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Form 3160-5
(February 2005)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
Farmington Field Office
Bureau of Land Management

APR 06 2012

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

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		5. Lease Serial No SF-078767
2. Name of Operator WPX Energy Production, LLC		6. If Indian, Allottee or Tribe Name
3a. Address PO Box 640 Aztec, NM 87410	3b. Phone No (include area code) 505-333-1808	7. If Unit of CA/Agreement, Name and/or No. Rosa Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL 1087' FSL & 976' FEL BHL 250' FSL & 400' FWL, sec 24, T31N, R6W		8. Well Name and No. Rosa Unit #209A
		9. API Well No. 30-039-27699
		10. Field and Pool or Exploratory Area Basin Fruitland Coal
		11. Country or Parish, State Rio Arriba

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	
	☐ 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.)

Williams 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. Note: This is a modification to plan (longer lateral) that Williams Production had previously filed.

NOTE: Williams would like to update the existing SHL records for this well. Due to resurveyed data and advancements in technology the SHL from the existing C-102 is inconsistent with the attached. It is our belief that the more accurate C-102 is the most recent of the two and would like provide the attached for record.

RCVD APR 17 '12

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Larry Higgins	Title Permit Supervisor	OIL CONS. DIV. DIST. 3
Signature	Date 04/06/12	

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Original Signed: Stephen Mason	Title	Date APR 09 2012
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	

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)

NMOC

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

Certificate Number 15269



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE: 3/08/2012

WELLNAME: Rosa Unit #209A **FIELD:** Basin Fruitland Coal

BH LOCATION: SWSW Sec. 24-T31N-6W **SURFACE:** BLM
Rio Arriba, NM

ELEVATION: 6,310' GR **MINERALS:** BLM

TOTAL DEPTH: 6,560' **LEASE #** SF-078767

API#: 30-039-27699

I. GEOLOGY: Surface formation - San Jose

A. FORMATION TOPS: (KB)

NAME		TVD	MD
Kirtland		2,540	2,540
Fruitland		2,925	2,960
Top Target Coal		3,137	3,424
Bottom Target Coal			
Picture Cliffs		3,165	
TD		3,137	6,560

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 PRORAM: Mud logger will be on location from mill out to TD.

II. PREPARATORY WORK

- A. MIRU w/ workover rig
- B. POOH/LD rods and pump
- C. POOH/LD production tbg
- D. Set retrievable bridge plug at 2,634' inside 7" casing
- E. Pressure test 7" csg and bridge plug to 1,500 psi for 30 minutes
- F. RDMO

III. DRILLING

- A. **MUD PROGRAM:** LSND mud during mill out and while drilling curve. Treat for lost circulation as necessary. Notify Engineering of any mud losses.

B. DRILLING FLUID: Horizontal section will be drilled with produced water.

C. 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.**

IV. MATERIALS

A. CASING PROGRAM (as is):

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	318'	9-5/8"	36# J-55
Intermediate	8-3/4"	3,005'	7"	20# K-55
Prod. Liner	6-1/4"	2,898'- 3,182'	5-1/2"	17# K-55

B. CASING PROGRAM (after sidetrack):

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH (MD)</u>	<u>CASING SIZE</u>	<u>WT. & GRADE</u>
Surface	12-1/4"	318'	9-5/8"	36# J-55
Intermediate	8-3/4"	3,005'	7"	20# K-55
Prod. Liner (motherbore)	6-1/4"	2,898' - 3,182'	5-1/2"	17# K-55
Prod. Liner (sidetrack)	6-1/4"	~2,645' - 6,560'	4-1/2"	11.6# K-55

- Sidetrack production liner is pre-perforated below top of fruitland with blank pipe from window to top of fruitland and will be dropped off with top of liner in open hole 5-10' outside of window.

C. FLOAT EQUIPMENT:

- PRODUCTION LINER (sidetrack): No centralization

D. CEMENTING:

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

- PRODUCTION LINER (sidetrack): Open hole completion. No cement.

V. COMPLETION

A. STIMULATION

- No stimulation

B. RUNNING TUBING

- Fruitland Coal: Run 2-7/8", 6.5#, J-55, EUE tubing with a SN on top of bottom joint. Land tubing at approximately 3,168' MD inside of motherbore.


