

RECEIVED

Form 3160-5
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 21 2013

FORM APPROVED
OMB No. 1004-0137
Expires: March 31, 2007

Farmington Field Office
Bureau of Land Management
Permit Serial No.
NMNM-123044

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: 2070' FSL & 660' FWL – BHL:2070' FSL & 700' FEL, Sec 32, 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 #2A

9. API Well No.

30-039-31108

10. Field and Pool or Exploratory Area

Basin Fruitland Coal

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 <u>BHL change</u>
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ 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 recomplate 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 recomplate 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.)

WPX Energy plans to ~~re-enter this existing wellbore~~ and convert this well from a vertical cavitation to a horizontal completion as per attached plat, operation plan and directional plan. All disturbance will be on permitted location.

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

HOLD CCM FOR N/S

RCVD MAR 27 '13
OIL CONS. DIV.
DIST. 3

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 3/21/13

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salvors

Title Petroleum Eng.

Date 3/26/2013

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)

NMOCDA

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



MAR 21 2013

WELL LOCATION AND ACREAGE DEDICATION PLAT Farmington Field Office

*API Number 30-039-31108	*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code	*Property Name SCHALK 32	*Well Number 2A
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY	*Elevation 6955'

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
L	32	31N	4W		2070	SOUTH	660	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

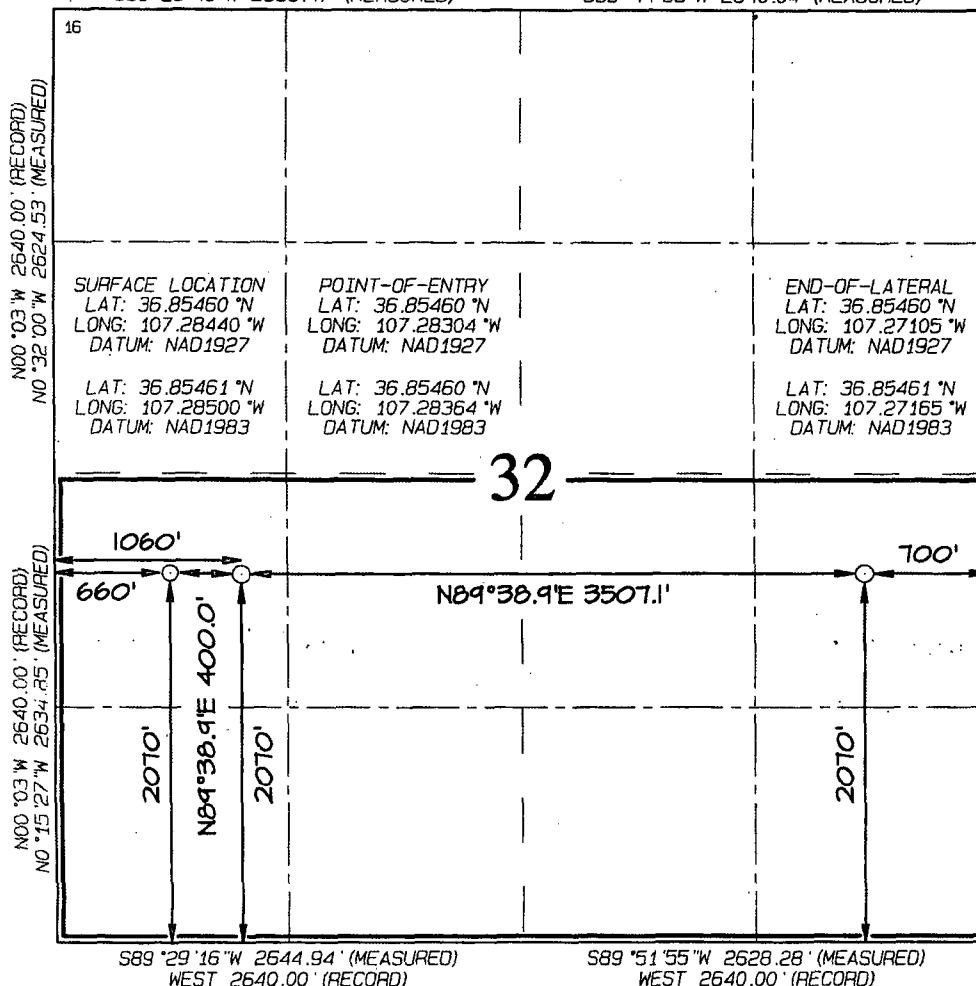
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	32	31N	4W		2070	SOUTH	700	EAST	RIO ARriba

12 Dedicated Acres 320.0 Acres - (S/2)	13 Joint or Infill	14 Consolidation Code	15 Order No. RCVD MAR 27 '13
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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 OIL CONS. DIV.

