

NOS: 12-10-12
 APDP: N/A
 MP: N/A
 SMA: BLM
 BOND: UTB000178
 CA/PA: N/A

 UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 23 2013

 FORM APPROVED
 OMB No. 1004-0136
 Expires January 31, 2004

APPLICATION FOR PERMIT TO DRILL OR REENTER

 Farmington Field Office
 Bureau of Land Management

1a. Type of Work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMSF-078360
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name None
2. Name of Operator WPX Energy Production, LLC		7. If Unit or CA Agreement, Name and No.
3a. Address P.O. Box 640 Aztec, NM 87410		8. Lease Name and Well No. Lybrook 23-6-19 #201H
3b. Phone No. (include area code) (505) 333-1808		9. API Well No. 30-043-21139
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface M 1236' FSL & 287' FWL, sec 19, T23N, R6W At proposed prod. zone M 340' FSL & 340' FWL, sec 24, T23N, R7W		10. Field and Pool, or Exploratory Lybrook Gallup
14. Distance in miles and direction from nearest town or post office* approximately 4 miles sotheast of Lybrook, New Mexico		11. Sec., T., R., M., or Blk. and Survey or Area Section 19, 23N, 6W
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 287'	16. No. of Acres in lease 2565.24	12. County or Parish Sandoval County
17. Spacing Unit dedicated to this well 160 acres	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1900'	13. State NM
19. Proposed Depth 5416' TVD / 10442' MD	20. BLM/BIA Bond No. on file UTB000178	RCVD FEB 13 '13 OIL CONS. DIV. DIST. 3
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 7012' GR	22. Approximate date work will start* March 1, 2013	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:

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

25. Signature <i>Larry Higgins</i>	Name (Printed/Typed) Larry Higgins	Date 1/23/13
Title		
Permit Supervisor.		
Approved by (Signature) <i>[Signature]</i>	Name (Printed/Typed) AFM	Date 2/11/13
Title		
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 Lybrook Gallup formation at the above described location in accordance with the attached drilling and surface use plans.

The well pad surface is under jurisdiction of the BLM.

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

 2087 feet of new access road is needed.
NM'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
DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 31.105 and appeal pursuant to 43 CFR 31.105.4

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

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOC FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOC PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

NOTIFY AZTEC OCD 24 HRS FOR Directional Survey and "As Drilled" plat PRIOR TO CASING & CEMENT

Hold C104

 for Directional Survey
and "As Drilled" plat

FEB 19 2013 ca

APD Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 23th day of January, 2013.

Name Larry Higgins

Position Title Permit Supervisoe

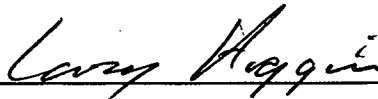
Address P.O. Box 640, Aztec, NM 87410

Telephone (505) 333-1808

Field representative (if not above signatory) _____

E-mail larry.higgins@wpxenergy.com

Date: 01/23/2013



Larry Higgins
WPX Energy Production, LLC

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
RECEIVED

JAN 23 2013

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-043-21139	*Pool Code 42289	*Pool Name Farmington Field Office LYBROOK GALLUP Bureau of Land Management
*Property Code 39731	*Property Name LYBROOK 23-6-19	*Well Number 201H
*GRID No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 7012'

¹⁰ Surface Location

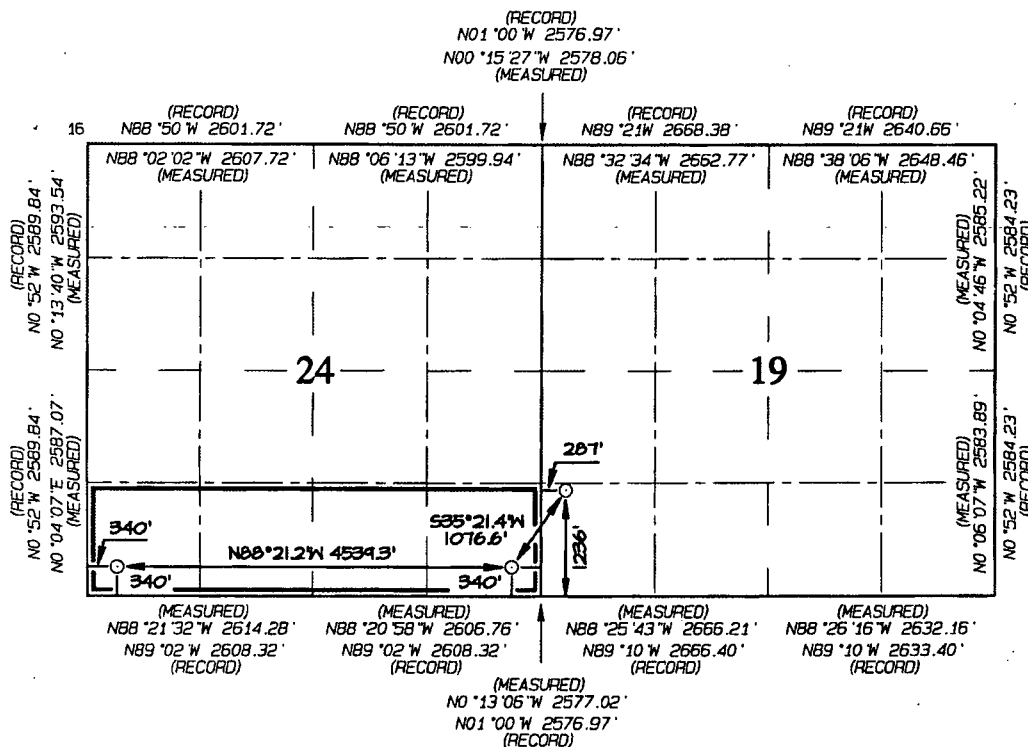
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	19	23N	6W	4	1236	SOUTH	287	WEST	SANDOVAL

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
M	24	23N	7W		340	SOUTH	340	WEST	SANDOVAL

¹² Dedicated Acres 160.0 Acres S/2 S/2 - Section 24	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE
BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



END-OF-LATERAL
340' FSL 340' FWL
SECTION 24, T23N, R7W
LAT: 36.20519°N
LONG: 107.53412°W
DATUM: NAD1927

LAT: 36.20519°N
LONG: 107.53473°W
DATUM: NAD1983

POINT-OF-ENTRY
340' FSL 340' FEL
SECTION 24, T23N, R7W
LAT: 36.20498°N
LONG: 107.51874°W
DATUM: NAD1927

LAT: 36.20499°N
LONG: 107.51935°W
DATUM: NAD1983

SURFACE LOCATION
1236' FSL 287' FWL
SECTION 19, T23N, R6W
LAT: 36.20742°N
LONG: 107.51667°W
DATUM: NAD1927

LAT: 36.20743°N
LONG: 107.51728°W
DATUM: NAD1983

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 heretofore entered by the division.

Signature: *Larry Higgins* Date: 1/23/13
Printed Name: Larry Higgins
E-mail Address: larry.higgins@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 of Survey: JULY 11, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

WPXENERGY

WPX ENERGY

Operations Plan

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

DATE: 1/22/2013 **FIELD:** Lybrook Gallup
WELL NAME: Lybrook 23-6-19 #201H **SURFACE:** BLM
SH Location: W/2 of SW Sec 19-23N-6W **ELEVATION:** 7012' GR
BH Location: SWSW Sec 24-23N-7W **MINERALS:** Federal
MEASURED DEPTH: 6,094' MD for Pilot & 10,442' MD for Horizontal **LEASE #** USA NMSF 078360

I. **GEOLOGY:** Surface formation – San Jose

A. **FORMATION TOPS:** (KB)

Name	MD	TVD	Name	MD	TVD
Ojo Alamo	1,348	1,348	Point Lookout	4,240	4,221
Kirtland	1,463	1,463	Mancos	4,440	4,417
Fruitland	1,694	1,694	Kickoff Point	4,980	4,600
Pictured Cliffs	1,940	1,940	Target Top	5,485	5,452
Lewis	2,033	2,033	Landing Point	5,894	5,529
Cliff House	3,440	3,431	Target Base	5,570	5,547
Menefee	3,516	3,501	Pilot Hole TD	6,094	6,070
			TD	10,442	5,416

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

C. **LOGGING PROGRAM:** OH Wireline logs in pilot hole, TD to Surface Csg. LWD GR from KOP to TD.

D. **NATURAL GAUGES:** Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

E. **CORE:** Obtain 120' of conventional core in the pilot hole at approximately 5436'-5556' TVD.

II. **DRILLING**

A. **MUD PROGRAM:** Use fresh water to drill surface hole to about 400', and LSND (WBM) to drill Pilot Hole. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. After cementing, will TIH and tag cement, and displace WBM with OBM only AFTER dressing plug and confirming hard cement at top of kick off plug. Notify Engineering of any mud losses during drilling. Plan to use oil base/invert emulsion fluid to drill curve and lateral to TD.

