

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

Ken McQueen
Cabinet Secretary

Matthias Sayer
Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



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

Operator Signature Date: Original APD 5/18/2012 **Sundry Date 3/29/2017**

NOT Change of Plans & Name Change

API WELL #	Well Name	Well #	Operator Name	Type	Stat	County	Surf_Owner	UL	Sec	Twp	N/S	Rng	W/E
30-045-35377-00-00	ROSA UNIT 5	014H	WPX ENERGY PRODUCTION, LLC	G	N	San Juan	F	C	9	31	N	6	W

Conditions of Approval:

(See the below checked and handwritten conditions)

- ☒ Notify Aztec OCD 24hrs prior to casing & cement.
- ☒ Hold C-104 for directional survey & "As Drilled" Plat
- ☒ Hold C-104 for NSL, NSP, DHC,
- ☐ Spacing rule violation. Operator must follow up with change of status notification on other well to be shut in or abandoned
- ☒ Regarding the use of a pit, closed loop system or below grade tank, the operator must comply with the following as applicable:
 - ☒ A pit requires a complete C-144 be submitted and approved prior to the construction or use of the pit, pursuant to 19.15.17.8.A
 - ☒ A closed loop system requires notification prior to use, pursuant to 19.15.17.9.A
 - ☒ A below grade tank requires a registration be filed prior to the construction or use of the below grade tank, pursuant to 19.15.17.8.C
- ☒ Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
- ☒ Submit Gas Capture Plan form prior to spudding or initiating recompletions operations.
- ☒ Regarding Hydraulic Fracturing, review EPA Underground Injection Control Guidance 84

April 25, 2017

Page 2

- ✓ Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system.
- ✓ Well-bore communication is regulated under 19.15.29 NMAC. This requires well-bore Communication to be reported in accordance with 19.15.29.8.
- ✓ Comply with current regulations at time of spud
Prior to production operator needs to be in compliance with RULE 19.15.5.9



NMOCD Approved by Signature

4/11/17

Date

RECEIVED

MAR 29 2017

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

SHL: 1031' FNL & 1862' FWL, Sec 9, T31N, R6W

BHL: 2458' FSL & 1745' FEL, Sec 10 T31N, R6W

5. Lease Serial No.

NMSF-078765 / FEE

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

Rosa Unit 05 014H

9. API Well No.

30-045-35377

10. Field and Pool or Exploratory Area

Basin Mancos

11. Country or Parish, State

San Juan, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Name Change & Change in Plans</u>
	<input checked="" type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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.)

WPX Energy request a name change from **Rosa Unit 05 014H** to **Rosa Unit 552H** and a change in plans to the bottom-hole location and interval target depth per attached OPS, Directional Drill plans & C102 Plat.

OIL CONS. DIV DIST. 3

APR 06 2017

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

Name (Printed/Typed)

Marie E. Jaramillo

Title Permit Tech III

Signature

Date 3/29/17

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

PE

Date

4/3/17

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)

NIMCOBAY

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

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35377	² Pool Code 97232	³ Pool Name BASIN MANCOS
⁴ Property Code 17033	⁵ Property Name ROSA UNIT	⁶ Well Number 552H
⁷ OGRID No. 120782	⁸ Operator Name WPX ENERGY PRODUCTION, LLC	⁹ Elevation 6429'

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
C	9	31N	6W		1031	NORTH	1862	WEST	SAN JUAN

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
D	8	31N	6W		1165	NORTH	250	WEST	SAN JUAN

¹² Dedicated Acres 640.00	N/2 - Section 8 N/2 - Section 9	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13457
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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
1165' FNL 250' FWL
SECTION 8, T31N, R6W
LAT: 36.918061°N
LONG: 107.493820°W
DATUM: NAD1927

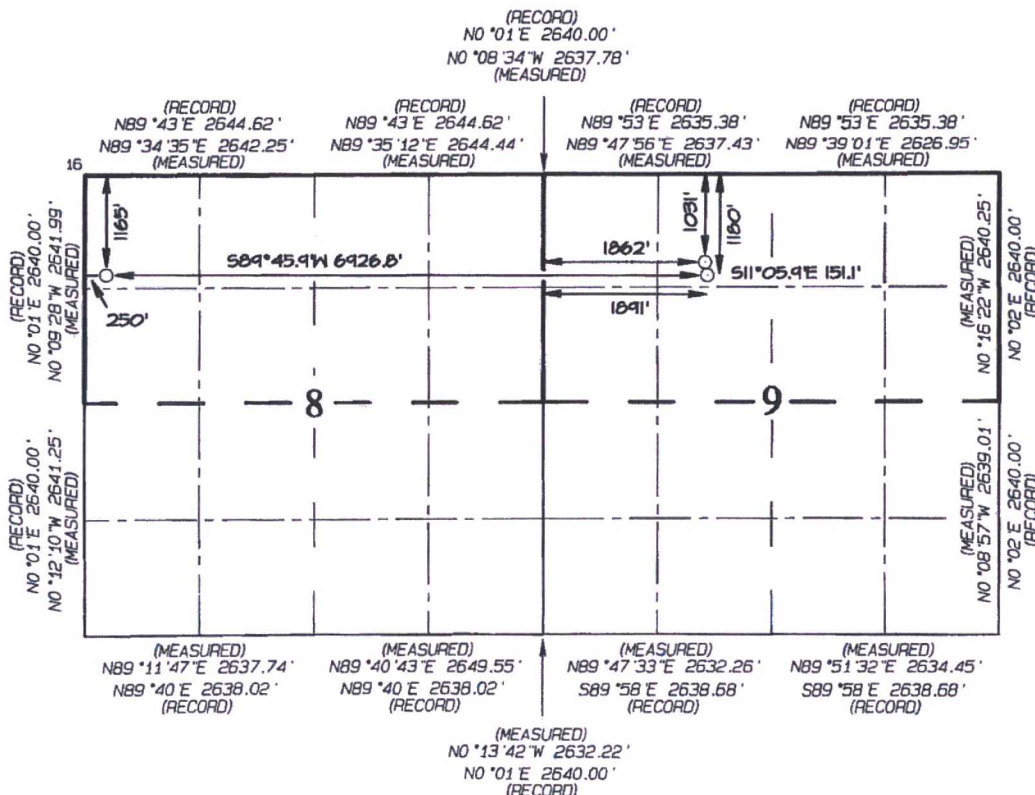
LAT: 36.918066°N
LONG: 107.494425°W
DATUM: NAD1983

