State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

David Martin Cabinet Secretary

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: 9/2/14

Well information:

API WELL #	Well Name	Well #	Operator Name	Туре	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E	Feet	NS	Ft	EW
30-045-	CHACO	395H	WPX ENERGY	0	N	San	F	H	6	23	N	8	W	1687	N	291	E
35553-00-	2308 06Н		PRODUCTION, LLC			Juan											
00																	

<u> </u>
Application Type: P&A Drilling/Casing Change Location Chang
Recomplete/DHC (For hydraulic fracturing operations review EPA Underground injection control Guidance #84)
Other: Name change
Conditions of Approval:
Notify NMOCD 24hrs prior to beginning operations Hold C-104 for as drilled plat, directional survey and NSL
(For hydraulic fracturing operations review EPA Underground injection control Guidance #84)
Well Hypa
NMOCD Approved by Signature Date -

Form 3160-5 (February 2005)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS SEP 32 2014 5. Lease Serial No. NMNM 109399

Do not use this f	orm for proposals	to drill or to re-ent	oran ~	<u> </u>				
abandoned well. I	Use Form 3160-3 (A	(PD) for such prop	Rigion Field (1990 Pluqiai	n, Allottee or Tribe N	Jame		
-	IT IN TRIPLICATE - Oth	1147		7. If Uhit o	of CA/Agreement, N	ame and/or No.		
1. Type of Well	THE THE EIGHT OF	er manachons on page 2		1	g g. ee e			
				9 Wall Ni	ime and No.			
Oit Well Gas	Well Other				2308-06H #395F	-4		
2. Name of Operator	Well Culci			9. API We				
WPX Energy Production, LLC			٠.	30-045-3				
3a. Address		3b. Phone No. (include a	rea code)	code) 10. Field and Pool or Explorato				
PO Box 640 Aztec, NM 87	7410	505-333-1808		Nageezi	Gallup	•		
4. Location of Well (Footage, Sec.,		tion) .		11. Country or Parish, State				
SHL:1687° FNL & 291° FEL SEC 6 BHL: 330° FNL & 230° FWL SEC 6				San Jua	n County, NM			
	HE APPROPRIATE BOX(I	ES) TO INDICATE NATU	RE OF NOTICE R	EPORT OR	OTHER DATA			
	I ATTROCKITE BOX(ETONT ON	OTILICIDATA			
TYPE OF SUBMISSION		YPE OF ACTION						
Notice of Intent	Acidize	Deepen	[] Produ (Start/Resi	action ame)	Water Shut-Of	r		
2_3 Notice of Intell	Alter Casing	Fracture Treat	<u> </u>	mation	Well Integrity			
			_		<u> </u>	hange/Realign		
Subsequent Report	Casing Repair	New Construction	Reco	mplete	lateral			
·	Change Plans	Plug and Abandon	Temp Abandon	oorarily	nate	SEP 3'14		
Final Abandonment Notice	r Disposal							
13. Describe Proposed or Completed	Convert to Injection Operation: Clearly state a	Plug Back I pertinent details, includin			proposed work and a	nonroximate		
duration thereof. If the proposal	I is to deepen directionally of	or recomplete horizontally,	give subsurface loc	ations and m	casured and true ver	tical depths of		
all pertinent markers and zones, subsequent reports must be filed								
recompletion in a new interval,								
requirements, including reclama	ation, have been completed	and the operator has determ	nined that the site is	ready for fir	ral inspection.)	•		
W/DV plane to plane to re	alian the leteral on th	is wall as not attached	1 C 102 anarati	ana nlan a		ONS. DIV.		
WPX plans to plans to re this horizontal well will b								
the completed interval in								
approach complies with	all applicable rules,	including 19.15.16.1	4 A(3) NMAC,	19.15.16.	14 B(2) NMAC,	19.15.16.15		
B(2)NMAC, and 19.15.16	6.15. B(4) NMAC. WF	PX would also like to						
2308-06H #395H.	^ 1 ·				r acceptance o Believe the Les			
CONDITIONS APPRO	JV				etaining any o			
dhere to previous pas ued stip t	ulate	•			Quired for op			
difference to province of the control of the contro			OR DEDICA	al and in	idian lands			
14. I hereby certify that the foregoing i	s true and correct.				15.7			
Name (Printed/Typed) Larry Higgins			Title Regulatory	, Snacialis	.t	IST. 3		
Larry Fingsino	11		Tide Tregulator	Opecialis				
Signature /	tani		Date 9/2/14					
	THIS SPACE FO	R FEDERAL OR S	TATE OFFICE	USE				
Approved by	-//		Petrole	un		1		
Willian	n Tambeke	PU	Title Eng	nneer	Date $9/2$	12014		
Conditions of approval, if any, are attac			at	<u></u>				
the applicant holds legal or equitable tit applicant to conduct operations thereon		ct lease which would entitle	the Office F	-0	•			
					1			
Title 18 U.S.C. Section 1001 and Title	-		7.	у то таке то а	any department or age	ncy or the		

