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** David R. Catanach 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 3160-3 APD form.

Operator Signature Date: 9/14/15 Well information; , Well Name and Number W Alamito UT # 462H Operator WPX

API# 30-045-35716 , Section 1 , Township 22 (N)S, Range

Conditions of Approval:

(See the below checked and handwritten conditions)

- Notify Aztec OCD 24hrs prior to casing & cement.
- Hold C-104 for directional survey & "As Drilled" Plat
- Hold C-104 for NSL, NSP, DHC
- Spacing rule violation. Operator must follow up with change of status notification on other well 0 to be shut in or abandoned
- Regarding the use of a pit, closed loop system or below grade tank, the operator must comply 0 with the following as applicable:
 - 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
- Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
 - Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84
 - Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
- Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.

NMOCD Approved by Signature

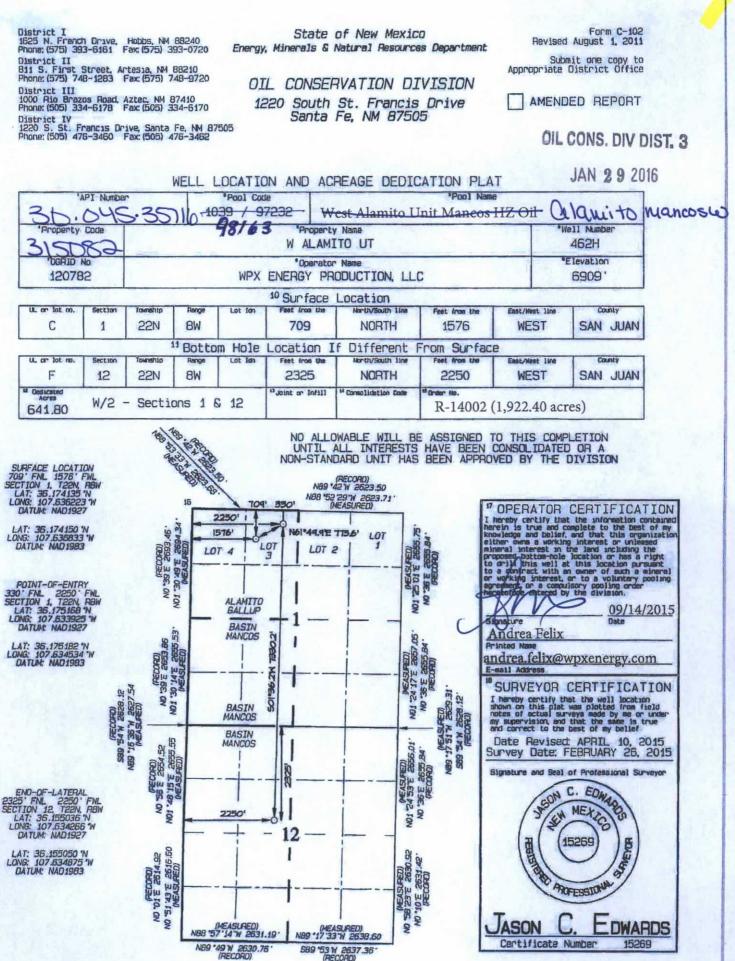
1220 South St. Francis Drive - Santa Fe, New Mexico 87505 Phone (505) 476-3460 • Fax (505) 476-3462 • www.emnrd.state.nm.us/ocd