POINT OF ENTRY
1180' FNL 1891' FWL
SECTION 9, T31N, R6W
LAT: 36.918069°N
LONG: 107.470125°W
DATUM: NAD1927

LAT: 36.918074°N
LONG: 107.470730°W
DATUM: NAD1983

SURFACE LOCATION
1031' FNL 1862' FWL
SECTION 9, T31N, R6W
LAT: 36.918476°N
LONG: 107.470222°W
DATUM: NAD1927

LAT: 36.918482°N
LONG: 107.470827°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: Marie E. Jaramillo
Date: 3/21/2017
Printed Name: marie.jaramillo@wpxenergy.com
E-mail Address:

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: JANUARY 24, 2017
Survey Date: JANUARY 13, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS
Certificate Number 15269



WPX Energy

Operations Plan

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

Date: March 29, 2017
Well Name: Rosa UT #552H
SH Location: NENW Sec 09 31N-06W
BH Location: NWNW Sec 08 31N-06W

Field: Basin Mancos
Surface: BLM
Elevation: 6429' GR
Minerals: FED

Measured Depth: 14,398.57'

I. **GEOLOGY:** SURFACE FORMATION - San Jose

A. FORMATION TOPS (GL)

NAME	MD	TVD	NAME	MD	TVD
OJO ALAMO	2,364.00	2,341.00	MENEFEE	5,491.00	5,430.00
KIRTLAND	2,474.00	2,449.00	POINT LOOKOUT	5,719.00	5,658.00
FRUITLAND	3,151.00	3,114.00	MANCOS	6,222.00	6,161.00
PICTURED CLIFFS	3,242.00	3,203.00	KICKOFF POINT	6,473.13	6,412.38
LEWIS	3,680.00	3,633.00	TOP TARGET	7,165.00	6,976.00
CHACRA	3,877.00	4,364.00	LANDING POINT	7,471.76	7,049.00
CLIFF HOUSE	5,447.00	5,386.00	BASE TARGET	4,819.01	7,049.00
			TD	14,398.57	7,064.00

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

C. **LOGGING PROGRAM:** LWD GR from surface casing to TD.

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

II. DRILLING

A. **MUD PROGRAM:** LSND mud (WBM) will be used to drill the 12-1/4" Surface hole, the 8 3/4" Directional Vertical hole. A LSND (WBM) or (OBM) will be used to drill the curve and lateral portion of well. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses.

B. **BOP TESTING:** While drill pipe is in use, the pipe rams and the blind rams will be function tested once each trip. The BOPE will be tested to **5000 psi (High) for 10 minutes**. Annular preventor will be tested to 50% of rated working pressure. Pressure test surface casing to **1500 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. **All tests and inspections will be recorded in the tour book as to time and results.**

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	OH SIZE (IN)	DEPTH (MD)	CSG SIZE	WEIGHT	GRADE	CONN
SURFACE	12.25"	320.00'	9.625"	36 LBS	J-55, equiv or <	STC
INTERMEDIATE	8.75"	6373'	7"	23 LBS	J-55, equiv or <	LTC
PRODUCTION	6.125"	6223.13' - 14,398.57'	4.5"	11.6 LBS	P-110, equiv or <	LTC
TIE BACK	6.125"	Surf. - 6223.13'	4.5"	11.6 LBS	P-110, equiv or <	LTC

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
2. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) centralizer at 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. **A DV tool will be placed 100' above the top of the Chacra formation.**
3. PRODUCTION LINER: Run 4-1/2" Liner with cement nose guide Float Shoe + 2jts. of 4-1/2" casing + Landing Collar + 4-1/2" pup joint + 1 RSI (Sliding Sleeve). Centralizer program will be determined by Wellbore condition and when Lateral is evaluated by Geoscientists and Reservoir Engineers. Set seals on Liner Hanger. Test TOL to 1500 psi for 15 minutes.

C. CEMENTING:

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

1. Surface 5 bbl Fresh Water Spacer, 100 sx (160 cu.ft.) of 14.5 ppg Type I-II (Neat G) + 20% Fly Ash cement w/ 7.41 gal/sack mix water ratio @ 1.61 cu ft/sx yield. Calculated @ volume + 50% excess. WOC min. 12 hours. Total Volume: (160 cu-ft/100 sx/ Bbls).TOC at Surface.