(Instructions on page 2)

Osstrict 1 4625 N. French Drive, Hobbs, NM 88240 Phons: (575) 399–6161 Fax: (575) 399–0720 District II 811 S. First Street, Antesia, 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

1220 S. St. Francis Drive, Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

S89 °32 W 2654.52 ' (RECORD)

District IV

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

045 30- 03 9-35	IPI Number			*Pool Coo 47540		Pool Name NAGEEZI GALLUP					
*Property	Code				*Property		2 M	*Well Number			
13130	COU				CHACO 23	308-06H		395H			
OGRID I				:	*Operator		_	9 ["Elevation		
12078	2			WPX	ENERGY PR	ODUCTION, LL		6927			
	¹⁰ Surface Location										
Ot, or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South line	Foot from the	East/West line	County		
Н	6	23N	BW		1687	NORTH	291	EAST	SAN JUAN		
	·	1	¹ Botto	m Hole	Location I	f Different F	rom Surface	9			
Ut, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West_line	County		
D	6	23N	8W	4	330	NORTH	230	WEST	SAN JUAN		
18 Dedicated Acres	163.3	4 Acres	- N/2	N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	RCVD SE	P3'14		

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 OIL COMS. DIV.

N89 *57 W 2651.55 ' (RECORD) S89 *58 '43 "W 2650.36 ' (MEASURED) S89 *27 '51"W 2653.43' (MEASURED) 16 330 LOT · (MEASURED) · (RECORD) 1687 2 N79°38.6'W 4815.3' LOT <u>a</u> 7 (MEASURED) L.OT (PECORD) 380 LOT Δ 32 3 2697.. 2700.(73 89 NI2°54.3'W 2638. 2638. END-OF-LATERAL LAT: 36.262636 N LONG: 107.730801 W 480.5 ≤ ≤ 0.0 Printed Name .08 NO2 \mathbf{z} 291 LOT DATUM: NAD1927 .60 .60. N02 5 E-mail Address 90 LAT: 36.262649 N -ONG: 107.731414 W 8 LONG: S DATUM: NAD1983 POINT-OF-ENTRY SURFACE LOCATION LAT: 36.258956°N LONG: 107.714376°W LAT: 36.260243 N LONG: 107.714738 W DATUM: NAD1927 (MEASURED) (RECORD) (MEASURED) LOT LOT DATUM: NAD1927 (RECORD) 9 8 LAT: 36.260256 °N LONG: 107.715350 °W LAT: 36.258969 N LONG: 107.714988 W DATUM: NAD1983 DATUM: NAD1983 2639.01 . 89 6.4 2660. 2662. 2638.6 ≨ ≨ 3 00 33 .60. LOT NO2 '05 NO2 ' LOT 0, 8 10 11 NB7 "58 '25 "W 2861.91" (MEASURED) S88 °54'07"W 2629.11' (MEASURED) N87 *59 W 2861.76 (RECORD) SB8 *58 W 2628.12 (RECORD)

17 OPERATOR CERTIFICATION UPERATUR 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.

2/14

DIST: 3

Larry Higgins

larry.higgins@wpxenergy.com

*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: AUGUST 27, 2014 Date of Survey: AUGUST 25, 2014

Signature and Seal of Professional Surveyor



ASON DWARDS

15269

Certificate Number



WPX ENERGY

Operations Plan

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

DATE:

8/29/14

FIELD:

Nageezi Gallup

WELL NAME:

Chaco 2308-06H #395H

SURFACE:

BLM

SH Location:

SENE Sec 6 -23N -08W

San Juan Co., NM

ELEVATION:

6927' GR

BH Location:

NWNW Sec 6 -23N -08W

MINERALS:

BLM

MEASURED DEPTH: 10,661'

LEASE #:

NMNM 109399

I. GEOLOGY:

Surface formation - Nacimiento

A. FORMATION TOPS: (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1047	1044	Point Lookout	4104	4094
Kirtland	1282	1275	Mancos	4308	4250
Picture Cliffs	1638	1625	Kickoff Point	4763	4703
Lewis	1783	1768	Top Target	5390	5232
Chacra	2055	2035	Landing Point	5844	5369
Cliff House	3133	3094	Base Target	5844	5369
Menefee	3190	3150			
			TD	10661	5210

- **MUD LOGGING PROGRAM:** Mudlogger on location from surface csg to TD.
- LOGGING PROGRAM: LWD GR from surface casing to TD. C.
- 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 att ached Directional Plan to +/- 4,763' (MD) / 4,703' (TVD). Curve portion of wellbore will be drilled and landed at +/- 90 deg. at +/- 5,844' (MD) / 5,369' (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 +/- 10,661' (MD) / 5,210' (TVD). Will run 4-1/2 in. Production Liner from +/- 5,694 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"	4()()'+-	9.625"	36#	J-55
Intermediate	8.75"	5844'	7"	23#	K-55
Prod. Liner	6.125"	5,694' - 10,661'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf 5,694'	4-1/2"	11.6#	N-80

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft.
- 3. <u>PRODUCTION LINER:</u> 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. <u>TIE-BACK CASING</u>: None

C. **CEMENTING**:

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

- 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 (536.3 cu ft / 95.5 bbls). Mix Foamed Cement w/ +/- 75,000 SCF Nitrogen. Est. TOC +/- 5,394 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. <u>Production Tubing:</u> Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner point of curve (~5,700' 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 5,844 ft. MD) with a Liner Hanger and pack-off assembly then cemented to +/- 300 ft above the liner hanger. TOL will be \pm -- 5,694 ft. (MD) +/- 78 degree angle. TOC: \pm -- 5,394 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.

WPXENERGY.

Well Name: Chaco 2308-06H #395H

Surface Location: Chaco 2308-06H

NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003

Ground Elevation: 6927.0

KELLY BUSHING @ 6941.0usft

+N/-S +E/-W Northing 0.0 0.0 1913523.70

Easting Latittude 535071.64 36.258956

Longitude -107.714376

Slot

M M

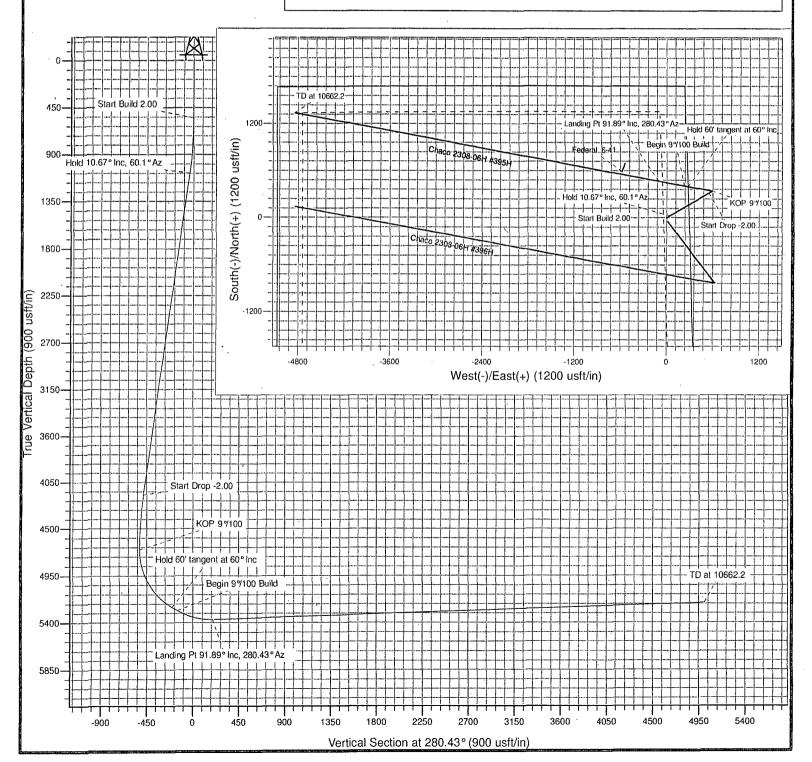
Azimuths to True North Magnetic North: 9.43"