						•
Form 3160-3 (September 2001)		OIL CONS. D	DIV DIST,	B FORM A OMB No Expires Jar	APPROVED 0. 1004-0136 nuary 31, 200	04 PA
UNITED STA DEPARTMENT OF TI BUREAU OF LAND M	HE INTERIOR	JAN 2	9 2016	5. Lease Serial No. NMNM 117143	Se	D CEN
APPLICATION FOR PERMIT T	O DRILL OR R	EENTER		6. If Indian, Adotted	or Tribe Na	ame 5 200
la. Type of Work: 🛛 DRILL 🗌 RE	ENTER			7. If Unit or CA Agree W. Alamito Unit. R.	igh A	e and No.
1b. Type of Well: Oil Well Gas Well Other	⊠ s	ingle Zone 🔲 M	ultiple Zone	8. Lease Name and W W Alamito UT #4		anage Ce
2. Name of Operator				9. API Well No.		Pient
WPX Energy Production, LLC 3a. Address	3b. Phone N	o. (include area code,)	<u>30 -04</u> 10. Field and Pool, or	Exploratory	0116
P.O. Box 640 Aztec, NM 87410	(505) 33			West Alamito Uni		Z Oil
4. Location of Well (Report location clearly and in accordance w				11. Sec., T., R., M., or		
At surface 709' FNL & 1,576' FWL, sec 1, T22N, R8W				SHL: Sec 1, T22N	I, R8W	
At proposed prod. zone 2,325' FNL & 2,250' FWL, sec 12,		Section 20		BHL: Sec 12, T22		
4. Distance in miles and direction from nearest town or post off	ice*			12. County or Parish		13. State
approximately 6 miles southwest of Lybrook, New Mexico 5. Distance from proposed*	16 No. of	Acres in lease	17 Spacin	g Unit dedicated to this	well	NM
location to nearest property or lease line, ft.	10. 140. 01.	toros in logoc		•		
(Also to nearest drig, unit line, if any) 709'		40 acres	W/2 Section	641.80 acres W/2 Sections 1 & 12, T22N, R8W		
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 40' 	19. Propos	ed Depth ' MD / 4,807' TVD	20. BLM/I UTB0	BIA Bond No. on file		
1. Elevations (Show whether DF, KDB, RT, GL, etc.)		kimate date work wi	and the second division of the second divisio	23. Estimated duration	n	1.1
6,909' GR	Octobe	er 31, 2015		1 month	9-1	
	24. Atta	chments				
 A Surface Use Plan (if the location is on National Forest S SUPO shall be filed with the appropriate Forest Service O Signature 	ffice).	authorized of		ormation and/or plans a		equired by the
		e (Printed/Typed) Irea Felix			Date 09/14/2015	
Title Regulatory Specialist Sr.	1-1-5	6 T 2		1. 1. A.		
Approved by (Signature)	Name	e (Printed/Typed)			Date	7/16
itle AFM	Offic	e Ff	10	1.1		910
pplication approval does not warrant or bertify that the applicant perations thereon. Conditions of approval, if any, are attached.	holds legal or equita	ble title to those right	ts in the subject	lease which would entitl	e the applica	int to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, r States any false, fictitious or fraudulent statements or representation	make it a crime for a	ny person knowingly	and willfully to	o make to any department	nt or agency	of the United
(Instructions on reverse)						1.10
/PX Energy Production, LLC, proposes to develop the Alamito- nd surface use plans.	Gallup / Basin Manc	os formation at the a	bove described	location in accordance w	vith the attac	hed drilling
he well pad surface is under jurisdiction of the BLM and is on le	ease and will be twin	ned with the W Alar	nito #463H.			
his location has been archaeologically surveyed by La Plata Arc	heological Consultar	its. Copies of their re	port have been	submitted directly to the	BLM.	
new 297.6 foot on lease access road will be built to access the l	ocation.					
new 2,655.0 foot on lease pipeline will be built.						
RILLING OPERATIONS AUTHORIZED			APPRO	OVAL OR ACCEP	TANCE	OF THIS
RE SUBJECT TO COMPLIANCE MITH		OP	HON DOE	S NOT RELIEVE ROM OBTAINING	THELES	SEE AND
TTACHED "GENERAL REQUIREMENTS"	NM	OCD AU	THORIZAT	TON REQUIRED	FOR OPP	ERATIONS
is action is subject to the subject	OTENTIAL E		and the	THE INDIAN LA	1103	

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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WPX ENERGY

