State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Ken McQueen Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



Matthias Sayer Deputy Cabinet Secretary

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: 2-1-1 | |
|--|---|
| Operator Well Name and Num | iber Limbeto Wash Unit |
| API# <u>30.045.35832</u> , Section <u>20</u> , Town | ship <u>33 N</u> S, RangeEW |
| Conditions of Approval: (See the below checked a | |
| Notify Aztec OCD 24hrs prior to casing & cem | ent. |
| Hold C-104 for directional survey & "As Drille | d" Plat |
| Hold C-104 for NSL, NSP, DHC | |
| Spacing rule violation. Operator must follow u to be shut in or abandoned | p with change of status notification on other well |
| Regarding the use of a pit, closed loop system of with the following as applicable: | or below grade tank, the operator must comply |
| A pit requires a complete C-144 be sub use of the pit, pursuant to 19.15.17.8.A | mitted and approved prior to the construction or |
| A closed loop system requires notificat | ion prior to use, pursuant to 19.15.17.9.A |
| A below grade tank requires a registrat below grade tank, pursuant to 19.15.17 | ion be filed prior to the construction or use of the .8.C |
| Once the well is spud, to prevent ground water from the surface, the operator shall drill withou zones and shall immediately set in cement the | |
| Submit Gas Capture Plan form prior to spudding | g or initiating recompletion operations |
| Regarding Hydraulic Fracturing, review EPA | Inderground Injection Control Guidance 84 |
| Oil base muds are not to be used until fresh wa isolation from the oil or diesel. This includes sy solids must be contained in a steel closed loop | enthetic oils. Oil based mud, drilling fluids and |
| Well-bore communication is regulated under 19 Communication to be reported in accordance w | |
| Charlet | 4-24-2017 |
| NMOCD Approved by Signature | Date |
| 1220 South St. Francis Drive • Santa F | |
| Phone (505) 476-3441 • Fax (505) 476-3 | 3462 • www.emnrd.state.nm.us/ocd |

Form 3160 -3 (March 2012)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

| FORM | APPROVE |) |
|-------------|----------------|---|
| OMB N | lo. 1004-0137 | 7 |
| Expires C | october 31, 20 | 1 |

| 5. | Le | ase | S | erial | No. |
|-----|-----|-----|----|-------|-----|
| NOC | 314 | 103 | 31 | 946 | 4 |

| APPLICATION FOR PERMIT TO DRI | | | 6. If Indian, Allotee or | Tribe Name |
|--|---|-----------------------|--|-----------------------|
| APPLICATION FOR PERMIT TO DRIV | LL ON REENTER | | EASTERN NAVAJO | |
| la. Type of work: DRILL REENTER | | | 7 If Unit or CA Agreem KIMBETO WASH UN | IIT / NMNM135255A |
| lb. Type of Well: Oil Well Gas Well Other | Single Zone Multip | le Zone | 8. Lease Name and We KWU 773H | II No. |
| 2. Name of Operator WPX ENERGY LLC | | | 9. API Well No. | -3583Z |
| 700 C M-1- A-1 NIM 07440 | Phone No. (include area code) 5)333-1822 | | 10. Field and Pool, or Exp BASIN MANCOS / BA | |
| Location of Well (Report location clearly and in accordance with any State At surface NWNW 1777 FNL / 687 FWL / LAT 36.21751 / LO At proposed prod. zone NENW / 299 FNL / 1412 FWL / LAT 36. | NG -107.818826 | 01 | 11. Sec., T. R. M. or Blk. SEC 20 / T23N / R9V | |
| 14. Distance in miles and direction from nearest town or post office* 35.9 miles | | | 12. County or Parish SAN JUAN | 13. State NM |
| 15. Distance from proposed* location to nearest 20 feet property or lease line, ft. (Also to nearest drig. unit line, if any) | No. of acres in lease | 17. Spacin 1279.45 | g Unit dedicated to this wel | CONS. DIV DIST. 3 |
| to nearest well, drilling, completed, 687 feet | Proposed Depth 55 feet / 12415 feet | 20. BLM/I IND: B0 | BIA Bond No. on file | APR 17 2017 |
| | Approximate date work will star /01/2017 | rt* | 23. Estimated duration 30 days | |
| 24 | Attachments | 2 | | |
| The following, completed in accordance with the requirements of Onshore Oil Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System Lands SUPO must be filed with the appropriate Forest Service Office). | 4. Bond to cover the Item 20 above). 5. Operator certific | ne operation | is form: ns unless covered by an ex ormation and/or plans as m | |
| 25. Signature (Electronic-Submission) | Name (Printed/Typed) Lacey Granillo / Ph: (505) | 5)333-181 | _ | Pate 02/01/2017 |
| Title Permitting Tech III | | | | / / |
| Approved by (Signature) Signature of Allego | Name (Pynted/Typed) | 4. G | Anew | Date 4/10/2017 |
| AFM-MINERALS | Office FARMINGTON | | | , , |
| Application approval does not warrant or certify that the applicant holds legaconduct operations thereon. Conditions of approval, if any, are attached. | al or equitable title to those righ | ts in the sub | ject lease which would ent | itle the applicant to |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime States any false, fictitious or fraudulent statements or representations as to any | for any person knowingly and v matter within its jurisdiction. | villfully to n | nake to any department or | agency of the United |

