

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Tony Delfin
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: 2-25-16

Well information:

Operator 120782, Well Name and Number N Escavada U+ #313H

API# 30-043-21284, Section 10, Township 22 N/S, Range 07 E/W

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 NSI, NSP, DHC
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☐ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply 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
- ☒ Submit Gas Capture Plan form prior to spudding or initiating recompletion operations
- ☒ 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.

Charles H. ...
NMOCD Approved by Signature

5-20-2016
Date KC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY 12 2016



FORM APPROVED
OMB No. 1004-0136
Expires January 31, 2004RECEIVED
2016-05-25

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. N0-G-1312-1809
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name North Escavada Unit NMNM-1952-17X
2. Name of Operator WPX Energy Production, LLC		7. If Unit or CA Agreement, Name and No. North Escavada Unit
3a. Address P.O. Box 640 Aztec, NM 87410		8. Lease Name and Well No. N. Escavada UT # 313H
3b. Phone No. (include area code) (505) 333-1808		9. API Well No. 30-043-21284
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 1937' FSL & 1259' FEL, sec 10, T22N, R7W At proposed prod. zone 2301' FSL & 1196' FEL, sec 4 T22N, R7W		10. Field and Pool, or Exploratory North Escavada Unit; Mancos Pool
14. Distance in miles and direction from nearest town or post office* From intersection US Hwy & 550 US Hwy 64 in Bloomfield NM, South 48.3 miles to Mile Marker 103.0		11. Sec., T., R., M., or Blk. and Survey or Area SHL: Sec 10, T22N, R7W BHL: Sec 4, T22N, R7W
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1259'	16. No. of Acres in lease 160 Acres	12. County or Parish Sandoval
17. Spacing Unit dedicated to this well 1280.0-Acres	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 20'	13. State NM
19. Proposed Depth 12696' MD / 5114' TVD	20. BLM/BIA Bond No. on file B001576	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 6944' GR	22. Approximate date work will start* April 1, 2016	23. Estimated duration 1 month
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPU shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) Lacey Granillo	Date 2/25/16
Title Permit Technician III		
Approved by (Signature) 	Name (Printed/Typed) J. Montie	Date 5/10/16
Title AFM	Office FEO	

Application approval 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.

Conditions of approval, if any, are attached.

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 reverse)

WPX Energy Production, LLC, proposes to develop the North Escavada Unit Mancos formation at the above described location in accordance with the attached drilling and surface use plans.

The well pad surface is under jurisdiction of BLM, FIMO and BIA and is on lease and will be twinned with the N. Escavada #314H/328H/329H.

This location has been archaeologically surveyed by La Plata Archeological Consultants. Copies of their report have been submitted directly to the BLM and NNHPD.

The new access of 950.6' of Navajo Allotted is on lease access road will be built and permitted via the APD.

A new pipeline of 291.31' of Navajo Allotted is on lease well connect pipeline will be built and permitted via the APD.

DRILLING OPERATIONS AUTHORIZED
ARE SUBJECT TO COMPLIANCE WITH
ATTACHED "GENERAL REQUIREMENTS"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

NMOCD

CONFIDENTIAL

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

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

*API Number 30-043-21284	*Pool Code 98172	*Pool Name Escavada Mancos N
*Property Code 316006	*Property Name N ESCAVADA UT	*Well Number 313H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6944'

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
I	10	22N	7W		1937	SOUTH	1259	EAST	SANDOVAL

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
I	4	22N	7W		2301	SOUTH	1196	EAST	SANDOVAL	
¹² Dedicated Acres 1280.0 S/2 Sections 3 & 4 Entire Section 10					¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No. R-14080	

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

¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order hereinafter entered by the division.

