

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey, Division Director
Oil Conservation Division



New Mexico Oil Conservation Division approval and conditions
listed below are made in accordance with OCD Rule 19.15.7.11
and are in addition to the actions approved by BLM on the
following 3160-4 or 3160-5 form.

Operator Signature Date: April 2, 2013

Well information:

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf Owner	UL	Sec	Twp	N/S	Rng	W/E
30-039-31107-00-00	SCHALK 32	004H	WPX ENERGY PRODUCTION, LLC	G	N	Rio Arriba	F	N	32	31	N	4	W

Conditions of Approval:

Hold C104 for directional survey and as drilled plat

JUL 10 2013

NMOCD Approved by Signature

Date

RECEIVED

Form 3160-5
(February 2005)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 02 2013

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007Farmington Field Office
Bureau of Land Management**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WPX Energy Production, LLC

3a. Address

PO Box 640 Aztec, NM 87410

3b. Phone No. (include area code)

505-333-1808

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sur: 664' FSL & 1989' FWL, sec 32 - BHL: 700' FSL & 700' FWL, Sec 33, T31N, R4W

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

Schalk 32 #28 4H

9. API Well No.

30-039-31107

10. Field and Pool or Exploratory Area

Basin Fruitland

11. Country or Parish, State

Rio Arriba, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Sur & BHL change
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

USFS SURFACE

WPX Energy plans to move surface location 30 feet North and change BHL as per attached plat, operation plan and directional plan. All surface disturbance will remain on permitted location.

RCVD JUN 14 '13
OIL CONS. DIV.
DIST. 3

APPROVAL OR ACCEPTANCE OF THIS
NOTICE BY THE LESSEE AND
CONVEYANCE OF ANY OTHER
INTERESTS REQUIRED FOR OPERATIONS
ON FEDERAL AND BLM LANDS

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)

Larry Higgins

Title Permit Supervisor

Signature

Date 4/2/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Sellers

Title Petroleum Engineer

Date 6/12/2013

Conditions of approval, if any, are attached. Approval of this notice 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.

Office FFO

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 page 2)

**H₂S POTENTIAL EXIST**

NMOC
FV

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

1220 South St. Francis Drive
Santa Fe, NM 87505

Submit one copy to
Appropriate District Office

☐ AMENDED REPORT
RECEIVED

APR 02 2013

*API Number 30-039-31107	*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 301345	*Property Name SCHALK 32	*Well Number 28 4H
*OGARD No. 120782	*Operator Name WPX ENERGY PRODUCTION, LLC	*Elevation 6938'

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	32	31N	4W		664	SOUTH	1989	WEST	RIO ARBITA

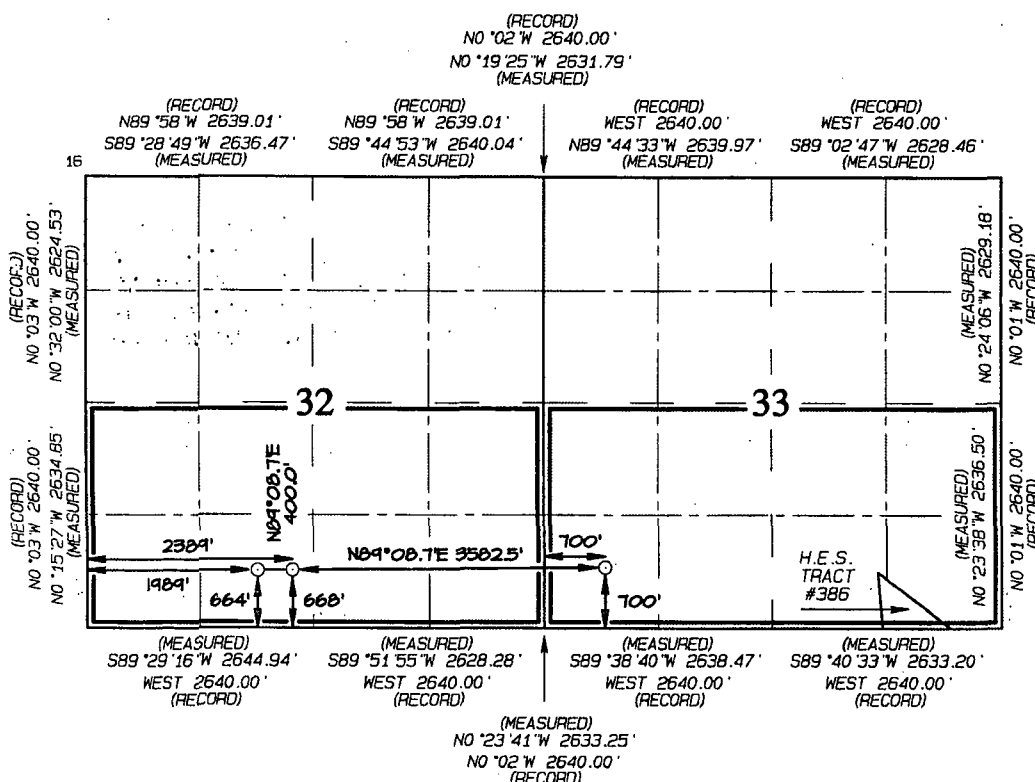
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	33	31N	4W		700	SOUTH	700	WEST	RIO ARRIBA

