

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

SEP 26 2011

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

Farmington 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		6 If Indian, Allottee or Tribe Name
☐ Oil Well ☒ Gas Well ☐ Other		7 If Unit of CA/Agreement, Name and/or No Rosa Unit
2 Name of Operator Williams Production Company, LLC		8 Well Name and No Rosa Unit #260A
3a. Address PO Box 640 Aztec, NM 87410	3b. Phone No (include area code) 505-333-1808	9 API Well No. 30-039-29546
4 Location of Well (Footage, Sec., T., R., M., or Survey Description) Sui 807' FSL & 1969' FEL - BHL 2610' FSL & 30' FEL, Sec 21, T31N, R6W		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 _____
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal Looks like we need to get our monthly done by Wednesday AM	

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. All disturbance will be on permitted location.

NOTE: . 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.

Blank Liner to Production interval

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Larry Higgins	Title Permit Supervisor
Signature <i>Larry Higgins</i>	Date 9/26/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

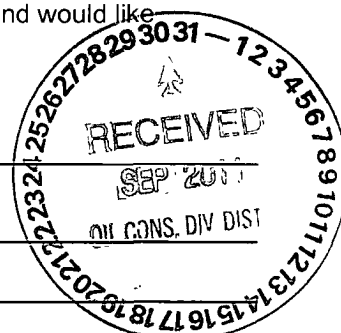
Approved by Original Signed: Stephen Mason	Title Office	Date SEP 26 2011
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Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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)

NMOCD



District I
1625 N. French Dr., Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

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

RECEIVED

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

ARMINGTON FIELD OFFICE
Bureau of Land Management
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-29646		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 260A
*GRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6376'

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
0	21	31N	6W		807	SOUTH	1969	EAST	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	21	31N	6W		2610	SOUTH	30	EAST	RIO ARriba

*Dedicated Acres 320.0 Acres - (S/2)	*Joint or Infill	*Consolidation Code	*Order No. B13200
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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

16	5280.00'			TRACT 40	2640.00'	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. <i>Larry Higgins</i> 9-26-11 Signature Date <i>Larry Higgins</i> Printed Name		
	SURFACE LOCATION LAT: 36.87999°N LONG: 107.46528°W DATUM: NAD1927 LAT: 36.88000°N LONG: 107.46588°W DATUM: NAD1983							
POINT OF ENTRY LAT: 36.88074°N LONG: 107.46428°W DATUM: NAD1927 LAT: 36.88075°N LONG: 107.46488°W DATUM: NAD1983			END OF LATERAL LAT: 36.88495°N LONG: 107.45866°W DATUM: NAD1927 LAT: 36.88496°N LONG: 107.45926°W DATUM: NAD1983			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: AUGUST 6, 2011 Survey Date: JANUARY 27, 2003 Signature and Seal of Professional Surveyor  JASON C. EDWARDS Certificate Number 15269		
LOT 1			LOT 2				LOT 3	
21			30'					
LEASE SF-078766			5276.04'			1676'		
			807'			1969'		
			1080'			2610'		
			N46°46.8'E 2247.6'					
			N46°46.8'E 400.0'					



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE: 6/8/2011

WELLNAME: Rosa Unit #260A **FIELD:** Basin Fruitland Coal

BH LOCATION: NESE Sec. 21-T31N-6W **SURFACE:** BLM
Rio Arriba, NM

ELEVATION: 6,376' GR **MINERALS:** BLM

TOTAL DEPTH: 5,615' **LEASE #** SF-078766

API#: 30-039-29546

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

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

NAME		TVD	MD
Kirtland		2,507	2,507
Fruitland		2,927	2,936
Top Target Coal		3,200	3,504
Bottom Target Coal		3,224	
Picture Cliffs		3,257	
TD		3,200	5,615

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 2,700' 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"	321'	9-5/8"	36# K-55
Intermediate	8-3/4"	3,041'	7"	23# K-55
Prod. Liner	6-1/4"	2,998'- 3,247'	5-1/2"	17# N-80

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"	321'	9-5/8"	36# K-55
Intermediate	8-3/4"	3,041'	7"	23# K-55
Prod. Liner (motherbore)	6-1/4"	2,998'- 3,247'	5-1/2"	17# N-80
Prod. Liner (sidetrack)	6-1/4"	~2,710'-5,615'	4-1/2"	11.6# K-55

- Sidetrack production liner is pre-perforated and will be dropped off with top of liner in open hole 5-10' outside of window. *Blank Liner to production interval*

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.

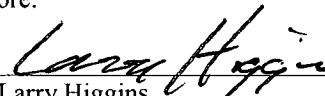
V. **COMPLETION**

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 3,243' MD inside of motherbore.