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 2000 psi, so the BOPE will be tested to **250 psi (Low) for 5 minutes** and **2000 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 noting time and results.**

NOTE: Pilot Hole will be vertically/directionally drilled as per attached Directional Plan to +/- 6,094' MD/6,070' TVD, E-Logged by SLB, and plugged back to above KOP at +/- 4,980' MD/4,600' TVD and drill 10 deg Curve portion of wellbore, and land curve at 90+ deg. at +/- 5,894' MD/5,529' 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 TD of +/-10,442' MD/5,416' TVD. Will run/cement 4-1/2 in liner from TD to Surface and cement at least 200' above top curve.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	12.25" hole	400'	9.625"	36#	K-55
Intermediate	8.75" hole	5,894'	7"	23#	J-55
Longstring	6.125" hole	10,442'	4.5"	11.6#	N-80

B. FLOAT EQUIPMENT:

1. **SURFACE CASING:** 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
2. **INTERMEDIATE CASING:** 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install 1 centralizer on each of the bottom 3 joints and one standard centralizer every 3 joints to 2,500 ft. Run (1) centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft.
3. **PRODUCTION CASING:** Run 4-1/2" liner w/whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Run one centralizer at least every 3 joints in lateral and around curve.

C. CEMENTING:

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

1. **SURFACE:** 10 bbl Fr Water Spacer + 190 sx (222.3 cu.ft.) of "Premium Cement" + 2% Calcium Chloride Cement + 0.125# pps of Poly-E-Flake, 15.8 #/gal (1.17 cu ft./sk, Vol 39.58 bbls.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi. Total Volume: (222.3 cu-ft/190 sx/39.6 Bbls).
2. **PILOT HOLE PLUG BACK: 3 STAGE CEMENT JOB: STAGE 1:** 33 bbl Fr Water Spacer (Mud Flush III) + 162 Sx Premium Cem, 15.8 #/gal (Yield 1.15 cu ft/sk / Vol: 186.3 cu-ft), .3% HR-5 retarder + .1% CFR-3 Dispersant. displace w/ Fr Water Est. TOC +/- 5,342 ft.. **STAGE 2:** 33 bbl Fr Water Spacer (Mud Flush III) + 200 sx Premium Cement. 15.8 #/gal (Yield 1.15 cu ft/sk / Vol: 230 cu-ft) + .2% HR-5 Retarder & .1% CFR-3 Dispersant displace w/ Fr Water Est. TOC +/- 4,634 ft. **STAGE 3:** 30 bbl Mud Flush III + 230 sx Premium Cement. 17 #/gal (Yield 1.0 cu-ft /sk / Vol: 230 cu-ft). +3% KCL Acc. + 0.2% HR-5 retarder. Est. TOC +/- 4,150 ft. Total Volume: (647 cu-ft/592 sx/115.2 bbls).
3. **INTERMEDIATE: CEMENT JOB: STAGE 1:** 20 bbl (112 cu-ft) Mud Flush III spacer + Lead: 850 sx Foamed 50/50 Poz Cement. 13.0 ppg (Yield :1.43 cu-ft/ sk. / Vol: 1216 cu-ft) + 0.1% Halad 766 + 0.2% Versaset + 1.5% Chem-Foamer 760 / TOTETANK + TAIL: 100 sx 13.5 #/gal. (Yield: 1.28 cu-ft / sk / Vol: 128 cu-ft) + 0.2% Versaset + 0.15% HALAD-766. + F. Water Displacement (1,511 cu-ft) + 100 sx Top-Out Cement Premium: Yield: (1.17 cu-ft/ sk (Vol: 117 cu-ft). Est TOC: Surface. Test Casing to 1500 PSI for 30 minutes. Total Volume: (2021 cu-ft/1050 sx/260 bbls).
4. **PRODUCTION CASING: STAGE 1:** 10 bbl (56.cu-ft) Fr Water Spacer. **STAGE 2:**20 bbl 10 ppg

(112.3 cu-ft) Tuned Spacer III + 0.2 gal/bbl Musol + 59.8 ppb Barite. **STAGE 3:** 10 bbl Fr Water Spacer. **STAGE 4: Lead Cement:** Standard Type V + .4% Halad-766 + .3% Halad R-344, Yield 1.19 cu ft/sk, 15.6 #/gal, (60 sx/71.4 cu ft.) **STAGE 5:** Foamed Lead Cement: 13.0 ppg (63.28 bbl / 355.3 cu-ft) 50/50 Poz Standard + 0.2% Versaset + 0.2% HALAD-766 + 1.5% Chem-Foamer 760. Yield 1.43 cu-ft/sk. **STAGE 6:** Tail Cement : 150 sx 50/50 Poz Standard + 0.2% Versaset + 0.25% HALAD-766, Weight: 13.5 ppg (Yield 1.29 cu ft/sk. / 193.5 cu ft.) **STAGE 7:** Displace w/176.6 bbl Fr Water. Mix w/ +/- 75,000 SCF Nitrogen. Est. TOC +/- 4,780 ft. Total Volume: (620.2 cu-ft/380 sx/110.4 bbls).

IV. COMPLETION

A. CBL

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

B. PRESSURE TEST

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

C. STIMULATION

1. Stimulate with approximately 2,805,000# 20/40 mesh sand and 340,000# 16/30 mesh sand in 619,113 gallons water with 42,696 mscf N₂ for 17 stages.
2. Isolate stages with flow through frac plug.
3. Drill out frac plugs with CTU and flowback lateral.