12	Dedicated Acres	320.0 - (S/2 Section 32)	13	Joint or Infill	14	Consolidation Code	15	Order No.	RCVD JUN 14 '13 OTL CONS. DIV.
	640.0	320.0 - (S/2 Section 33)							

RCVD JUN 14 '13
DTI COMS. DIV.

CO

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



SURFACE LOCATION
LAT: 36.85073°N
LONG: 107.27987°W
DATUM: NAD1927

LAT: 36.85074°N
LONG: 107.28047°W
DATUM: NAD1983

POINT-OF-ENTRY
LAT: 36.85074 'N
LONG: 107.27850 'W
DATUM: NAD1927

LAT: 36.85075 'N
LONG: 107.27910 'W
DATUM: NAD1983

END-OF-LATERAL
LAT: 36.85083 °N
LONG: 107.26626 °W
DATUM: NAD1927

LAT: 36.85084 °N
LONG: 107.26686 °W
DATUM: NAD1983

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 working interest, or a voluntary pooling agreement or compulsory pooling order heretofore entered by the division.

4/2/13

Signature _____ Date _____

Larry Higgins

Printed Name _____

larry.higgins@wpxenergy.com

E-mail Address _____

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: APRIL 1, 2013
Survey Date: SEPTEMBER 23, 2011

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



WPX ENERGY

Operations Plan

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

<u>DATE:</u>	3/21/2013	<u>API:</u>	30-039-31107
<u>WELL NAME:</u>	Schalk 32 #002B	<u>FIELD:</u>	Basin Fruitland Coal
<u>BH LOCATION:</u>	SWSW Sec. 33-T31N-R4W Rio Arriba County, NM	<u>SURFACE:</u>	USFS
<u>ELEVATION:</u>	6,938' GR	<u>MINERALS:</u>	BLM
<u>TOTAL DEPTH:</u>	7,596'	<u>LEASE #</u>	NM-23044

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

A. **FORMATION TOPS:** (6,952' KB)

NAME		MD	TVD		NAME		MD	TVD
San Jose		Surface	Surface		Top Target Coal		3,906	3,739
Nacimiento		1,967	1,967		Landing Point		3,906	3,739
Ojo Alamo		3,133	3,133		Base Coal			3,771
Kirtland		3,327	3,327		Picture Cliffs			3,772
KOP		3,447	3,447		TD		7,596	3,739
Fruitland		3,613	3,604					

B. **LOGGING PROGRAM:** None

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

D. **MUD LOGGING PROGRAM:** Mud logger will be on location from surface casing to TD.

II. **DRILLING**

A. **MUD PROGRAM:** LSND mud through vertical, curve and lateral. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing casing. 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**. 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:**

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	+ 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 3,387'	7"	23# K-55
Prod. Liner	6-1/8"	+/- 7,596'	4-1/2"	11.6# K-55

Note: Intermediate casing is set 60' into Kirtland. Production liner is 4-1/2" 11.6# Pre-perforated K-55.