Operations Plan

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

DATE: 8/18/20	015	FIELD: Alamito- Gallup / Basin Mancos
WELL NAME:	W Alamito UT 462H	SURFACE: FEDERAL
SH Location:	NENW Section 1 22N-08W	ELEVATION: 6909
BH Location:	SENW Section 12 22N-08W San Juan CO., NM	MINERALS: FEDERAL

MEASURED DEPTH:

I. <u>GEOLOGY:</u> Surface formation –

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	732	732	Point Lookout	3877	3691
Kirtland	900	899	Mancos	4085	3882
Picture Cliffs	1308	1297	Gallup	4409	4188
Lewis	1410	1395	Kickoff Point	4305	4089
Chacra	1727	1691	Top Target	5559	4949
Cliff House	2892	2775	Landing Point	5584	4949
Menefee	2952	2831	Base Target	5584	4949
			TD	12774	4807

- B. MUD LOGGING PROGRAM: Mudlogger on location from surface csg to TD.
- C. LOGGING PROGRAM: LWD GR from surface casing to TD.
- D. NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING

- A. <u>MUD PROGRAM:</u> 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. <u>BOP TESTING:</u> 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.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12.25"	320'	9.625"	36#	J-55
Intermediate	8.75"	5,584	7"	23#	K-55
Prod. Liner	6.125"	5434' - 12774'	4-1/2"	11.6#	N-80
Tie-Back String	N/A	Surf 5434'	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.
- 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.
- <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 + 1 RSI (Sliding Sleeve) 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)

- <u>SURFACE:</u> 5 bbl Fresh Water Spacer, 100 sx (160 cu.ft.) of 14.5 ppg Type I-II (Neat G) + 20% Fly Ash cement w/ 7.41 gal/sack mix water ratio @ 1.61 cu ft/sx yield. Calculated @ volume + 50% excess. WOC 12 hours. Test csg to 600psi. Total Volume: (160 cu-ft/100 sx/ Bbls).TOC at Surface.
- 2. INTERMEDIATE: 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: +/- 700 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: 1001 cu-ft / 178.3 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). WOC 12 hrs. Test Casing to 1500 PSI for 30 minutes. Total Cement Volume: (900 sx / 1246 cu-ft / 222 bbls). Mix with +/- 84,000 SCF Nitrogen. TOC at surface.
- <u>PRODUCTION LINER</u>: Spacer #1:10 bbl (56.cu-ft) Water Spacer. Spacer #2: 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III. Spacer #3: 10 bbl Water Spacer. Lead Cement: Extencem ™ System. Yield 1.29 cu ft/sk, 13.5 ppg, (585 sx / 795.52 cu ft. / 141.68 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (796 cu ft / 141.68 bbls).

IV. COMPLETION

A. CBL

1. Run CCL for perforating.

B. PRESSURE TEST

 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.
- 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 with a Liner Hanger and pack-off assembly then cemented to top of liner hanger.

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. After Stimulation and Testing operations are complete the 4-1/2" tie-back string will be removed from the well.