Larry Higgins
Permit Supervisor



Rosa Unit #209A ST01

Sec 24 T31N R06W

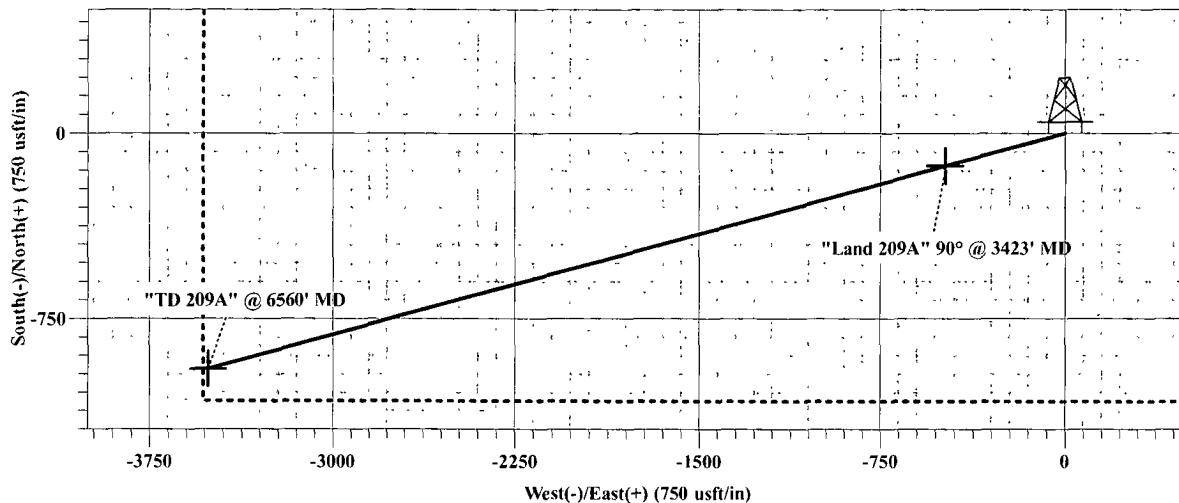
Rio Arriba Co., NM

GL: 6310' / KB: 14'

PATHFINDER
A Schlumberger Company

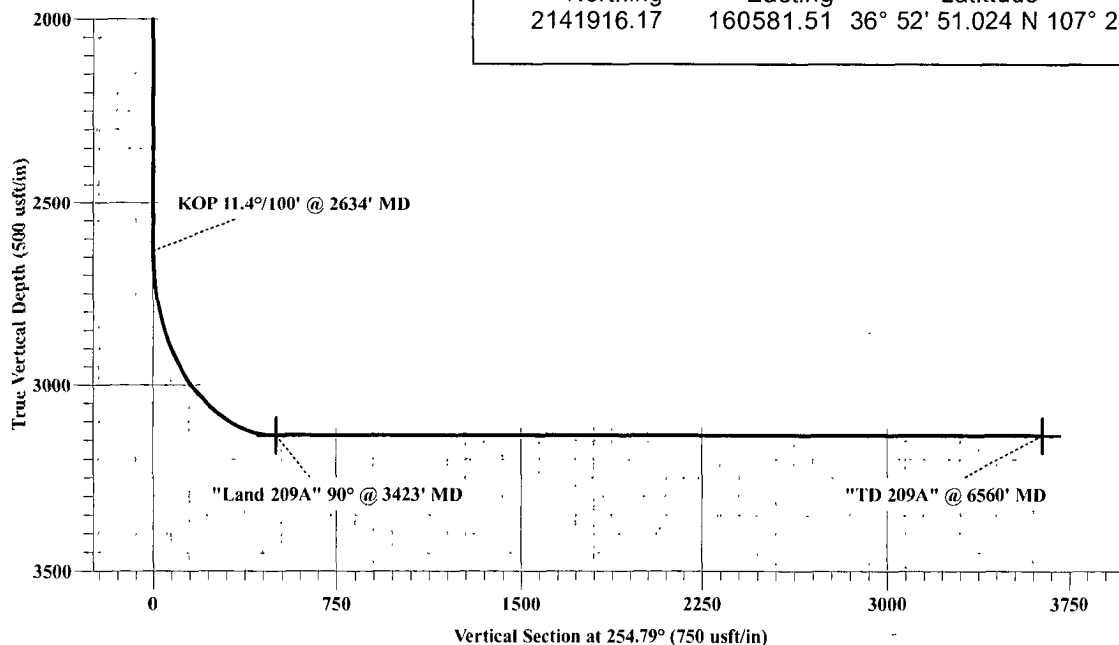
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Land - 209A	3137.0	-131.8	-485.0	2141790.28	160094.94	Point
TD - 209A	3137.0	-954.4	-3511.6	2141004.50	157058.53	Point



