In Lieu of Form 3160 (June 1990	DEPARTN	ITED STATES MENT OF INTERIOR LAND MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993
Do not us	se this form for proposals to drill or to deepen	D REPORTS ON WELLS or reentry to a different reservoir. Use "APPLICATION	Lease Designation and Serial No.     Fee
	TO DRILL" for per	mit for such proposals	6. If Indian, Allottee or Tribe Name N/A
	SUBMIT IN	TRIPLICÀTE	7. If Unit or CA, Agreement Designation Rosa Unit
1.	Type of Well Oil Well Gas Well X Other		8. Well Name and No. Rosa Unit #181D
	Name of Operator WILLIAMS PRODUCTION COMPANY		9. API Well No. 30-039-30795
	Address and Telephone No. PO BOX 640 Aztec, NM 87410-0640	,	10. Field and Pool, or Exploratory Area Blanco MV / Basin MC / Basin DK
5	Location of Well (Footage, Sec., T., R , M., o Surface: 1230' FNL & 730' FEL BHL: 100' FSL & 1400' FEL	r Survey Description) Sec. 15, T31N, R6W Sec 10, T31N, R6W	11. County or Parish, State Rio Arriba, NM
	CHECK APPROPRIA	TE BOX(s) TO INDICATE NATURE OF NOTICE, REPO	ORT, OR OTHER DATA
	TYPE OF SUBMISSION	ТҮРЕО	F ACTION
:	X Notice of Intent Subsequent Report Final Abandonment	Abandonment Recompletion Plugging Back Casing Repair Altering Casing	X Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection
		X Other <u>Surface</u>	Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

Williams Production Company, LLC. hereby requests authorization to drill the above well from a surface location sharing a pad with the Rosa Unit #12, Rosa #12C and Rosa #181A. The well will be drilled to a location under Navajo Lake per attached plans. The Spacing unit is 100% committed to the Rosa Unit. Well will be drilled utilizing a closed loop drilling system. The surface location is under Bureau of Reclamation authority. There was a site visit 6-18-09 including Bill Liess (BLM) and Mike Dombrowski (BOR). All agreed that this was the best site for surface location. This location has been archaeologically surveyed by La Plata Archaeological Consultants and copies of their report have been submitted directly to the BLM and BOR. This sundry is also serving as an application for a pipeline ROW from the BOR. An associated pipeline of 59.0 feet would be required for this well. Copies of the plat, operation plan, directional plan, surface use plan, pipeline plat and related plats and drawings are attached.

OIL CONS. DIV.

DIST. 3

14.	I hereby certify that the foregoing is true and correct  Signed	Title <u>Drilling COM</u> Date <u>6-30-09</u>
	(This space for Federal of State office use)  Approved by  Conditions of approval, if any. See COA'S	Branch Chief B/4/09 Environmental Protect on and Reality

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102. Revised October 12, 2005 Instructions on back

District II 1301 W Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

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

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

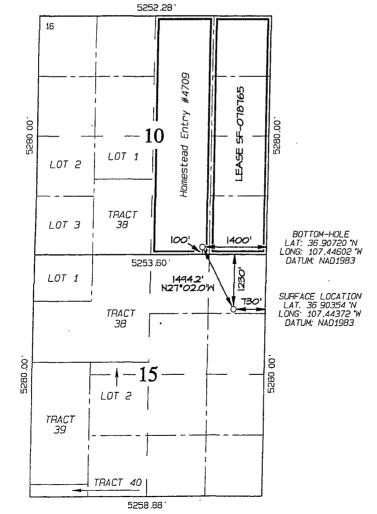
#### WELL LOCATION AND ACREAGE DEDICATION PLAT

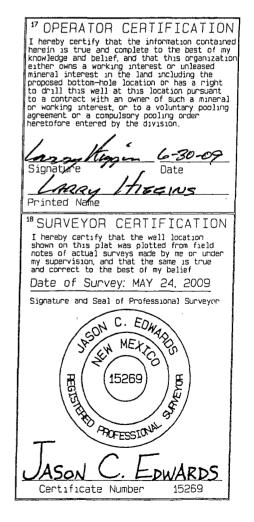
'API Number	*Pool Code	'Pool Name					
	97232 / 72319 / 71599	BASIN MANCOS / BLANCO MESAVERDE	/ BASIN DAKOTA				
'Property Code		<sup>3</sup> Property Name	"Well Number				
17033		ROSA UNIT	181D				
'OGRID No.		Operator Name	*Elevation				
120782 ·	WILLIAMS	PRODUCTION COMPANY	6268'				

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
A	15	31N	6W		1230	NORTH	730	EAST	RIO ARRIBA				
	<sup>11</sup> Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Township	Aange	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
0			100	SOUTH	1400	EAST	RIO ARRIBA						
Dedicated Acres 320.0 Acres E/2 Section 10				13 Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.							

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







#### **WILLIAMS PRODUCTION COMPANY**

#### Operations Plan

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

DATE:

6/16/2009

FIELD:

Basin DK/Basin MC/BlancoMV

WELL NAME:

Rosa #181D

San Juan, NM

SURFACE:

BOR

BH LOCATION:

SWSE Sec 10-31N-6W

MINERALS:

FEE

ELEVATION:

6,268' GR

LEASE #

SF-078765

MEASURED DEPTH:

8,511'

I. I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	TVD	MD	Name	TVD	MD
Ojo Alamo	2,307	2,608	Point Lookout	5,572	5,981
Kirtland	2,412	2,737	Mancos	5,877	6,286
Fruitland	2,807	3,195	Gallup	6,877	7,296
Pictured Cliffs	3,087	3,491	Greenhorn	7,617	8,026
Lewis	3,382	3,791	Graneros	7,667	8,076
Cliff House	5,272	5,681	Dakota	7,792	8,201
Menefee	5,322	5,731	Morrison	8,022	8,431
			TD	8,102	8,511