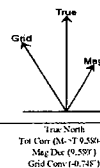
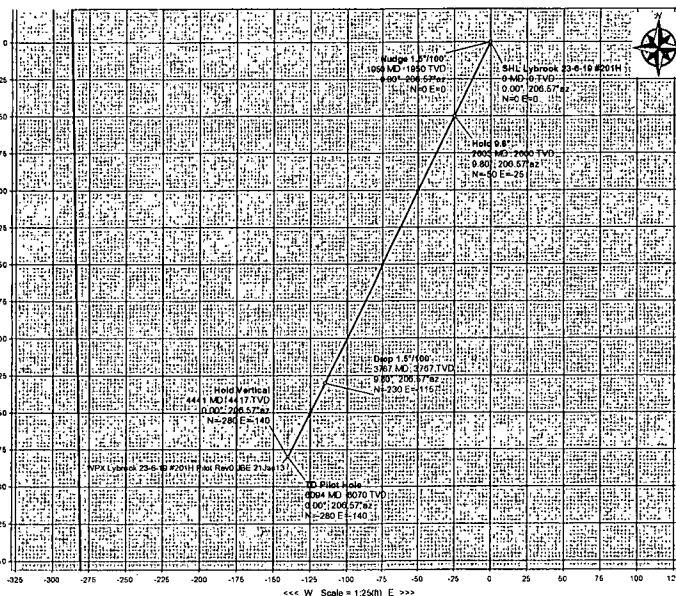
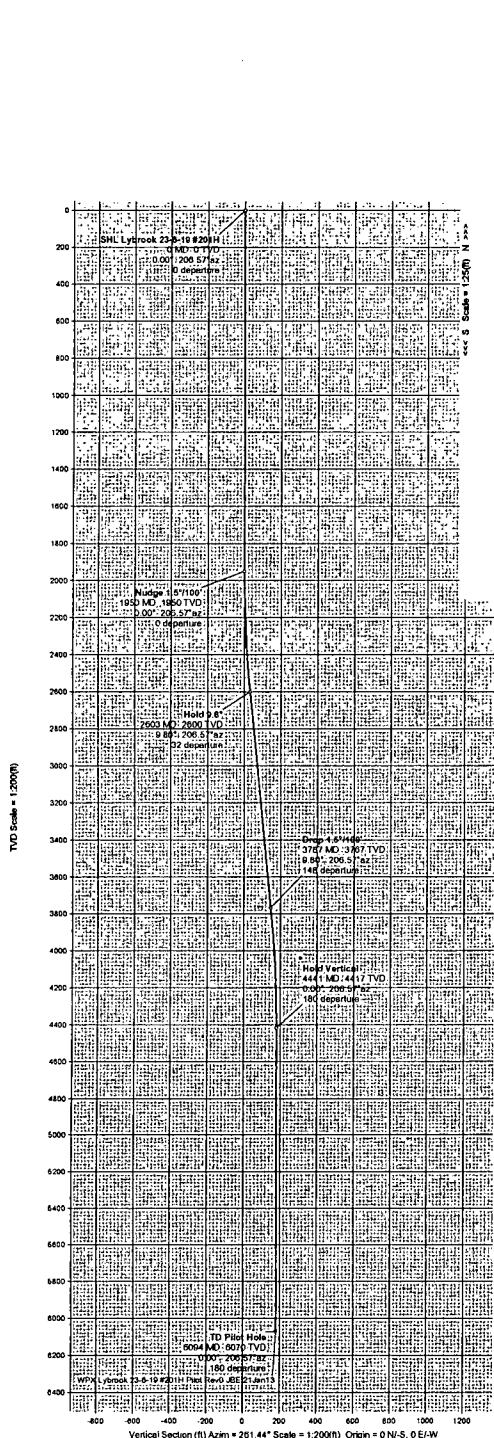
D. RUNNING TUBING

1. Production Tubing: Run 2-3/8", 4.7#, N-80, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing at landing point of curve (~5,890' MD).

KB: 14'

Pilot Rev0

VTI#	Lybrook 23-6-19 #201H	HP#23	NM Sandoval County NAD27	STRUCTURE	AWS 980
Magnetic Parameters	Model: 3000472012	Dip: 62.991°	Date: January 21, 2013	Surface Location	NAD27 New Mexico State Plane, Central Zone, U.S. Feet
		Mag Dec: 8.180°		Lat: 36° 36' 12.34" N	Long: 107° 31' 08.12" W
				Zone: 18Q UTM	Grid Zone: 18Q
				Scale: 1:250,000	Scale Factor: 1.00000000
				Plane: Polar Stereographic	Plane: Polar Stereographic
				Axis: Lybrook 23-6-19 #201H	Axis: Lybrook 23-6-19 #201H
				Plane: Polar Stereographic	Plane: Polar Stereographic
				Axis: Lybrook 23-6-19 #201H	Axis: Lybrook 23-6-19 #201H
				Plane: Polar Stereographic	Plane: Polar Stereographic
				Axis: Lybrook 23-6-19 #201H	Axis: Lybrook 23-6-19 #201H



Legend

Sec 24 T23N R07W 330' HL
Sec 19 T23N R06W
Sec 24 T23N R07W
WPX Lybrook 23-6-19 #201H Pilot Rev0 JBE 21Jan13

Critical Points

Comments	Survey MD (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	VS (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DL\$ (1/100ft)
SHL Lybrook 23-6-19 #201H	0.00	0.00	206.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nudge 1.5°/100'	1950.00	0.00	206.57	1950.00	0.00	0.00	0.00	0.00	0.00	0.00
Hold 9.8°	2603.49	9.80	206.57	2600.31	32.09	-49.88	-24.94	55.77	206.57	1.50
Drop 1.5°/100'	3766.69	9.80	206.57	3766.69	148.03	-230.12	-115.06	257.28	206.57	0.00
Hold Vertical	4440.65	0.00	206.57	4417.00	180.12	-280.00	-140.00	313.05	206.57	1.50
TD Pilot Hole	6093.65	0.00	206.57	6070.00	180.12	-280.00	-140.00	313.05	206.57	0.00

Drawn By: Jack Ench
Date Created: January 21, 2013 03:17:55 PM
Checked By:
Approved By:
Approval Date:



WPX Lybrook 23-6-19 #201H Pilot Rev0 JBE 21Jan13 Proposal Geodetic Report (Non-Def Plan)



Report Date: January 21, 2013 - 03:38 PM
Client: WPX Energy
Field: NM Sandoval County NAD27
Structure / Slot: WPX Lybrook 23-6-19 #201H / Lybrook 23-6-19 #201H
Well: WPX Lybrook 23-6-19 #201H
Borehole: Pilot
UWI / AP#: Unknown / Unknown
Survey Name: WPX Lybrook 23-6-19 #201H Pilot Rev0 JBE 21Jan13
Survey Date: January 21, 2013
Tort / AHD / DDI / ERD Ratio: 19.605 ° / 313.050 ft / 3.790 / 0.052
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 36° 12' 26.71200", W 107° 31' 0.01200"
Location Grid N/E Y/X: N 1897150.963 ftUS, E 126306.599 ftUS
CRS Grid Convergence Angle: -0.7483 °
Grid Scale Factor: 1.0000598

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 261.440 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 7026.000 ft above MSL
Seabed / Ground Elevation: 7012.000 ft above MSL
Magnetic Declination: 9.580 °
Total Gravity Field Strength: 999.1594 mgn (9.8 based)
Total Magnetic Field Strength: 50240.959 nT
Magnetic Dip Angle: 62.991 °
Declination Date: January 21, 2013
Magnetic Declination Model: BGGM 2012
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North->True North: 9.5804 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Lybrook 23-6-19 #201H	0.00	0.00	206.57	0.00	0.00	0.00	0.00	N/A	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
Nudge 1.5"/100'	1950.00	0.00	206.57	1950.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
Hold 9.8°	2603.49	9.80	206.57	2600.31	32.09	-49.88	-24.94	1.50	1897101.41	126281.01	N 36 12 26.22	W 107 31 0.32
Drop 1.5"/100'	3787.15	9.80	206.57	3766.69	148.03	-230.12	-115.06	0.00	1896922.35	126188.54	N 36 12 24.44	W 107 31 1.42
Hold Vertical	4440.65	0.00	206.57	4417.00	180.12	-280.00	-140.00	1.50	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
TD Pilot Hole	6093.65	0.00	206.57	6070.00	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	14.000	1/100.000	30.000	30.000	SLB_UNKNOWN-Depth Only	Pilot / WPX Lybrook 23-6-19 #201H Pilot Rev0 JBE 21Jan13
	14.000	6093.647	1/100.000	30.000	30.000	SLB_UNKNOWN	Pilot / WPX Lybrook 23-6-19 #201H Pilot Rev0 JBE 21Jan13



WPX Lybrook 23-6-19 #201H Pilot Rev0 JBE 21Jan13 Proposal Geodetic Report (Non-Def Plan)



Report Date: January 21, 2013 - 03:40 PM
Client: WPX Energy
Field: NM Sandoval County NAD27
Structure / Slot: WPX Lybrook 23-6-19 #201H / Lybrook 23-6-19 #201H
Well: WPX Lybrook 23-6-19 #201H
Borehole: Pilot
UWI / API#: Unknown / Unknown
Survey Name: WPX Lybrook 23-6-19 #201H Pilot Rev0 JBE 21Jan13
Survey Date: January 21, 2013
Tort / AHD / DDI / ERD Ratio: 19.605 ° / 313.050 ft / 3.790 / 0.052
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 36° 12' 26.71200", W 107° 31' 0.01200"
Location Grid N/E Y/X: N 1897150.963 ftUS, E 126306.599 ftUS
CRS Grid Convergence Angle: -0.7483 °
Grid Scale Factor: 1.0000598