Magnetic Field

Strongth: 50148.6snT Dip Angle: 62.98° Date: 8/15/2014 Model: IGRF2010

Project: SJ 06-23N-08W Site: Chaco 2308-06H Well: Chaco 2308-06H #395H Design #1 15Aug14 kjs

ANNOTATIONS											
TVD 550.0 1080.6 4172.1 4702.7 5254.0 5284.0 5369.0 5210.0	MD 550.0 1083.7 4229.6 4763.3 5430.0 5490.0 5844.3 10661.2	0.00 10.67 10.67 0.00 60.00 60.00 91.89 91.89	Azi 0.00 60.10 60.10 60.10 280.43 280.43 280.43	+N/-S 0.0 24.7 315.2 339.9 397.5 406.9 468.4 1339.7	+E/-W 0.0 43.0 548.1 591.1 278.0 226.9 -106.8 -4841.5	VSact 0.0 -37.8 -482.0 -519.8 -201.5 -149.5 189.8 5004.1	Departure 0.0 49.6 632.3 681.9 1000.2 1052.2 1391.4 6205.7	Annotation Start Build 2.00 Hold 10.67° lnc, 60.1" Az Start Drop -2.00 KOP 99100 Hold 60° tangent at 60° lnc Begin 9°100 Build Landing Pt 91.89° lnc, 280.43° Az TD at 10662.2			





SAN JUAN BASIN

SJ 06-23N-08W Chaco 2308-06H Chaco 2308-06H #395H

Wellbore #1

Plan: Design #1 15Aug14 kjs

Standard Planning Report - Geographic

28 August, 2014



Planning Report - Geographic

Databaso:« COMPASS SANJUAN SAN JUAN BASIN Company: SJ 06-23N-08W Project: Site: Chaco 2308-06H Well:

Chaco 2308-06H #395H Wellbore #1

Design #1 15Aug14 k

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method: **

Well Chaco 2308-06H #395H

KELLY BUSHING @ 6941 Ousfi KELLY BUSHING @ 6941 Ousfi True Minimum Curvature

SJ 06-23N-08W Project **

Map System: Geo Datum:

Wellbore:

Design:

US State Plane 1927 (Exact solution) NAD 1927 (NADCON CONUS)

New Mexico West 3003 Map Zone:

System Datum:

Mean Sea Level

Site

Site Position: From:

Мар

Northing: Easting:

1,913,523.71 usft 535,071.64 usft

Latitude:

Longitude:

36.258957 -107.714376 0.07

Position Uncertainty:

Slot Radius:

13.200 in

Grid Convergence:

Well Position

Weil

+N/-S

+E/-W

Chaco 2308-06H #395H > 0.0 usft

0.0 usft

Northing:

1,913,523.71 usft Easting: 535,071.64 usft

Latitude:

Longitude:

36.258957 -107.714376

Position Uncertainty

0.0 usft 0.0 usft

Wellhead Elevation:

0.0 usft

Ground Level:

6,927.0 usft

Wellbore 3

Magnetics Model Name

IGRF2010

Sample Date 8/15/2014 Declination (°)

9.43

Dip Angle

Field Strength

50,149

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.0 Direction

.(°,),,课

280.43

62.98

Vertical Section: Depth From (TVD) +N/-S +E/-W (usft) (usft) (usft) 0.0 0.0 0.0

Plan Sections Measured Depth (usft)	inclination (9)	Azimuth,	Vertical Depth (üsft)	+N/-S (usft)	+E/-W -(usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	Ţ F Ο - ↓ (8)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
550.0	0.00	0.00	550.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,083.7	10.67	60.10	1,080.6	24.7	43.0	2.00	2.00	0.00	60.10	
4,229.6	10.67	60.10	4,172.1	315.2	548.1	0.00	0.00	0.00	0.00	
4,763.3	0.00	0.00	4,702.7	339.9	591.1	2.00	-2.00	0.00	180.00	
5,430.0	60.00	280.43	5,254.0	397.5	278.0	9.00	9.00	0.00	280.43	
5,490.0	60.00	280.43	5,284.0	406.9	226.9	0.00	0.00	0.00	0.00	
5,844.3	91.89	280.43	5,369.0	468.4	-106.8	9.00	9.00	0.00	0.00	
10,662.2	91.89	280.43	5,210.0	1,339.9	-4,842.5	0.00	0.00	0.00	0.00	TD / PBHL Chaco #39



WPX

Planning Report - Geographic

COMPASS: SANJUAN SANJUAN BASIN SJ:06-23N-08W Chaco 2308-06H Chaco 2308-06H #395H Databaso: Company: Projoct: Sito: ** Woll:

Wellbore: Design: Wellbore #1. Design #1 15Aug14 kjs Local Co-ordinate Reference:

TVD Reforence: MD Reference: North Reference:

Survey Calculation Method:

Well Chaco 2308706H #395H KELLY BÜSHING @ 6941 oust KELLY BÜSHING @ 6941 oust True Minimum Curvature.