- B. MUD LOGGING PROGRAM: Mudlogger on location from intermediate csg to TD. Mud logger to pick TD.
- C. LOGGING PROGRAM: HRI/Temp from intermediate casing to TD. SDL\DSEN over zones of interest.
- D. <u>NATURAL GAUGES</u>: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

#### II. DRILLING

- A. MUD PROGRAM: Clear water with benex to 7-5/8" casing point. Convert to a LSND mud to log and run pipe. Treat for lost circulation as necessary. Obtain 100% returns prior to cementing. Notify Engineering of any mud losses. Use air w/Air Hammer from 7-5/8in. csg.to TD.
- B. <u>BOP TESTING:</u> 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:

CASING TYPE	OH SIZE (IN)	DEPTH (MD) (FT)	CASING SIZE (IN)	WEIGHT(LB)	GRADE
Surface	14 3/4	300	 10 3/4	40.5	K-55
Intermediate	9 7/8	3,971	7 5/8	26.4	K-55
Longstring	6 3/4	8,511	5 1/2	17	N-80

#### B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 10 3/4" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (4) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 7 5/8" cement nose guide shoe with a self-fill insert float. Place float collar one joint above the shoe. Install (1) Turbulent centralizer on each of the bottom (3) joints and one standard centralizer every (3) joints to 2,500 ft. Run (1) Turbulent centralizer at 2,700 ft., 2,500 ft., 2,300ft., 2,000ft., 1,500 ft., and 1,000 ft. (NTL-FRA 90-1).
- 3. <u>PRODUCTION LINER / CASING:</u> 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place marker joint above 5,400'. Place centralizers as needed across selected production intervals.

#### C. CEMENTING:

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

- 1. SURFACE: Slurry: 290sx (521 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.
- INTERMEDIATE: Lead 525 sx (1430 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.). NO EXCESS PUMP AS WRITTEN SHOULD CIRCULATE TO SURFACE Total volume = 1548 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface
- 3. PRODUCTION CASING: 10 bbl Gelled Water spacer. Cement: 375 sx (525 ft³) of "FRACCEM" + 0.8% Halad-9 + 0.1% CFR-3 + 5 #/sk Gilsonite + 0.125 #/sk Poly-E-Flake + 0.15% HR-800. (Yield =1.398 ft³/sk, Weight = 13.1 #/gal.). Displace cement at a minimum of 8 BPM. NO EXCESS SHOULD COVER 150 FEET INTO 7-5/8" CASING Total volume (525) ft³. WOC 12 hours.

#### IV. IV COMPLETION

#### A. CBL

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings if cement not circulated to surface..

#### B. PRESSURE TEST

1. Pressure test 5-1/2" casing to 6000 psi max, hold at 1500 psi for 30 minutes.

#### Rosa #181D MVMCDK Ops Plan

#### C. STIMULATION

- 1. Stimulate Dakota with approximately 10,000# of LiteProp 108™ sand in slick water.
- 2. Isolate Dakota with a RBP.
- 3. Perforate Mancos as determined from the open hole logs
- 4. Stimulate Mancos with 3 stages of approximates 117,000# 40/70 white sand and 7500# 100 mesh white sand
- 5. Stimulate Point Lookout with approximately 9300# of 14/30 LiteProp™ in slick water.
- 6. Isolate Point Lookout with a RBP.
- 7. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 8. Stimulate with approximately 9300# of 14/30 LiteProp™ in slick water.
- 9. Test each zone before removing bridge plugs.

#### D. RUNNING TUBING

1. <u>Production Tubing:</u> Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 25' above the bottom Point Lookout perforation

Gary Sizemore

Sr. Drilling Engineer



# **Drilling Services**

# **PROPOSAL**



WILLIAMS PRODUCTION COMPANY ROSA UNIT #181-D RIO ARRIBA COUNTY, NEW MEXICO WELL FILE: **PLAN 1** 

Submitted: June 15, 2009

Weatherford International Ltd. P.O. Box 61028 Midland, Texas 79711 USA +1.432.561.8892 Main +1.432.561.8895 Fax www.weatherford.com



ROSA UNIT #181D RIO ARRIBA COUNTY, NM

A COLOR CONTROL OF THE COLOR C

#### SITE DETAILS

Rosa Unit #181-D 1230' FNL & 730' FEL

Site Centre Latitude: 36°54'12.740N Longitude: 107°26'37.390W

KB ELEV 6282' -GR ELEV: 6268'

Ground Level: 6268.00 Positional Uncertainty: 0.00 Convergence: -0.72

Γ	_					SECTION	DETAILS				
	Sec	MD	Inc	Azi	TVD	+N/-S	+Ē/-W	DLeg	TFace	VSec	Target
	1	0.00	0.00	333.23	0.00	0.00	0 00	0 00	0 00	0.00	
	2	400 00	0.00	333.23	400.00	0.00	0.00	0.00	0 00	0.00	
	3	1288.11	35.52	333.23	1232.29	238.04	-120.09	4.00	333.23	266.61	
	4	2787.11	35.52	333.23	2452.28	1015.67	-512.40	0 00	0.00	1137.60	
	5	3971.25	0 00	333.23	3562.00	1333 05	-672,52	3.00	180.00	1493 08	Int. Csg. Pt.
	6	8331 25	0.00	333.23	7922 00	1333 05	-672.52	0.00	333.23	1493.08	PBHL
_											

WELL DETAILS

+E/-W Northing Easting Longitude 0 00 2150366 52 1291402.35 36°54'12 740N 107°26'37.390W 181-D