WELL DETAILS: Rosa Unit #209A ST01

Ground Level: 6310.0			
Northing	Easting	Latitude	Longitude
2141916.17	160581.51	36° 52' 51.024 N	107° 24' 37.872 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSEct	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2634.4	0.00	0.00	2634.4	0.0	0.0	0.00	0.00	0.0	
3423.9	90.00	254.79	3137.0	-131.8	-485.0	11.40	254.79	502.6	
6560.3	90.00	254.79	3137.0	-954.4	-3511.6	0.00	0.00	3639.0	TD - 209A

Plan: Design #2 (Rosa Unit #209A ST01/Wellbore #1)

Created By: Breck Enoch Date: 07-Mar-2012

WPXENERGY

WPXEnergy

Rio Arriba Co., NM

Sec 24 T31N R06W

Rosa Unit #209A ST01

Wellbore #1

Plan: Design #2

Standard Planning Report

07 March, 2012

PATHFINDER

A Schlumberger Company

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well Rosa Unit #209A ST01
Company:	WPXEnergy	TVD Reference:	WELL @ 6324 0usft (Original Well Elev)
Project:	Rio Arriba Co , NM	MD Reference:	WELL @ 6324 0usft (Original Well Elev)
Site:	Sec 24 T31N R06W	North Reference:	True
Well:	Rosa Unit #209A ST01	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Project:	Rio Arriba Co., NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico Central 3002		

Site: Sec 24 T31N R06W					
Site Position:		Northing:	2,141,916.17 usft	Latitude:	36° 52' 51.024 N
From:	Lat/Long	Easting:	160,581.51 usft	Longitude:	107° 24' 37.872 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-0.70°

Well:	Rosa Unit #209A ST01					
Well Position	+N/-S	0.0 usft	Northing:	2,141,916.17 usft	Latitude:	36° 52' 51.024 N
	+E/-W	0.0 usft	Easting:	160,581.51 usft	Longitude:	107° 24' 37.872 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	6,310.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2012/03/07	9.67	63.63	50,791

Design	Design #2				
Audit Notes:					
Version:	Phase:	PROTOTYPE		Tie On Depth:	0 0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0 0	0 0	0 0	254.79	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,634.4	0.00	0.00	2,634.4	0.0	0.0	0.00	0.00	0.00	0.00	
3,423.9	90.00	254.79	3,137.0	-131.8	-485.0	11.40	11.40	0.00	254.79	
6,560.3	90.00	254.79	3,137.0	-954.4	-3,511.6	0.00	0.00	0.00	0.00	TD - 209A

Database: EDM 5000 1 Single User Db
Company: WPXEnergy
Project: Rio Arriba Co , NM
Site: Sec 24 T31N R06W
Well: Rosa Unit #209A-ST01
Wellbore: Wellbore #1
Design: Design #2