 Larry Higgins
 Permit Supervisor



Williams Energy

30-039-29546

Rosa Unit #260A-STK

Sec21 T31N-R06W - 260A

Rio Arriba Co. NM

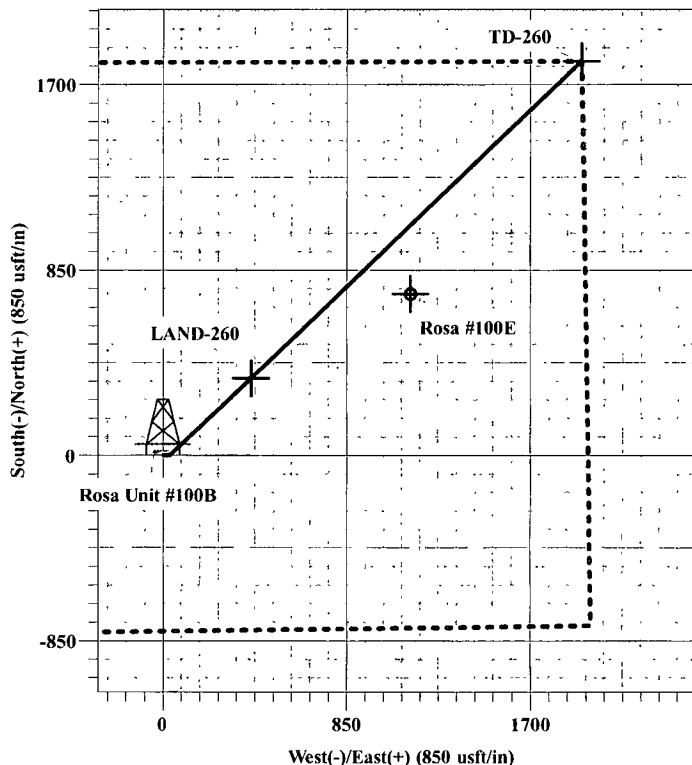
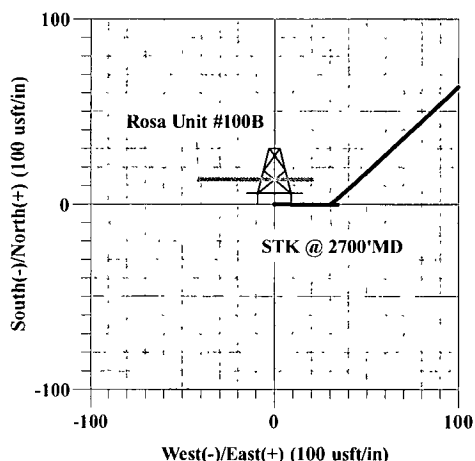
GL: 6376' KB: 14'



A Schlumberger Company

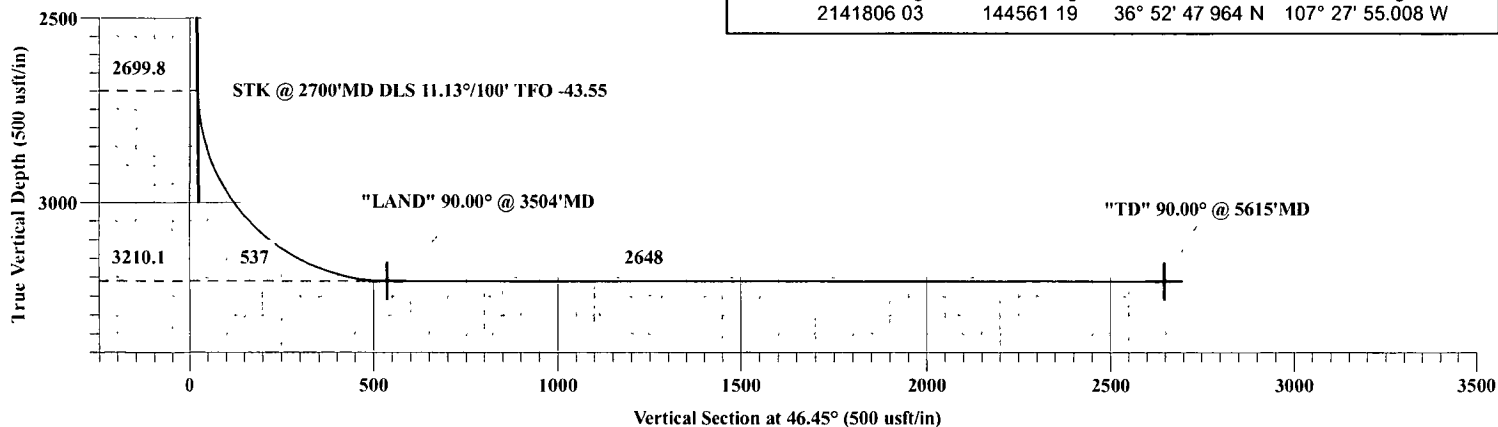
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Rosa #100E	0 0	740 2	1146 6	2142531 61	145717.13	Circle (Radius 25.0)
LAND-260	3210 0	351.6	406 2	2142152.43	144971 83	Point
TD-260	3210 0	1806.0	1936 3	2143587.23	146520.32	Point