_													
			7	ARGET D	PTAILS								
	The state of the s												
	Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape						
						_							
	Rosa #12	0 00	-36 00	257.16	36°54'12 384N	107°26'34.224W	Point						
	Int Csg. Pt.	3562 00	1333.05	-672.52	36°54'25 920N	107°26'45 670W	Point						
	PRHI.	7922.00	1333.05	-672 52	36°54'25 920N	107°26'45 670W	Point						

CASING DETAILS

TT-F41 - 4

No.	TVD	MD	Name	Size
1 2	300.00 3562.00	300.00 3971 25	10 3/4" 7 5/8"	10.750 7 625

#### FIELD DETAILS

Rio Arriba Co., NM (NAD 83)

Geodetic System. US State Plane Coordinate System 1983 Ellipsoid: GRS 1980 Zone: New Mexico, Central Zone Magnetic Model: igrf200510

FORMATION TOP DETAILS

No. TVDPath MDPath Formation

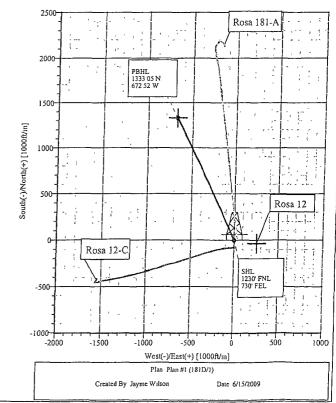
System Datum. Mean Sea Level Local North: True North

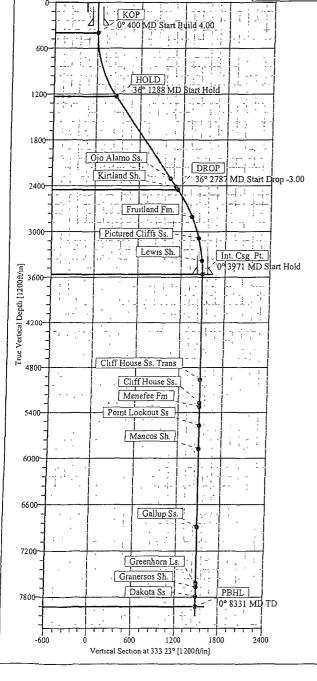
# Azimuths to True North Magnetic North 10.01° Magnetic Field Strength: 51149nT Dip Angle, 63 72° Date 6/11/2009 Model: 1grf200510 rection to Fine North 1001" LEGEND 12-C (1) 181-A (1)

1	2307 00	2608.60	Ojo Alamo Ss.
2	2412 00	2737.61	Kirtland Sh.
3	2807 00	3195 06	Fruitland Fm.
4	3087.00	3491 21	Pictured Cliffs Ss.
5	3382.00	3790.98	Lewis Sh.
6	4962.00	5371.25	Cliff House Ss. Trans.
7	5272.00	5681 25	Cliff House Ss.
8	5322 00	5731.25	Menefee Fm
9	5572 00	5981 25	Point Lookout Ss.
10	5877.00	6286.25	Mancos Sh.
11	6887.00	7296 25	Gallup Ss.
12	7617 00	8026 25	Greenhorn Ls.
13	7667.00	8076.25	Granersos Sh.
14	7792.00	8201 25	Dakota Ss.

Plan #1

#### VERTICAL SECTION AZ 333 23° Az









Company: WILLIAMS PRODUCTION Field: RiciArriba Co., NM (NAD:83)\* Site: Rosa Unit #181-D Well: 181-D Well: 181-D

Plan #1

Plan:

Principal:

Date: 6/15/2009 Time: 18.03.31 Page: 1: Co-ordinate(NE) Reference: Well: 181-D, True North: Vertical (TVD) Reference: SITE 6282.0 Section (VS) Reference: Well: (0.00N; 0.00E, 333.23Azi)

Survey Calculation Method:

Minimum Curvature Db: Sybase Date Composed: 6/11/2009

Version: Tied-to: From Surface

Field: Rio Arriba Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983

Geo Datum: GRS 1980 Sys Datum: Mean Sea Level Map Zone: New Mexico, Central Zone

Coordinate System: Well Centre Geomagnetic Model: igrf200510

Site Rosa Unit #181-D

1230' FNL & 730' FEL

Site Position: Geographic From: Position Uncertainty:

Northing: 2150366.52 ft 1291402.35 ft Easting:

Latitude Longitude:

36 54 12.740 N 37.390 W 107 26

North Reference: True -0.72 deg Grid Convergence:

Well: 181-D Slot Name:

Well Position: +N/-S +E/-W

0.00 ft Northing: 0.00 ft Easting: 0.00 ft

51149 nT

0.00 ft

6268.00 ft

2150366.52 ft 1291402.35 ft

36 54 12.740 N Latitude: 107 26 37.390 W Longitude:

Position Uncertainty:

Wellpath: 1 Current Datum:

Magnetic Data:

Field Strength:

Ground Level:

SITE 6/11/2009 Height 6282.00 ft

Tie-on Depth: Above System Datum:

Drilled From:

0.00 ft Mean Sea Level 10.01 deg

Surface

Declination: Mag Dip Angle: +N/-S +E/~W

63.72 deg Direction deg

Vertical Section: Depth From (TVD) ft ft ft 0.00 0.00

0.00 333.23

#### Plan Section Information

	11111	11011									
MD ft	Incl- deg	Azim deg	TVD:	+N/-S; ft`	+ <b>E</b> /- <b>W</b>	DLS deg/100ft	Build deg/100ft	Turn deg/100ft		Target	
0 00	0.00	333.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
400.00	0.00	333.23	400.00	0.00	0.00	0.00	0.00	0.00	0.00		
1288.11	35.52	333.23	1232.29	238.04	-120.09	4.00	4.00	0.00	333.23		
2787.11	35.52	333.23	2452.28	1015.67	<i>-</i> 512.40	0.00	0.00	0.00	0.00		
3971.25	0.00	333.23	3562 00	1333.05	-672.52	3 00	-3.00	0.00	180.00	Int. Csg. Pt	
8331.25	0.00	333.23	7922.00	1333.05	-672.52	0.00	0.00	0.00	333.23	PBHL	