N89°58'W 2639.01' (RECORD)
S89°28'49"W 2636.47' (MEASURED)

N89°58'W 2639.01' (RECORD)
S89°44'53"W 2640.04' (MEASURED)



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: 3/21/13
Printed Name: Larry Higgins
E-mail Address: larry.higgins@wpenergy.com

18 SURVEYOR CERTIFICATION

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

Date Revised: MARCH 12, 2013
Date of Survey: AUGUST 9, 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)

DATE: 3/21/2013 **API:** 30-039-31108
WELL NAME: Schalk 32 #002A **FIELD:** Basin Fruitland Coal
BH LOCATION: NESE Sec. 32-T31N-R4W **SURFACE:** USFS
Rio Arriba County, NM
ELEVATION: 6,955' GR **MINERALS:** BLM
TOTAL DEPTH: 7,542' **LEASE #** NM-23044

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (6,969' KB)

NAME	MD	TVD	NAME	MD	TVD
San Jose	Surface	Surface	Top Target Coal	3,930	3,759
Nacimiento	1,986	1,986	Landing Point	3,930	3,759
Ojo Alamo	3,150	3,150	Base Coal		3,791
Kirtland	3,339	3,339	Picture Cliffs		3,792
KOP	3,459	3,459	TD	7,542	3,759
Fruitland	3,628	3,619			

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"	+/- 3,399'	7"	23# K-55
Prod. Liner	6-1/8"	+/- 7,542'	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 + 1/4 # 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. ~~For 30 minutes~~
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 (117.8 cu.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.

30

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

WPXENERGY

WPX Energy

PATHFINDER
A Schlumberger Company

KB: 14'

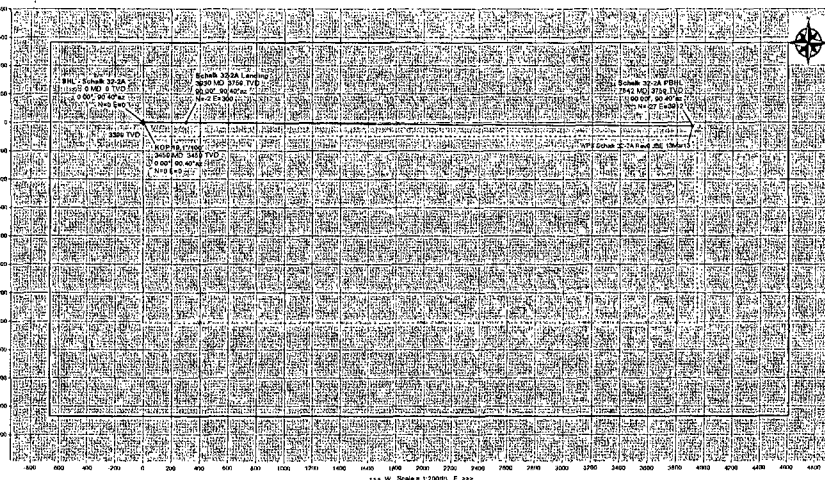
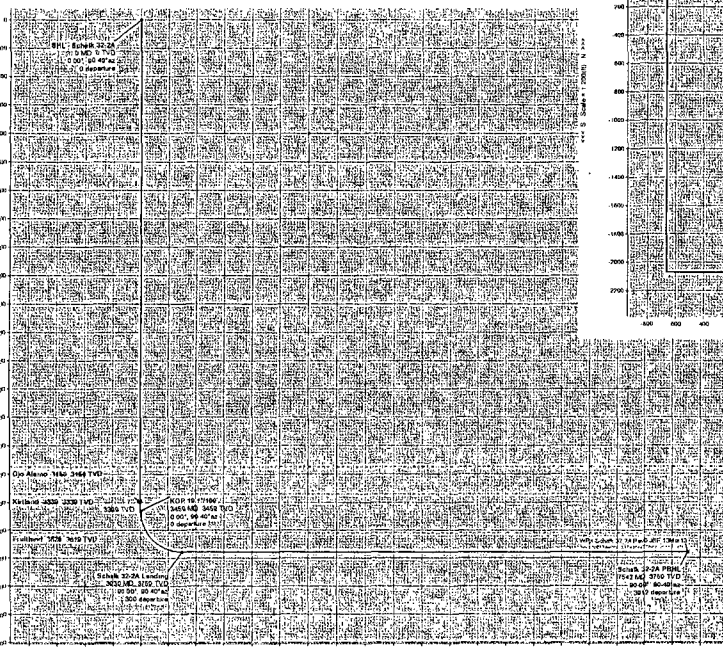
Rev0