WPX Energy

T22N R8W W Alamito UT 1C W Alamito UT #462H - Slot A1

Wellbore #1

Plan: Design #1 11Aug15 sam

Standard Planning Report

13 August, 2015

WPX

Planning Report

Database: Company: Project: Site: Well: Well: Wellbore: Design:	WPX T22M W AI W AI Weill	Juan K Energy N R8W amito UT 1C amito UT #462H bore #1 gn #1 11Aug15			TVD Refe MD Refe North Re	rence:		Well W Alamito KB @ 6923.00u KB @ 6923.00u True Minimum Curvat	sft (Aztec 92) sft (Aztec 92)	0)
Project	T22N	R8W								
Map System: Geo Datum: Map Zone:	NAD 19	te Plane 1927 () 927 (NADCON 0 exico West 3003	CONUS)		System Da	atum:	М	ean Sea Level		
Site	WAla	mito UT 1C						IN STRUCT	Trenties.	
Site Position: From: Position Uncert		t/Long 0.0	North Eastir 0 usft Slot R	-		2,685.24 usft 3,175.73 usft 13.20 in	Latitude: Longitude: Grid Converg	gence:		36.1741350 -107.6362230 0.12 °
Well	WAla	mito UT #462H -	- Slot A1	1				DALLAS LA CARL		
Well Position	+N/-S +E/-W			orthing: Isting:		1,882,685.24 558,175.73		itude: ngitude:		36.1741350 -107.6362230
Position Uncert	tainty	0.	00 usft W	ellhead Elevati	on:	0.00	usft Gro	ound Level:	10000	6,909.00 usf
Wellbore	Wellb	ore #1					N. B. Standal			
Magnetics	M	odel Name	Sampl	e Date 8/11/2015	Declina (°)			Angle °) 62.90		Strength (nT) 50,013
Design	Desia	n #1 11Aug15 s	am	COLUMN STREET		-	-			
Audit Notes: Version:	Dealy	in the first of	Phase	e: Pl	LAN	Tie	On Depth:		0.00	
Vertical Section	1:	Ľ	Depth From (T) (usft)	/D)	+N/-S (usft)	(u	:/-W sft)		ection (°)	
	1		0.00		0.00	0.	.00	17	4.29	
Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (*/100usft)	TFO (°)	Target
0.00 500.00	0.00	0.00	0.00 500.00	0.00	0.00	0.00 0.00	0.00	0.00 0.00	0.00	
1,578.03	21.56	33.75	1,552.77	166.67	111.36	2.00	2.00	0.00	33.75	
4,305.41	21.56	33.75	4,089.31	1,000.03	668.20	0.00	0.00	0.00	0.00	
5,178.22	60.00	180.63	4,833.83	708.26	769.52	9.00	4.40	16.83		#462H Start 60 tan
5,238.22	60.00	180.63	4,863.83	656.30	768.95	0.00	0.00	0.00		#462H End 60 tam
5,407.75	75.26	180.63	4,928.16	500.01	767.22	9.00	9.00	0.00	0.00	
5,584.13	91.13	180.63	4,949.00	325.44	765.30	9.00	9.00	0.00		#462H POE
40 770 70	01.10	180.62	4 907 00	6 962 24	696.07	0.00	0.00	0.00		#462U BUI

12,773.72

91.13

180.63

4,807.00

-6,862.31

.