(Continued on page 2)

*(Instructions on page 2)

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

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



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

District I 1625 N. French Drive, Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 5. 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

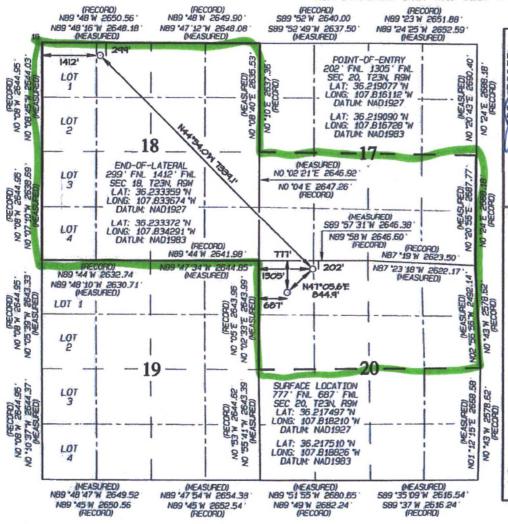
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| 'API Number 'Pool Code 97232 | | Pool Name | | |
|------------------------------|---------------------------|---------------------------|----------------------|--|
| | | BASIN MANCOS GAS POOL | | |
| 'Property Code 316144 | | ty Name NU | *Well Number 773H | |
| 'OGRID No. 120782 | "Operato WPX ENERGY PI | or Name RODUCTION, LLC | *Elevation 6538' | |
| | 10 Sunface | Location | | |

| | | | | | Surface | Location | | | |
|-------------------------------|---------|----------|----------|---------|--------------------|----------------------------------|---------------|----------------|-----------|
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| D | 20 | 23N | 9W | | 777 | NORTH | 687 | WEST | SAN JUAN |
| | | | 11 Botto | m Hole | Location I | f Different | From Surfac | е | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
| C | 18 | 23N | 9W | | 299 | NORTH | 1412 | WEST | SAN JUAN |
| Dedicated Acres 1279,45 | Er | ntire Se | ection | 18 | 13 Joint or Infill | ¹⁴ Consolidation Code | S Order No. | 4084 | |
| | N, | /2 - Se | ection | 20 | NO 41 | PHADE E ME | DE ACCIONED | TO THE COL | IDI ETTON |

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



OPERATOR CERTIFICATION "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 organizatior
either owns a working interest or unlessed
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
greenagt or a compulsory poding order
teneforce entered by the division.