#### Survey

, MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft.	VS ft	Build deg/100ft	Turn deg/100ft	DLS deg/100ft	TFO deg	Commen
300.00	0.00	333.23	300.00	0.00	0.00	0.00	0.00	0.00	0.00	333.23	
400.00	0.00	333.23	400.00	0.00	0.00	0.00	0.00	0.00	0 00	333.23	KOP
500.00	4.00	333.23	499.92	3.12	-1.57	3.49	4.00	0.00	4.00	0.00	
600.00	8.00	333.23	599.35	12.45	-6.28	13.94	4.00	0.00	4.00	0.00	
700.00	12.00	333.23	697.81	27.95	-14.10	31.30	4.00	0.00	4.00	0.00	
800.00	16.00	333.23	794.82	49.54	-24.99	55.49	4.00	0.00	4.00	0.00	
900.00	20.00	333.23	889.91	77.12	-38.91	86.38	4.00	0.00	4.00	0.00	
1000.00	24.00	333.23	982.61	110.56	-55.78	123.84	4.00	0.00	4.00	0.00	
1100.00	28.00	333.23	1072.47	149.69	-75.52	167.67	4.00	0.00	4.00	0.00	
1200.00	32.00	333.23	1159.05	194.33	-98.04	217.66	4.00	0 00	4.00	0.00	
1288.11	35.52	333.23	1232.29	238.04	-120.09	266.61	4.00	0.00	4.00	0.00	HOLD
1300.00	35.52	333.23	1241 97	244.21	-123.20	273.52	0.00	0.00	0.00	0.00	
1400.00	35,52	333.23	1323.36	296.08	-149.37	331.63	0.00	0.00	0.00	0.00	
1500 00	35,52	333 23	1404.74	347.96	-175.54	389.73	0.00	0 00	0 00	0 00	
1600.00	35.52	333 23	1486.13	399.84	-201.72	447.84	0.00	0 00	0.00	0.00	