Local Co-ordinate Reference: Well Rosa Unit #209A ST01
TVD Reference: WELL @ 6324 0usft (Original Well Elev)
MD Reference: WELL @ 6324 0usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 0	0 00	0 00	0 00
100 0	0 00	0 00	100 0	0 0	0 0	0 0	0 00	0 00	0 00
200 0	0 00	0 00	200 0	0 0	0 0	0 0	0 00	0 00	0 00
300 0	0 00	0 00	300 0	0 0	0 0	0 0	0 00	0 00	0 00
400 0	0 00	0 00	400 0	0 0	0 0	0 0	0 00	0 00	0 00
500 0	0 00	0 00	500 0	0 0	0 0	0 0	0 00	0 00	0 00
600 0	0 00	0 00	600 0	0 0	0 0	0 0	0 00	0 00	0 00
700 0	0 00	0 00	700 0	0 0	0 0	0 0	0 00	0 00	0 00
800 0	0 00	0 00	800 0	0 0	0 0	0 0	0 00	0 00	0 00
900 0	0 00	0 00	900 0	0 0	0 0	0 0	0 00	0 00	0 00
1,000 0	0 00	0 00	1,000 0	0 0	0 0	0 0	0 00	0 00	0 00
1,100 0	0 00	0 00	1,100 0	0 0	0 0	0 0	0 00	0 00	0 00
1,200 0	0 00	0 00	1,200 0	0 0	0 0	0 0	0 00	0 00	0 00
1,300 0	0 00	0 00	1,300 0	0 0	0 0	0 0	0 00	0 00	0 00
1,400 0	0 00	0 00	1,400 0	0 0	0 0	0 0	0 00	0 00	0 00
1,500 0	0 00	0 00	1,500 0	0 0	0 0	0 0	0 00	0 00	0 00
1,600 0	0 00	0 00	1,600 0	0 0	0 0	0 0	0 00	0 00	0 00
1,700 0	0 00	0 00	1,700 0	0 0	0 0	0 0	0 00	0 00	0 00
1,800 0	0 00	0 00	1,800 0	0 0	0 0	0 0	0 00	0 00	0 00
1,900 0	0 00	0 00	1,900 0	0 0	0 0	0 0	0 00	0 00	0 00
2,000 0	0 00	0 00	2,000 0	0 0	0 0	0 0	0 00	0 00	0 00
2,100 0	0 00	0 00	2,100 0	0 0	0 0	0 0	0 00	0 00	0 00
2,200 0	0 00	0 00	2,200 0	0 0	0 0	0 0	0 00	0 00	0 00
2,300 0	0 00	0 00	2,300 0	0 0	0 0	0 0	0 00	0 00	0 00
2,400 0	0 00	0 00	2,400 0	0 0	0 0	0 0	0 00	0 00	0 00
2,500 0	0 00	0 00	2,500 0	0 0	0 0	0 0	0 00	0 00	0 00
2,600 0	0 00	0 00	2,600 0	0 0	0 0	0 0	0 00	0 00	0 00
2,634 4	0 00	0 00	2,634 4	0 0	0 0	0 0	0 00	0 00	0 00
KOP 11.4°/100' @ 2634' MD									
2,650 0	1 78	254.79	2,650 0	-0 1	-0 2	0 2	11 40	11 40	0 00
2,700 0	7 48	254.79	2,699 8	-1 1	-4 1	4 3	11 40	11 40	0 00
2,750 0	13 18	254.79	2,749 0	-3 5	-12 8	13 2	11 40	11 40	0 00
2,800 0	18 88	254.79	2,797 0	-7 1	-26 1	27 0	11 40	11 40	0 00
2,850 0	24 58	254.79	2,843 4	-11 9	-43 9	45 5	11 40	11 40	0 00
2,900 0	30 28	254.79	2,887 8	-18 0	-66 2	68 6	11 40	11 40	0 00
2,950 0	35 98	254.79	2,929 7	-25 1	-92 5	95 9	11 40	11 40	0 00
3,000 0	41 68	254.79	2,968 6	-33 4	-122 8	127 2	11 40	11 40	0 00
3,050 0	47 38	254.79	3,004 2	-42 6	-156 6	162 3	11 40	11 40	0 00
3,100 0	53 08	254.79	3,036 2	-52 6	-193 6	200 7	11 40	11 40	0 00
3,150 0	58 78	254.79	3,064 2	-63 5	-233 6	242 1	11 40	11 40	0 00
3,200 0	64 48	254.79	3,088 0	-75 0	-276 0	286 0	11 40	11 40	0 00
3,250 0	70 18	254.79	3,107 2	-87 1	-320 5	332 2	11 40	11 40	0 00
3,300 0	75 88	254.79	3,121 8	-99 7	-366 7	380 0	11 40	11 40	0 00
3,350 0	81 58	254.79	3,131 6	-112.5	-414 0	429 0	11 40	11 40	0 00
3,400 0	87 28	254.79	3,136 4	-125 6	-462 0	478 7	11 40	11 40	0 00
3,423 9	90 00	254.79	3,137 0	-131 8	-485 0	502 6	11 40	11 40	0 00
"Land 209A" 90° @ 3423' MD									
3,500 0	90 00	254.79	3,137 0	-151 8	-558 5	578 7	0 00	0 00	0 00
3,600 0	90 00	254.79	3,137 0	-178 0	-655 0	678 7	0 00	0 00	0 00
3,700 0	90 00	254.79	3,137 0	-204.2	-751 5	778 7	0 00	0 00	0 00
3,800 0	90 00	254.79	3,137 0	-230 5	-848 0	878 7	0 00	0 00	0 00
3,900 0	90 00	254.79	3,137 0	-256 7	-944 5	978 7	0 00	0 00	0 00
4,000 0	90 00	254.79	3,137 0	-282 9	-1,041 0	1,078 7	0 00	0 00	0 00
4,100 0	90 00	254.79	3,137 0	-309 2	-1,137 5	1,178 7	0 00	0 00	0 00