Well	Schak 32-2A	Field	NM Rio Arriba County NAD27	Fracture	AWS #080
Measured from well	11' 40" 500' 11' 40"	Top	1400'	True	1400'
Mag Dec	14.2°	Mag Dec	14.2°	Grid Dec	14.2°

Sec 32 T31N R34W South Half 1/4
Schak 32-2A PBHL
Sec 32 T31N R34W South Half
WPX Schak 32-2A Rev0 JEE 13Mar13



True North
Grid North (0.5381°)
Mag Dec (0.5381°)
Grid Dec (0.0212°)



Name	TVD (ft)	NS (ft)	EW (ft)	Latitude (deg)	Longitude (deg)	Shape
Schak 32-2A PBHL	3759.00	-27.40	3912.00	N 36 51 16.286	W 107 16 15.708	POINT

Comments	Survey MD (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	VS (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (ft/100ft)
SHL - Schak 32-2A	0.00	0.00	90.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP 19.1' / 100'	3459.00	0.00	90.40	3459.00	0.00	0.00	0.00	0.00	0.00	0.00
Fruitland	3627.76	32.23	90.40	3619.00	46.23	-0.32	46.23	46.23	90.40	19.10
Schak 32-2A Landing	3930.24	90.00	90.40	3759.00	300.00	-2.10	299.98	300.00	90.40	19.10
Schak 32-2A PBHL	7542.33	90.00	90.40	3759.00	3912.09	-27.40	3912.00	3912.09	90.40	0.00

Vertical Section (ft Azim = 90.4° Scale = 1:2000) Origin = 9 N, 5 E, 1 W

Survey by: B. J. Smith
Top of well: 1400'
Surveyed: 12/12/12
Checked: 12/12/12
Approved: 12/12/12



WPX Schalk 32-2A Rev0 JBE 13Mar13 Proposal Geodetic Report

(Non-Def Plan)

Report Date: March 13, 2013 - 04:04 PM
Client: WPX Energy
Field: NM Rio Arriba County NAD27
Structure / Slot: WPX Schalk 32-2A / Schalk 32-2A
Well: Schalk 32-2A
Borehole: Original Borehole
UWI / API#: Unknown / Unknown
Survey Name: WPX Schalk 32-2A Rev0 JBE 13Mar13
Survey Date: March 13, 2013
Tort / AHD / DDI / ERD Ratio: 90.000 ° / 3912.093 ft / 5.849 / 1.041
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 36° 51' 16.56000", W 107° 17' 3.84000"
Location Grid N/E Y/X: N 2131939.073 ftUS, E 197365.670 ftUS
CRS Grid Convergence Angle: -0.6205 °
Grid Scale Factor: 1.00000479

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 90.401 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 6969.000 ft above MSL
Seabed / Ground Elevation: 6955.000 ft above MSL
Magnetic Declination: 9.538 °
Total Gravity Field Strength: 999.2220 mgn (9.8 based)
Total Magnetic Field Strength: 50619.272 nT
Magnetic Dip Angle: 63.590 °
Declination Date: March 13, 2013
Magnetic Declination Model: BGM 2012
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North->True North: 9.5384 °
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 32-2A	0.00	0.00	90.40	0.00	0.00	0.00	0.00	N/A	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	100.00	0.00	90.40	100.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	200.00	0.00	90.40	200.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	300.00	0.00	90.40	300.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	400.00	0.00	90.40	400.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	500.00	0.00	90.40	500.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	600.00	0.00	90.40	600.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	700.00	0.00	90.40	700.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	800.00	0.00	90.40	800.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	900.00	0.00	90.40	900.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	1000.00	0.00	90.40	1000.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	1100.00	0.00	90.40	1100.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	1200.00	0.00	90.40	1200.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	1300.00	0.00	90.40	1300.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	1400.00	0.00	90.40	1400.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	1500.00	0.00	90.40	1500.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	1600.00	0.00	90.40	1600.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	1700.00	0.00	90.40	1700.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	1800.00	0.00	90.40	1800.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	1900.00	0.00	90.40	1900.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	2000.00	0.00	90.40	2000.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	2100.00	0.00	90.40	2100.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	2200.00	0.00	90.40	2200.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	2300.00	0.00	90.40	2300.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	2400.00	0.00	90.40	2400.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	2500.00	0.00	90.40	2500.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	2600.00	0.00	90.40	2600.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	2700.00	0.00	90.40	2700.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	2800.00	0.00	90.40	2800.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84