The		Survey												
1800.00   38.52   333.23   1189.37   555.47   280.25   627.15   0.00   0.00   0.00   0.00	2000	MD ft			TVD ft	ŇS ft	É/W ft	VS ft	Build deg/100ft				Comi	nent
1900.00   35.52   333.23   2181.6   680.73   4 - 306.4   680.2   6 - 300.0   0.00   0.00   0.00   0.00   0.00														
2000.00   35.52   333.23   1811.68   607.34   -306.40   680.26   0.00   0.00   0.00   0.00   0.00														
200,00   35.52   333.23   1893.07   659.22   -332.57   738.36   0.00														
2200.00 35.52 333.23 1974.45 711.10 -358.75 798.47 0.00 0.00 0.00 0.00 0.00 2000 2000 35.52 333.23 21372.33 814.85 411.09 912.67 0.00 0.00 0.00 0.00 0.00 0.00 2200.00 35.52 333.23 21372.33 814.85 411.09 912.67 0.00 0.00 0.00 0.00 0.00 0.00 2200.00 35.52 333.23 2218.61 866.73 437.28 970.78 0.00 0.00 0.00 0.00 0.00 0.00 2200.00 35.52 333.23 2200.00 918.60 463.43 1028.88 0.00 0.00 0.00 0.00 0.00 0.00 0.0	П													
200.00 33.5.2 333.23 2055.84 762.97 -394.92 854.57 0.00 0.00 0.00 0.00 0.00 2000 2500.00 3.5.52 333.23 2173.73 814.85 411.09 912.67 0.00 0.00 0.00 0.00 0.00 0.00 2500.00 3.5.52 333.23 2300.00 918.60 468.43 1028.89 0.00 0.00 0.00 0.00 0.00 0.00 2500.00 3.5.52 333.23 2300.00 918.60 468.43 1028.89 0.00 0.00 0.00 0.00 0.00 0.00 0.00	П	2100.00	33.32	333,23	1093.07	009.22	2 -332.3	1 130.30	0.00	0.00	0.00	0.00		
2600.00 33.52 333.23 218.61 868.73 437.26 970.78 0.00 0.00 0.00 0.00 0.00 2600.00 35.52 333.23 228.61 868.73 437.26 970.78 0.00 0.00 0.00 0.00 0.00 0.00 2600.00 35.52 333.23 2300.00 918.60 468.43 1028.88 0.00 0.00 0.00 0.00 0.00 0.00 0.0														
2500.00 35.52 333.23 2218.61 866.73 437.26 970.78 0.00 0.00 0.00 0.00 0.00 0.00 0.00														
2600.00 35.52 333.23 2300.00 918.60 468.43 1028.85 0.00 0.00 0.00 0.00 0.00 DROP  2707.11 35.52 333.23 245.28 1015.67 -512.40 1137.60 0.00 0.00 0.00 0.00 0.00 DROP  2800.00 35.14 333.23 2462.80 1022.33 -515.76 1145.00 -3.00 0.00 3.00 180.00 30.00 32.14 333.23 2462.80 1022.33 -515.76 1145.00 -3.00 0.00 3.00 180.00 30.00 32.14 333.23 2560.00 1021.78 -50.71 1200.45 -3.00 0.00 3.00 180.00 30.00 32.14 333.23 2560.00 1171.78 -563.66 1251.40 -3.00 0.00 3.00 180.00 30.00 32.14 333.23 2560.00 1171.78 -563.66 1251.40 -3.00 0.00 3.00 180.00 30.0														
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3970.00		3700.00	8.14	333.23	3291.66	1315.88	-663.86	1473.86	-3.00		3 00	180.00		1
3971.25		3800.00	5.14		3390.98	1326.20	-669.06	1485.41	-3.00		3.00			
4000.00         0.00         333.23         3590.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23         4200.00         0.00         333.23         3690.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23         3400.00         0.00         0.00         0.00         0.00         0.00         333.23         3400.00         333.23         490.05         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23         4800.00         0.00         0.00         0.00         333.23         4800.00         0.00         0.00         0.00			2.14										_	
4100.00       0.00       332.23       3690.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4200.00       0.00       333.23       3890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4300.00       0.00       333.23       3890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4500.00       0.00       333.23       4990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4600.00       0.00       333.23       4190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4700.00       0.00       333.23       4290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4800.00       0.00       333.23       4390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4900.00       0.00       333.23       4590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00		3971.25	0.00	333.23	3562.00	1333.05	-672.52	1493.08	-3.00	0.00	3.00	180.00	Int. Csg. Pt.	
4200.00       0.00       333.23       3790.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4300.00       0.00       333.23       3890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4500.00       0.00       333.23       490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4500.00       0.00       333.23       490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4600.00       0.00       333.23       490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4700.00       0.00       333.23       4290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4900.00       0.00       333.23       4490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5000.00       0.00       333.23       4590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00		4000.00												
4300 00         0.00         333.23         3890.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           4400.00         0.00         333.23         3990.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           4500.00         0.00         333.23         4490.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           4600.00         0.00         333.23         4490.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           4800.00         0.00         333.23         4490.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           4900.00         0.00         333.23         4490.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           5000.00         0.00         333.23         4590.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           5000.00         0.00         333.23														
4400.00       0.00       333 23       3990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4500.00       0.00       333.23       4090.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4700.00       0.00       333.23       4290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4800.00       0.00       333.23       4390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4900.00       0.00       333.23       4390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4900.00       0.00       333.23       4490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5000.00       0.00       333.23       4590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5100.00       0.00       333.23       4890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00														
4500.00         0.00         333.23         4090.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23         4490.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23         23         4290.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23         4800.00         0.00         0.00         0.00         0.00         333.23         4800.00         0.00         0.00         0.00         0.00         333.23         4800.00         0.00         0.00         0.00         0.00         333.23         4800.00         0.00         0.00         0.00         0.00         333.23         4800.00         0.00         0.00         0.00         0.00         0.00         333.23         4800.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23         4590.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23         4590.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23         5200.00         0.00         333.23         4990.75	Ì													ı
4600.00       0.00       333.23       4190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23       4290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23       4490.00       0.00       333.23       4490.00       0.00       333.23       4490.00       0.00       333.23       4490.00       0.00       333.23       4490.00       0.00       0.00       0.00       0.00       333.23       333.23       333.05       -672.52       1493.08       0.00       0.00       0.00       333.23       333.23       333.23       333.23       4490.00       0.00       0.00       0.00       0.00       333.23       333.23       333.05       -672.52       1493.08       0.00       0.00       0.00       333.23       333.23       333.23       4590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23       333.23       333.23       4590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23       333.23       333.23       333.23       333.23       333.23       333.23       333.23       333.23       333.23       333.23       333.23       333.		4400.00	0.00	333 23	3990.75	1333.05	-072.32	1493,00	0.00	0.00	0.00	333.23		
4700.00       0.00       333.23       4290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         4800.00       0.00       333.23       4390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5000.00       0.00       333.23       4590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5000.00       0.00       333.23       4590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5100.00       0.00       333.23       4690.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5200.00       0.00       333.23       4890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5400.00       0.00       333.23       4890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5500.00       0.00       333.23       590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00														
4800.00       0.00       333.23       4390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5000.00       0.00       333.23       4490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5000.00       0.00       333.23       4590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5100.00       0.00       333.23       4690.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5200.00       0.00       333.23       4790.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5300.00       0.00       333.23       4990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5400.00       0.00       333.23       590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5700.00       0.00       333.23       5190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00														
4900.00       0.00       333 23       4490.75       1333.05       -672.52       1493.08       0 00       0.00       0.00       333.23         5000.00       0.00       333.23       4590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5000.00       0.00       333.23       4690.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5300.00       0.00       333.23       4890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5400.00       0.00       333.23       4890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5400.00       0.00       333.23       590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5500.00       0.00       333.23       5190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5700.00       0.00       333.23       5190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00														
5000.00         0.00         333.23         4590.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           5100.00         0.00         333.23         4690.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           5200.00         0.00         333.23         4790.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           5300.00         0.00         333.23         4890.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           5400.00         0.00         333.23         4990.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           5500.00         0.00         333.23         5990.75         1333.05         -672.52         1493.08         0.00         0.00         333.23           5600.00         0.00         333.23         5990.75         1333.05         -672.52         1493.08         0.00         0.00         0.00         333.23           5700.00         0.00         333.23         5990.75														
5100.00       0.00       333.23       4690.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5200.00       0.00       333.23       4790.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5300.00       0.00       333.23       4890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5400.00       0.00       333.23       4990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5500.00       0.00       333.23       590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5600.00       0.00       333.23       5190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5700.00       0.00       333.23       5290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5800.00       0.00       333.23       5390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00														
5200.00       0.00       333.23       4790 75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5300.00       0.00       333.23       4890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5400.00       0.00       333.23       4990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5500.00       0.00       333.23       5090.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5600.00       0.00       333.23       5190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5700.00       0.00       333.23       5290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5800.00       0.00       333.23       5390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5900.00       0.00       333.23       5490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00	ĺ													
5300.00       0.00       333.23       4890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5400.00       0.00       333.23       4990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5500.00       0.00       333.23       5090.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5600.00       0.00       333.23       5190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5700.00       0.00       333.23       5290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5800.00       0.00       333.23       5390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5900.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6000.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00														
5400.00       0.00       333.23       4990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5500.00       0.00       333.23       5090.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5600.00       0.00       333.23       5290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5700.00       0.00       333.23       5390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5800.00       0.00       333.23       5390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5900.00       0.00       333.23       5490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6000.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6100.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00	İ													
5600.00       0.00       333.23       5190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5700.00       0.00       333.23       5290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5800.00       0.00       333.23       5390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5900.00       0.00       333.23       5490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6000.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6100.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6200.00       0.00       333.23       5790.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6300.00       0.00       333.23       5890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00														
5600.00       0.00       333.23       5190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5700.00       0.00       333.23       5290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5800.00       0.00       333.23       5390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5900.00       0.00       333.23       5490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6000.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6100.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6200.00       0.00       333.23       5790.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6300.00       0.00       333.23       5890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00		5500.00	0.00	333 23	5090 75	1333.05	-672 52	1493.08	0.00	0.00	0.00	333.23		
5700.00       0.00       333.23       5290.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5800.00       0.00       333.23       5390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5900.00       0.00       333.23       5490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6000.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6100.00       0.00       333.23       5690.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6200.00       0.00       333.23       5790.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6300.00       0.00       333.23       5890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6400.00       0.00       333.23       5890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00	j													$\parallel$
5800.00       0.00       333 23       5390.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         5900.00       0.00       333.23       5490.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6000.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6100.00       0.00       333.23       5690.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6200.00       0.00       333.23       5790.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6300.00       0.00       333.23       5890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6400.00       0.00       333.23       5990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6500.00       0.00       333.23       6990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00	ĺ													
6000.00       0.00       333.23       5590.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6100.00       0.00       333.23       5690.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6200.00       0.00       333.23       5790.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6300.00       0.00       333.23       5890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6400.00       0.00       333.23       6990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6500.00       0.00       333.23       6190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23			0.00								0.00			Ш
6100.00       0.00       333.23       5690.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6200.00       0.00       333.23       5790.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6300.00       0.00       333.23       5890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6400.00       0.00       333.23       5990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6500.00       0.00       333.23       6190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23		5900.00	0.00	333.23	5490.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		Ш
6100.00 0.00 333.23 5690.75 1333.05 -672.52 1493.08 0.00 0.00 0.00 333.23 6200.00 0.00 333.23 5790.75 1333.05 -672.52 1493.08 0.00 0.00 0.00 333.23 6300.00 0.00 333.23 5890.75 1333.05 -672.52 1493.08 0.00 0.00 0.00 333.23 6400.00 0.00 333.23 6990.75 1333.05 -672.52 1493.08 0.00 0.00 0.00 333.23 6500.00 0.00 333.23 6090.75 1333.05 -672.52 1493.08 0.00 0.00 0.00 333.23 6600.00 0.00 333.23 6190.75 1333.05 -672.52 1493.08 0.00 0.00 0.00 333.23		6000.00	0.00	333.23	5590.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
6200.00       0 00       333 23       5790.75       1333.05       -672.52       1493.08       0 00       0.00       0.00       333.23         6300.00       0.00       333.23       5890.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6400.00       0.00       333.23       5990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6500.00       0.00       333.23       6190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6600.00       0.00       333.23       6190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23		6100.00		333.23	5690.75	1333.05	-672.52		0.00	0.00				
6400.00       0.00       333.23       5990.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6500.00       0.00       333.23       6090.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23         6600.00       0.00       333.23       6190.75       1333.05       -672.52       1493.08       0.00       0.00       0.00       333.23			0 00	333 23										
6500.00														11
6600.00 0.00 333.23 6190.75 1333.05 -672.52 1493.08 0.00 0.00 0.00 333.23		6400.00	0.00	333.23	5990.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
6600.00 0.00 333.23 6190.75 1333.05 -672.52 1493.08 0.00 0.00 0.00 333.23				333.23							0.00			
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		6700.00	0.00	333.23	6290.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		_