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 one centralizer on each of the bottom (3) joints and one centralizer every (3) joints to 2,500', then one centralizer at 2,000', 1,500', and 1,000'.
3. PRODUCTION LINER / CASING: Run 4.5" perforated liner in lateral and blank 4.5" from top of Fruitland to surface. No centralization

C. CEMENTING:

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

1. SURFACE: Slurry: 150sx (269.4 cu.ft.) of "Type III" + 2% Cal-Seal 60 + ¼ # of poly-e-flake/sk + 0.3% Versaset + 2% Econolite + 6% Salt (Yield = 1.796 cu.ft./sk, Weight = 13.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
2. INTERMEDIATE: Lead - 340 sx (928.2 cu.ft.) of "EXTENDACEM" + 5 #/sk pheno-seal + 5% Cal-Seal 60 (Yield = 2.723 cu.ft./sk, Weight = 11.5 #/gal.). Tail - 100 sx (117.8cu.ft.) of Premium cement + 0.125 #/sk Poly-E-Flake, (Yield = 1.178 cu.ft./sk, Weight = 15.6#/gal.). Total volume = 1046 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface
3. PRODUCTION LINER: Uncemented 4.5" liner.

IV. COMPLETION**A. PRESSURE TEST**

1. Pressure test 7" casing to 3300# for 15 minutes.

B. STIMULATION

1. No stimulation

C. RUNNING TUBING

1. Fruitland Coal: Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing approximately 50' above PBTD of 7" casing.

Larry Higgins
Permitting Supervisor

WPX ENERGY

WPX Energy

PATHFINDER

A Schlumberger Company

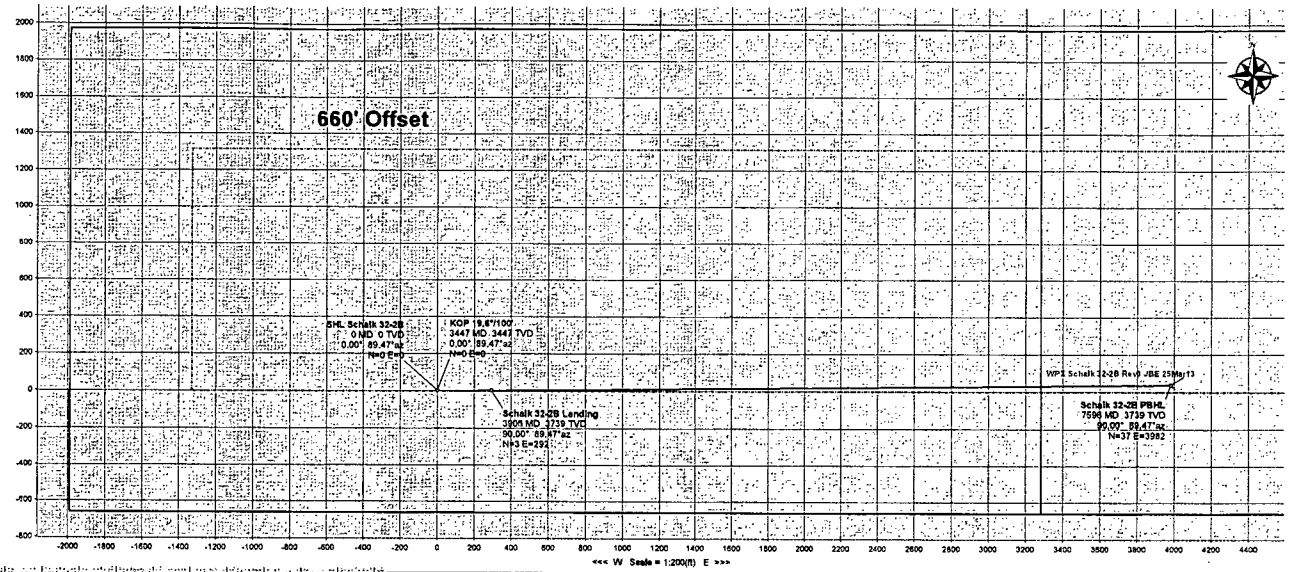
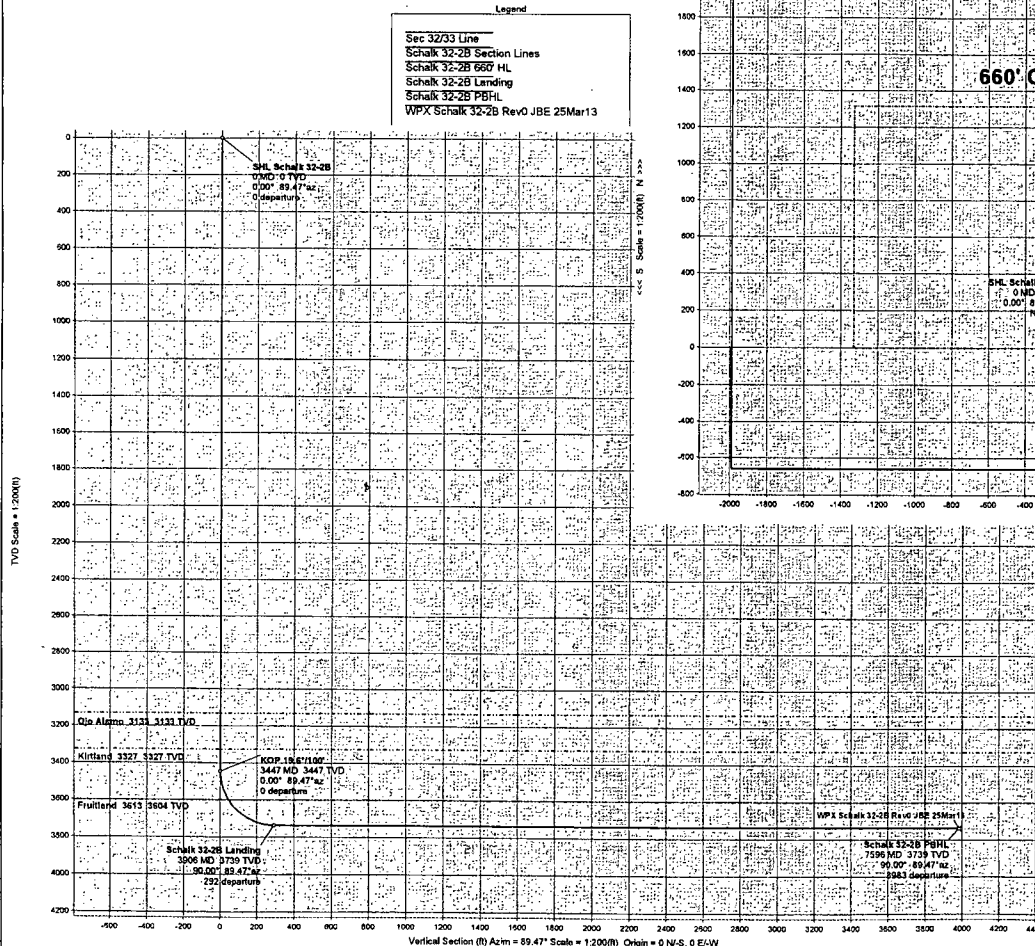
KB: 14'

Rev0

WELL			FIELD			STRUCTURE		
Schalk 32-2B			NM Rio Arriba County NAD27			AWS #980		
Stippled Parameters			Surface Location			NAD27 New Mexico State Plane Central Zone, U.S. Feet		
Model: B0004 3012	Dip: 67.83°	Date: March 22, 2013	Lat: 36° 16' 51.24"N	Magnetic: 2145045.18278	Grid Center: 44131	Altitude: 6500	Model: Schalk 32-2B	TVD Ref: KOP019128 above MSL
Mag Dec: 9.532°	PS: 58613.507	Long: W 107° 16' 47.532	Easting: 179672.86 BGS	Scale Factor: 1.00000194	PSM: Rev0 (BGS 25Mar13)	Spot Date: March 25, 2013		