2. Intermediate STAGE 1: Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 80 bbls, 227 sks, (448 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 17 bbls, 75 sks, (98 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 251 bbl Drilling mud or water.
Total Cement: 97 bbls, 303 sks, (546 cuft)
STAGE 2: Spacer #1: 20 bbl (112 cuft) Chemwash. Lead Cement: 107 bbls, 309 sks, (602 cuft), 12.3 ppg @ 1.97 cuft/sk yield. Tail Cement: 17 bbls, 85 sks, (98 cuft), 13.5 ppg @ 1.3 cuft/sk yield. Displacement: Displace w/ +/- 141 bbl Drilling mud or water.
Total Cement: 125 bbls, 394 sks, (700 cuft)

3. PROD. LINER: Spacer #1:10 bbl (56.cu-ft) Water Spacer. Spacer #2: 40 bbl 9.5 ppg (224.6 cu-ft) Tuned Spacer III. Spacer #3: 10 bbl Water Spacer. Lead Cement: Extencem™ System. Yield 1.36 cuft/sk 13.3 ppg (693 sx /943 cuft /168 bbls). Tail Spacer: 20 BBL of MMCR. Displacement: Displace w/ +/- 187bbl Fr Water. Total Cement (693 sx /943bbls).

I.
COMPLETION

A. CBL

Run CCL for perforating

A. PRESSURE TEST

1. Pressure test 4-1/2" casing to 4500 psi max, hold at 1500 psi for 30 minutes. Increase pressure to Open RSI sleeves.

B. STIMULATION

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

C. RUNNING TUBING

1. Production Tubing: Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing near Top of Liner.

- Although this horizontal well will be drilled past the applicable setbacks, an unorthodox location application is not required because the completed interval in this well, as defined by 19.15.16.7 B(1) NMAC, will be entirely within the applicable setbacks. This approach complies with all applicable rules, including 19.15.16.14 A(3) NMAC, 19.15.16.14 B(2) NMAC, 19.15.16.15 B(2) NMAC, and 19.15.16.15 B(4) NMAC.

NOTE:

Proposed Operations:

A 4-1/2" 11.6# P-110 Liner will be run to TD and landed +/- 150 ft. into the 7" 23# J-55 Intermediate casing with a Liner Hanger and pack-off assembly then cemented to top of liner hanger.

After cementing and TOL clean up operations are complete, the TOL will be tested to 1500 psi (per BLM).

WPX Energy

T31N R6W Rosa Unit

Pad 5

ROSA UT #552H - Slot B8

Wellbore #1

Plan: Design #4 2Feb17 sam

Standard Planning Report

06 February, 2017

WPX
Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well ROSA UT #552H (B8) - Slot B8
Company:	WPX Energy	TVD Reference:	GL @ 6429.00usft
Project:	T31N R6W Rosa Unit	MD Reference:	GL @ 6429.00usft
Site:	Pad 5	North Reference:	True
Well:	ROSA UT #552H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4 2Feb17 sam		

Project	T31N R6W Rosa Unit		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		

Site	Pad 5				
Site Position:		Northing:	2,153,886.62 usft	Latitude:	36.918735
From:	Map	Easting:	606,203.61 usft	Longitude:	-107.470029
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.22 °

Well	ROSA UT #552H - Slot B8					
Well Position	+N/-S	-94.05 usft	Northing:	2,153,792.35 usft	Latitude:	36.918476
	+E/-W	-56.75 usft	Easting:	606,147.22 usft	Longitude:	-107.470223
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	6,429.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/13/2016	9.21	63.55	50,228

Design	Design #4 2Feb17 sam			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (bearing)
	0.00	0.00	0.00	268.75

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	2.00	102.53	599.98	-0.38	1.70	2.00	2.00	0.00	102.53	
800.00	2.00	102.53	799.86	-1.89	8.52	0.00	0.00	0.00	0.00	
1,242.08	10.84	102.58	1,238.73	-12.65	56.72	2.00	2.00	0.01	0.06	
4,276.93	10.84	102.58	4,219.41	-137.00	613.85	0.00	0.00	0.00	0.00	
4,819.01	0.00	0.00	4,758.26	-148.14	663.76	2.00	-2.00	0.00	180.00	VP #552H
6,473.13	0.00	0.00	6,412.38	-148.14	663.76	0.00	0.00	0.00	0.00	KOP #552H
7,471.76	89.88	269.98	7,049.00	-148.33	28.52	9.00	9.00	-9.01	269.98	POE 2 #552H
14,398.57	89.88	269.98	7,064.00	-150.38	-6,898.28	0.00	0.00	0.00	0.00	BHL 2 #552H

WPX

Planning Report

Database: COMPASS
 Company: WPX Energy
 Project: T31N R6W Rosa Unit
 Site: Pad 5
 Well: ROSA UT #552H
 Wellbore: Wellbore #1
 Design: Design #4 2Feb17 sam