1-27-17 1-27-17 Lacey Granillo Printed Name lacey.granillo@wpxenergy.com E-mail Address *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: JANUARY 24, 2017 Date of Survey: JULY 16, 2015 Signature and Seal of Professional Surveyor JASON C. EDWARR MEXICO EN PERISTER SAME TOR 15269 APOFESSION! **JASON** DWARDS





WPX Energy

Operations Plan

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

Date:

January 26, 2017

Field:

Basin Mancos

Well Name:

KWU #773H

Surface:

SH Location:

NWNW Sec 20-23N-09W

Elevation:

6538' GR

BH Location:

NENW Sec 18-23N-09W

Minerals:

Measured Depth: 12,416.91'

I. GEOLOGY

Surface formation - NACIMIENTO

A. FORMATION TOPS: (GR)

| NAME | MD | TVD | NAME | MD | TVD |
|-----------------|----------|----------|---------------|-----------|----------|
| OJO ALAMO | 122.00 | 122.00 | POINT LOOKOUT | 3,351.00 | 3,189.00 |
| KIRTLAND | 284.00 | 284.00 | MANCOS | 3,544.00 | 3,364.00 |
| PICTURED CLIFFS | 852.00 | 852.00 | GALLUP | 3,912.00 | 3,703.00 |
| LEWIS | 936.00 | 936.00 | KICKOFF POINT | 3,769.35 | 3,569.01 |
| CHACRA | 1,154.00 | 1,153.00 | TOP TARGET | 4,972.00 | 4,433.00 |
| CLIFF HOUSE | 2,329.00 | 2,260.00 | LANDING POINT | 5,077.88 | 4,442.00 |
| MENEFEE | 2,348.00 | 2,277.00 | BASE TARGET | 5,077.88 | 4,442.00 |
| i ke isw | • | | TD | 12,416.91 | 4,455.00 |

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 %" 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 BOPE will be tested to 2,000 psi (High) for 10 minutes and the annular tested to 1,500 psi for 10 minutes. Pressure test surface casing to 1,500 psi for 30 minutes and intermediate casing to 1,500 psi for 30 minutes. Utilize a BOPE Testing Unit with a recording chart and appropriate test plug for testing. 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" | 5,077.88' | 7" | 23 LBS | J-55 or equiv | LTC |
| PRODUCTION | 6.125" | 4927.88' - 12,416.91' | 4.5" | 11.6 LBS | P-110 or equiv | LTC |
| TIE BACK | 6.125" | Surf 4927.88' | 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. If losses are encountered during the drilling of the intermediate section a DV tool will be utalized and a 2 stage cement job may be planned to ensure cement circ back to surface. The 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, if no cement is seen at surface on the 1st stage the stage tool will be opend and a 2nd stage cement job will be pumped.

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. CEMENT:

(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:

Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 91 bbls, 258 sks, (509 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 59 bbls, 254 sks, (331 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 200 bbl Drilling mud or water. Total Cement: 150 bbls, 513 sks, (840 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 (734 sx /998 cuft /178 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/-167bbl Fr Water. Total Cement (734 sx /998bbls).

D. COMPLETION:

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. <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.

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.

NOTES:

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

T23N R9W 2309-20D KWU KWU #773H - Slot A1

Wellbore #1

Plan: Design #1 23Sept16 sam

Standard Planning Report

27 September, 2016

WPX

Planning Report

Database: COMPASS WPX Energy Company: **T23N R9W** Project: 2309-20D KWU Well: KWU #773H Wellbore: Wellbore #1

Local Co-ordinate Reference: **TVD Reference:** MD Reference: North Reference: **Survey Calculation Method:**

Well KWU #773H (A1) - Slot A1 GL @ 6538.00usft (Original Well Elev) GL @ 6538.00usft (Original Well Elev)

True

Minimum Curvature

T23N R9W Project

Map System:

US State Plane 1927 (Exact solution)

System Datum:

Mean Sea Level

Geo Datum:

NAD 1927 (NADCON CONUS)

Design #1 23Sept16 sam

Map Zone:

Design:

New Mexico West 3003

2309-20D KWU Site

Site Position: From:

Мар

Northing:

1,898,410.74 usft

Latitude:

36.217497 Longitude: -107.818210

Position Uncertainty:

Easting: 0.00 usft Slot Radius: 504,461.08 usft 13.200 in

Grid Convergence:

0.01°

Well KWU #773H - Slot A1

Well Position

+N/-S 0.00 usft +E/-W

Northing:

Easting:

1,898,410.74 usft 504,461.08 usft Latitude: Longitude: 36.217497

Position Uncertainty

0.00 usft 0.00 usft

Wellhead Elevation:

0.00 usft

Ground Level:

-107.818210 6,538.00 usft

| Wellbore | Wellbore #1 | | | | Programme Santa Sa |
|-----------|-------------|-------------|-------------|-----------|--|
| | | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | | | (°) | (°) | (nT) |
| | IGRF200510 | 12/31/2009 | 10.01 | 63.05 | 50,600 |

| Design Design | #1 23Sept16 sam | | | | |
|-------------------|------------------|--------|---------------|-----------|--|
| Audit Notes: | | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 | |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction | |
| | (usft) | (usft) | (usft) | (bearing) | |
| | 0.00 | 0.00 | 0.00 | 321.70 | |

| 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 | |
| 750.00 | 0.00 | 0.00 | 750.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,981.87 | 24.64 | 91.51 | 1,944.26 | -6.86 | 260.71 | 2.00 | 2.00 | 0.00 | 91.51 | |
| 3,769.35 | 24.64 | 91.51 | 3,569.01 | -26.48 | 1,005.60 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,645.68 | 60.00 | 315.11 | 4,306.71 | 289.01 | 903.78 | 9.00 | 4.04 | -15.56 | -142.51 | Start 60 Tan #773 |
| 4,745.68 | 60.00 | 315.11 | 4,356.71 | 350.36 | 842.66 | 0.00 | 0.00 | 0.00 | 0.00 | End 60 Tan #773h |
| 4,908.71 | 74.67 | 315.11 | 4,419.36 | 456.65 | 736.77 | 9.00 | 9.00 | 0.00 | 0.00 | |
| 5,077.88 | 89.90 | 315.11 | 4,442.00 | 575.06 | 618.81 | 9.00 | 9.00 | 0.00 | 0.00 | POE #773H |
| 12,416,91 | 89.90 | 315,11 | 4,455.00 | 5,774.38 | -4.560.79 | 0.00 | 0.00 | 0.00 | 0.00 | BHL #773H |

WPX

Planning Report

Database: COMPASS WPX Energy Company: Project: **T23N R9W** 2309-20D KWU Site: Well:

KWU #773H Wellbore: Wellbore #1

Design: Design #1 23Sept16 sam Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well KWU #773H (A1) - Slot A1

GL @ 6538.00usft (Original Well Elev) GL @ 6538.00usft (Original Well Elev)