WELL DETAILS Rosa Unit #260A-STK

Northing	Easting	Latitude	Longitude
2141806 03	144561 19	36° 52' 47 964 N	107° 27' 55.008 W



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
2700 0	0 69	90 00	2699 8	0 0	30 1	0 00	0 00	21 8	
3504 1	90 00	46 45	3210 1	351 6	406 2	11 13	-43 55	536 6	
5615 2	90 00	46.45	3210 0	1806 0	1936 3	0 00	0 00	2647.7	TD-260

Plan: Design #1 (Rosa Unit #260A-STK/STK)

Created By: Frank C. Scardino

Date: 9/23/2011

Williams Energy

Rio Arriba Co. NM

Sec21 T31N-R06W - 260A

Rosa Unit #260A-STK

STK

Plan: Design #1

Standard Planning Report

23 September, 2011

Planning Report

Database:	EDM 5000 1 Single User Db	Local Co-ordinate Reference:	Site Sec21 T31N-R06W - 260A
Company:	Williams Energy	TVD Reference:	WELL @ 6390 0usft (Original Well Elev)
Project:	Rio Arriba Co NM	MD Reference:	WELL @ 6390 0usft (Original Well Elev)
Site:	Sec21 T31N-R06W - 260A	North Reference:	True
Well:	Rosa Unit #260A-STK	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK		
Design:	Design #1		

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:	Sec21 T31N-R06W - 260A		
Site Position:		Northing:	2,141,806 03 usft
From:	Lat/Long	Easting:	144,561 19 usft
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16 "
		Latitude:	36° 52' 47 964 N
		Longitude:	107° 27' 55 008 W
		Grid Convergence:	-0 73 °

Well:	Rosa Unit #260A-STK					
Well Position	+N/-S	0 0 usft	Northing:	2,141,806 03 usft	Latitude:	36° 52' 47 964 N
	+E/-W	0 0 usft	Easting:	144,561 19 usft	Longitude:	107° 27' 55 008 W
Position Uncertainty		0 0 usft	Wellhead Elevation:		Ground Level:	6,376 0 usft

Wellbore	STK				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/23/11	9 75	63.63	50,828

Design #1				
Audit Notes:				
Version:		Phase:	PROTOTYPE	Tie On Depth: 2,700 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0 0	0 0	0 0	46 45

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
2,700 0	0 69	90 00	2,699.8	0 0	30.1	0 00	0 00	0.00	0 00	
3,504 1	90.00	46 45	3,210 1	351 6	406 2	11 13	11 11	-5 42	-43 55	
5,615 2	90 00	46 45	3,210 0	1,806 0	1,936 3	0 00	0 00	0 00	0 00	TD-260

Planning Report

Database:	EDM 5000-1 Single User Db	Local Co-ordinate Reference:	Site Sec21 T31N-R06W - 260A
Company:	Williams Energy	TVD Reference:	WELL @ 6390 0usft (Original Well Elev)
Project:	Rio Arriba Co NM	MD Reference:	WELL @ 6390 0usft (Original Well Elev)
Site:	Sec21 T31N-R06W - 260A	North Reference:	True
Well:	Rosa Unit #260A-STK	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK		
Design:	Design #1		