Company: WILLIAMS PRODUCTION Date: 6/15/2009 Time: 18:03:31 Page: 43
Field: Rio Afriba Co. NM (NAD 83) Co-ordinate(NE) Reference: Well: 18:10 True North
Site: Rosa Unit #181-D Vertical (TVD) Reference: SITE 6282:08
Well: 18:10 Section (VS) Reference: Well (0:00N 0:00E;333:23AZ)
Wellpath: 1: Survey Calculation Method: Minimum Curvature Db. Sybase

Survey

l	Durvey							1					
ting.	MD.	Incl	Azim	TVD	N/S	E/W	. VS	Build	Turn 🚉	DLS.	TFO		Comment
1	<b>新兴和各种政策</b>	V deg ;	deg	发展[1]。	ASSET STATE		是為用資子	deg/100ft	deg/100ft	deg/100ft	deg (		性的
	6800.00	0.00	333.23	6390.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333,23		
	6900.00	0.00	333.23	6490.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
	7000.00	0.00	333.23	6590.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
	7100.00	0.00	333.23	6690.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333,23		
	7200.00	0.00	333.23	6790.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
1	7300.00	0.00	333.23	6890.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		- 1
	7400.00	0.00	333.23	6990.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
	7500.00	0.00	333.23	7090.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
	7600.00	0.00	333.23	7190.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		1
	7700.00	0.00	333.23	7290.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
	7800.00	0.00	333.23	7390.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		1
	7900.00	0.00	333.23	7490.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
	8000.00	0.00	333.23	7590.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
	8100.00	0.00	333.23	7690.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		
1	8200.00	0.00	333.23	7790.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		ľ
1	8300.00	0.00	333.23	7890.75	1333.05	-672.52	1493.08	0.00	0.00	0.00	333.23		ĺ
1	8331.25	0.00	333.23	7922.00	1333.05	-672.52	1493.08	0.00	0 00	0.00	333.23	PBHL.	Ī
1													