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 261.440 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 7026.000 ft above MSL
Seabed / Ground Elevation: 7012.000 ft above MSL
Magnetic Declination: 9.580 °
Total Gravity Field Strength: 999.1594 mgn (9.8 based)
Total Magnetic Field Strength: 50240.959 nT
Magnetic Dip Angle: 62.991 °
Declination Date: January 21, 2013
Magnetic Declination Model: BGM 2012
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North→True North: 9.5804 °
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azlm True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Lybrook 23-6-19 #201H	0.00	0.00	206.57	0.00	0.00	0.00	0.00	N/A	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	100.00	0.00	206.57	100.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	200.00	0.00	206.57	200.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	300.00	0.00	206.57	300.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	400.00	0.00	206.57	400.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	500.00	0.00	206.57	500.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	600.00	0.00	206.57	600.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	700.00	0.00	206.57	700.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	800.00	0.00	206.57	800.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	900.00	0.00	206.57	900.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1000.00	0.00	206.57	1000.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1100.00	0.00	206.57	1100.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1200.00	0.00	206.57	1200.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1300.00	0.00	206.57	1300.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1400.00	0.00	206.57	1400.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1500.00	0.00	206.57	1500.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1600.00	0.00	206.57	1600.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1700.00	0.00	206.57	1700.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1800.00	0.00	206.57	1800.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1900.00	0.00	206.57	1900.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
Nudge 1.5"/100'	1950.00	0.00	206.57	1950.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	2000.00	0.75	206.57	2000.00	0.19	-0.29	-0.15	1.50	1897150.67	126306.45	N 36 12 26.71	W 107 31 0.01
	2100.00	2.25	206.57	2099.96	1.69	-2.63	-1.32	1.50	1897148.35	126305.25	N 36 12 26.69	W 107 31 0.03
	2200.00	3.75	206.57	2199.82	4.71	-7.31	-3.66	1.50	1897143.70	126302.85	N 36 12 26.64	W 107 31 0.06
	2300.00	5.25	206.57	2299.51	9.22	-14.33	-7.17	1.50	1897136.72	126299.25	N 36 12 26.57	W 107 31 0.10
	2400.00	6.75	206.57	2398.96	15.23	-23.68	-11.84	1.50	1897127.44	126294.45	N 36 12 26.48	W 107 31 0.16
	2500.00	8.25	206.57	2498.10	22.74	-35.36	-17.68	1.50	1897115.84	126288.46	N 36 12 26.36	W 107 31 0.23
	2600.00	9.75	206.57	2596.87	31.74	-49.35	-24.67	1.50	1897101.94	126281.28	N 36 12 26.22	W 107 31 0.31

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Hold 9.8°	2603.49	9.80	206.57	2600.31	32.09	-49.88	-24.94	1.50	1897101.41	126281.01	N 36 12 26.22	W 107 31 0.32
	2700.00	9.80	206.57	2695.41	41.54	-64.57	-32.29	0.00	1897086.81	126273.47	N 36 12 26.07	W 107 31 0.41
	2800.00	9.80	206.57	2793.95	51.33	-79.80	-39.90	0.00	1897071.69	126265.66	N 36 12 25.92	W 107 31 0.50
	2900.00	9.80	206.57	2892.49	61.13	-95.03	-47.51	0.00	1897056.56	126257.84	N 36 12 25.77	W 107 31 0.59
	3000.00	9.80	206.57	2991.03	70.93	-110.26	-55.13	0.00	1897041.43	126250.03	N 36 12 25.62	W 107 31 0.68
	3100.00	9.80	206.57	3089.57	80.72	-125.48	-62.74	0.00	1897026.30	126242.22	N 36 12 25.47	W 107 31 0.78
	3200.00	9.80	206.57	3188.11	90.52	-140.71	-70.36	0.00	1897011.17	126234.41	N 36 12 25.32	W 107 31 0.87
	3300.00	9.80	206.57	3286.65	100.31	-155.94	-77.97	0.00	1896996.05	126226.59	N 36 12 25.17	W 107 31 0.96
	3400.00	9.80	206.57	3385.19	110.11	-171.17	-85.58	0.00	1896980.92	126218.78	N 36 12 25.02	W 107 31 1.06
	3500.00	9.80	206.57	3483.73	119.90	-186.40	-93.20	0.00	1896965.79	126210.97	N 36 12 24.87	W 107 31 1.15
	3600.00	9.80	206.57	3582.27	129.70	-201.62	-100.81	0.00	1896950.66	126203.16	N 36 12 24.72	W 107 31 1.24
	3700.00	9.80	206.57	3680.81	139.49	-216.85	-108.43	0.00	1896935.53	126195.34	N 36 12 24.57	W 107 31 1.33
	3787.15	9.80	206.57	3766.69	148.03	-230.12	-115.06	0.00	1896922.35	126188.54	N 36 12 24.44	W 107 31 1.42
	3800.00	9.61	206.57	3779.35	149.28	-232.06	-116.03	1.50	1896920.43	126187.54	N 36 12 24.42	W 107 31 1.43
	3900.00	8.11	206.57	3878.16	158.14	-245.83	-122.92	1.50	1896906.74	126180.47	N 36 12 24.28	W 107 31 1.51
Drop 1.5°/100'	4000.00	6.61	206.57	3977.33	165.51	-257.29	-128.65	1.50	1896895.36	126174.60	N 36 12 24.17	W 107 31 1.58
	4100.00	5.11	206.57	4076.80	171.38	-266.42	-133.21	1.50	1896886.29	126169.91	N 36 12 24.08	W 107 31 1.64
	4200.00	3.61	206.57	4176.51	175.76	-273.22	-136.61	1.50	1896879.53	126166.42	N 36 12 24.01	W 107 31 1.68
	4300.00	2.11	206.57	4276.38	178.63	-277.68	-138.84	1.50	1896875.10	126164.13	N 36 12 23.97	W 107 31 1.71
	4400.00	0.61	206.57	4376.35	179.99	-279.81	-139.90	1.50	1896872.99	126163.05	N 36 12 23.95	W 107 31 1.72
	4440.65	0.00	206.57	4417.00	180.12	-280.00	-140.00	1.50	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4500.00	0.00	206.57	4476.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4600.00	0.00	206.57	4576.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4700.00	0.00	206.57	4676.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4800.00	0.00	206.57	4776.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
Hold Vertical	4900.00	0.00	206.57	4876.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	5000.00	0.00	206.57	4976.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	5100.00	0.00	206.57	5076.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	5200.00	0.00	206.57	5176.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	5300.00	0.00	206.57	5276.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	5400.00	0.00	206.57	5376.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	5500.00	0.00	206.57	5476.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	5600.00	0.00	206.57	5576.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	5700.00	0.00	206.57	5676.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	5800.00	0.00	206.57	5776.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
TD Pilot Hole	5900.00	0.00	206.57	5876.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	6000.00	0.00	206.57	5976.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	6093.65	0.00	206.57	6070.00	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72