Signature *Marie F. Jaramillo* Date 2/25/16

Printed Name Marie F. Jaramillo

E-mail Address marie.jaramillo@wpxenergy.com

¹⁸ SURVEYOR CERTIFICATION

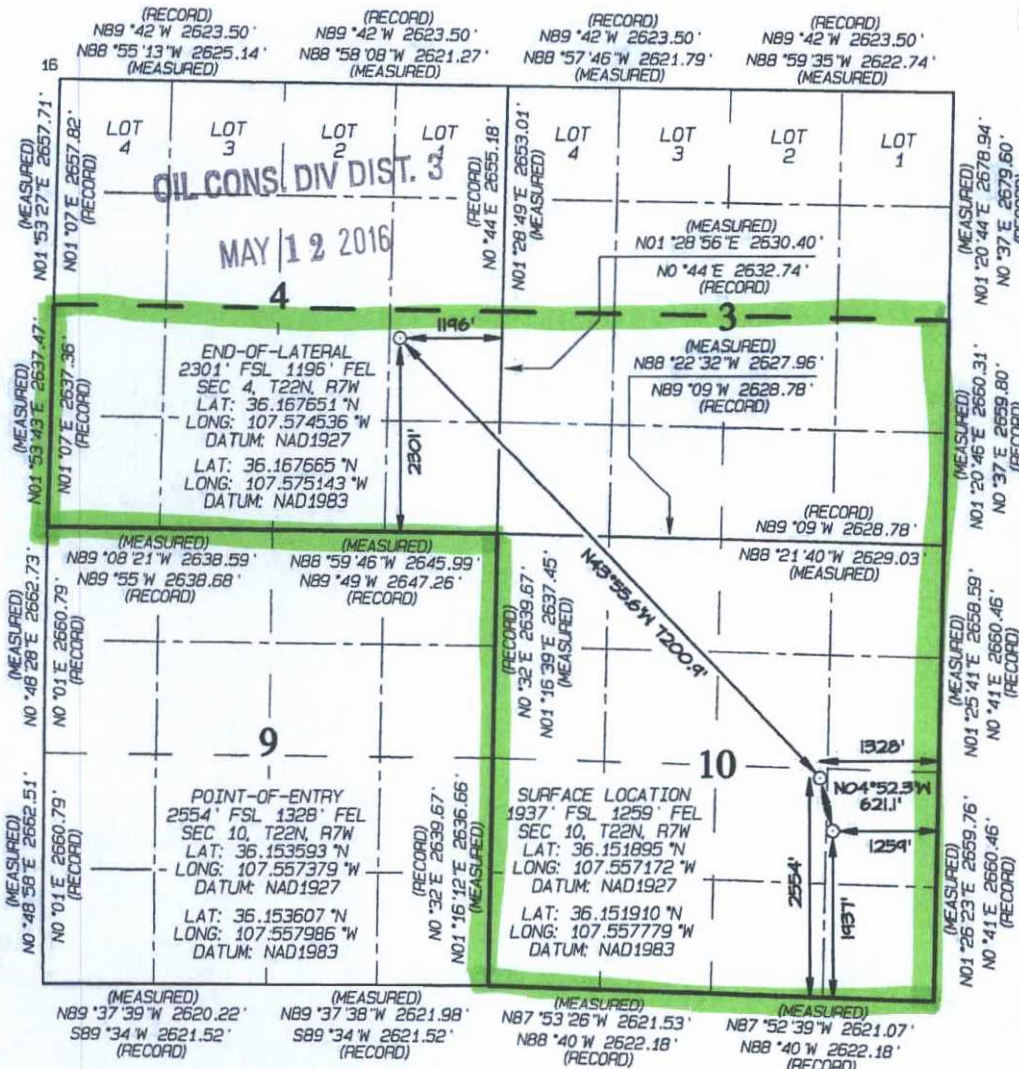
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: FEBRUARY 24, 2016
Survey Date: OCTOBER 30, 2015

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269





WPX Energy

Operations Plan

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

<u>Date:</u>	February 23, 2016	<u>Field:</u>	Lybrook Gallup
<u>Well Name:</u>	N. Escavada UT #313H	<u>Surface:</u>	IA
<u>SH Location:</u>	NESE Sec 10-22N-07W	<u>Elevation:</u>	6944' GR
<u>BH Location:</u>	NESE Sec 4-22N-07W	<u>Minerals:</u>	IA

Measured Depth: 12,696.15'

I. GEOLOGY: SURFACE FORMATION - NACIMIENTO

A. FORMATION TOPS (KB)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	1,000	998	POINT LOOKOUT	3,851	3,832
KIRTLAND	1,175	1,172	MANCOS	4,032	4,012
PICTURED CLIFFS	1,481	1,476	GALLUP	4,329	4,307
LEWIS	1,601	1,596	KICKOFF POINT	5,105.80	4,966.72
CHACRA	1,832	1,825	TOP TARGET	5,264	5,039
CLIFF HOUSE	2,974	2,960	LANDING POINT	5,496.31	5,082.00
MENEFEE	3,024	3,010	BASE TARGET	5,496.31	5,082.00
			TD	12,696.15	5,114.00