#### Targets

Name Descript	lon TVD	+N/-S ft	+É/-W ft	Map Map Northing Easting	< De	Latitude> Min Sec	<pre>&lt; Longitude&gt; Deg Min Sec</pre>
Rosa #12	0.00	-36.00	257.16	2150327.301291659.04	36	54 12.384 N	107 26 34.224 W
Int. Csg. Pt. -Plan hit target	3562.00	1333.05	-672.52	2151707.881290746.56	36	54 25.920 N	107 26 45.670 W
PBHL -Plan hit target	7922.00	1333.05	-672.52	2151707.881290746.56	36	54 25.920 N	107 26 45.670 W

#### **Formations**

MD ft	TVD (fts)	Formations	Lithology	Dip,Angle deg	Dip Direction
2608.60	2307.00	Ojo Alamo Ss.		0.00	0.00
2737.61	2412.00	Kirtland Sh.		0.00	0.00
3195.06	2807.00	Fruitland Fm.		0.00	0.00
3491.21	3087.00	Pictured Cliffs Ss.		0.00	0.00
3790.98	3382.00	Lewis Sh.		0.00	0.00
5371.25	4962.00	Cliff House Ss. Trans.		0.00	0.00
5681.25	5272.00	Cliff House Ss.	*	0.00	0.00
5731.25	5322.00	Menefee Fm.		0.00	0.00
5981.25	5572.00	Point Lookout Ss.		0.00	0.00
6286.25	5877.00	Mancos Sh.		0.00	0.00
7296 25	6887.00	Gallup Ss.		0.00	0.00
8026.25	7617.00	Greenhorn Ls.		0.00	0.00
8076.25	7667.00	Granersos Sh.		0.00	0.00
8201.25	7792.00	Dakota Ss.		0.00	0.00

#### Annotation

	MD ft	TVD ft		
П	400.00	400.00	KOP	
Ш	1288.11	1232.29	HOLD	
1	2787.11	2452.28	DROP	
П	3971.25	3562.00	Int. Csg. Pt.	
ļ	8331 24	7921.99	PBHL	
'	***********			





Company: WILLIAMS PRODUCTION Date: 6/15/2009 Time: 18:03:31 Page: 4 Field: Rio Arriba (Co. FNM) (NAD 83) Co-ordinate(NE) Reference: Well: 18:1-D. True North Vertical (TVD) Reference: SITE 6282.0 Section (VS) Reference: Well: (0:00N,0:00E,333.23Azi) Survey Calculation Method: Minimum Curvature Db: Sybase 1

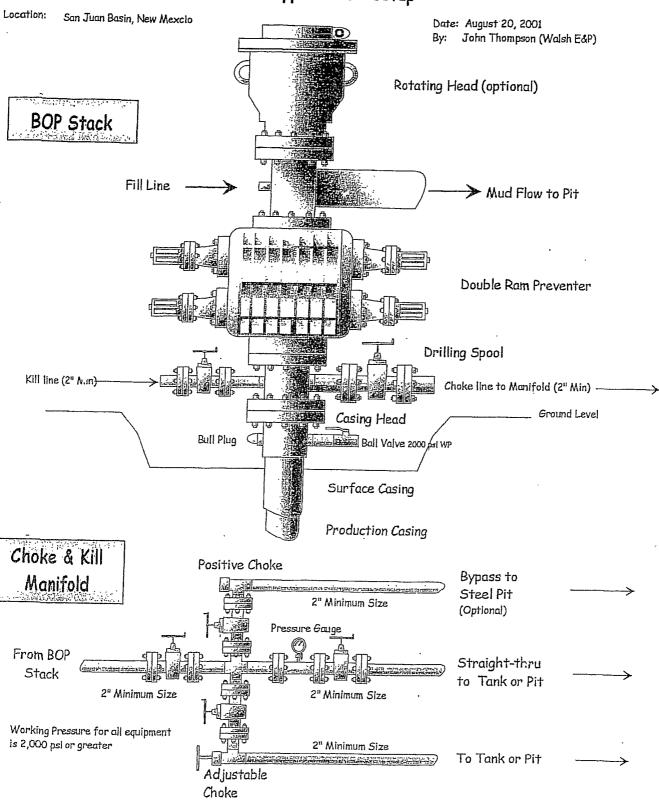
Casing Points

MD ft	TVD \	Diameter.	Hole Size	Name	
300.00	300.00	10.750	12.250	10 3/4"	
3971.25	3562.00	7.625	8.500	7 5/8"	

# Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

# Exhibit #1 Typical BOP setup



# MULTI-POINT SURFACE USE PLAN Rosa Unit #181D

# All Bureau of Land Management And All Bureau of Reclamation

# General Conditions of Approval And

Cultural Resource Requirements will Apply to this Action.

#### 1. Existing Roads:

All existing roads used to access the proposed location are shown on attached maps (Figures 1.0 and 2.0) and shall be maintained to Bureau of Land Management (BLM) and current Gold Book standards.

#### 2. Planned Access Roads:

No new access road will be required to reach the proposed well pad, as it will be twinned with the existing Rosa Unit #s 12, 12C, and 181A well pad. The existing access roads will be upgraded, maintained, and eventually reclaimed as detailed in the approved COAs.

# Location of Existing Wells:

Attached map (Figure 2.0) shows existing wells within a one-mile radius of the proposed wells.