686.07

0.00

0.00

0.00

0.00 #462H BHL

WPX

Planning Report

Database:	San Juan	Local Co-ordinate Reference:	Well W Alamito UT #462H (A1) - Slot A1
Company:	WPX Energy	TVD Reference:	KB @ 6923.00usft (Aztec 920)
Project:	T22N R8W	MD Reference:	KB @ 6923.00usft (Aztec 920)
Site:	W Alamito UT 1C	North Reference:	True
Well:	W Alamito UT #462H	Survey Calculation Method:	Minimum Curvature
Nellbore:	Wellbore #1		
Design:	Design #1 11Aug15 sam		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8" Surfac							-3,6 ° 71, ***	9 1 M 1 2 M 1 3 M	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2							H I CAR HILEY		
1,000.00	10.00	33.75	997.47	36.19	24.18	-33.60	2.00	2.00	0.00
1,500.00	20.00	33.75	1,479.82	143.65	95.98	-133.39	2.00	2.00	0.00
1,578.03	21.56	33.75	1,552.77	166.67	111.36	-154.76	2.00	2.00	0.00
Hold 21.56 In	clination								
2,000.00	21.56	33.75	1,945.21	295.60	197.52	-274.49	0.00	0.00	0.00
2,500.00	21.56	33.75	2,410.23	448.38	299.60	-416.35	0.00	0.00	0.00
3,000.00	21.56	33.75	2,875.24	601.16	401.68	-558.22	0.00	0.00	0.00
3,500.00	21.56	33.75	3,340.26	753.93	503.76	-700.08	0.00	0.00	0.00
4,000.00	21.56	33.75	3,805.27	906.71	605.84	-841.94	0.00	0.00	0.00
4,305.41	21.56	33.75	4,089.31	1,000.03	668.20	-928.60	0.00	0.00	0.00
Start Build D	LS 9.00 TFO 15	1.13							
4,500.00	10.34	87.80	4,276.98	1,030.67	705.80	-955.34	9.00	-5.77	27.78
5,000.00	44.38	175.99	4,724.87	848.52	765.99	-768.11	9.00	6.81	17.64
5,178.22	60.00	180.63	4,833.83	708.26	769.52	-628.19	9.00	8.77	2.60
Hold 60.00 In	clination							31 4.2 1 15	a ten - V
5,238.22	60.00	180.63	4,863.83	656.30	768.95	-576.55	0.00	0.00	0.00
Start Build D	LS 9.00 TFO 0.0	0							
5,407.75	75.26	180.63	4,928.16	500.01	767.22	-421.21	9.00	9.00	0.00
Start DLS 9.0	00 TFO 0.00								
5,500.00	83.56	180.63	4,945.11	409.41	766.23	-331.16	9.00	9.00	0.00
5,584.00	91.12	180.63	4,949.00	325.57	765.30	-247.82	9.00	9.00	0.00
7" Intermedia									12.0
5,584.13	91.13	180.63	4,949.00	325.44	765.30	-247.69	9.00	9.00	0.00
POE at 91.13	Inc 180.63 deg	Convertier 15	11.16 8 17 8				N. 1927 BA		BULL AND
6,000.00	91.13	180.63	4,940.79	-90.32	760.72	165.55	0.00	0.00	0.00
6,500.00	91.13	180.63	4,930.91	-590.20	755.21	662.40	0.00	0.00	0.00
7,000.00	91.13	180.63	4,921.04	-1,090.07	749.70	1,159.24	0.00	0.00	0.00
7,500.00	91.13	180.63	4,911.16	-1,589.94	744.19	1,656.09	0.00	0.00	0.00
8,000.00	91.13	180.63	4,901.28	-2,089.81	738.68	2,152.93	0.00	0.00	0.00
8,500.00	91.13	180.63	4,891.41	-2,589.68	733.17	2,649.77	0.00	0.00	0.00
9,000.00	91.13	180.63	4,881.53	-3,089.56	727.66	3,146.62	0.00	0.00	0.00
9,500.00	91.13	180.63	4,871.66	-3,589.43	722.15	3,643.46	0.00	0.00	0.00
10,000.00	91.13	180.63	4,861.78	-4,089.30	716.64	4,140.31	0.00	0.00	0.00
10,500.00	91.13	180.63	4,851.91	-4,589.17	711.13	4,637.15	0.00	0.00	0.00
11,000.00	91.13	180.63	4.842.03	-5,089.04	705.62	5,134.00	0.00	0.00	0.00
11,500.00	91.13	180.63	4,832.16	-5,588.92	705.62	5,630.84	0.00	0.00	0.00
12,000.00	91.13	180.63	4,822.28	-6,088.79	694.60	6,127.68	0.00	0.00	0.00
		180.63	STATE AND A STATE AND A STATE				0.00	0.00	0.00
12,500.00 12,773.72	91.13 91.13	180.63	4,812.41 4,807.00	-6,588.66 -6,862.31	689.09 686.07	6,624.53 6,896.52	0.00	0.00	0.00
12,113.12	51.15	100.03	4,007.00	-0,002.01	000.07	0,000.02	0.00	0.00	0.00

