 2639.88' (MEASURED)



<sup>17</sup> 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: 7/25/13  
 Printed Name: Larry Higgins  
 E-mail Address: larry.higgins@wpxenergy.com

<sup>18</sup> 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: JULY 26, 2013  
 Date of Survey: JUNE 25, 2013

Signature and Seal of Professional Surveyor

**JASON C. EDWARDS**  
 NEW MEXICO  
 REGISTERED PROFESSIONAL SURVEYOR  
 15269

**JASON C. EDWARDS**  
 Certificate Number 15269

S89°58'24"W 2650.23' (MEASURED) S89°59'00"W 2650.73' (MEASURED) 531'  
 N89°57'W 2651.55' (RECORD) N89°57'W 2651.55' (RECORD)

# WPXENERGY.

## WPX ENERGY

### Operations Plan

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

DATE: 7/24/13 FIELD: Nageezi Gallup  
WELL NAME: Chaco 2408-32P #115H SURFACE: State  
SH Location: SESE Sec 32-24N-8W ELEVATION: 7,035' GR  
BH Location: SWSW Sec 32-24N-8W San Juan Co, NM MINERALS: State  
MEASURED DEPTH: 10,437' LEASE #: NM L02986 Assignment #1

I. GEOLOGY: Surface formation – San Jose

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1,163	1,163	Point Lookout	4,256	4,218
Kirtland	1,352	1,352	Mancos	4,466	4,428
Pictured Cliffs	1,868	1,867	<b>Kickoff Point</b>	<b>5,004</b>	<b>4,966</b>
Lewis	1,967	1,966	Target Top	5,690	5,499
Chacra	2,237	2,232	<b>Landing Point</b>	<b>5,915</b>	<b>5,539</b>
Cliff House	3,343	3,318	Target Base	5,915	5,539
Menefee	3,381	3,355			
			<b>TD</b>	<b>10,437</b>	<b>5,453</b>

B. MUD LOGGING PROGRAM: Mudlogger on location from surface csg to TD.

C. LOGGING PROGRAM: LWD GR from KOP to TD. LWD GR / 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 and the 8 3/4" Directional Vertical hole and drill the curve portion of the wellbore. (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 1500 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 vertically/directionally drilled as per attached Directional Plan to +/- 5,004' MD. The 8-3/4 in. Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 5,915' (MD) +/-5,539' (TVD). 7 in. csg will be set at this point. Will drill the lateral (6-1/8 in. hole) as per the attached Directional Plan to +/- 10,437'(MD) +/- 5,453' (TVD). Will run 4-1/2 in. Production Casing to TD and Cement.**

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

Surface	12.25"	400'+	9 5/8	36#	J-55
Intermediate	8.75"	5,915'	7	23#	K-55
Longstring	6.125"	10,437	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 CASING:** Run 4-1/2" casing with cement nose guide Float Shoe + 1 joint 4-1/2" csg.+ Float Collar. Centralizer program will be determined when Lateral is evaluated by Geoscientists and Reservoir Engineers.

**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 (Yield :1.43 cu-ft/ sk. / Vol: 1216 cu-ft) + 0.1% Halad 766 + 0.2% Versaset + 1.5% Chem-Foamer 760 / TOTETANK + TAIL: 100 sx 13.5 #/gal. (Yield: 1.28 cu-ft / sk / Vol: 128 cu-ft) + 0.2% Versaset + 0.15% HALAD-766. + F. Water Displacement (1,511 cu-ft) + 100 sx Top-Out Cement Premium: Yield: (1.17 cu-ft/ sk (Vol: 117 cu-ft). Est TOC: Surface. Test Casing to 1500 PSI for 30 minutes. Total Volume: (2021 cu-ft/1050 sx/260 bbls).
3. **PRODUCTION CASING:** **STAGE 1:** 40 bbl (224.6 cu-ft) KCL water Spacer + **STAGE 2:**10 bbl (56.cu-ft) Fr Water Spacer.+ **STAGE 3:**40 bbl 10 ppg (224.6 cu-ft) Tuned Spacer III + 0.2 gal/bbl Musol + 38.7 ppb Barite + 0.5 gal/bbl SEM-7. + **STAGE 4:** 10 bbl Fr Water Spacer.+ **STAGE 5:** Lead Cement, 70 sx Premium cmt + 0.1% Halad-766, Yield 1.16 cu ft/sk, 15.8 #/gal, (70 sx / 81.2 cu ft. / 14.46 bbls) **STAGE 6:** Foamed Lead Cement: 240 sx. 50/50 Poz Standard + 0.2% Versaset + 0.2% HALAD-766 + 1.5% Chem-Foamer 760. Yield 1.43 cu-ft/sk ,13.0 ppg. (240sx / 343.2 cu-ft / 61.1bbls) + **STAGE 7:** Tail Cement : 110 sx 50/50 Poz Premium + 0.2% Versaset + .05% HALAD-766 + .05% SA-1015,Yield 1.3 cu-ft/sk,13.5 ppg. (110 sx / 143 cu ft. / 25.46 bbls) **STAGE 8:** Displace w/+/-162 bbl Fr Water. Total Cement (420 sx / 568.5 cu ft / 101.2 bbls). Mix w/ +/- 98,000 SCF Nitrogen. Est. TOC +/- 5,440 ft. Total Volume: (567.4 cu-ft / 420 sx / 101.1 bbls).