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 ° ° °)
	2900.00	0.00	90.40	2900.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	3000.00	0.00	90.40	3000.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	3100.00	0.00	90.40	3100.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
Ojo Alamo	3150.00	0.00	90.40	3150.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	3200.00	0.00	90.40	3200.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	3300.00	0.00	90.40	3300.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
Kirtland 7"	3339.00	0.00	90.40	3339.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	3399.00	0.00	90.40	3399.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	3400.00	0.00	90.40	3400.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
KOP 19.1°/100'	3459.00	0.00	90.40	3459.00	0.00	0.00	0.00	0.00	2131939.07	197365.67	N 36 51 16.56	W 107 17 3.84
	3500.00	7.83	90.40	3499.87	2.80	-0.02	2.80	19.10	2131939.02	197368.47	N 36 51 16.56	W 107 17 3.81
	3600.00	26.93	90.40	3594.87	32.53	-0.23	32.53	19.10	2131938.49	197398.19	N 36 51 16.56	W 107 17 3.44
Fruitland	3627.76	32.23	90.40	3619.00	46.23	-0.32	46.23	19.10	2131938.25	197411.89	N 36 51 16.56	W 107 17 3.27
	3700.00	46.03	90.40	3674.90	91.71	-0.64	91.70	19.10	2131937.44	197457.36	N 36 51 16.55	W 107 17 2.71
	3800.00	65.13	90.40	3731.17	173.81	-1.22	173.81	19.10	2131935.97	197539.46	N 36 51 16.55	W 107 17 1.70
	3900.00	84.22	90.40	3757.48	269.81	-1.89	269.81	19.10	2131934.26	197635.44	N 36 51 16.54	W 107 17 0.52
Schalk 32-2A Landing	3930.24	90.00	90.40	3759.00	300.00	-2.10	299.99	19.10	2131933.72	197665.62	N 36 51 16.54	W 107 17 0.15
	4000.00	90.00	90.40	3759.00	369.76	-2.59	369.75	0.00	2131932.48	197735.37	N 36 51 16.53	W 107 16 59.29
	4100.00	90.00	90.40	3759.00	469.76	-3.29	469.75	0.00	2131930.70	197835.36	N 36 51 16.53	W 107 16 58.06
	4200.00	90.00	90.40	3759.00	569.76	-3.99	569.75	0.00	2131928.91	197935.34	N 36 51 16.52	W 107 16 56.83
	4300.00	90.00	90.40	3759.00	669.76	-4.69	669.74	0.00	2131927.13	198035.33	N 36 51 16.51	W 107 16 55.60
	4400.00	90.00	90.40	3759.00	769.76	-5.39	769.74	0.00	2131925.35	198135.31	N 36 51 16.51	W 107 16 54.37
	4500.00	90.00	90.40	3759.00	869.76	-6.09	869.74	0.00	2131923.56	198235.30	N 36 51 16.50	W 107 16 53.14
	4600.00	90.00	90.40	3759.00	969.76	-6.79	969.74	0.00	2131921.78	198335.28	N 36 51 16.49	W 107 16 51.91
	4700.00	90.00	90.40	3759.00	1069.76	-7.49	1069.73	0.00	2131920.00	198435.26	N 36 51 16.49	W 107 16 50.68
	4800.00	90.00	90.40	3759.00	1169.76	-8.19	1169.73	0.00	2131918.21	198535.25	N 36 51 16.48	W 107 16 49.45
	4900.00	90.00	90.40	3759.00	1269.76	-8.89	1269.73	0.00	2131916.43	198635.23	N 36 51 16.47	W 107 16 48.22
	5000.00	90.00	90.40	3759.00	1369.76	-9.59	1369.73	0.00	2131914.65	198735.22	N 36 51 16.46	W 107 16 46.99
	5100.00	90.00	90.40	3759.00	1469.76	-10.29	1469.73	0.00	2131912.87	198835.20	N 36 51 16.46	W 107 16 45.76