WPX

Planning Report

Database: Company: Project: Site: Well: Wellbore: Design:	San Juan WPX Energy T22N R8W W Alamito UT W Alamito UT Wellbore #1 Design #1 11/	#462H			TVD Referen MD Referen North Refe	ice:	KB @ 6923	mito UT #462H (A1) - 3.00usft (Aztec 920) 3.00usft (Aztec 920) 3.urvature	Slot A1
Design Targets Target Name - hit/miss target - Shape	Dip Angle (°)	Dlp Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
#462H BHL - plan hits target of - Point	0.00 enter	0.00	4,807.00	-6,862.31	686.07	1,875,824.34	558,875.74	36.1552830	-107.6338990
#462H Start 60 tan - plan hits target co - Point	0.00 enter	0.00	4,833.83	708.26	769.52	1,883,395.06	558,943.81	36.1760807	-107.6336157
#462H End 60 tam - plan hits target or - Point	0.00 enter	0.00	4,863.83	656.30	768.95	1,883,343.10	558,943.35	36.1759379	-107.6336176
#462H POE - plan hits target co - Point	0.00 enter	0.00	4,949.00	325.44	765.30	1,883,012.23	558,940.37	36.1750290	-107.6336300
Casing Points		Co. homosica	tormanita and				and the party of the		
	easured Depth (usft)	Vertical Depth (usft)			Name		Casi Diam (in	eter Diameter	
	320.00	320.00	9 5/8" Surf	ace		WHEN PERCONNER		9.62 12.2	5