True

Minimum Curvature

| 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 9 5/8" | 0.00 | 0.00 | 320.00 | 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 |
| 750.00 | 0.00 | 0.00 | 750.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Start Build 2 | .00 | | | | | | | | |
| 1,000.00 | 5.00 | 91.51 | 999.68 | -0.29 | 10.90 | -6.98 | 2.00 | 2.00 | 0.00 |
| 1,500.00 | 15.00 | 91.51 | 1,491.46 | -2.57 | 97.58 | -62.50 | 2.00 | 2.00 | 0.00 |
| 1,981.87 | 24.64 | 91.51 | 1,944.26 | -6.86 | 260.71 | -166.98 | 2.00 | 2.00 | 0.00 |
| Hold 24.64 II | nclination | | | | | | | | 100 |
| 2,000.00 | 24.64 | 91.51 | 1,960.74 | -7.06 | 268.26 | -171.82 | 0.00 | 0.00 | 0.00 |
| 2,500.00 | 24.64 | 91.51 | 2,415.22 | -12.55 | 476.63 | -305.27 | 0.00 | 0.00 | 0.00 |
| 3,000.00 | 24.64 | 91.51 | 2,869.70 | -18.03 | 684.99 | -438.72 | 0.00 | 0.00 | 0.00 |
| 3,500.00 | 24.64 | 91.51 | 3,324.18 | -23.52 | 893.36 | -572.18 | 0.00 | 0.00 | 0.00 |
| 3,769.35 | 24.64 | 91.51 | 3,569.01 | -26.48 | 1,005.60 | -644.07 | 0.00 | 0.00 | 0.00 |
| Start Build D | LS 9.00 TFO -14 | 12.51 | | | | | | | |
| 4,000.00 | 14.72 | 33.39 | 3,787.78 | -3.02 | 1,070.50 | -665.89 | 9.00 | -4.30 | -25.20 |
| 4,500.00 | 47.56 | 320.28 | 4,220.76 | 202.60 | 983.00 | -450.29 | 9.00 | 6.57 | -14.62 |
| 4,645.68 | 60.00 | 315.11 | 4,306.71 | 289.01 | 903.78 | -333.38 | 9.00 | 8.54 | -3.55 |
| Hold 60.00 li | nclination | | | | | | | | |
| 4,745.68 | 60.00 | 315.11 | 4,356.71 | 350.36 | 842.66 | -247.35 | 0.00 | 0.00 | 0.00 |
| | LS 9.00 TFO 0.0 | | | | | | | | |
| 4,908.71 | 74.67 | 315.11 | 4,419.36 | 456.65 | 736.77 | -98.31 | 9.00 | 9.00 | 0.00 |
| Start DLS 9. | | | | | | | And the second | The Property of the Control of the C | 1 |
| 5,000.00 | 82.89 | 315.11 | 4,437.10 | 520.03 | 673.63 | -9.43 | 9.00 | 9.00 | 0.00 |
| 5,077.88 | 89.90 | 315.11 | 4,442.00 | 575.06 | 618.81 | 67.73 | 9.00 | 9.00 | 0.00 |
| 5.078.00 | 89.90 | 315.11 | 4,442.00 | 575.15 | 618.72 | 67.85 | 0.00 | 0.00 | 0.00 |
| 7" | 69.90 | 315.11 | 4,442.00 | 375.15 | 010.72 | 07.00 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 5,500.00 6,000.00 | 89.90 89.90 | 315.11 315.11 | 4,442.75 4,443.63 | 874.12 | 320.89 -31.99 | 487.06 983.76 | 0.00 | 0.00 | 0.00 |
| 6,500.00 | 89.90 | 315.11 | 4,443.63 | 1,228.34 1.582.56 | -31.99 | 1.480.46 | 0.00 | 0.00 | 0.00 |
| 7,000.00 | 89.90 | 315.11 | 4,445.40 | 1,936.79 | -737.75 | 1,977.16 | 0.00 | 0.00 | 0.00 |
| 7,500.00 | 89.90 | 315.11 | 4,446.29 | 2,291.01 | -1,090.63 | 2,473.85 | 0.00 | 0.00 | 0.00 |
| 8,000.00 | 89.90 | 315.11 | 4,447.18 | 2.645.23 | -1,443.51 | 2,970.55 | 0.00 | 0.00 | 0.00 |
| 8,500.00 | 89.90 | 315.11 | 4,448.06 | 2,999.46 | -1,796.39 | 3,467.25 | 0.00 | 0.00 | 0.00 |
| 9,000.00 | 89.90 | 315.11 | 4,448.95 | 3,353.68 | -2,149.27 | 3,963.94 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 89.90 | 315.11 | 4,449.83 | 3,707.91 | -2,502.15 | 4,460.64 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 89.90 | 315.11 | 4,450.72 | 4,062.13 | -2,855.03 | 4,957.34 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 89.90 | 315.11 | 4,451.60 | 4,416.35 | -3,207.91 | 5,454.04 | 0.00 | 0.00 | 0.00 |
| 11,000.00 | 89.90 | 315.11 | 4,452.49 | 4,770.58 | -3,560.79 | 5,950.73 | 0.00 | 0.00 | 0.00 |
| 11,500.00 | 89.90 | 315.11 | 4,453.38 | 5,124.80 | -3,913.67 | 6,447.43 | 0.00 | 0.00 | 0.00 |
| 12,000.00 | 89.90 | 315.11 | 4,454.26 | 5,479.03 | -4,266.55 | 6,944.13 | 0.00 | 0.00 | 0.00 |
| 12,416.91 | 89.90 | 315.11 | 4,455.00 | 5,774.38 | -4,560.79 | 7,358.28 | 0.00 | 0.00 | 0.00 |

WPX

Planning Report

Database: Company: COMPASS

WPX Energy **T23N R9W**

Local Co-ordinate Reference: TVD Reference:

Well KWU #773H (A1) - Slot A1 GL @ 6538.00usft (Original Well Elev)