True North
Tot Corr (M→T) 9.5322°
Mag Dec (9.532°)
Grid Conv (-0.618°)



Critical Points										
Comments	Survey MD (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	VS (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS ("/100ft)
SHL Schalk 32-2B	0.00	0.00	89.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ojo Alamo	3133.00	0.00	89.47	3133.00	0.00	0.00	0.00	0.00	0.00	0.00
Kirtland	3327.00	0.00	89.47	3327.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP 19.6°/100'	3447.00	0.00	89.47	3447.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland	3612.76	32.53	89.47	3604.00	45.80	0.42	45.80	45.80	89.47	19.62
Schalk 32-2B Landing	3905.67	90.00	89.47	3739.00	292.00	2.69	291.99	292.00	89.47	19.62
Schalk 32-2B PBHL	7596.25	90.00	89.47	3739.00	3982.58	36.69	3982.41	3982.58	89.47	0.00

Targets						
Name	TVD (ft)	NS (ft)	EW (ft)	Latitude (deg)	Longitude (deg)	Shape
Schalk 32-2B Landing	3739.00	2.69	291.99	N 36 51 2.655	W 107 16 43.940	POINT
Schalk 32-2B PBHL	3739.00	36.69	3982.41	N 36 51 2.988	W 107 15 58.536	POINT

Drawn By: Brock Enoch
Date Created: March 25, 2013 13:37:58 PM
Checked By:
Checked Date:
Approved By:
Approved Date:



WPX Schalk 32-2B Rev0 JBE 25Mar13 Proposal Geodetic Report

(Non-Def Plan)

Report Date: March 25, 2013 - 01:34 PM
Client: WPX Energy
Field: NM Rio Arriba County NAD27
Structure / Slot: WPX Schalk 32-2B / Schalk 32-2B
Well: Schalk 32-2B
Borehole: Original Borehole
UWI / API#: Unknown / 30-039-31107
Survey Name: WPX Schalk 32-2B Rev0 JBE 25Mar13
Survey Date: March 25, 2013
Tort / AHD / DDI / ERD Ratio: 90.000 ° / 3982.581 ft / 5.862 / 1.065
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 36° 51' 2.62800", W 107° 16' 47.53200"
Location Grid N/E Y/X: N 2130515.832 ftUS, E 198675.862 ftUS
CRS Grid Convergence Angle: -0.6177 °
Grid Scale Factor: 1.00000389

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 89.472 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 6952.000 ft above MSL
Seabed / Ground Elevation: 6938.000 ft above MSL
Magnetic Declination: 9.532 °
Total Gravity Field Strength: 999.2233 mgn (9.8 based)
Total Magnetic Field Strength: 50613.464 nT
Magnetic Dip Angle: 63.587 °
Declination Date: March 25, 2013
Magnetic Declination Model: BGM 2012
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North->True North: 9.5322 °
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 Schalk 32-2B	0.00	0.00	89.47	0.00	0.00	0.00	0.00	N/A	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
Ojo Alamo	3133.00	0.00	89.47	3133.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
Kirtland	3327.00	0.00	89.47	3327.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
KOP 19.6°/100'	3447.00	0.00	89.47	3447.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
Fruitland	3612.76	32.53	89.47	3604.00	45.80	0.42	45.80	19.62	2130515.76	198721.66	N 36 51 2.63	W 107 16 46.97
Schalk 32-2B	3905.67	90.00	89.47	3739.00	292.00	2.69	291.99	19.62	2130515.37	198967.86	N 36 51 2.65	W 107 16 43.94
Landing												
Schalk 32-2B PBHL	7596.25	90.00	89.47	3739.00	3982.58	36.69	3982.41	0.00	2130509.59	202658.45	N 36 51 2.99	W 107 15 58.54