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. **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.**

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
SURFACE	12.25"	320.00'	9.625"	36 LBS	J-55 or equiv	STC
INTERMEDIATE	8.75"	5,496.31'	7"	23 LBS	J-55 or equiv	LTC
PRODUCTION	6.125"	5346.31' - 12,696.15'	4.5"	11.6 LBS	P-110 or equiv	LTC
TIE BACK	6.125"	Surf. - 5346.31'	4.5"	11.6 LBS	P-110 or equiv	LTC

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 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. **A DV tool will be placed 100' above the top of the Chacra formation. If cement is circulated back to surface on the first stage, a cancelation device will be dropped to shift the dv tool closed and the 2nd stage cement job will be aborted at that time.**

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 + 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.

C. CEMENTING:

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

1. Surface 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 STAGE 1: Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 109 bbls, 310 sks, (611 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 85 bbls, 366 sks, (476 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 216 bbl Drilling mud or water. Total Cement: 194 bbls, 676 sks, (1087 cuft)
STAGE 2: Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 40 bbls, 114 sks, (222 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 16 bbls, 78 sks, (90 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 68 bbl Drilling mud or water. Total Cement: 56 bbls, 192 sks, (312 cuft)

3. PROD. LINER: 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 1.36 cuft/sk 13.3 ppg (720 sx /979 cuft /174 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 140 bbl Fr Water. Total Cement (720 sx /979bbls).

I.
COMPLETION

A. **CBL**

Run CCL for perforating

A. **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.

B. **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.

C. **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.

- If this horizontal well is 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:

Proposed Operations:

A 4-1/2" 11.6# P-110 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# J-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).



WPX Energy

T22N R7W

2207-10I NEU

N Escavada UT #313H - Slot A4

Wellbore #1

Plan: Design #1 17Feb16 sam

Standard Planning Report

19 February, 2016

WPX
Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well N Escavada UT #313H (A4) - Slot A4		
Company:	WPX Energy	TVD Reference:	GL @ 6944.00usft (Original Well Elev)		
Project:	T22N R7W	MD Reference:	GL @ 6944.00usft (Original Well Elev)		
Site:	2207-10I NEU	North Reference:	True		
Well:	N Escavada UT #313H	Survey Calculation Method:	Minimum Curvature		
Wellbore:	Wellbore #1				
Design:	Design #1 17Feb16 sam				

Project	T22N R7W				
Map System:	US State Plane 1927 (Exact solution)		System Datum:	Mean Sea Level	
Geo Datum:	NAD 1927 (NADCON CONUS)				
Map Zone:	New Mexico West 3003				

Site	2207-10I NEU				
Site Position:		Northing:	1,874,627.95 usft	Latitude:	36.151844
From:	Map	Easting:	581,522.23 usft	Longitude:	-107.557199
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.16 °

Well	N Escavada UT #313H - Slot A4					
Well Position	+N/-S	18.57 usft	Northing:	1,874,646.54 usft	Latitude:	36.151895
	+E/-W	7.97 usft	Easting:	581,530.15 usft	Longitude:	-107.557172
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,944.00 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/10/2016	9.24	62.89	49,867

Design	Design #1 17Feb16 sam				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)	
	0.00	0.00	0.00	318.22	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
812.96	6.26	75.18	812.34	4.37	16.51	2.00	2.00	0.00	75.18	
4,402.94	6.26	75.18	4,380.92	104.50	394.89	0.00	0.00	0.00	0.00	
5,105.80	60.00	315.30	4,966.72	356.79	197.37	9.00	7.65	-17.06	-122.77	Start 60 Tan #313H
5,165.80	60.00	315.30	4,996.72	393.72	160.82	0.00	0.00	0.00	0.00	End 60 Tan #313H
5,332.44	75.00	315.30	5,060.31	502.84	52.84	9.00	9.00	0.00	0.00	
5,496.31	89.75	315.30	5,082.00	617.97	-61.08	9.00	9.00	0.00	0.01	POE #313H
12,696.15	89.75	315.30	5,114.00	5,735.66	-5,125.27	0.00	0.00	0.00	0.00	BHL #313H