		NACH TE	3175 CF 1	TIMANIAN TONET	7	and the state of the state of	The state of the state of	And was a substitute to be a substitute of the s	" o grown, publish gardig," accept mark
Planned Survey						the back			his property and the
Measurod			Vertical		Total State	Map	Map	法被诉讼 经	
Dopth	Inclination	Azlmuth	Depth	+N/-S	2+E/-W - 1	Northing	Easting =	A SECTION AND A SECTION AS	建制度标识
(usft)		(9)	e (usft)	1 Table 1 Table 1	(usft)	3.7	(usft)	Latitude	Longitude
and the second		all the same and the same and the	100			The state of the s			
0.0	0.00	0.00	0.0	0.0	0.0	1,913,523.71	535,071.64	36.258957	-107.714376
,200,0	0.00	0.00	200.0	0.0	0.0	1,913,523.71	535,071.64	36.258957	-107.714376
400.0 550.0	0.00 0.00	0.00 0.00	400.0	0,0 0.0	0.0 0.0	1,913,523.71	535,071.64	36.258957	-107.714376
Start Buil			550.0			1,913,523.71	535,071.64	36.258957	-107.714376
600.0	1.00	60.10	600.0	的影响是 :		1 012 522 02	626.073.03	26.259.67	407.714075
800.0	5.00	60.10	799.7	0.2 5.4	0.4 9.5	1,913,523.93 1,913,529.15	535,072.02 535,081.08	36.258957 36.258971	-107.714375 -107.714344
1,000.0	9.00	60.10	998.2	17.6	9.5 30.6	1,913,541.33	535,061.08	36.259005	-107.714344
1,083.7	10.67	60.10	1,080.6	24.7	43.0	1,913,548.47	535,114.58	36.259024	-107.714230
(TE WEST AND THE	en e		in early administration of the	SECTION OF THE CASE		CHEST THE STATES
1,200.0	10.67	60.10	1,194.9	35.4	61.6	1,913,559.23	535,133.24	36.259054	-107.714167
1,400.0	10.67	60.10	1,391.4	53.9	93.8	1,913,577.74	535,165,34	36.259105	-107.714058
1,600.0	10.67	60.10	1,588.0	72.4	125.9	1,913,596.24	535,197.43	36,259155	-107.713949
1,800.0	10.67	60.10	1,784.5	90.9	158.0	1,913,614.75	535,229.52	36.259206	-107.713840
2,000.0	10.67	60.10	1,981.1	109.3	190.1	1,913,633.26	535,261.61	36.259257	-107.713731
2,200.0	10.67	60.10	2,177.6	127.8	222.2	1,913,651.76	535,293.71	36.259308	-107.713622
2,400.0	10.67	60.10	2,374.1	146.3	254.3	1,913,670.27	535,325.80	36.259358	-107.713513
2,600.0	10.67	60.10	2,570.7	164.7	286.5	1,913,688.78	535,357.89	36,259409	-107.713404
2,800.0	10.67	60.10	2,767.2	. 183.2	318.6	1,913,707.28	535,389.98	36.259460	-107.713295
3,000.0	10.67	60.10	2,963.8	201.7	350.7	1,913,725.79	535,422.08	36.259510	-107.713186
3,200.0	10.67	60.10	3,160.3	220.1	382.8	1,913,744.30	535,454.17	36.259561	-107.713078
3,400.0	10.67	60.10	3,356.8	238.6	414.9	1,913,762.80	535,486.26	36.259612	-107.712969
3,600.0	10.67	60.10	3,553.4	257.1	447.0	1,913,781.31	535,518.35	36.259663	-107.712860
3,800.0 4,000.0	10.67 10.67	60.10 60.10	3,749.9	275.5	479.1	1,913,799.82	535,550.45	36.259713	-107.712751
4,200.0	10.67	60.10	3,946.5 4,143.0	294.0 312.5	511.3 543.4	1,913,818.32 1,913,836.83	535,582.54 535,614.63	36.259764 36.259815	-107.712642