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	8.750	7.000	SLB_MWD-STD-Depth Only	Original Borehole / WPX Schalk 32-2B Rev0 JBE 25Mar13
	14.000	3387.000	1/100.000	8.750	7.000	SLB_MWD-STD	Original Borehole / WPX Schalk 32-2B Rev0 JBE 25Mar13
	3387.000	7596.253	1/100.000	6.250	4.500	SLB_MWD-STD	Original Borehole / WPX Schalk 32-2B Rev0 JBE 25Mar13



WPX Schalk 32-2B Rev0 JBE 25Mar13 Proposal Geodetic Report (Non-Def Plan)

Report Date: March 25, 2013 - 01:35 PM
Client: WPX Energy
Field: NM Rio Arriba County NAD27
Structure / Slot: WPX Schalk 32-2B / Schalk 32-2B
Well: Schalk 32-2B
Borehole: Original Borehole
UWI / API#: Unknown / 30-039-31107
Survey Name: WPX Schalk 32-2B Rev0 JBE 25Mar13
Survey Date: March 25, 2013
Tort / AHD / DDI / ERD Ratio: 90.000° / 3982.581 ft / 5.862 / 1.065
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 36° 51' 2.62800", W 107° 16' 47.53200"
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Grid Scale Factor: 1.00000389

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 89.472° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 6952.000 ft above MSL
Seabed / Ground Elevation: 6938.000 ft above MSL
Magnetic Declination: 9.532°
Total Gravity Field Strength: 999.2233 mgn (9.8 based)
Total Magnetic Field Strength: 50613.464 nT
Magnetic Dip Angle: 63.587°
Declination Date: March 25, 2013
Magnetic Declination Model: BGGM 2012
North Reference: True North
Grid Convergence Used: 0.0000°
Total Corr Mag North->True North: 9.5322°
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 Schalk 32-2B	0.00	0.00	89.47	0.00	0.00	0.00	0.00	N/A	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	100.00	0.00	89.47	100.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	200.00	0.00	89.47	200.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	300.00	0.00	89.47	300.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	400.00	0.00	89.47	400.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	500.00	0.00	89.47	500.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	600.00	0.00	89.47	600.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	700.00	0.00	89.47	700.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	800.00	0.00	89.47	800.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	900.00	0.00	89.47	900.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	1000.00	0.00	89.47	1000.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	1100.00	0.00	89.47	1100.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	1200.00	0.00	89.47	1200.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	1300.00	0.00	89.47	1300.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	1400.00	0.00	89.47	1400.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	1500.00	0.00	89.47	1500.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	1600.00	0.00	89.47	1600.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	1700.00	0.00	89.47	1700.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	1800.00	0.00	89.47	1800.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	1900.00	0.00	89.47	1900.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	2000.00	0.00	89.47	2000.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	2100.00	0.00	89.47	2100.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	2200.00	0.00	89.47	2200.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	2300.00	0.00	89.47	2300.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	2400.00	0.00	89.47	2400.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	2500.00	0.00	89.47	2500.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	2600.00	0.00	89.47	2600.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	2700.00	0.00	89.47	2700.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	2800.00	0.00	89.47	2800.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	2900.00	0.00	89.47	2900.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	3000.00	0.00	89.47	3000.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	3100.00	0.00	89.47	3100.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53