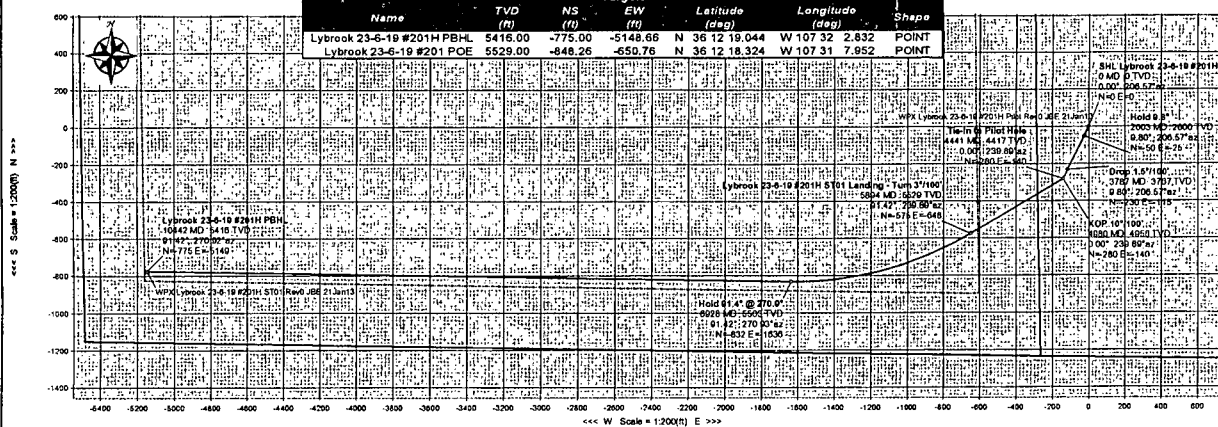
Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma

Survey Program:

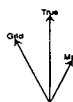
Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	14.000	1/100.000	30.000	30.000	SLB_UNKNOWN-Depth Only	Pilot / WPX Lybrook 23-6-19 #201H Pilot Rev0 JBE 21Jan13
	14.000	6093.647	1/100.000	30.000	30.000	SLB_UNKNOWN	Pilot / WPX Lybrook 23-6-19 #201H Pilot Rev0 JBE 21Jan13

WELL	LYBROOK 23-6-19 #201H	FIELD	NM Sandoval County NAD27	STRUC/LINE	AWS 980
Map Date	01/20/2013	Map Date	01/20/2013	Map Date	01/20/2013
Map Date	01/20/2013	Map Date	01/20/2013	Map Date	01/20/2013

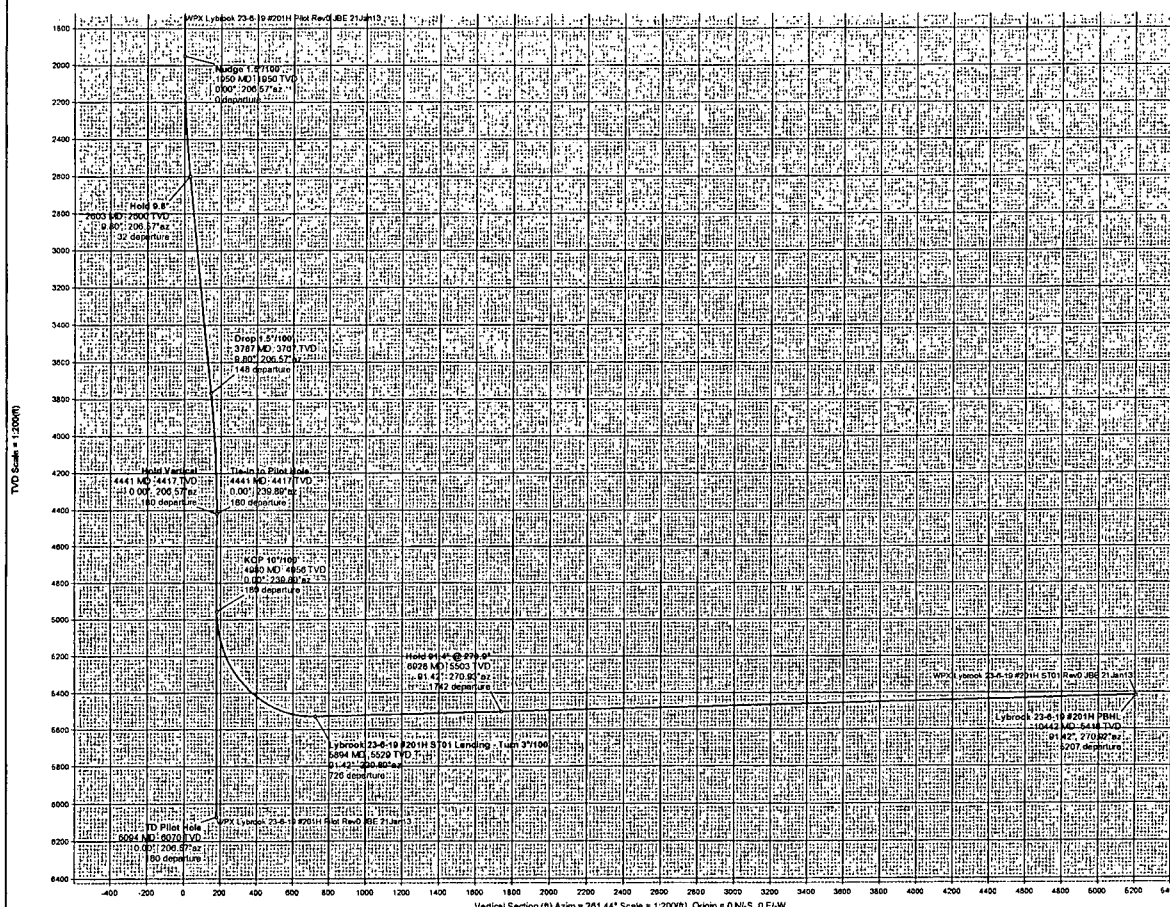


Legend

Lybrook 23-6-19 #201H PBHL
Sec 24 T23N R07W 330' HL
Sec 19 T23N R06W
Sec 24 T23N R07W
Lybrook 23-6-19 #201 POE
WPX Lybrook 23-6-19 #201H ST01 Rev0 JBE 21Jan13
WPX Lybrook 23-6-19 #201H Pilot Hole JBE 21Jan13



True North
Magnetic North
Grid Con (-0.248°)



TVD Scale = 1:2000

Vertical Section (ft) Azim = 261.44° Scale = 1:700(h) Origin = 0 N-S, 0 E-W

Comments	Survey MD (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	VS (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (°/100ft)
SHL Lybrook 23-6-19 #201H	0.00	0.00	206.57	0.00	0.00	0.00	0.00	0.00	0.00	
Nudge 1.5°/100'	1950.00	0.00	206.57	1950.00	0.00	0.00	0.00	0.00	0.00	0.00
Hold 9.8°	2603.49	9.80	206.57	2600.31	32.09	-49.88	-24.94	55.77	206.57	1.50
Drop 1.5°/100'	3787.15	9.80	206.57	3766.69	148.03	-230.12	-115.06	257.28	206.57	0.00
Hold Vertical	4440.65	0.00	206.57	4417.00	180.12	-280.00	-140.00	313.05	206.57	1.50
Tie-In to Pilot Hole	4440.65	0.00	239.89	4417.00	180.12	-280.00	-140.00	313.05	206.57	0.00
KOP 10°/100'	4979.87	0.00	239.89	4956.22	180.12	-280.00	-140.00	313.05	206.57	0.00
Lybrook 23-6-19 #201H ST01 Landing - Turn 3°/100'	5894.02	91.42	239.89	5520.00	726.18	-574.53	-647.88	865.93	228.43	10.00
Hold 91.4° @ 270.9°	6928.36	91.42	270.93	5502.82	1741.94	-831.82	-1636.36	1835.65	243.05	3.00
Lybrook 23-6-19 #201H PBHL	10442.19	91.42	270.92	5416.00	5206.66	-775.00	-5148.66	5206.66	261.44	0.00

Drawn By: Brett Ench
Date Created: January 21, 2013 05:41:48 PM
Checked By:
Approved By:



WPX Lybrook 23-6-19 #201H ST01 Rev0 JBE 21Jan13 Proposal Geodetic Report (Non-Def Plan)