WPX
Planning Report

Database: COMPASS
Company: WPX Energy
Project: T22N R7W
Site: 2207-10I NEU
Well: N Escavada UT #313H
Wellbore: Wellbore #1
Design: Design #1 17Feb16 sam

Local Co-ordinate Reference: Well N Escavada UT #313H (A4) - Slot A4
TVD Reference: GL @ 6944.00usft (Original Well Elev)
MD Reference: GL @ 6944.00usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build 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"									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
812.96	6.26	75.18	812.34	4.37	16.51	-7.74	2.00	2.00	0.00
Hold 6.26 Inclination									
1,000.00	6.26	75.18	998.26	9.59	36.22	-16.99	0.00	0.00	0.00
1,500.00	6.26	75.18	1,495.28	23.53	88.92	-41.70	0.00	0.00	0.00
2,000.00	6.26	75.18	1,992.30	37.48	141.62	-66.42	0.00	0.00	0.00
2,500.00	6.26	75.18	2,489.32	51.42	194.32	-91.14	0.00	0.00	0.00
3,000.00	6.26	75.18	2,986.34	65.37	247.02	-115.85	0.00	0.00	0.00
3,500.00	6.26	75.18	3,483.36	79.31	299.72	-140.57	0.00	0.00	0.00
4,000.00	6.26	75.18	3,980.38	93.26	352.42	-165.29	0.00	0.00	0.00
4,402.94	6.26	75.18	4,380.92	104.50	394.89	-185.20	0.00	0.00	0.00
Start DLS 9.00 TFO -122.77									
4,500.00	7.49	356.71	4,477.46	112.18	399.66	-182.65	9.00	1.27	-80.85
5,000.00	50.54	316.60	4,906.51	294.41	257.80	47.75	9.00	8.61	-8.02
5,105.80	60.00	315.30	4,966.72	356.79	197.37	134.53	9.00	8.94	-1.23
Hold 60.00 Inclination									
5,165.80	60.00	315.30	4,996.72	393.72	160.82	186.43	0.00	0.00	0.00
Start Build DLS 9.00 TFO 0.00									
5,332.44	75.00	315.30	5,060.31	502.84	52.84	339.74	9.00	9.00	0.00
Start DLS 9.00 TFO 0.01									
5,496.00	89.72	315.30	5,082.00	617.75	-60.87	501.19	9.00	9.00	0.00
7"									
5,496.31	89.75	315.30	5,082.00	617.97	-61.08	501.50	9.00	9.00	0.00
POE at 89.75 Inc 315.30 Deg									
5,500.00	89.75	315.30	5,082.02	620.59	-63.68	505.19	0.00	0.00	0.00
6,000.00	89.75	315.30	5,084.24	975.99	-415.37	1,004.54	0.00	0.00	0.00
6,500.00	89.75	315.30	5,086.46	1,331.40	-767.06	1,503.88	0.00	0.00	0.00
7,000.00	89.75	315.30	5,088.68	1,686.80	-1,118.74	2,003.23	0.00	0.00	0.00
7,500.00	89.75	315.30	5,090.91	2,042.20	-1,470.43	2,502.58	0.00	0.00	0.00
8,000.00	89.75	315.30	5,093.13	2,397.61	-1,822.12	3,001.93	0.00	0.00	0.00
8,500.00	89.75	315.30	5,095.35	2,753.01	-2,173.80	3,501.28	0.00	0.00	0.00
9,000.00	89.75	315.30	5,097.57	3,108.41	-2,525.49	4,000.62	0.00	0.00	0.00
9,500.00	89.75	315.30	5,099.79	3,463.81	-2,877.18	4,499.97	0.00	0.00	0.00
10,000.00	89.75	315.30	5,102.02	3,819.22	-3,228.87	4,999.32	0.00	0.00	0.00
10,500.00	89.75	315.30	5,104.24	4,174.62	-3,580.55	5,498.67	0.00	0.00	0.00
11,000.00	89.75	315.30	5,106.46	4,530.02	-3,932.24	5,998.01	0.00	0.00	0.00
11,500.00	89.75	315.30	5,108.68	4,885.43	-4,283.93	6,497.36	0.00	0.00	0.00
12,000.00	89.75	315.30	5,110.91	5,240.83	-4,635.62	6,996.71	0.00	0.00	0.00
12,500.00	89.75	315.30	5,113.13	5,596.23	-4,987.30	7,496.06	0.00	0.00	0.00
12,696.15	89.75	315.30	5,114.00	5,735.66	-5,125.27	7,691.95	0.00	0.00	0.00
TD at 12696.15									