Local Co-ordinate Reference: Well ROSA UT #552H (B8) - Slot B8
 TVD Reference: GL @ 6429.00usft
 MD Reference: GL @ 6429.00usft
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
320.00	0.00	0.00	320.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
600.00	2.00	102.53	599.98	-0.38	1.70	-1.69	2.00	2.00	0.00
Hold 2.00 Inclination									
800.00	2.00	102.53	799.86	-1.89	8.52	-8.47	0.00	0.00	0.00
Start Build DLS 2.00 TFO 0.06									
1,000.00	6.00	102.57	999.33	-4.93	22.13	-22.02	2.00	2.00	0.02
1,242.08	10.84	102.58	1,238.73	-12.65	56.72	-56.43	2.00	2.00	0.00
Hold 10.84 Inclination									
1,500.00	10.84	102.58	1,492.05	-23.21	104.07	-103.54	0.00	0.00	0.00
2,000.00	10.84	102.58	1,983.12	-43.70	195.86	-194.86	0.00	0.00	0.00
2,500.00	10.84	102.58	2,474.20	-64.19	287.65	-286.18	0.00	0.00	0.00
3,000.00	10.84	102.58	2,965.27	-84.68	379.44	-377.50	0.00	0.00	0.00
3,500.00	10.84	102.58	3,456.35	-105.17	471.23	-468.82	0.00	0.00	0.00
4,000.00	10.84	102.58	3,947.42	-125.65	563.02	-560.14	0.00	0.00	0.00
4,276.93	10.84	102.58	4,219.41	-137.00	613.85	-610.72	0.00	0.00	0.00
Start Drop -2.00									
4,500.00	6.38	102.58	4,439.91	-144.27	646.44	-643.14	2.00	-2.00	0.00
4,819.01	0.00	0.00	4,758.26	-148.14	663.76	-660.37	2.00	-2.00	-32.16
Vertical									
5,000.00	0.00	0.00	4,939.25	-148.14	663.76	-660.37	0.00	0.00	0.00
5,500.00	0.00	0.00	5,439.25	-148.14	663.76	-660.37	0.00	0.00	0.00
6,000.00	0.00	0.00	5,939.25	-148.14	663.76	-660.37	0.00	0.00	0.00
6,373.00	0.00	0.00	6,312.25	-148.14	663.76	-660.37	0.00	0.00	0.00
7"									
6,473.13	0.00	0.00	6,412.38	-148.14	663.76	-660.37	0.00	0.00	0.00
KOP DLS 9.00 TFO 269.98									
6,500.00	2.42	269.98	6,439.24	-148.14	663.19	-659.81	9.00	9.00	0.00
7,000.00	47.42	269.98	6,881.13	-148.20	457.90	-454.56	9.00	9.00	0.00
7,471.76	89.88	269.98	7,049.00	-148.33	28.52	-25.28	9.00	9.00	0.00
POE 89.88 Inclination									
7,500.00	89.88	269.98	7,049.06	-148.34	0.27	2.96	0.00	0.00	0.00
8,000.00	89.88	269.98	7,050.14	-148.49	-499.73	502.84	0.00	0.00	0.00
8,500.00	89.88	269.98	7,051.22	-148.64	-999.73	1,002.73	0.00	0.00	0.00
9,000.00	89.88	269.98	7,052.31	-148.79	-1,499.73	1,502.61	0.00	0.00	0.00
9,500.00	89.88	269.98	7,053.39	-148.94	-1,999.72	2,002.49	0.00	0.00	0.00
10,000.00	89.88	269.98	7,054.47	-149.08	-2,499.72	2,502.38	0.00	0.00	0.00
10,500.00	89.88	269.98	7,055.55	-149.23	-2,999.72	3,002.26	0.00	0.00	0.00
11,000.00	89.88	269.98	7,056.63	-149.38	-3,499.72	3,502.14	0.00	0.00	0.00
11,500.00	89.88	269.98	7,057.71	-149.53	-3,999.72	4,002.03	0.00	0.00	0.00
12,000.00	89.88	269.98	7,058.79	-149.68	-4,499.72	4,501.91	0.00	0.00	0.00
12,500.00	89.88	269.98	7,059.88	-149.83	-4,999.72	5,001.79	0.00	0.00	0.00
13,000.00	89.88	269.98	7,060.96	-149.98	-5,499.72	5,501.68	0.00	0.00	0.00
13,500.00	89.88	269.98	7,062.04	-150.13	-5,999.71	6,001.56	0.00	0.00	0.00
14,000.00	89.88	269.98	7,063.12	-150.28	-6,499.71	6,501.44	0.00	0.00	0.00
14,398.57	89.88	269.98	7,063.98	-150.40	-6,898.28	6,899.92	0.00	0.00	0.00
TD at 14398.57									

WPX
Planning Report

Database:	COMPASS	Local Co-ordinate Reference:	Well ROSA UT #552H (B8) - Slot B8
Company:	WPX Energy	TVD Reference:	GL @ 6429.00usft
Project:	T31N R6W Rosa Unit	MD Reference:	GL @ 6429.00usft
Site:	Pad 5	North Reference:	True
Well:	ROSA UT #552H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #4 2Feb17 sam		