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 ° ' ")
Ojo Alamo	3133.00	0.00	89.47	3133.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	3200.00	0.00	89.47	3200.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	3300.00	0.00	89.47	3300.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
Kirtland	3327.00	0.00	89.47	3327.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	3400.00	0.00	89.47	3400.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
KOP 19.6°/100'	3447.00	0.00	89.47	3447.00	0.00	0.00	0.00	0.00	2130515.83	198675.86	N 36 51 2.63	W 107 16 47.53
	3500.00	10.40	89.47	3499.71	4.80	0.04	4.80	19.62	2130515.82	198680.66	N 36 51 2.63	W 107 16 47.47
	3600.00	30.02	89.47	3593.09	39.18	0.36	39.17	19.62	2130515.77	198715.04	N 36 51 2.63	W 107 16 47.05
Fruitland	3612.76	32.53	89.47	3604.00	45.80	0.42	45.80	19.62	2130515.76	198721.66	N 36 51 2.63	W 107 16 46.97
	3700.00	49.64	89.47	3669.51	102.92	0.95	102.91	19.62	2130515.67	198778.78	N 36 51 2.64	W 107 16 46.27
	3800.00	69.27	89.47	3720.09	188.62	1.74	188.61	19.62	2130515.54	198864.48	N 36 51 2.65	W 107 16 45.21
	3900.00	88.89	89.47	3738.94	286.33	2.64	286.32	19.62	2130515.38	198962.19	N 36 51 2.65	W 107 16 44.01
Schalk 32-2B Landinq	3905.67	90.00	89.47	3739.00	292.00	2.69	291.99	19.62	2130515.37	198967.86	N 36 51 2.65	W 107 16 43.94
	4000.00	90.00	89.47	3739.00	386.33	3.56	386.31	0.00	2130515.23	199062.19	N 36 51 2.66	W 107 16 42.78
	4100.00	90.00	89.47	3739.00	486.33	4.48	486.31	0.00	2130515.07	199162.19	N 36 51 2.67	W 107 16 41.55
	4200.00	90.00	89.47	3739.00	586.33	5.40	586.30	0.00	2130514.91	199262.19	N 36 51 2.68	W 107 16 40.32
	4300.00	90.00	89.47	3739.00	686.33	6.32	686.30	0.00	2130514.76	199362.19	N 36 51 2.69	W 107 16 39.09
	4400.00	90.00	89.47	3739.00	786.33	7.24	786.29	0.00	2130514.60	199462.19	N 36 51 2.70	W 107 16 37.86
	4500.00	90.00	89.47	3739.00	886.33	8.17	886.29	0.00	2130514.44	199562.19	N 36 51 2.71	W 107 16 36.63
	4600.00	90.00	89.47	3739.00	986.33	9.09	986.29	0.00	2130514.29	199662.19	N 36 51 2.72	W 107 16 35.40
	4700.00	90.00	89.47	3739.00	1086.33	10.01	1086.28	0.00	2130514.13	199762.19	N 36 51 2.73	W 107 16 34.17
	4800.00	90.00	89.47	3739.00	1186.33	10.93	1186.28	0.00	2130513.97	199862.19	N 36 51 2.74	W 107 16 32.94
	4900.00	90.00	89.47	3739.00	1286.33	11.85	1286.27	0.00	2130513.82	199962.19	N 36 51 2.74	W 107 16 31.71
	5000.00	90.00	89.47	3739.00	1386.33	12.77	1386.27	0.00	2130513.66	200062.19	N 36 51 2.75	W 107 16 30.48
	5100.00	90.00	89.47	3739.00	1486.33	13.69	1486.26	0.00	2130513.50	200162.19	N 36 51 2.76	W 107 16 29.25
	5200.00	90.00	89.47	3739.00	1586.33	14.61	1586.26	0.00	2130513.35	200262.19	N 36 51 2.77	W 107 16 28.02
	5300.00	90.00	89.47	3739.00	1686.33	15.54	1686.26	0.00	2130513.19	200362.19	N 36 51 2.78	W 107 16 26.79
	5400.00	90.00	89.47	3739.00	1786.33	16.46	1786.25	0.00	2130513.03	200462.19	N 36 51 2.79	W 107 16 25.56