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)
2,700 0	0 69	90 00	2,699 8	0 0	30 1	21.8	0 05	0 05	0 00
STK @ 2700'MD DLS 11.13°/100' TFO -43.55°									
2,750 0	6 08	50 92	2,749 7	1 7	32 5	24 7	11 13	10 79	-78 15
2,800 0	11 64	48 77	2,799 1	6 7	38 3	32 4	11 13	11 11	-4 32
2,850 0	17 20	47 99	2,847 5	15 0	47 6	44 8	11 13	11 12	-1 55
2,900 0	22 77	47 59	2,894 5	26 4	60 3	61 9	11 13	11 13	-0 81
2,950 0	28 33	47.34	2,939 6	41 0	76 2	83 5	11 13	11 13	-0.50
3,000 0	33 89	47 16	2,982 4	58 5	95 1	109 3	11 13	11 13	-0 35
3,050.0	39 46	47 03	3,022.4	78 9	117 0	139 1	11 13	11 13	-0 26
3,100 0	45 02	46 93	3,059 4	101 8	141 6	172 7	11 13	11 13	-0 21
3,150 0	50 59	46.84	3,093 0	127.1	168 6	209 8	11 13	11 13	-0 17
3,200 0	56 15	46.77	3,122 8	154 6	197 8	249 9	11 13	11 13	-0 14
3,250 0	61 72	46 71	3,148 6	183 9	229 0	292 7	11 13	11 13	-0 13
3,300 0	67 28	46 65	3,170 1	214 8	261 8	337 8	11 13	11 13	-0 11
3,350 0	72 85	46 60	3,187 2	247 1	296 0	384 8	11 13	11 13	-0 10
3,400 0	78 41	46 55	3,199 6	280 4	331 1	433 2	11 13	11 13	-0 10
3,450 0	83 98	46 50	3,207 2	314 4	367 0	482 6	11.13	11 13	-0.09
3,504 1	90 00	46 45	3,210 1	351 6	406 2	536 6	11 13	11 13	-0 09
"LAND" 90.00° @ 3504'MD									
3,600 0	90 00	46 45	3,210 1	417 6	475 6	632 5	0 00	0 00	0 00
3,700 0	90 00	46 45	3,210 1	486 5	548 1	732 5	0 00	0 00	0 00
3,800 0	90 00	46 45	3,210 1	555 4	620 6	832 5	0 00	0 00	0 00
3,900 0	90 00	46 45	3,210 1	624 3	693.1	932 5	0 00	0 00	0 00
4,000.0	90 00	46 45	3,210 1	693 2	765 6	1,032 5	0 00	0 00	0 00
4,100 0	90 00	46 45	3,210 1	762 1	838 1	1,132 5	0 00	0 00	0 00
4,200 0	90 00	46.45	3,210 1	831 0	910 5	1,232 5	0.00	0 00	0 00
4,300 0	90 00	46 45	3,210 0	899 9	983 0	1,332 5	0 00	0 00	0 00
4,400 0	90 00	46 45	3,210 0	968 8	1,055 5	1,432 5	0 00	0 00	0 00
4,500 0	90 00	46 45	3,210 0	1,037 7	1,128 0	1,532 5	0 00	0 00	0 00
4,600 0	90 00	46 45	3,210 0	1,106 6	1,200 5	1,632 5	0 00	0 00	0 00
4,700 0	90 00	46 45	3,210 0	1,175.5	1,272 9	1,732 5	0.00	0 00	0 00
4,800.0	90 00	46 45	3,210.0	1,244 4	1,345 4	1,832 5	0.00	0 00	0 00
4,900.0	90 00	46 45	3,210 0	1,313 3	1,417 9	1,932 5	0.00	0.00	0 00
5,000.0	90 00	46 45	3,210 0	1,382 2	1,490 4	2,032 5	0 00	0.00	0 00
5,100 0	90 00	46 45	3,210 0	1,451 0	1,562 9	2,132 5	0 00	0 00	0 00
5,200 0	90 00	46 45	3,210 0	1,519 9	1,635 3	2,232 5	0 00	0 00	0 00
5,300 0	90 00	46 45	3,210 0	1,588 8	1,707 8	2,332 5	0 00	0 00	0 00
5,400 0	90 00	46 45	3,210 0	1,657 7	1,780 3	2,432 5	0 00	0 00	0 00
5,500 0	90 00	46 45	3,210 0	1,726 6	1,852 8	2,532 5	0 00	0 00	0 00
5,600 0	90 00	46 45	3,210 0	1,795 5	1,925 3	2,632 5	0 00	0 00	0 00
5,615 2	90 00	46 45	3,210 0	1,806 0	1,936 3	2,647 7	0 00	0 00	0 00
"TD" 90.00° @ 5615'MD									

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		
TD-260	0 00	0 00	3,210.0	1,806 0	1,936 3	2,143,587.23	146,520.33	36° 53' 5 820 N		
- hit/miss target								107° 27' 31 176 W		
- plan hits target center										
- Point										

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Site Sec21 T31N-R06W - 260A
Company:	Williams Energy	TVD Reference:	WELL @ 6390.0usft (Original Well Elev)
Project:	Rio Arriba Co NM	MD Reference:	WELL @ 6390.0usft (Original Well Elev)
Site:	Sec21 T31N-R06W - 260A	North Reference:	True
Well:	Rosa Unit #260A-STK	Survey Calculation Method:	Minimum Curvature
Wellbore:	STK		
Design:	Design #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,700 0	2,699.8	0 0	30 1	STK @ 2700'MD DLS 11 13"/100' TFO -43 55
3,504 1	3,210 1	351 6	406 2	"LAND" 90 00° @ 3504'MD
5,615 2	3,210.0	1,806 0	1,936 3	"TD" 90 00° @ 5615'MD