Report Date: January 21, 2013 - 04:02 PM
Client: WPX Energy
Field: NM Sandoval County NAD27
Structure / Slot: WPX Lybrook 23-6-19 #201H / Lybrook 23-6-19 #201H
Well: WPX Lybrook 23-6-19 #201H
Borehole: ST01
UWI / API#: Unknown / Unknown
Survey Name: WPX Lybrook 23-6-19 #201H ST01 Rev0 JBE 21Jan13
Survey Date: January 21, 2013
Tort / AHD / DDI / ERD Ratio: 142.056 ° / 5446.927 ft / 6.165 / 0.985
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 36° 12' 26.71200", W 107° 31' 0.01200"
Location Grid N/E Y/X: N 1897150.963 ftUS, E 126306.599 ftUS
CRS Grid Convergence Angle: -0.7483 °
Grid Scale Factor: 1.0000598

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 261.440 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 7026.000 ft above MSL
Seabed / Ground Elevation: 7012.000 ft above MSL
Magnetic Declination: 9.580 °
Total Gravity Field Strength: 999.1594 mgn (9.8 based)
Total Magnetic Field Strength: 50240.959 nT
Magnetic Dip Angle: 62.991 °
Declination Date: January 21, 2013
Magnetic Declination Model: BGGM 2012
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North→True North: 9.5804 °

Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Lybrook 23-6-19 #201H	0.00	0.00	206.57	0.00	0.00	0.00	0.00	N/A	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
Nudge 1.5"/100'	1950.00	0.00	206.57	1950.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
Hold 9.8°	2603.49	9.80	206.57	2600.31	32.09	-49.88	-24.94	1.50	1897101.41	126281.01	N 36 12 26.22	W 107 31 0.32
Drop 1.5"/100'	3787.15	9.80	206.57	3766.69	148.03	-230.12	-115.06	0.00	1896922.35	126188.54	N 36 12 24.44	W 107 31 1.42
Hold Vertical	4440.65	0.00	206.57	4417.00	180.12	-280.00	-140.00	1.50	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
Tie-In to Pilot Hole	4440.65	0.00	239.89	4417.00	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
KOP 10"/100'	4979.87	0.00	239.89	4956.22	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
Lybrook 23-6-19 #201H ST01												
Landing - Turn 3"/100'	5894.02	91.42	239.89	5529.00	726.18	-574.53	-647.88	10.00	1896584.91	125651.23	N 36 12 21.03	W 107 31 7.92
Hold 91.4° @ 270.9°	6928.36	91.42	270.93	5502.82	1741.94	-831.82	-1636.36	3.00	1896340.54	124659.42	N 36 12 18.49	W 107 31 19.98
Lybrook 23-6-19 #201H PBHL	10442.19	91.42	270.92	5416.00	5206.66	-775.00	-5148.66	0.00	1896443.24	121147.96	N 36 12 19.04	W 107 32 2.83

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	4440.650	4440.650	1/100.000	30.000	30.000	SLB_UNKNOWN	ST01 / WPX Lybrook 23-6-19 #201H ST01 Rev0 JBE 21Jan13



A Schlumberger Company

WPX Lybrook 23-6-19 #201H ST01 Rev0 JBE 21Jan13 Proposal Geodetic

Report

(Non-Def Plan)

WPX ENERGY



Report Date: January 21, 2013 - 04:04 PM
 Client: WPX Energy
 Field: NM Sandoval County NAD27
 Structure / Slot: WPX Lybrook 23-6-19 #201H / Lybrook 23-6-19 #201H
 Well: WPX Lybrook 23-6-19 #201H
 Borehole: ST01
 UWI / API#: Unknown / Unknown
 Survey Name: WPX Lybrook 23-6-19 #201H ST01 Rev0 JBE 21Jan13
 Survey Date: January 21, 2013
 Tort / AHD / DDI / ERD Ratio: 142.056 ° / 5446.927 ft / 6.165 / 0.985
 Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
 Location Lat / Long: N 36° 12' 26.71200", W 107° 31' 0.01200"
 Location Grid N/E Y/X: N 1897150.963 ftUS, E 126306.599 ftUS
 CRS Grid Convergence Angle: -0.7483 °
 Grid Scale Factor: 1.0000598

Survey / DLS Computation: Minimum Curvature / Lubinski
 Vertical Section Azimuth: 261.440 ° (True North)
 Vertical Section Origin: 0.000 ft, 0.000 ft
 TVD Reference Datum: RKB
 TVD Reference Elevation: 7026.000 ft above MSL
 Seabed / Ground Elevation: 7012.000 ft above MSL
 Magnetic Declination: 9.580 °
 Total Gravity Field Strength: 999.1594 mgn (9.8 based)
 Total Magnetic Field Strength: 50240.959 nT
 Magnetic Dip Angle: 62.991 °
 Declination Date: January 21, 2013
 Magnetic Declination Model: BGM 2012
 North Reference: True North
 Grid Convergence Used: 0.0000 °
 Total Corr Mag North->True North: 9.5804 °
 Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
SHL Lybrook 23-6-19 #201H	0.00	0.00	206.57	0.00	0.00	0.00	0.00	N/A	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	100.00	0.00	206.57	100.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	200.00	0.00	206.57	200.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	300.00	0.00	206.57	300.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	400.00	0.00	206.57	400.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	500.00	0.00	206.57	500.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	600.00	0.00	206.57	600.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	700.00	0.00	206.57	700.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	800.00	0.00	206.57	800.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	900.00	0.00	206.57	900.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1000.00	0.00	206.57	1000.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1100.00	0.00	206.57	1100.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1200.00	0.00	206.57	1200.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1300.00	0.00	206.57	1300.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1400.00	0.00	206.57	1400.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1500.00	0.00	206.57	1500.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1600.00	0.00	206.57	1600.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1700.00	0.00	206.57	1700.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1800.00	0.00	206.57	1800.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	1900.00	0.00	206.57	1900.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
Nudge 1.5"/100'	1950.00	0.00	206.57	1950.00	0.00	0.00	0.00	0.00	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	2000.00	0.75	206.57	2000.00	0.19	-0.29	-0.15	1.50	1897150.67	126306.45	N 36 12 26.71	W 107 31 0.01
	2100.00	2.25	206.57	2099.96	1.69	-2.63	-1.32	1.50	1897148.35	126305.25	N 36 12 26.69	W 107 31 0.03
	2200.00	3.75	206.57	2199.82	4.71	-7.31	-3.66	1.50	1897143.70	126302.85	N 36 12 26.64	W 107 31 0.06
	2300.00	5.25	206.57	2299.51	9.22	-14.33	-7.17	1.50	1897136.72	126299.25	N 36 12 26.57	W 107 31 0.10
	2400.00	6.75	206.57	2398.96	15.23	-23.68	-11.84	1.50	1897127.44	126294.45	N 36 12 26.48	W 107 31 0.16
	2500.00	8.25	206.57	2498.10	22.74	-35.36	-17.68	1.50	1897115.84	126288.46	N 36 12 26.36	W 107 31 0.23
	2600.00	9.75	206.57	2596.87	31.74	-49.35	-24.67	1.50	1897101.94	126281.28	N 36 12 26.22	W 107 31 0.31