	5500.00	90.00	89.47	3739.00	1886.33	17.38	1886.25	0.00	2130512.88	200562.19	N 36 51 2.80	W 107 16 24.33
	5600.00	90.00	89.47	3739.00	1986.33	18.30	1986.24	0.00	2130512.72	200662.19	N 36 51 2.81	W 107 16 23.10
	5700.00	90.00	89.47	3739.00	2086.33	19.22	2086.24	0.00	2130512.56	200762.19	N 36 51 2.82	W 107 16 21.86
	5800.00	90.00	89.47	3739.00	2186.33	20.14	2186.23	0.00	2130512.41	200862.19	N 36 51 2.83	W 107 16 20.63
	5900.00	90.00	89.47	3739.00	2286.33	21.06	2286.23	0.00	2130512.25	200962.19	N 36 51 2.84	W 107 16 19.40
	6000.00	90.00	89.47	3739.00	2386.33	21.99	2386.23	0.00	2130512.09	201062.19	N 36 51 2.84	W 107 16 18.17
	6100.00	90.00	89.47	3739.00	2486.33	22.91	2486.22	0.00	2130511.94	201162.19	N 36 51 2.85	W 107 16 16.94
	6200.00	90.00	89.47	3739.00	2586.33	23.83	2586.22	0.00	2130511.78	201262.19	N 36 51 2.86	W 107 16 15.71
	6300.00	90.00	89.47	3739.00	2686.33	24.75	2686.21	0.00	2130511.62	201362.19	N 36 51 2.87	W 107 16 14.48
	6400.00	90.00	89.47	3739.00	2786.33	25.67	2786.21	0.00	2130511.46	201462.19	N 36 51 2.88	W 107 16 13.25
	6500.00	90.00	89.47	3739.00	2886.33	26.59	2886.20	0.00	2130511.31	201562.19	N 36 51 2.89	W 107 16 12.02
	6600.00	90.00	89.47	3739.00	2986.33	27.51	2986.20	0.00	2130511.15	201662.19	N 36 51 2.90	W 107 16 10.79
	6700.00	90.00	89.47	3739.00	3086.33	28.43	3086.20	0.00	2130510.99	201762.19	N 36 51 2.91	W 107 16 9.56
	6800.00	90.00	89.47	3739.00	3186.33	29.36	3186.19	0.00	2130510.84	201862.19	N 36 51 2.92	W 107 16 8.33
	6900.00	90.00	89.47	3739.00	3286.33	30.28	3286.19	0.00	2130510.68	201962.19	N 36 51 2.93	W 107 16 7.10
	7000.00	90.00	89.47	3739.00	3386.33	31.20	3386.18	0.00	2130510.52	202062.19	N 36 51 2.93	W 107 16 5.87
	7100.00	90.00	89.47	3739.00	3486.33	32.12	3486.18	0.00	2130510.37	202162.19	N 36 51 2.94	W 107 16 4.64
	7200.00	90.00	89.47	3739.00	3586.33	33.04	3586.18	0.00	2130510.21	202262.19	N 36 51 2.95	W 107 16 3.41
	7300.00	90.00	89.47	3739.00	3686.33	33.96	3686.17	0.00	2130510.05	202362.19	N 36 51 2.96	W 107 16 2.18
	7400.00	90.00	89.47	3739.00	3786.33	34.88	3786.17	0.00	2130509.90	202462.19	N 36 51 2.97	W 107 16 0.95
	7500.00	90.00	89.47	3739.00	3886.33	35.81	3886.16	0.00	2130509.74	202562.19	N 36 51 2.98	W 107 15 59.72
Schalk 32-2B PBHL	7596.25	90.00	89.47	3739.00	3982.58	36.69	3982.41	0.00	2130509.59	202658.45	N 36 51 2.99	W 107 15 58.54

Survey Type: Non-Def Plan

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

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 ° ' ")
Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey					
	0.000	14.000		1/100.000	8.750	7.000	SLB_MWD-STD-Depth Only	Original Borehole / WPX Schalk 32-2B Rev0 JBE 25Mar13				
	14.000	3387.000		1/100.000	8.750	7.000	SLB_MWD-STD	Original Borehole / WPX Schalk 32-2B Rev0 JBE 25Mar13				
	3387.000	7596.253		1/100.000	6.250	4.500	SLB_MWD-STD	Original Borehole / WPX Schalk 32-2B Rev0 JBE 25Mar13				