**IV. COMPLETION****A. CBL**

1. Run Cement Bond Log and ensure top of cement is above 7" casing shoe.

**B. PRESSURE TEST**

1. Pressure test 4-1/2" casing to 5000 psi max, hold at 1500 psi for 30 minutes.

**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 N<sub>2</sub> for 17 stages.
2. Isolate stages with flow through frac plug.
3. Drill out frac plugs with CTU and flowback lateral.

**D. RUNNING TUBING**

1. Production Tubing: Run 2-3/8", 4.7#, N-80, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing at landing point of curve (~5,500' MD).

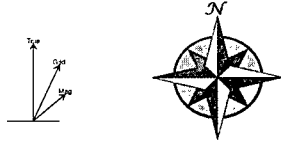
- Although this horizontal well will be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 B(1) NMAC, will be entirely within the applicable setbacks. This approach complies with all applicable 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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WELL	Chaco 2408-32P #115H	FIELD	NM San Juan County	STRUCTURE	Sec 32-24N-8W
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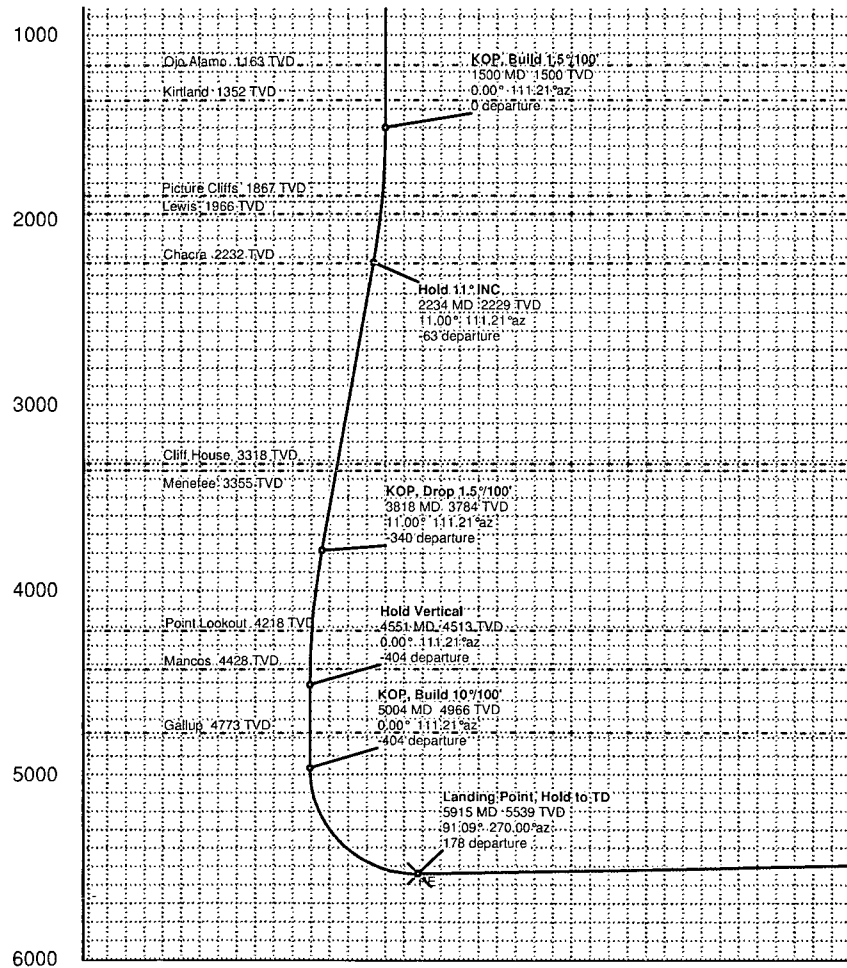
Magnetic Parameters Model: BGGM 2013 Dip: 63.027° Mag Dec: 9.591°	Date: July 16, 2013 FS: 50208.7mT	Surface Location Lat: N 36 15 54.216 Lon: W 107 41 48.192	NAD27 New Mexico State Plane, Central Zone, US Feet Northing: 1915752.36 ftUS Easting: 540273.82 ftUS Grid Conv: -0.081° Scale Fact: 1.00010816	Miscellaneous Slot: Chaco 2408-32P #115H Plan: R1 mdy 17Jul13	TVD Ref: RKB(70491 above MSL) Srvy Date: July 16, 2013
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### Proposal