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Hold 9.8°	2603.49	9.80	206.57	2600.31	32.09	-49.88	-24.94	1.50	1897101.41	126281.01	N 36 12 26.22	W 107 31 0.32
	2700.00	9.80	206.57	2695.41	41.54	-64.57	-32.29	0.00	1897086.81	126273.47	N 36 12 26.07	W 107 31 0.41
	2800.00	9.80	206.57	2793.95	51.33	-79.80	-39.90	0.00	1897071.69	126265.66	N 36 12 25.92	W 107 31 0.50
	2900.00	9.80	206.57	2892.49	61.13	-95.03	-47.51	0.00	1897056.56	126257.84	N 36 12 25.77	W 107 31 0.59
	3000.00	9.80	206.57	2991.03	70.93	-110.26	-55.13	0.00	1897041.43	126250.03	N 36 12 25.62	W 107 31 0.68
	3100.00	9.80	206.57	3089.57	80.72	-125.48	-62.74	0.00	1897026.30	126242.22	N 36 12 25.47	W 107 31 0.78
	3200.00	9.80	206.57	3188.11	90.52	-140.71	-70.36	0.00	1897011.17	126234.41	N 36 12 25.32	W 107 31 0.87
	3300.00	9.80	206.57	3286.65	100.31	-155.94	-77.97	0.00	1896996.05	126226.59	N 36 12 25.17	W 107 31 0.96
	3400.00	9.80	206.57	3385.19	110.11	-171.17	-85.58	0.00	1896980.92	126218.78	N 36 12 25.02	W 107 31 1.06
	3500.00	9.80	206.57	3483.73	119.90	-186.40	-93.20	0.00	1896965.79	126210.97	N 36 12 24.87	W 107 31 1.15
	3600.00	9.80	206.57	3582.27	129.70	-201.62	-100.81	0.00	1896950.66	126203.16	N 36 12 24.72	W 107 31 1.24
	3700.00	9.80	206.57	3680.81	139.49	-216.85	-108.43	0.00	1896935.53	126195.34	N 36 12 24.57	W 107 31 1.33
	3787.15	9.80	206.57	3766.69	148.03	-230.12	-115.06	0.00	1896922.35	126188.54	N 36 12 24.44	W 107 31 1.42
	3800.00	9.61	206.57	3779.35	149.28	-232.06	-116.03	1.50	1896920.43	126187.54	N 36 12 24.42	W 107 31 1.43
	3900.00	8.11	206.57	3878.16	158.14	-245.83	-122.92	1.50	1896906.74	126180.47	N 36 12 24.28	W 107 31 1.51
Drop 1.5°/100'	4000.00	6.61	206.57	3977.33	165.51	-257.29	-128.65	1.50	1896895.36	126174.60	N 36 12 24.17	W 107 31 1.58
	4100.00	5.11	206.57	4076.80	171.38	-266.42	-133.21	1.50	1896886.29	126169.91	N 36 12 24.08	W 107 31 1.64
	4200.00	3.61	206.57	4176.51	175.76	-273.22	-136.61	1.50	1896879.53	126166.42	N 36 12 24.01	W 107 31 1.68
	4300.00	2.11	206.57	4276.38	178.63	-277.68	-138.84	1.50	1896875.10	126164.13	N 36 12 23.97	W 107 31 1.71
	4400.00	0.61	206.57	4376.35	179.99	-279.81	-139.90	1.50	1896872.99	126163.05	N 36 12 23.95	W 107 31 1.72
	4440.65	0.00	206.57	4417.00	180.12	-280.00	-140.00	1.50	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4440.65	0.00	239.89	4417.00	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4500.00	0.00	239.89	4476.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4600.00	0.00	239.89	4576.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4700.00	0.00	239.89	4676.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4800.00	0.00	239.89	4776.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4900.00	0.00	239.89	4876.35	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	4979.87	0.00	239.89	4956.22	180.12	-280.00	-140.00	0.00	1896872.80	126162.95	N 36 12 23.94	W 107 31 1.72
	5000.00	2.01	239.89	4976.35	180.45	-280.18	-140.31	10.00	1896872.63	126162.64	N 36 12 23.94	W 107 31 1.72
	5100.00	12.01	239.89	5075.47	191.79	-286.29	-150.85	10.00	1896866.65	126152.01	N 36 12 23.88	W 107 31 1.85
KOP 10°/100'	5200.00	22.01	239.89	5170.98	218.97	-300.95	-176.13	10.00	1896852.32	126126.54	N 36 12 23.74	W 107 31 2.16
	5300.00	32.01	239.89	5259.95	261.16	-323.71	-215.38	10.00	1896830.07	126087.00	N 36 12 23.51	W 107 31 2.64
	5400.00	42.01	239.89	5339.70	317.08	-353.87	-267.39	10.00	1896800.59	126034.60	N 36 12 23.21	W 107 31 3.27
	5500.00	52.01	239.89	5407.80	385.03	-390.52	-330.59	10.00	1896764.77	125970.92	N 36 12 22.85	W 107 31 4.05
	5600.00	62.01	239.89	5462.17	462.95	-432.55	-403.06	10.00	1896723.69	125897.91	N 36 12 22.43	W 107 31 4.93
	5700.00	72.01	239.89	5501.18	548.46	-478.67	-482.59	10.00	1896678.61	125817.77	N 36 12 21.98	W 107 31 5.90
	5800.00	82.01	239.89	5523.62	638.98	-527.49	-566.78	10.00	1896630.89	125732.95	N 36 12 21.50	W 107 31 6.93
Lybrook 23-6-19 #201H ST01 Landing - Turn 3°/100'	5894.02	91.42	239.89	5529.00	726.18	-574.53	-647.88	10.00	1896584.91	125651.23	N 36 12 21.03	W 107 31 7.92
	5900.00	91.42	240.07	5528.86	731.75	-577.52	-653.06	3.00	1896581.99	125646.01	N 36 12 21.00	W 107 31 7.98
	6000.00	91.43	243.07	5526.37	825.76	-625.11	-740.97	3.00	1896535.55	125557.49	N 36 12 20.53	W 107 31 9.05
	6100.00	91.45	246.07	5523.85	921.41	-668.03	-831.24	3.00	1896493.81	125466.66	N 36 12 20.11	W 107 31 10.15
	6200.00	91.46	249.07	5521.31	1018.45	-706.17	-923.63	3.00	1896456.88	125373.77	N 36 12 19.73	W 107 31 11.28
	6300.00	91.47	252.07	5518.76	1116.62	-739.41	-1017.90	3.00	1896424.87	125279.07	N 36 12 19.40	W 107 31 12.43
	6400.00	91.47	255.07	5516.20	1215.63	-767.68	-1113.78	3.00	1896397.85	125182.83	N 36 12 19.12	W 107 31 13.60
	6500.00	91.47	258.08	5513.64	1315.23	-790.89	-1211.00	3.00	1896375.92	125085.30	N 36 12 18.89	W 107 31 14.79
	6600.00	91.46	261.08	5511.08	1415.13	-808.97	-1309.31	3.00	1896359.11	124986.76	N 36 12 18.71	W 107 31 15.99
	6700.00	91.45	264.08	5508.54	1515.07	-821.89	-1408.42	3.00	1896347.50	124887.48	N 36 12 18.58	W 107 31 17.20
	6800.00	91.44	267.08	5506.01	1614.76	-829.59	-1508.08	3.00	1896341.09	124787.72	N 36 12 18.51	W 107 31 18.41
	6900.00	91.42	270.08	5503.52	1713.95	-832.07	-1608.01	3.00	1896339.92	124687.77	N 36 12 18.48	W 107 31 19.63
Hold 91.4° @ 270.9°	6928.36	91.42	270.93	5502.82	1741.94	-831.82	-1636.36	3.00	1896340.54	124659.42	N 36 12 18.49	W 107 31 19.98
	7000.00	91.42	270.93	5501.05	1812.58	-830.66	-1707.97	0.00	1896342.63	124587.83	N 36 12 18.50	W 107 31 20.85
	7100.00	91.42	270.93	5498.58	1911.18	-829.04	-1807.92	0.00	1896345.56	124487.90	N 36 12 18.51	W 107 31 22.07
	7200.00	91.42	270.93	5496.11	2009.79	-827.42	-1907.88	0.00	1896348.49	124387.96	N 36 12 18.53	W 107 31 23.29
	7300.00	91.42	270.93	5493.64	2108.39	-825.80	-2007.84	0.00	1896351.42	124288.03	N 36 12 18.55	W 107 31 24.51
	7400.00	91.42	270.93	5491.17	2206.99	-824.17	-2107.79	0.00	1896354.34	124188.10	N 36 12 18.56	W 107 31 25.73