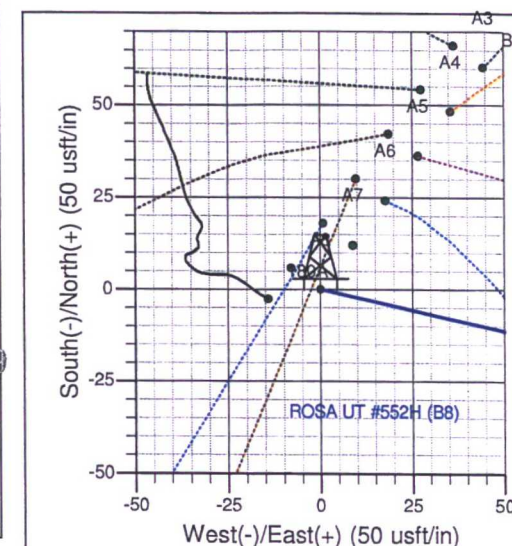
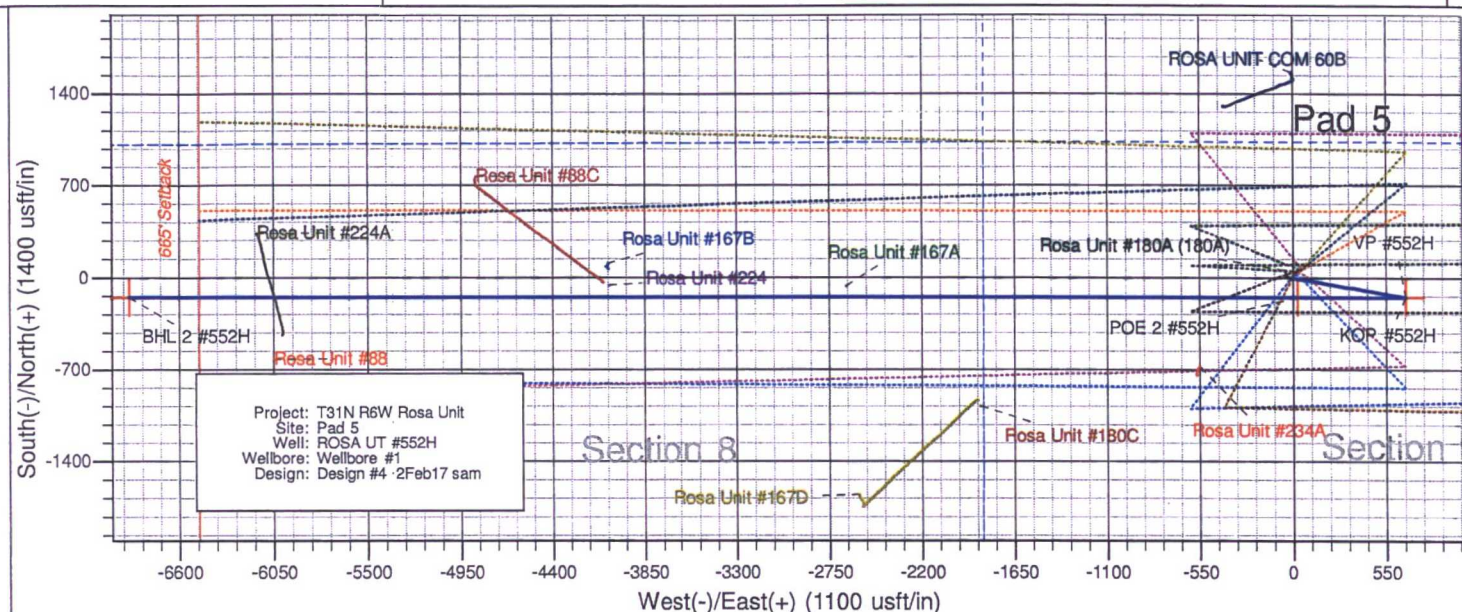
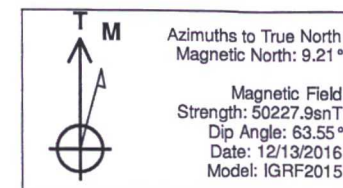
Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(bearing)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
VP #552H	0.00	0.00	4,758.26	-148.14	663.76	2,153,646.74	606,811.54	36.918069	-107.467952
- plan hits target center									
- Point									
KOP #552H	0.00	0.00	6,412.38	-148.14	663.76	2,153,646.74	606,811.54	36.918069	-107.467952
- plan hits target center									
- Point									
POE 2 #552H	0.00	0.00	7,049.00	-148.33	28.52	2,153,644.13	606,176.30	36.918069	-107.470125
- plan hits target center									
- Point									
BHL 2 #552H	0.00	0.00	7,064.00	-150.38	-6,898.28	2,153,615.71	599,249.56	36.918061	-107.493820
- plan misses target center by 0.03usft at 14398.57usft MD (7063.98 TVD, -150.40 N, -6898.28 E)									
- Point									

Casing Points				
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (in)	Hole Diameter (in)
320.00	320.00	9 5/8"	9.620	12.250
6,373.00	6,312.25	7"	7.000	8.500

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.00	500.00	0.00	0.00	Start Build 2.00
600.00	599.98	-0.38	1.70	Hold 2.00 Inclination
800.00	799.86	-1.89	8.52	Start Build DLS 2.00 TFO 0.06
1,242.08	1,238.73	-12.65	56.72	Hold 10.84 Inclination
4,276.93	4,219.41	-137.00	613.85	Start Drop -2.00
4,819.01	4,758.26	-148.14	663.76	Vertical
6,473.13	6,412.38	-148.14	663.76	KOP DLS 9.00 TFO 269.98
7,471.76	7,049.00	-148.33	28.52	POE 89.88 Inclination
14,398.57	7,063.98	-150.40	-6,898.28	TD at 14398.57