True North  
Tot Corr (M->T 9.5908°)  
Mag Dec (9.591°)  
Grid Conv (0.081°)

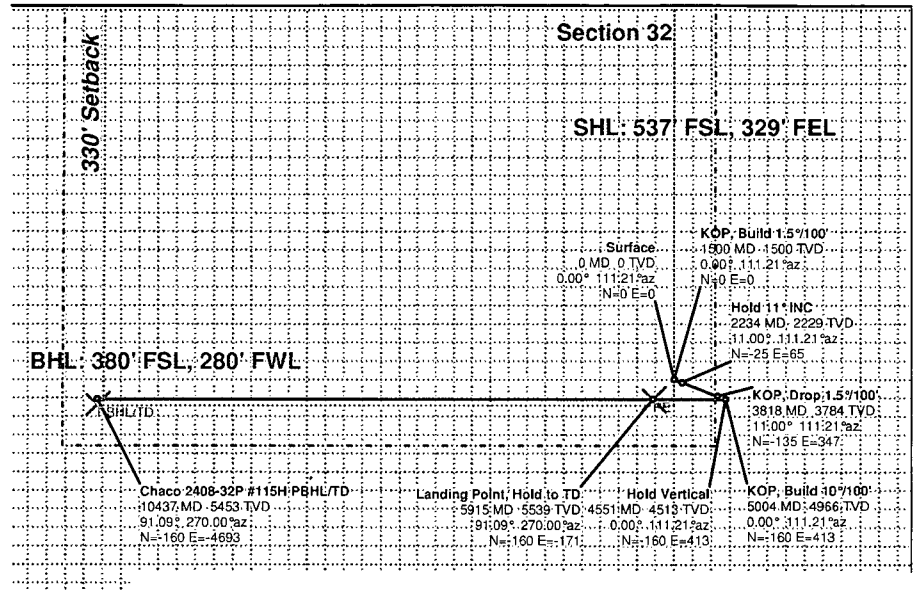


TVD Scale = 1:1000(ft)



Vertical Section (ft) Azim = 267.51° Scale = 1:1000(ft) Origin = 0 N/-S, 0 E/-W

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



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

Critical Point	MD	INCL	AZIM	TVD	YSEC	N(+) / S(-)	E(+) / W(-)	DLS
Surface	0.00	0.00	111.21	0.00	0.00	0.00	0.00	
KOP, Build 1.5°/100'	1500.00	0.00	111.21	1500.00	0.00	0.00	0.00	0.00
Hold 11° INC	2233.60	11.00	111.21	2229.10	-64.57	-25.41	65.47	1.50
KOP, Drop 1.5°/100'	3817.52	11.00	111.21	3783.90	-342.54	-134.77	347.34	0.00
Hold Vertical	4551.13	0.00	111.21	4513.00	-407.11	-160.18	412.81	1.50
KOP, Build 10°/100'	5004.27	0.00	111.21	4966.14	-407.11	-160.18	412.81	0.00
Landing Point, Hold to TD	5915.16	91.09	270.00	5539.00	176.41	-160.18	-171.04	10.00
Chaco 2408-32P #115H PBHL/TD	10437.48	91.09	270.00	5453.00	4695.27	-160.18	-4692.54	0.00

Quality Control  
Date Drawn: July 16, 2013  
02:48:52 PM  
Drawn by: Matt VanderSchaaf  
Checked by:  
Client OK:



Chaco 2408-32P #115H R1 mdv 17Jul13 Proposal Geodetic Report (Def Plan)



Report Date: July 22, 2013 - 11:45 AM
Client: WPX Energy
Field: NM San Juan County NAD27
Structure / Slot: WPX Sec 32-24N-8W (Chaco 2408-32P #115H) / Chaco 2408-32P #115H
Well: Chaco 2408-32P #115H
Borehole: Original Hole
UWI / API#: Unknown / Unknown
Survey Name: Chaco 2408-32P #115H R1 mdv 17Jul13
Survey Date: July 16, 2013
Tort / AHD / DDI / ERD Ratio: 113.098 ° / 5548.145 ft / 6.073 / 1.002
Coordinate Reference System: NAD27 New Mexico State Plane, Western Zone, US Feet
Location Lat / Long: N 36° 15' 54.21600", W 107° 41' 48.19200"
Location Grid N/E Y/X: N 1915752.362 fUS, E 540273.821 fUS
CRS Grid Convergence Angle: 0.0808 °
Grid Scale Factor: 0.99991852

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 268.045 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 7049.000 ft above MSL
Seabed / Ground Elevation: 7035.000 ft above MSL
Magnetic Declination: 9.591 °
Total Gravity Field Strength: 998.4847mgn (9.80665 Based)
Total Magnetic Field Strength: 50208.663 nT
Magnetic Dip Angle: 63.027 °
Declination Date: July 16, 2013
Magnetic Declination Model: BGM2013
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North->True North: 9.5908 °
Local Coord Referenced To: Well Head

Table with columns: Comments, MD (ft), Incl (°), Azim True (°), TVD (ft), VSEC (ft), NS (ft), EW (ft), DLS (°/100ft), Northing (fUS), Easting (fUS), Latitude (N/S ° ' '"), Longitude (E/W ° ' '"). Rows include data for Surface, KOP, Build, Hold, KOP, Drop, Hold Vertical, and Landing Point, to TD.