WPX Planning Report

Database: COMPASS
Company: WPX Energy
Project: T22N R7W
Site: 2207-10I NEU
Well: N Escavada UT #313H
Wellbore: Wellbore #1
Design: Design #1 17Feb16 sam

Local Co-ordinate Reference: Well N Escavada UT #313H (A4) - Slot A4
TVD Reference: GL @ 6944.00usft (Original Well Elev)
MD Reference: GL @ 6944.00usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (bearing)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Start 60 Tan #313H - plan hits target center - Point	0.00	0.00	4,966.72	356.79	197.37	1,875,003.89	581,726.51	36.152875	-107.556504
End 60 Tan #313H - plan hits target center - Point	0.00	0.00	4,996.72	393.72	160.82	1,875,040.72	581,689.86	36.152977	-107.556628
POE #313H - plan hits target center - Point	0.00	0.00	5,082.00	617.97	-61.08	1,875,264.33	581,467.31	36.153593	-107.557379
BHL #313H - plan hits target center - Point	0.00	0.00	5,114.00	5,735.66	-5,125.27	1,880,367.60	576,388.59	36.167651	-107.574536

Casing Points

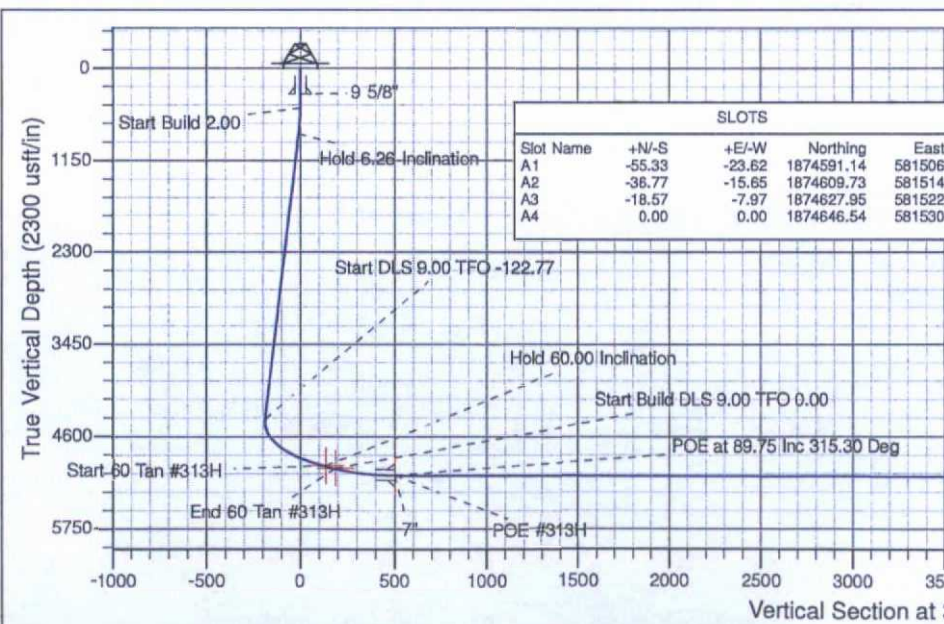
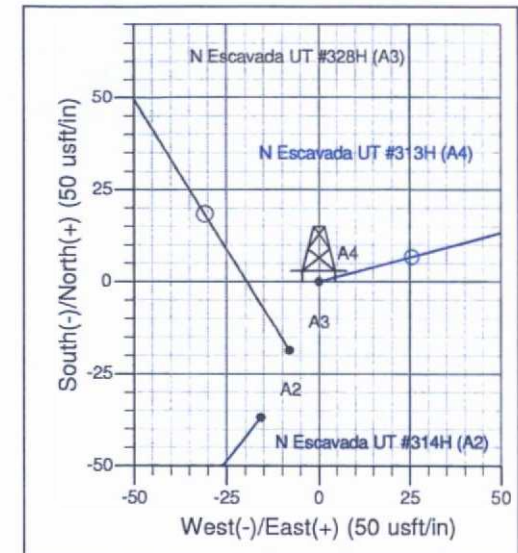
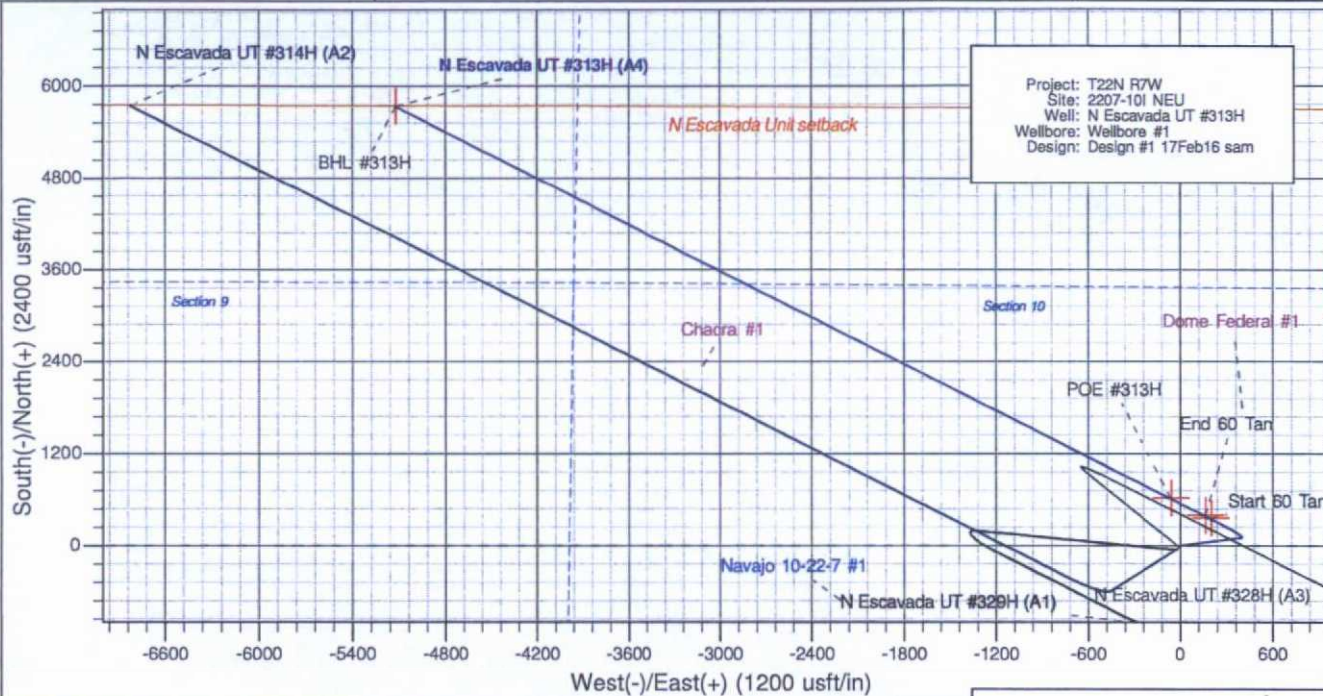
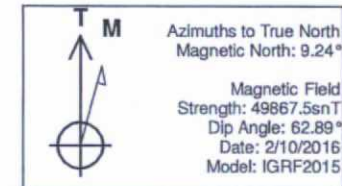
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
320.00	320.00	9 5/8"	9.625	12.250
5,496.00	5,082.00	7"	7.000	8.750

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.00	500.00	0.00	0.00	Start Build 2.00
812.96	812.34	4.37	16.51	Hold 6.26 Inclination
4,402.94	4,380.92	104.50	394.89	Start DLS 9.00 TFO -122.77
5,105.80	4,966.72	356.79	197.37	Hold 60.00 Inclination
5,165.80	4,996.72	393.72	160.82	Start Build DLS 9.00 TFO 0.00
5,332.44	5,060.31	502.84	52.84	Start DLS 9.00 TFO 0.01
5,496.31	5,082.00	617.97	-61.08	POE at 89.75 Inc 315.30 Deg
12,696.15	5,114.00	5,735.66	-5,125.27	TD at 12696.15