4,229.6	10.67	60.10	4,172.1	315.2	548.1	1,913,839.57	535,619.38	36.259822	-107.712533 -107.712517
Start Dro		SENERI DE	TATE CHARACTE	Taring	KA MARKATAN	1,010,000.07 1337433.88 -3-55	SELIK PRITES SEL	MARTINITATION	世界下沿海網路高鐵在。
4,400.0	7.27	60.10	4,340.4	328.4	571.2	1,913,852.84	535,642.39	36.259859	-107.712439
4,600.0	3.27	60.10	4,539.5	337.6	587.1	1,913,862.01	535,658.29	36,259884	-107.712385
4,763.3	0.00	60.10	4,702.7	339.9	591.1	1,913,864.33	535,662.32	36.259890	-107.712371
* XKOP 9°/10	- Maria Colonia and a second	被他x 研究	THE		新年 四本を か	The state of the s	MATTER ME		
4,800.0	3.30	280.43	4,739.4	340.1	590.1	1,913,864.52	535,661.28	36.259891	-107.712374
5,000.0	21.30	280,43	4,934.0	347.8	548.3	1,913,872.15	535,619.53	36.259912	-107.712516
5,200.0	39.30	280.43	5,105.9	366.0	449.5	1,913,890.23	535,520.67	36.259962	-107.712851
5,400.0	57.30	280.43	5,238.4	392.9	303.2	1,913,916.97	535,374.38	36.260036	-107.713347
5,430.0	60.00	280.43	5,254.0	397.5	278.0	1,913,921.58	535,349.18	36.260049	-107.713433
* #\$3 Hold 60' t	to the same of the state and	Inc.	基的學家就			The state of the state of the	TO EXPOSE AND		
5,490.0	60.00	280.43	5,284.0	406.9	226.9	1,913,930.92	535,298.06	36.260074	-107.713606
Begin 9°/	harm to result on herita , andres to an		and Carrie		出版 影響	N Parketha	the lateral second		Ser my Bulled
5,600.0	69.90	280.43	5,330.6	425.0	129.0	1,913,948.82	535,200.15	36.260124	-107.713938
5,800.0	87.90	280.43	5,368.9	460.3	-63.2	1,913,983.96	535,007.88	36.260221	-107.714590
5,844.3	91.89	280.43	5,369.0	468.4	-106.8	1,913,991.93	534,964.29	36.260243	-107.714738
Landing F						1014.010.01	F24 944 24	26 260224	407.715.257
6,000.0	91.89	280.43	5,363.8	496.5	-259.8 456.4	1,914,019.91	534,811.24	36.260321 36.260420	-107.715257
6,200.0	91.89	280.43 280.43	5,357.2 5,350.6	532.7 568.9	-456.4 -653.0	1,914,055.85 1,914,091.78	534,614.60 534,417.97	36.260519	-107.715924 -107.716591
6,400.0 6,600.0	91.89 91.89	280.43	5,350.6 5,344.0	605.1	-849.6	1,914,091.76	534,221.33	36.260619	-107.717258
6,800.0	91.89	280.43	5,337.4	641.2	-1,046.2	1,914,163.66	534,024.70	36.260718	-107.717924
7,000.0	91.89	280.43	5,330.8	677.4	-1,242.7	1,914,199.60	533,828.07	36.260817	-107.718591
7,200.0	91.89	280.43	5,324.2	713.6	-1,439.3	1,914,235.54	533,631.43	36.260917	-107.719258
7,400.0	91.89	280.43	5,317.6	749.8	-1,635.9	1,914,271.48	533,434.80	36.261016	-107.719925
7,600.0	91.89	280.43	5,311.0	786.0	-1,832.5	1,914,307.42	533,238.17	36.261116	-107.720592
7,800.0	91.89	280.43	5,304.4	822,1	-2,029.1	1,914,343.36	533,041.53	36.261215	-107.721258