	5200.00	90.00	90.40	3759.00	1569.76	-10.99	1569.72	0.00	2131911.08	198935.19	N 36 51 16.45	W 107 16 44.53
	5300.00	90.00	90.40	3759.00	1669.76	-11.69	1669.72	0.00	2131909.30	199035.17	N 36 51 16.44	W 107 16 43.30
	5400.00	90.00	90.40	3759.00	1769.76	-12.39	1769.72	0.00	2131907.52	199135.15	N 36 51 16.44	W 107 16 42.07
	5500.00	90.00	90.40	3759.00	1869.76	-13.09	1869.72	0.00	2131905.73	199235.14	N 36 51 16.43	W 107 16 40.84
	5600.00	90.00	90.40	3759.00	1969.76	-13.79	1969.71	0.00	2131903.95	199335.12	N 36 51 16.42	W 107 16 39.61
	5700.00	90.00	90.40	3759.00	2069.76	-14.49	2069.71	0.00	2131902.17	199435.11	N 36 51 16.42	W 107 16 38.37
	5800.00	90.00	90.40	3759.00	2169.76	-15.19	2169.71	0.00	2131900.38	199535.09	N 36 51 16.41	W 107 16 37.14
	5900.00	90.00	90.40	3759.00	2269.76	-15.90	2269.71	0.00	2131898.60	199635.08	N 36 51 16.40	W 107 16 35.91
	6000.00	90.00	90.40	3759.00	2369.76	-16.60	2369.70	0.00	2131896.82	199735.06	N 36 51 16.39	W 107 16 34.68
	6100.00	90.00	90.40	3759.00	2469.76	-17.30	2469.70	0.00	2131895.03	199835.05	N 36 51 16.39	W 107 16 33.45
	6200.00	90.00	90.40	3759.00	2569.76	-18.00	2569.70	0.00	2131893.25	199935.03	N 36 51 16.38	W 107 16 32.22
	6300.00	90.00	90.40	3759.00	2669.76	-18.70	2669.70	0.00	2131891.47	200035.01	N 36 51 16.37	W 107 16 30.99
	6400.00	90.00	90.40	3759.00	2769.76	-19.40	2769.69	0.00	2131889.68	200135.00	N 36 51 16.37	W 107 16 29.76
	6500.00	90.00	90.40	3759.00	2869.76	-20.10	2869.69	0.00	2131887.90	200234.98	N 36 51 16.36	W 107 16 28.53
	6600.00	90.00	90.40	3759.00	2969.76	-20.80	2969.69	0.00	2131886.12	200334.97	N 36 51 16.35	W 107 16 27.30
	6700.00	90.00	90.40	3759.00	3069.76	-21.50	3069.69	0.00	2131884.34	200434.95	N 36 51 16.35	W 107 16 26.07
	6800.00	90.00	90.40	3759.00	3169.76	-22.20	3169.68	0.00	2131882.55	200534.94	N 36 51 16.34	W 107 16 24.84
	6900.00	90.00	90.40	3759.00	3269.76	-22.90	3269.68	0.00	2131880.77	200634.92	N 36 51 16.33	W 107 16 23.61
	7000.00	90.00	90.40	3759.00	3369.76	-23.60	3369.68	0.00	2131878.99	200734.90	N 36 51 16.32	W 107 16 22.38
	7100.00	90.00	90.40	3759.00	3469.76	-24.30	3469.68	0.00	2131877.20	200834.89	N 36 51 16.32	W 107 16 21.15
	7200.00	90.00	90.40	3759.00	3569.76	-25.00	3569.67	0.00	2131875.42	200934.87	N 36 51 16.31	W 107 16 19.92
	7300.00	90.00	90.40	3759.00	3669.76	-25.70	3669.67	0.00	2131873.64	201034.86	N 36 51 16.30	W 107 16 18.69
	7400.00	90.00	90.40	3759.00	3769.76	-26.40	3769.67	0.00	2131871.85	201134.84	N 36 51 16.30	W 107 16 17.46
	7500.00	90.00	90.40	3759.00	3869.76	-27.10	3869.67	0.00	2131870.07	201234.83	N 36 51 16.29	W 107 16 16.23
Schalk 32-2A PBHL	7542.33	90.00	90.40	3759.00	3912.09	-27.40	3912.00	0.00	2131869.32	201277.15	N 36 51 16.29	W 107 16 15.71

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 ° ' ")
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_MWD-STD-Depth Only	Original Borehole / WPX Schalk 32-2A Rev0 JBE 13Mar13
	14.000	7542.332	1/100.000	30.000	30.000	SLB_MWD-STD	Original Borehole / WPX Schalk 32-2A Rev0 JBE 13Mar13