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	91.09	270.00	5518.37	1280.42	-160.18	-1255.68	0.00	1915590.42	539018.47	N 36 15 52.63 W 107 42 3.52	
	7100.00	91.09	270.00	5516.47	1360.34	-160.18	-1355.67	0.00	1915590.28	538918.50	N 36 15 52.63 W 107 42 4.75	
	7200.00	91.09	270.00	5514.56	1460.26	-160.18	-1455.65	0.00	1915590.14	538818.52	N 36 15 52.63 W 107 42 5.97	
	7300.00	91.09	270.00	5512.66	1560.19	-160.18	-1555.63	0.00	1915590.00	538718.55	N 36 15 52.63 W 107 42 7.19	
	7400.00	91.09	270.00	5510.76	1660.11	-160.18	-1655.61	0.00	1915589.86	538618.58	N 36 15 52.63 W 107 42 8.41	
	7500.00	91.09	270.00	5508.86	1760.04	-160.18	-1755.59	0.00	1915589.72	538518.60	N 36 15 52.63 W 107 42 9.63	
	7600.00	91.09	270.00	5506.96	1859.96	-160.18	-1855.57	0.00	1915589.58	538418.63	N 36 15 52.63 W 107 42 10.85	
	7700.00	91.09	270.00	5505.06	1959.88	-160.18	-1955.56	0.00	1915589.44	538318.65	N 36 15 52.63 W 107 42 12.07	
	7800.00	91.09	270.00	5503.15	2059.81	-160.18	-2055.54	0.00	1915589.30	538218.68	N 36 15 52.63 W 107 42 13.29	
	7900.00	91.09	270.00	5501.25	2159.73	-160.18	-2155.52	0.00	1915589.16	538118.71	N 36 15 52.63 W 107 42 14.51	
	8000.00	91.09	270.00	5499.35	2259.65	-160.18	-2255.50	0.00	1915589.01	538018.73	N 36 15 52.63 W 107 42 15.73	
	8100.00	91.09	270.00	5497.45	2359.58	-160.18	-2355.48	0.00	1915588.87	537918.76	N 36 15 52.63 W 107 42 16.95	
	8200.00	91.09	270.00	5495.55	2459.50	-160.18	-2455.47	0.00	1915588.73	537818.79	N 36 15 52.63 W 107 42 18.17	
	8300.00	91.09	270.00	5493.65	2559.43	-160.18	-2555.45	0.00	1915588.59	537718.81	N 36 15 52.63 W 107 42 19.40	
	8400.00	91.09	270.00	5491.74	2659.35	-160.18	-2655.43	0.00	1915588.45	537618.84	N 36 15 52.63 W 107 42 20.62	
	8500.00	91.09	270.00	5489.84	2759.27	-160.18	-2755.41	0.00	1915588.31	537518.87	N 36 15 52.63 W 107 42 21.84	
	8600.00	91.09	270.00	5487.94	2859.20	-160.18	-2855.39	0.00	1915588.17	537418.89	N 36 15 52.63 W 107 42 23.06	
	8700.00	91.09	270.00	5486.04	2959.12	-160.18	-2955.38	0.00	1915588.03	537318.92	N 36 15 52.63 W 107 42 24.28	
	8800.00	91.09	270.00	5484.14	3059.04	-160.18	-3055.36	0.00	1915587.89	537218.95	N 36 15 52.63 W 107 42 25.50	
	8900.00	91.09	270.00	5482.24	3158.97	-160.18	-3155.34	0.00	1915587.75	537118.97	N 36 15 52.63 W 107 42 26.72	
	9000.00	91.09	270.00	5480.33	3258.89	-160.18	-3255.32	0.00	1915587.60	537019.00	N 36 15 52.63 W 107 42 27.94	
	9100.00	91.09	270.00	5478.43	3358.82	-160.18	-3355.30	0.00	1915587.46	536919.03	N 36 15 52.63 W 107 42 29.16	
	9200.00	91.09	270.00	5476.53	3458.74	-160.18	-3455.29	0.00	1915587.32	536819.05	N 36 15 52.63 W 107 42 30.38	
	9300.00	91.09	270.00	5474.63	3558.66	-160.18	-3555.27	0.00	1915587.18	536719.08	N 36 15 52.63 W 107 42 31.60	
	9400.00	91.09	270.00	5472.73	3658.59	-160.18	-3655.25	0.00	1915587.04	536619.11	N 36 15 52.63 W 107 42 32.82	
	9500.00	91.09	270.00	5470.83	3758.51	-160.18	-3755.23	0.00	1915586.90	536519.13	N 36 15 52.63 W 107 42 34.05	
	9600.00	91.09	270.00	5468.93	3858.43	-160.18	-3855.21	0.00	1915586.76	536419.16	N 36 15 52.63 W 107 42 35.27	
	9700.00	91.09	270.00	5467.02	3958.36	-160.18	-3955.20	0.00	1915586.62	536319.19	N 36 15 52.63 W 107 42 36.49	
	9800.00	91.09	270.00	5465.12	4058.28	-160.18	-4055.18	0.00	1915586.48	536219.21	N 36 15 52.63 W 107 42 37.71	
	9900.00	91.09	270.00	5463.22	4158.20	-160.18	-4155.16	0.00	1915586.34	536119.24	N 36 15 52.63 W 107 42 38.93	
	10000.00	91.09	270.00	5461.32	4258.13	-160.18	-4255.14	0.00	1915586.19	536019.27	N 36 15 52.63 W 107 42 40.15	
	10100.00	91.09	270.00	5459.42	4358.05	-160.18	-4355.12	0.00	1915586.05	535919.29	N 36 15 52.63 W 107 42 41.37	
	10200.00	91.09	270.00	5457.52	4457.98	-160.18	-4455.10	0.00	1915585.91	535819.32	N 36 15 52.63 W 107 42 42.59	
	10300.00	91.09	270.00	5455.61	4557.90	-160.18	-4555.09	0.00	1915585.77	535719.34	N 36 15 52.63 W 107 42 43.81	
	10400.00	91.09	270.00	5453.71	4657.82	-160.18	-4655.07	0.00	1915585.63	535619.37	N 36 15 52.63 W 107 42 45.03	
Chaco 2408-32P #115H PBHL/TD	10437.48	91.09	270.00	5453.00	4695.27	-160.18	-4692.54	0.00	1915585.58	535581.91	N 36 15 52.63 W 107 42 45.49	

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_MWD-STD-Depth Only	Original Hole / Chaco 2408-32P #115H R1 mdv 17Jul13
	14.000	10437.476	1/100.000	30.000	30.000	SLB_MWD-STD	Original Hole / Chaco 2408-32P #115H R1 mdv 17Jul13