WPX

Planning Report - Geographic

COMPASS SANJUAN SAN JUAN BASIN SJ 06-23N-08W Chaco 2308-06H Chaco 2308-06H #395H Databaso: Company: Project: 😤 👊 Woll: Site:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Mothod:

Wall Chaco 2308:06H #395H KELLY BUSHING @ 6941 0ush KELLY BUSHING @ 6941 0ush True Minimum Curvature

Wellbore #1 Design #1 15Aug14 kjs Wellbore: Dosign:

Planned Survey						The state of the	the second of the second	The Following	
Moasured Depth (usft)	inclination (°)	Azimuth	Vortical Depth	+N/-S (usft)	E/-W	Map Northing (usft)	Map Easting (usft)	Latitudo »	Longitude
8,000.0	91.89	280.43	5,297.8	858.3	-2,225.7	1,914,379.30	532,844.90	36.261314	-107.721925
8,200.0	91.89	280.43	5,291.2	894.5	-2,422.3	1,914;415,24	532,648.26	36.261414	-107.722592
8,400.0	91.89	280.43	5,284.6	930.7	-2,618.9	1,914,451.18	532,451.63	36.261513	-107.723259
8,600.0	91.89	280.43	5,278.0	966.9	-2,815.5	1,914,487.12	532,255.00	36.261612	-107.723926
8,800.0	91.89	280.43	5,271.4	1,003.1	-3,012.0	1,914,523.06	532,058.36	36.261712	-107.724593
9,000.0	91.89	280.43	5,264.8	1,039.2	-3,208.6	1,914,559.00	531,861.73	36,261811	-107.725260
9,200.0	91.89	280.43	5,258.2	1,075.4	-3,405.2	1,914,594.94	531,665.10	36.261910	-107.725926
9,400.0	91.89	280.43	5,251.6	1,111.6	-3,601.8	1,914,630.88	531,468.46	36.262010	-107.726593
9,600.0	91.89	280.43	5,245.0	1,147.8	-3,798.4	1,914,666.82	531,271.83	36.262109	-107.727260
9,800.0	91.89	280.43	5,238.4	1,184.0	-3,995.0	1,914,702.76	531,075.20	36.262208	-107.727927
10,000.0	91.89	280.43	5,231.9	1,220.1	-4,191.6	1,914,738.69	530,878.56	36.262308	-107.728594
10,200.0	91.89	280.43	5,225.3	1,256.3	-4,388.2	1,914,774.63	530,681.93	36,262407	-107,729261
10,400.0	91.89	280.43	5,218.7	1,292.5	-4,584.8	1,914,810.57	530,485.29	36.262506	-107.729927
10,600.0	91.89	280.43	5,212.1	1,328.7	-4,781.4	1,914,846.51	530,288.66	36.262605	-107.730594
10,662.2	91.89	280.43	5,210.0	1,339.9	-4,842.5	1,914,857.69	530,227.51	36,262636	-107,730802
TD at 106	62.2 - TD//PB	HĽChaco #	395 (230 R)		Les Danies	L. P. L. Marketter	to construct the transfer to		

Design-Targets Target Name hit/miss target Shape	Angle D	ip Dir.	TVD (usft)	+N/-S (usft)	+E/-W, (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TD / PBHL Chaco #395 - plan hits target center - Circle (radius 230.0)	0.00	0.00	5,210.0	1,339.9	-4,842.5	1,914,857.69	530,227.50	36.262636	-107.730802
PP Chaco #395 (50' R) - plan misses target cente - Circle (radius 50.0)	0,00 er by 0,1usft	0.00 at 5844.3i	5,369.0 Lisft MD (536	468.4 69.0 TVD, 468.	106.8 4 N, -106.8 E	1,913,991.98 E)	534,964.30	36,260243	-107.714738

Plan Annotations	Vertical	Local Coordi	nates	
Depth (usft)	Depth (usft)	+N/-S (usft) #	+E/-W (usft)	Comment
550.0	550.0	0.0	0.0	Start Build 2.00
1,083.7	1,080.6	24.7	43.0	Hold 10.67° Inc, 60.1° Az
4,229.6	4,172.1	315.2	548.1	Start Drop -2.00
4,763.3	4,702.7	339.9	591.1	KOP 9°/100
5,430.0	5,254.0	397.5	278.0	Hold 60' tangent at 60° Inc
5,490.0	5,284.0	406.9	226.9	Begin 9°/100 Build
5,844.3	5,369.0	468.4 -	-106.8	Landing Pt 91.89° Inc, 280.43° Az
10,662.2	5,210.0	1,339.9	-4,842.5	TD at 10662.2