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	7500.00	91.42	270.93	5488.70	2305.59	-822.55	-2207.75	0.00	1896357.27	124088.17	N 36 12 18.58	W 107 31 26.95
	7600.00	91.42	270.93	5486.23	2404.19	-820.93	-2307.71	0.00	1896360.19	123988.23	N 36 12 18.59	W 107 31 28.17
	7700.00	91.42	270.93	5483.76	2502.79	-819.31	-2407.66	0.00	1896363.12	123888.30	N 36 12 18.61	W 107 31 29.39
	7800.00	91.42	270.93	5481.29	2601.40	-817.69	-2507.62	0.00	1896366.05	123788.37	N 36 12 18.62	W 107 31 30.61
	7900.00	91.42	270.93	5478.82	2700.00	-816.07	-2607.58	0.00	1896368.97	123688.44	N 36 12 18.64	W 107 31 31.83
	8000.00	91.42	270.93	5476.35	2798.60	-814.45	-2707.53	0.00	1896371.90	123588.50	N 36 12 18.66	W 107 31 33.05
	8100.00	91.42	270.93	5473.88	2897.20	-812.83	-2807.49	0.00	1896374.82	123488.57	N 36 12 18.67	W 107 31 34.27
	8200.00	91.42	270.93	5471.41	2995.80	-811.21	-2907.44	0.00	1896377.75	123388.64	N 36 12 18.69	W 107 31 35.49
	8300.00	91.42	270.93	5468.94	3094.40	-809.60	-3007.40	0.00	1896380.67	123288.71	N 36 12 18.70	W 107 31 36.71
	8400.00	91.42	270.93	5466.47	3193.01	-807.98	-3107.36	0.00	1896383.59	123188.77	N 36 12 18.72	W 107 31 37.93
	8500.00	91.42	270.93	5464.00	3291.61	-806.36	-3207.31	0.00	1896386.52	123088.84	N 36 12 18.74	W 107 31 39.15
	8600.00	91.42	270.93	5461.53	3390.21	-804.74	-3307.27	0.00	1896389.44	122988.91	N 36 12 18.75	W 107 31 40.36
	8700.00	91.42	270.93	5459.06	3488.81	-803.12	-3407.23	0.00	1896392.36	122888.98	N 36 12 18.77	W 107 31 41.58
	8800.00	91.42	270.93	5456.59	3587.42	-801.51	-3507.18	0.00	1896395.29	122789.04	N 36 12 18.78	W 107 31 42.80
	8900.00	91.42	270.93	5454.12	3686.02	-799.89	-3607.14	0.00	1896398.21	122689.11	N 36 12 18.80	W 107 31 44.02
	9000.00	91.42	270.93	5451.64	3784.62	-798.27	-3707.10	0.00	1896401.13	122589.18	N 36 12 18.82	W 107 31 45.24
	9100.00	91.42	270.93	5449.17	3883.22	-796.66	-3807.05	0.00	1896404.05	122489.25	N 36 12 18.83	W 107 31 46.46
	9200.00	91.42	270.93	5446.70	3981.82	-795.04	-3907.01	0.00	1896406.97	122389.31	N 36 12 18.85	W 107 31 47.68
	9300.00	91.42	270.93	5444.23	4080.43	-793.43	-4006.97	0.00	1896409.89	122289.38	N 36 12 18.86	W 107 31 48.90
	9400.00	91.42	270.93	5441.76	4179.03	-791.81	-4106.92	0.00	1896412.81	122189.45	N 36 12 18.88	W 107 31 50.12
	9500.00	91.42	270.93	5439.29	4277.63	-790.20	-4206.88	0.00	1896415.73	122089.52	N 36 12 18.89	W 107 31 51.34
	9600.00	91.42	270.93	5436.82	4376.23	-788.58	-4306.83	0.00	1896418.65	121989.58	N 36 12 18.91	W 107 31 52.56
	9700.00	91.42	270.93	5434.35	4474.84	-786.97	-4406.79	0.00	1896421.57	121889.65	N 36 12 18.93	W 107 31 53.78
	9800.00	91.42	270.93	5431.87	4573.44	-785.35	-4506.75	0.00	1896424.49	121789.72	N 36 12 18.94	W 107 31 55.00
	9900.00	91.42	270.92	5429.40	4672.04	-783.74	-4606.70	0.00	1896427.41	121689.79	N 36 12 18.96	W 107 31 56.22
	10000.00	91.42	270.92	5426.93	4770.65	-782.13	-4706.66	0.00	1896430.33	121589.85	N 36 12 18.97	W 107 31 57.44
	10100.00	91.42	270.92	5424.46	4869.25	-780.51	-4806.62	0.00	1896433.25	121489.92	N 36 12 18.99	W 107 31 58.66
	10200.00	91.42	270.92	5421.99	4967.85	-778.90	-4906.57	0.00	1896436.17	121389.99	N 36 12 19.01	W 107 31 59.88
	10300.00	91.42	270.92	5419.52	5066.45	-777.29	-5006.53	0.00	1896439.09	121290.06	N 36 12 19.02	W 107 32 1.10
	10400.00	91.42	270.92	5417.04	5165.06	-775.68	-5106.49	0.00	1896442.00	121190.12	N 36 12 19.04	W 107 32 2.32
Lybrook 23-6-19 #201H PBHL	10442.19	91.42	270.92	5416.00	5206.66	-775.00	-5148.66	0.00	1896443.24	121147.96	N 36 12 19.04	W 107 32 2.83

Survey Type: Non-Def Plan

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	14.000	1/100.000	30.000	30.000	SLB_UNKNOWN-Depth Only	ST01 / WPX Lybrook 23-6-19 #201H ST01 Rev0 JBE 21Jan13
	14.000	10442.193	1/100.000	30.000	30.000	SLB_UNKNOWN	ST01 / WPX Lybrook 23-6-19 #201H ST01 Rev0 JBE 21Jan13

SURFACE USE PLAN OF OPERATIONS
WPX Energy Production, LLC
Lybrook 23-6-19 No. 201H

General Conditions of Approval and Cultural Resource Requirements
Will Apply to this Action

1. Existing Roads:

The proposed WPX Energy Production, LLC (WPX) Lybrook 23-6-19 No. 201H well is located approximately 52 road miles south-southeast of the town of Bloomfield, New Mexico. To access the proposed well from the town of Bloomfield, head south from the United States (U.S.) Highway 550-U.S. Highway 64 intersection for approximately 51.0 miles and turn right to follow unnamed, dirt roads for approximately 1.1 miles until reaching the proposed well site. This access route is shown on the attached map (Figure 1).

For existing county roads or roads that are considered collector roads, under the jurisdiction of the Road Committee, WPX will defer to the county or Road Committee for maintenance determinations. Lease roads that are WPX's responsibility, as the operator, will be maintained in the same condition or in a better condition than before operations began. Specifically, WPX will conduct routine inspections of road conditions, blade the road(s) when necessary to reduce ruts and holes, maintain crowns and out slopes along the road(s), replace surfacing materials, clear sediment blocking ditches and culverts along the road(s), maintain interim reclamation, and control noxious weeds.

2. New or Reconstructed Access Roads:

An approximately 2,087-foot-long access road will be needed to access the proposed well site, of which approximately 281 feet will be new access and approximately 1,806 feet will follow an existing two-track road. The existing, dirt roadway that is located immediately north of the proposed access road will be upgraded starting from approximately 250 feet south of U.S. Highway 550 to the start of the proposed access road. A secondary, 257-foot-long access road will be constructed from an existing oil and gas lease road, north of the proposed Lybrook 23-6-19 No. 201H project area, to an existing, over-vegetated silt trap (abandoned) that will be maintained (cleared and excavated) during the proposed construction phase of the project. The well pad access road, secondary access road, and existing silt trap are depicted on Figures 1 and 2 at the end of this Surface Use Plan of Operations.

The proposed well pad access road will travel westward from the existing, two-track road and will enter the proposed well pad at the northern side of the pad. The proposed secondary road will travel westward from an existing, oil and gas lease road and enter the existing silt trap from the southeast. The access roads will be constructed with a 16-foot-wide driving surface and will be crowned with drainage on both sides. The proposed access roads will be built up 18 to 24 inches following *The Gold Book: Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development* standards. Dust abatement will also be utilized along the access roads. The proposed well pad access road will be recessed in, in order for equipment to safely