Project: Site: Well:

2309-20D KWU

MD Reference: North Reference: GL @ 6538.00usft (Original Well Elev)

KWU #773H Wellbore #1 Wellbore:

Survey Calculation Method:

True Minimum Curvature

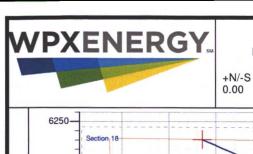
Design:

Design #1 23Sept16 sam

| 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 #773H - plan hits target center - Point | 0.00 | 0.00 | 4,306.71 | 289.01 | 903.78 | 1,898,699.89 | 505,364.82 | 36.218291 | -107.815146 |
| End 60 Tan #773H - plan hits target cente - Point | 0.00 | 0.00 | 4,356.71 | 350.36 | 842.66 | 1,898,761.23 | 505,303.69 | 36.218460 | -107.815354 |
| POE #773H - plan hits target center - Point | 0.00 | 0.00 | 4,442.00 | 575.06 | 618.81 | 1,898,985.90 | 505,079.80 | 36.219077 | -107.816112 |
| BHL #773H - plan hits target center - Point | 0.00 | 0.00 | 4,455.00 | 5,774.38 | -4,560.79 | 1,904,184.41 | 499,899.39 | 36.233359 | -107.833675 |

| Measured Depth | Vertical Depth | | | Casing Diameter | Hole Diameter | |
|-------------------|-------------------|--------|------|-----------------|------------------|--|
| (usft) | (usft) | | Name | (in) | (in) | |
| 320.00 | 320.00 | 9 5/8" | | 9.625 | 12.250 | |
| 5,078.00 | 4,442.00 | 7" | | 7.000 | 8.750 | |

| Measured | Vertical | Local Cool | rdinates | | | |
|-----------------|-----------------|-----------------|-----------------|----------------------------------|--|--|
| Depth (usft) | Depth (usft) | +N/-S (usft) | +E/-W (usft) | Comment | | |
| 750. | 0 750.00 | 0.00 | 0.00 | Start Build 2.00 | | |
| 1,981. | 7 1,944.26 | -6.86 | 260.71 | Hold 24.64 Inclination | | |
| 3,769. | 5 3,569.01 | -26.48 | 1,005.60 | Start Build DLS 9.00 TFO -142.51 | | |
| 4,645. | 8 4,306.71 | 289.01 | 903.78 | Hold 60.00 Inclination | | |
| 4,745. | 8 4,356.71 | 350.36 | 842.66 | Start Build DLS 9.00 TFO 0.00 | | |
| 4,908. | 1 4,419.36 | 456.65 | 736.77 | Start DLS 9.00 TFO 0.00 | | |
| 5,077. | 8 4,442.00 | 575.06 | 618.81 | POE at 89.90 Inc 315.11 Deg | | |
| 12,416.9 | 1 4,455.00 | 5,774.38 | -4,560.79 | TD at 12416.91 | | |



Well Name: KWU #773H

Surface Location: 2309-20D KWU

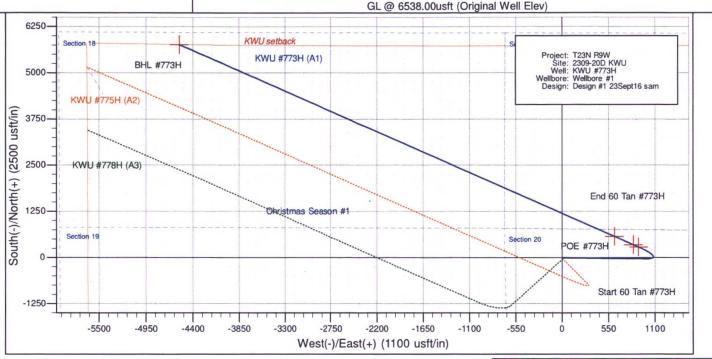
NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003