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Well Rosa Unit #209A ST01
Company:	WPXEnergy	TVD Reference:	WELL @ 6324 0usft (Original Well Elev)
Project:	Rio Arriba Co , NM	MD Reference:	WELL @ 6324 0usft (Original Well Elev)
Site:	Sec 24.T31N R06W	North Reference:	True
Well:	Rosa Unit #209A ST01	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #2		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,200 0	90 00	254 79	3,137 0	-335 4	-1,234 0	1,278 7	0 00	0 00	0 00	
4,300 0	90 00	254 79	3,137 0	-361 6	-1,330 4	1,378 7	0 00	0 00	0 00	
4,400 0	90 00	254 79	3,137 0	-387 8	-1,426 9	1,478 7	0 00	0 00	0 00	
4,500 0	90 00	254 79	3,137 0	-414 1	-1,523 4	1,578 7	0 00	0 00	0 00	
4,600 0	90 00	254 79	3,137 0	-440 3	-1,619 9	1,678 7	0 00	0 00	0 00	
4,700 0	90 00	254 79	3,137 0	-466 5	-1,716 4	1,778 7	0 00	0 00	0 00	
4,800 0	90 00	254 79	3,137 0	-492 7	-1,812 9	1,878 7	0 00	0 00	0 00	
4,900 0	90 00	254 79	3,137 0	-519 0	-1,909 4	1,978 7	0 00	0 00	0 00	
5,000 0	90 00	254 79	3,137 0	-545 2	-2,005 9	2,078 7	0 00	0 00	0 00	
5,100 0	90 00	254 79	3,137 0	-571 4	-2,102 4	2,178 7	0 00	0 00	0 00	
5,200 0	90 00	254 79	3,137 0	-597 7	-2,198 9	2,278 7	0 00	0 00	0 00	
5,300 0	90 00	254 79	3,137 0	-623 9	-2,295 4	2,378 7	0 00	0 00	0 00	
5,400 0	90 00	254 79	3,137 0	-650 1	-2,391 9	2,478 7	0 00	0 00	0 00	
5,500 0	90 00	254 79	3,137 0	-676 3	-2,488 4	2,578 7	0 00	0 00	0 00	
5,600 0	90 00	254 79	3,137 0	-702 6	-2,584 9	2,678 7	0 00	0 00	0 00	
5,700 0	90 00	254 79	3,137 0	-728 8	-2,681 4	2,778 7	0 00	0 00	0 00	
5,800 0	90 00	254 79	3,137 0	-755 0	-2,777 9	2,878 7	0 00	0 00	0 00	
5,900 0	90 00	254 79	3,137 0	-781 3	-2,874 4	2,978 7	0 00	0 00	0 00	
6,000 0	90 00	254 79	3,137 0	-807 5	-2,970 9	3,078 7	0 00	0 00	0 00	
6,100 0	90 00	254 79	3,137 0	-833 7	-3,067 4	3,178 7	0 00	0 00	0 00	
6,200 0	90 00	254 79	3,137 0	-859 9	-3,163 9	3,278 7	0 00	0 00	0 00	
6,300 0	90 00	254 79	3,137 0	-886 2	-3,260 4	3,378 7	0 00	0 00	0 00	
6,400 0	90 00	254 79	3,137 0	-912 4	-3,356 9	3,478 7	0 00	0 00	0 00	
6,500 0	90 00	254 79	3,137 0	-938 6	-3,453 4	3,578 7	0 00	0 00	0 00	
6,560 3	90 00	254 79	3,137 0	-954 4	-3,511 6	3,639 0	0 00	0 00	0 00	
"TD 209A" @ 6560' MD										

Design Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TD - 209A	- plan hits target center	0 00	0 00	3,137 0	-954 4	-3,511 6	2,141,004 49	157,058 53	36° 52' 41 585 N	107° 25' 21 090 W
	- Point									
Land - 209A	- plan hits target center	0 00	0 00	3,137 0	-131 8	-485 0	2,141,790 28	160,094 95	36° 52' 49 721 N	107° 24' 43 841 W
	- Point									

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
2,634 4	2,634 4	0 0	0 0	KOP 11 4°/100' @ 2634' MD	
3,423 9	3,137 0	-131 8	-485 0	"Land 209A" 90° @ 3423' MD	
6,560 3	3,137 0	-954 4	-3,511 6	"TD 209A" @ 6560' MD	