Well Name: N Escavada UT #313H
 Surface Location: 2207-101 NEU
 NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003
 Ground Elevation: 6944.00
 +N/-S +E/-W Northing Easting Latitude Longitude Slot
 0.00 0.00 1874646.54 581530.15 36.151895 -107.557172 A4
 GL @ 6944.00usft (Original Well Elev)



SLOTS			
Slot Name	+N/-S	+E/-W	Northing
A1	-55.33	-23.62	1874591.14
A2	-36.77	-15.65	1874609.73
A3	-18.57	-7.97	1874627.95
A4	0.00	0.00	1874646.54

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Start 60 Tan #313H	4966.72	356.79	197.37	1875003.89	581726.51	36.152875	-107.556503
End 60 Tan #313H	4966.72	393.72	160.82	1875040.72	581689.85	36.152977	-107.556627
POE #313H	5082.00	617.97	-61.08	1875264.33	581467.31	36.153593	-107.557379
BHL #313H	5114.00	5735.66	-5125.27	1880367.60	576388.59	36.167651	-107.574536

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSection	Departure	Annotation	
500.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	Start Build 2.00	
812.34	812.96	6.26	75.18	4.37	16.51	-7.74	17.08	Hold 6.26 Inclination	
4380.92	4402.94	6.26	75.18	104.50	394.89	-185.20	408.49	Start DLS 9.00 TFO -122.77	
4966.72	5105.80	60.00	315.30	356.79	197.37	134.53	738.26	Hold 60.00 Inclination	
4966.72	5165.80	60.00	315.30	393.72	160.82	186.43	790.22	Start Build DLS 9.00 TFO 0.00	
5060.31	5332.44	75.00	315.30	502.84	52.84	339.74	943.74	Start DLS 9.00 TFO 0.01	
5082.00	5496.31	89.75	315.30	617.97	-61.08	501.50	1105.70	POE at 89.75 Inc 315.30 Deg	
5114.00	12696.15	89.75	315.30	5735.66	-5125.27	7691.95	8305.48	TD at 12696.15	

BHL #313H TD at 12696.15

2. Vegetation and topsoil removal, storage, and protection are described in detail in the Reclamation Plan (Appendix C).
 3. The well pad will be leveled to provide space and a level working surface for vehicles and equipment. Excavated materials from cuts will be used on fill portions of the well pad to level the working surface. Construction of the well pad would require a maximum fill of approximately 3-feet along the southwest end, and a cut of 5 feet on the north and northeast corners (corner 2 and corner 3 respectively). No additional surfacing materials will be required for construction.
 4. As determined during the onsite on October 28, 2015, the following best management practices will be implemented:
 - a. Diversions will be installed upon reclamation.
 - b. No additional fill would be required to construct the pad.
 - c. Culverts are identified on the construction plats; any additional need for culverts will be determined upon construction/reclamation and installed where needed as needed.
 - d. Facilities will be painted Juniper Green.
 - e. BLM approved sagebrush seed mix will be used upon reclamation.
 5. All project activities will be confined to permitted areas only.
 6. Construction equipment may include chain saws, a brush hog, scraper, maintainer, excavator, backhoe, trencher, and a dozer.
 7. If drilling has not been initiated on the well pad within 120 days of the well pad being constructed, the operator will consult with the BLM to address a site-stabilization plan.
- D. Production Facilities
1. As practical, access will be a teardrop-shaped road through the production area so that the center may be revegetated.
 2. 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.
 3. 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 area not needed for operation will be reclaimed. When the well is plugged, final reclamation will occur within the remainder of the project area. Reclamation is described in detail in the Reclamation Plan (Appendix C).

7.0 Methods for Handling Waste

A. Cuttings

1. 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.

Directions from the Intersection of US Hwy 550 & US Hwy 64
in Bloomfield, NM to WPX Energy Production, LLC N Escavada UT #313H
1937' FSL & 1259' FEL, Section 10, T22N, R7W, N.M.P.M., Sandoval County, NM

Latitude: 36.151910°N Longitude: 107.557779°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 48.3 miles to Mile Marker 103.0;

Go Right (Southerly) on Atkins Road for 4.2 miles to 4-way intersection;

Go Straight (Southerly) continuing on Atkins Road for 1.6 miles to 4-way intersection;

Go Right (Westerly) exiting Atkins Road for 0.2 miles to new access on left-hand side of existing roadway which continues for an additional 950.6' to staked WPX N Escavada UT #313H location.