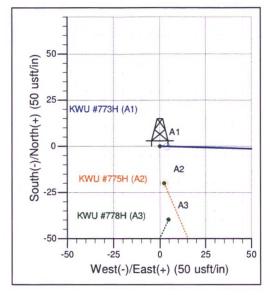
Ground Elevation: 6538.00

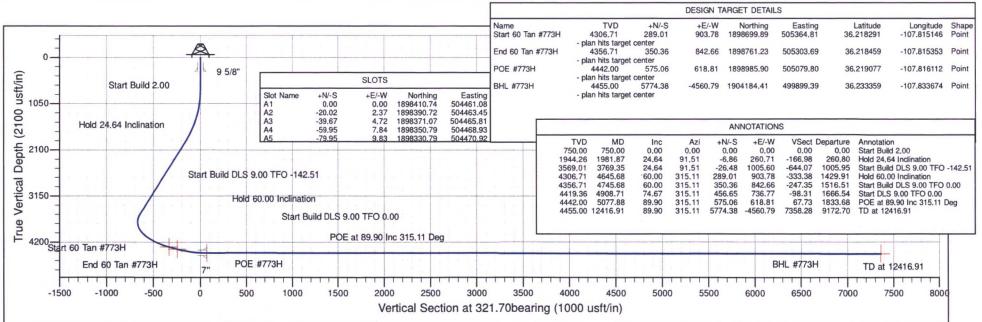
+N/-S +E/-W Northing 0.00 0.00 1898410.74 Easting Latittude 504461.08 36.217497 Longitude -107.818210

Slot A1 Azimuths to True North Magnetic North: 10.02

Magnetic Field Strength: 50599.9snT Dip Angle: 63.05° Date: 12/31/2009 Model: IGRF200510







Construction of all project features associated with KWU Remote #1 will consist of native borrow and subsoils from the Doak-Sheppard-Shiprock association, rolling soil map unit. A brief description of this soil can be found below.

Doak-Sheppard-Shiprock association, rolling soils are found on mesas, fan remnants, stream terraces, and dunes at 5,600 to 6,400 feet in elevation. The unit is composed of 40 percent Doak soils, 30 percent Sheppard soils, and 20 percent Shiprock soils. Doak soils occur on slopes from 0 to 5 percent and are well drained. Doak soils are deep and have a moderately slow permeability. Sheppard soils occur on slopes from 0 to 15 percent and are deep, somewhat excessively drained, and rapidly permeable. Shiprock soils occur on 0 to 5 percent slopes and are deep, well drained, and have a moderately rapid permeability. They formed in eolian material and slope alluvium. Effective rooting depth for this unit is 60 inches or greater. This unit is mainly used for livestock grazing and wildlife habitat. The major limitations of this mapping unit are: (I) the hazard of soil blowing and (2) the hazard of water erosion. (USDA/NRCS 2015).

7. 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

1 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

Portable toilets will be provided and maintained during construction, as needed (see Figures 3, 4, 7, and 8 in Appendix B for the location of toilets per project).

E. Garbage and other waste material

1 All garbage and trash will be placed in an enclosed metal trash containment. The trash and garbage will be hauled off site and dumped in an approved landfill, as needed.

F. Hazardous Waste

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.

<u>Directions from the Intersection of US Hwy 550 & US Hwy 64</u> in Bloomfield, NM to WPX Energy Production, LLC KWU #773H

777' FNL & 687' FWL, Section 20, T23N, R9W, N.M.P.M., San Juan County, NM

Latitude: 36.217510°N Longitude: 107.818826°W Datum: NAD1983

From the intersection of US Hwy 550 & US Hwy 64 in Bloomfield, NM, travel Southerly on US Hwy 550 for 35.9 miles to Mile Marker 115.7;

Go Right (South-westerly) @ Nageezi Post Office on County Road #7800 for 0.4 miles to 4-way intersection;

Go Straight (South-westerly) exiting paved County Road #7800, continuing on County Road #7820 for 0.6 miles to fork in roadway;

Go Right (South-westerly) which is straight remaining on County Road #7820 for 1.1 miles to a 4-way intersection;

Go Straight (South-westerly) remaining on County Road #7820 for 3.2 miles to fork in road;

Go Right (Northerly) for 0.2 miles to begin proposed access on left-hand side of existing roadway which continues for 1534.7' to staked WPX KWU #773H location.