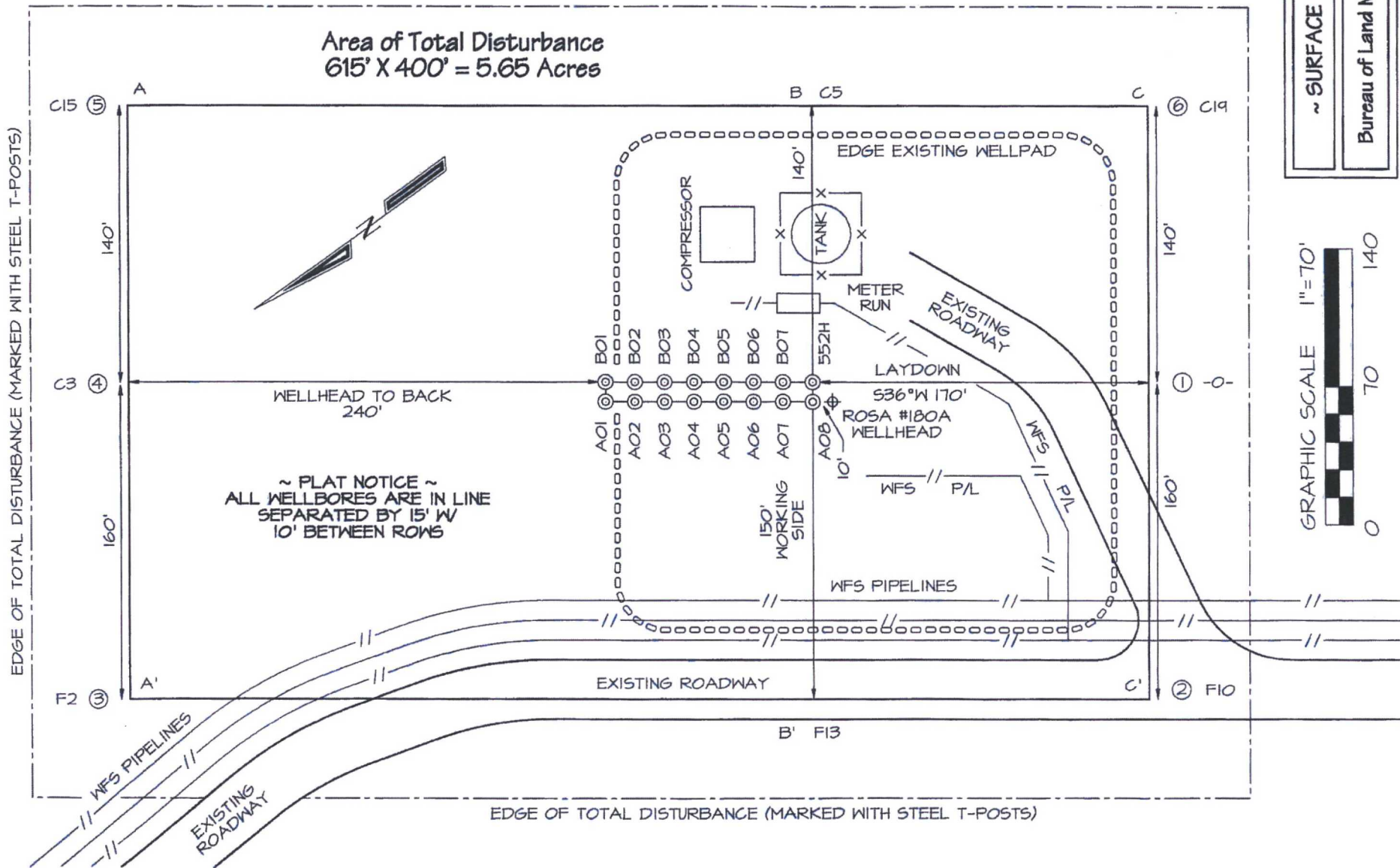


Well Name: ROSA UT #552H
Surface Location: Pad 5
NAD 1927 (NADCON CONUS) , US State Plane 1927 (Exact solution) New Mexico West 3003
Ground Elevation: 6429.00
+N/-S +E/-W Northing Easting Latitude Longitude Slot
0.00 0.00 2153792.35 606147.22 36.918476 -107.470222 B8
GL @ 6429.00usft



WPX ENERGY PRODUCTION, LLC ROSA UNIT #552H
1031' FNL & 1862' FWL, SECTION 9, T31N, R6W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6429'
LAT: 36.918482°N LONG: 107.470827W DATUM: NAD1983

Steel T-Posts have been set to define the Edge of Disturbance limits which are 50' offset from the edge of the staked wellpad.

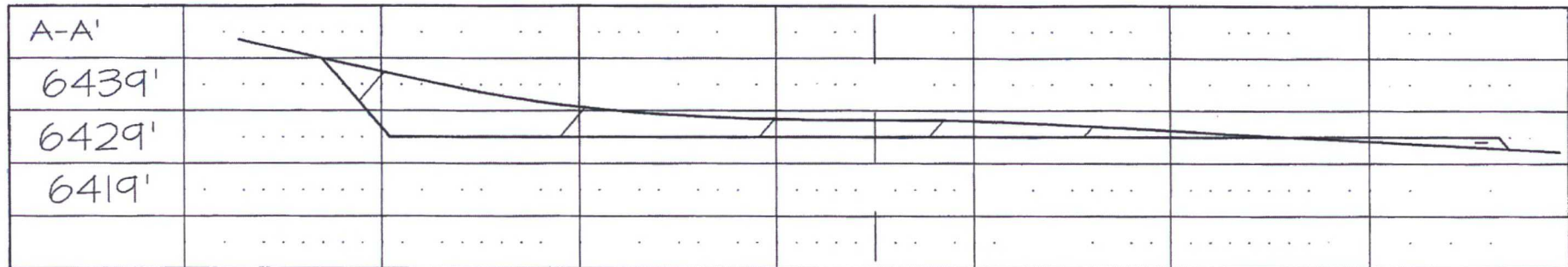


WPX ENERGY PRODUCTION, LLC ROSA UNIT #552H
1031' FNL & 1862' FWL, SECTION 9, T31N, R6W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6429'

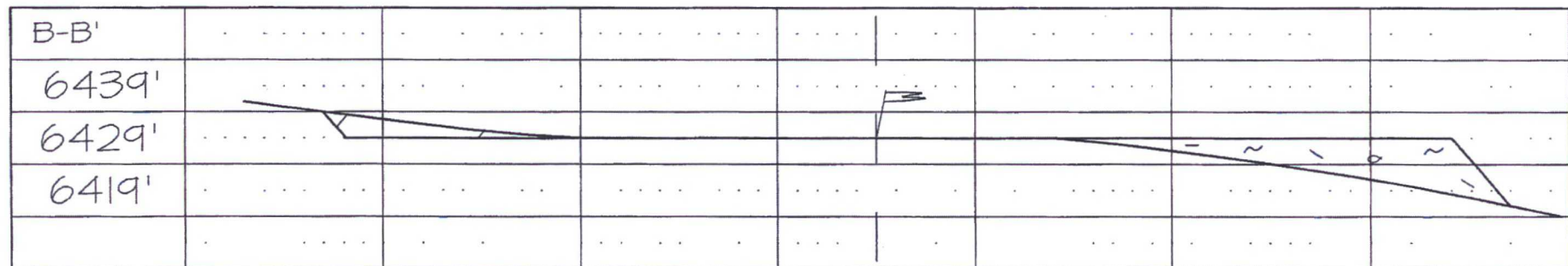
HORIZONTAL SCALE
 1"=40'