Plan Annotations

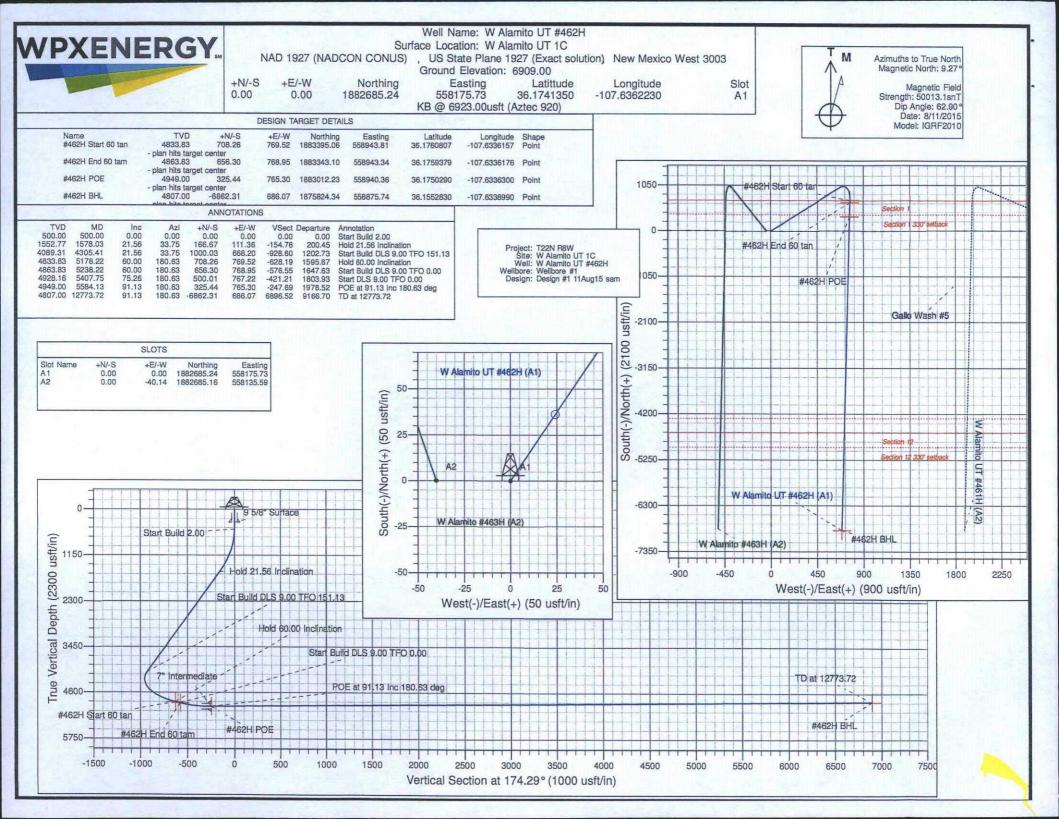
5,584.00

4,949.00 7" Intermediate

Measured	Vertical	Local Coor	dinates			
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment		
500.00	500.00	0.00	0.00	Start Build 2.00		
1,578.03	1,552.77	166.67	111.36	Hold 21.56 Inclination		
4,305.41	4,089.31	1,000.03	668.20	Start Build DLS 9.00 TFO 151.13		
5,178.22	4,833.83	708.26	769.52	Hold 60.00 Inclination		
5,238.22	4,863.83	656.30	768.95	Start Build DLS 9.00 TFO 0.00		
5,407.75	4,928.16	500.01	767.22	Start DLS 9.00 TFO 0.00		
5,584.13	4,949.00	325.44	765.30	POE at 91.13 Inc 180.63 deg		
12,773.72	4,807.00	-6.862.31	686.07	TD at 12773.72		

7.00

8.75



driving surface; the tear drop would be used to access the proposed wellheads and other facilities.

- 2. As practical, access will be a teardrop-shaped road through the production areas so that the center may be revegetated.
- 3. Within 90 days of installation, production facilities would be painted Juniper Green to blend with the natural color of the landscape and would be located, to the extent practical, to reasonably minimize visual impact.
- Berms will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks. Berm walls will be compacted with appropriate equipment to assure containment.

After the completion phases and pipeline installation, portions of the project areas not needed for operation will be reclaimed. When the wells are plugged, final reclamation will occur within the remainder of the project areas. Reclamation is described in detail in the Reclamation Plan (Appendix A).

7.0 Methods for Handling Waste

- A. Cuttings
 - Drilling operations will utilize a closed-loop system. Drilling of the horizontal laterals will be accomplished with water-based mud. All cuttings will be placed in roll-off bins and hauled to a commercial disposal facility or land farm. WPX will follow Onshore Oil and Gas Order No. 1 regarding the placement, operation, and removal of closed-loop systems. No blow pit will be used.
 - 2. Closed-loop tanks will be adequately sized for containment of all fluids.
- B. Drilling Fluids
 - Drilling fluids will be stored onsite in above-ground storage tanks. Upon termination of drilling operations, the drilling fluids will be recycled and transferred to other permitted closed-loop systems or returned to the vendor for reuse, as practical. All residual fluids will be hauled to a commercial disposal facility.
- C. Spills
 - 1. Any spills of non-freshwater fluids will be immediately cleaned up and removed to an approved disposal site.
- D. Sewage
 - 1. Portable toilets will be provided and maintained during construction, as needed (see Figure 4 in Appendix B for the location of toilets).
- E. Garbage and other water material
 - 1. All garbage and trash will be placed in a metal trash basket. The trash and garbage will be hauled off site and dumped in an approved landfill, as needed.
- F. Hazardous Waste
 - 1. No chemicals subject to reporting under Superfund Amendments and Reauthorization Act Title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.
 - 2. No extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of these wells.

Directions from the Intersection of US Hwy 550 & US Hwy 64

in Bloomfield, NM to WPX Energy Production, LLC W Alamito UT #462H

709' FNL & 1576' FWL, Section 1, T22N, R8W, N.M.P.M., San Juan County, NM

Latitude: 36.174150°N Longitude: 107.636233°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 38.7 miles to Mile Marker 112.7:

Go Right (Southerly) on County Road #7900 for 4.9 miles to fork in road:

Go Straight (South-easterly) remaining on County Road #7900 for 0.2 miles to fork in road:

Go Left (Easterly) exiting County Road #7900 for 2.2 miles to new access on right-hand side of existing roadway which continues for 297.6' to staked WPX W Alamito UT #462H location.