C/L

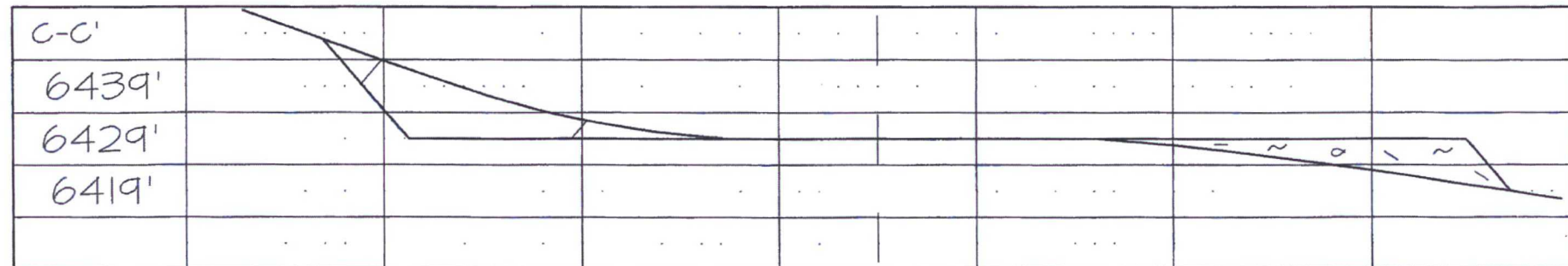
VERTICAL SCALE
 1"=30'



C/L



C/L

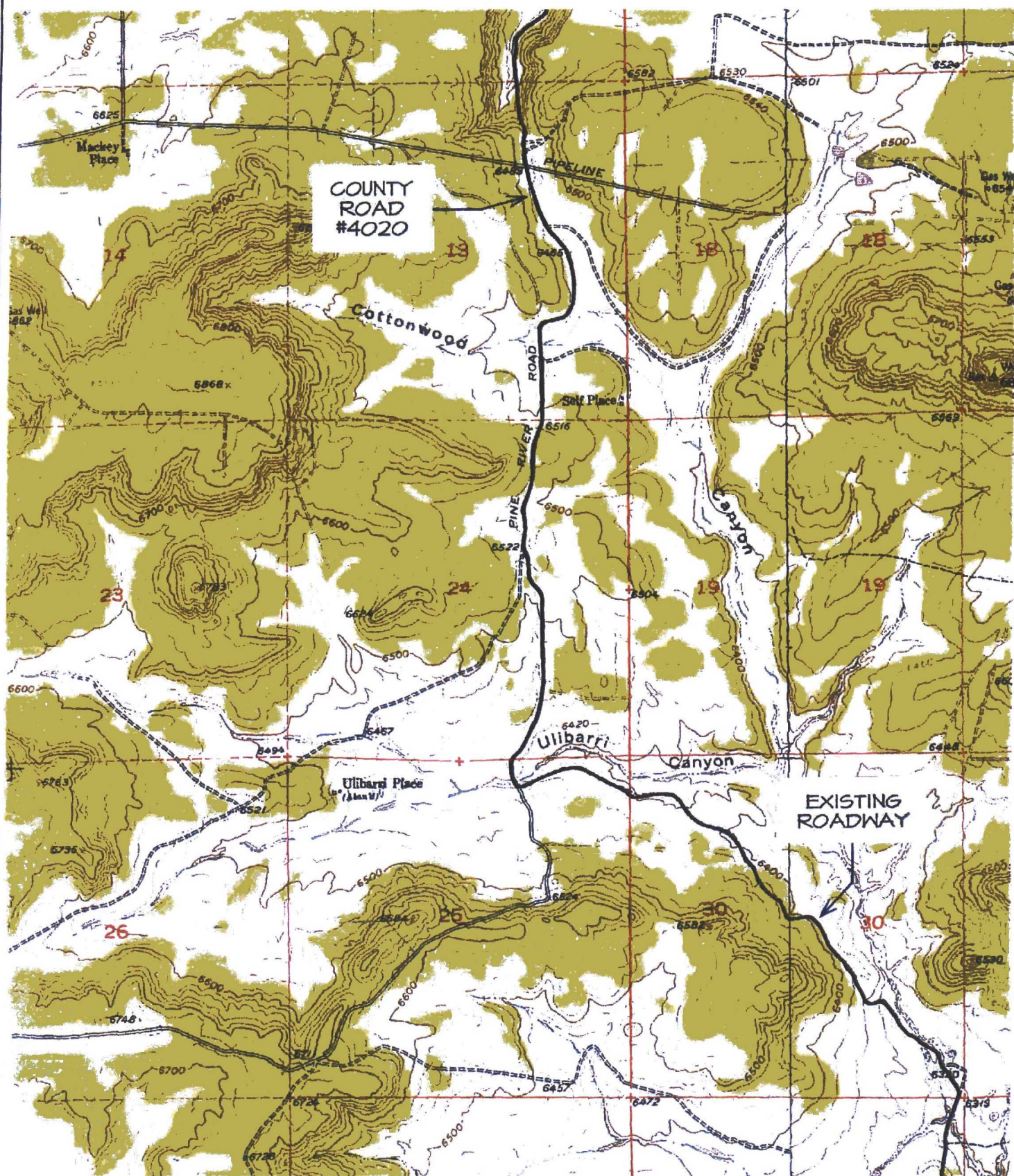


NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

WPX ENERGY PRODUCTION, LLC ROSA UNIT #552H

1031' FNL & 1862' FWL, SECTION 9, T31N, R6W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO

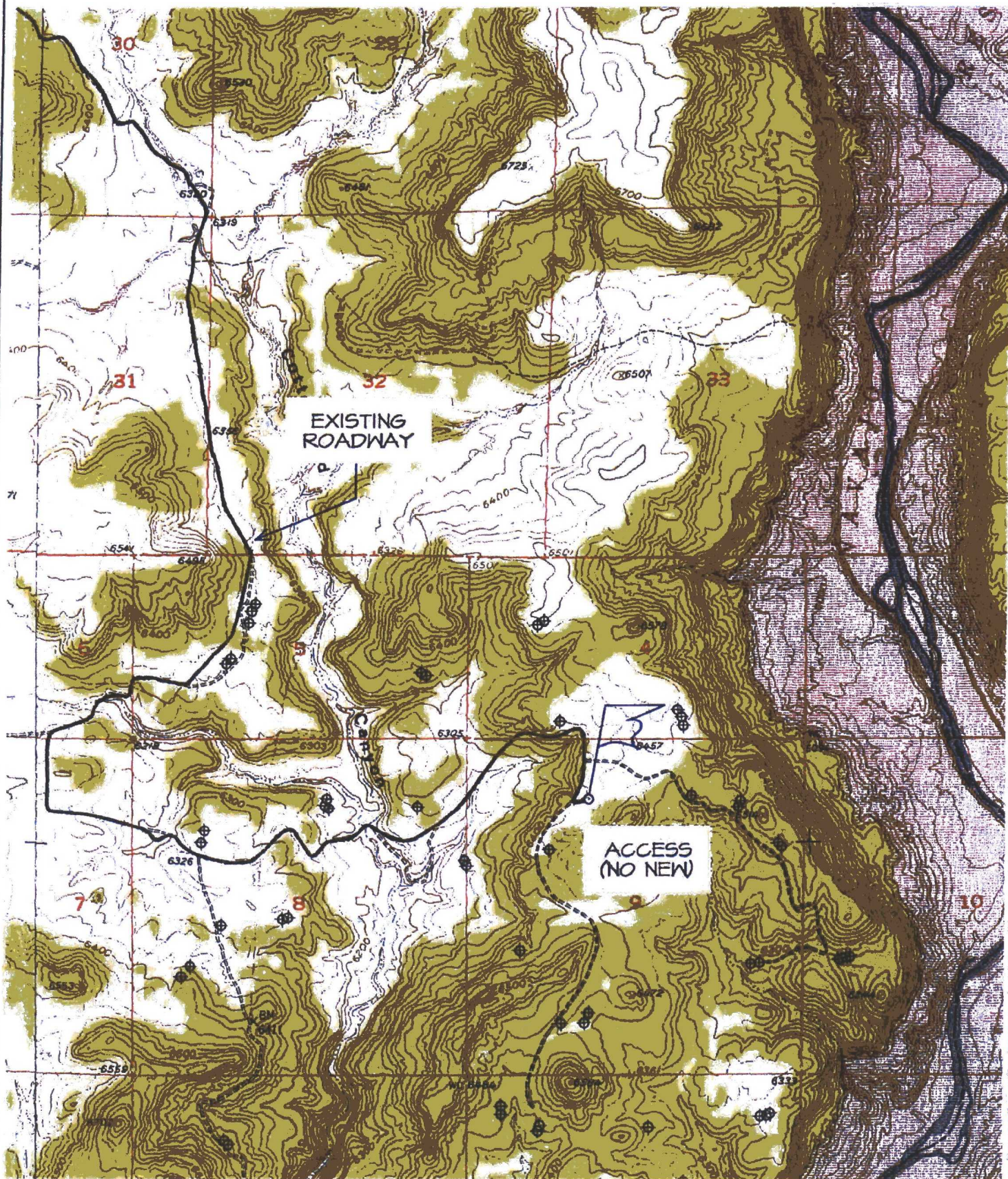


TOPO NAMES : BURNT MESA &
BANCOS MESA NW

⊕ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

WPX ENERGY PRODUCTION, LLC ROSA UNIT #552H

1031' FNL & 1862' FWL, SECTION 9, T31N, R6W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO



TOPO NAMES : BURNT MESA &
BANCOS MESA NW

⊕ PRODUCING WELL ⊗ PLUGGED & ABANDONED WELL

Directions from the Intersection of State Hwy 172 & State Hwy 151
in Ignacio, CO to WPX Energy Production, LLC Rosa Unit #552H
1031' FNL & 1862' FWL, Section 9, T31N, R6W, N.M.P.M., San Juan County, NM

Latitude: 36.918482°N Longitude: 107.470827°W Datum: NAD1983

From the intersection of State Hwy 172 & State Hwy 151 in Ignacio, CO, travel Easterly on State Hwy 151 for 12.0 miles to County Road #330;

Go Right (Southerly) on County Road #330 for 1.9 miles to County Road #4020;

Go Right (Westerly) on County Road #4020 for 3.9 miles to fork in roadway;

Go Left (Easterly) exiting County Road #4020 for 1.7 miles to fork in roadway;

Go Right (Southerly) which is straight for 2.0 miles to fork in roadway;

Go Left (Southerly) for 0.2 miles to fork in roadway;

Go Left (Easterly) for 0.5 miles to 4-way intersection;

Go Straight (Easterly) for 1.4 miles to fork in roadway;

Go Right (Southerly) which is straight for 0.1 miles to fork in roadway;

Go Left (Easterly) to staked WPX Rosa Unit #552H proposed location, which overlaps the existing WPX Rosa #180A location.