## 4. <u>Location of Production Facilities:</u>

In the event of production, production facilities will be located on the drill pad. The actual placement of this equipment will be determined when the well's production characteristics can be evaluated after completion. Upon completion of drilling, the location and surrounding area will be cleared of all debris.

#### 5. Water Supply:

➤ Water for drilling and completion operations will be hauled by truck from various water sources within the area, mainly from Navajo Lake, NM and produced water from locations close to the proposed location. Water haulers would be licensed and bonded as per BOR requirements. Reference BLM letter 3162.3-2.

## 6. Source of Construction Materials:

No additional construction materials will be required for the proposed well location.

### 7. Methods for Handling Waste Disposal:

- a. Drilling and completion would use a closed-loop system, as per NMOCD requirements. The closed-loop system would be located in the southwestern corner of the well pad. Upon completion, the closed-loop system area and all areas of the well pad not needed for production will be ripped and reseeded with either a specified Farmington Field Office, Bureau of Land Management (FFO/BLM) seed mixture, or a Bureau of Reclamation seed mixture.
- b. All garbage and trash will be placed in a metal trash basket. It will be hauled off and dumped in an approved landfill upon completion of operations.
- c. Portable toilets will be provided and maintained during drilling operations. See Plat #3 for location.

## 8. Ancillary Facilities:

Ancillary facilities are to be based on well productivity. A 59.00-foot  $4\frac{1}{2}$  OD gas pipeline is anticipated for the proposed well. The pipeline will be entirely within the proposed and existing well pad disturbance. The Rosa #181D pipeline will tie into the existing Rosa Unit #12C Pipeline.

## 9. Well Site Layout:

A cross section of the drill pad with approximate cuts, fills, and pad orientation is attached as Plat #1. Location of drilling equipment and rig orientation is also attached as Plat #3.

#### Plans for Restoration of Surface:

#### Well Pad

- Utilize the existing 250-foot (north to south) by 195-foot (east to west) level well pad. No construction zone would be required for this well. The proposed well will be entirely contained within the existing Rosa Unit #s 12, 12C, and 181A well pad. No new disturbance will be required.
- No construction or drilling will be permitted during the winter closure period; 1<sup>st</sup> December through 31<sup>st</sup> March, for the Rosa Mesa Wildlife SDA.
- > All pits would meet State of New Mexico, Oil Conservation Division (NMOCD) pit guidelines and rules, NMAC 19.15.17.
- > Water haulers would be licensed and bonded as per Bureau of Reclamation requirements.
- > Drilling and completion would use a closed-loop system, as per NMOCD requirements. The closed-loop system would be located in the southwestern corner of the well pad.
- > All production equipment would be low profile.
- > Existing and proposed production equipment would be consolidated.
- > Existing and proposed production pits would be consolidated.
- > The original reserve pit area would be cleaned with a small dozer, creating a berm along the north side of the closed-loop system area. This berm would serve as a secondary containment.
- > Upon final reclamation of the closed-loop system area would be recontoured to the existing terrain.
- > All areas of the existing well pad would be recontoured to match the natural terrain, to the extent possible.
- > All areas that are used would be ripped and re-seeded.
- > All disturbed areas not needed for production would be seeded with a BOR specified seed mixture, containing native species only.
- > Above-ground structures would be painted to blend with the natural color of the landscape (Juniper Green Federal Standard 595a-17127).
- > Existing access road to the main road would be upgraded to meet Gold Book standards.
- > An additional access road may be constructed along the southeastern side of the well pad (between A' and B') to accommodate drilling and completion. This road would then be reclaimed as part of the cut slope.
- > All cultural resource stipulations would be followed.

- > Well production activities would be in compliance with NTL 04-2 FFO, given the project location within a Noise Sensitive Area. and
- All disturbed areas not needed for production will be seeded with either a specified Farmington Field Office, Bureau of Land Management (FFO/BLM) seed mixture, or a Bureau of Reclamation seed mixture.

#### <u>Pipeline Tie</u>

- The proposed pipeline tie will be constructed entirely within the existing and proposed well pad disturbances.
- The pipeline will be owned and operated by Williams Four Corners, LLC, under a right-of-way (ROW) grant from the Bureau of Reclamation Mexico.
- There will be no new disturbance by the pipeline tie.

#### <u>General</u>

- Williams Production and Williams Field Services will be responsible for control of invasive species and noxious weeds within the reclaimed areas of the well pad, access road, and pipeline tie,
- All pits will be fenced to exclude livestock and wildlife,
- Pits that contain petroleum will be netted to exclude birds, especially any protected under the Migratory Bird Treaty Act,
- If impacts to management indicator species or migratory birds, nests, or eggs are observed during implementation, the FFO/BLM or the Bureau of Reclamation will be notified, and specific mitigation measures directed at the species' needs will be implemented under the direction of the FFO/BLM or the Bureau of Reclamation,
- All aspects of the proposed action will be in compliance with all applicable federal and State of New Mexico regulations, and
- All aspects of the proposed action will conform to Farmington Field Office Noise NTL (NTL 04-02 FFO) standards.

# 11. <u>Surface Ownership:</u>

The surface ownership of the proposed well pad and well-tie pipeline is the Bureau of Reclamation.

#### 12. Other Information:

The proposed project area is located on a mid-elevation west, southwestern facing terrace above the San Juan River Arm of Navajo Reservoir. The project area drains to the southwest into the San Juan River Arm of Navajo Reservoir (approximately 700 feet west of the proposed project area). Topography of the proposed project area consists of a smooth, gentle southwestern slope. No new disturbance would be required for the proposed well. Vegetation within the proposed project area is piñon/juniper woodland with sagebrush shrubland. Understory vegetation is composed of big sagebrush, rabbitbrush, antelope bitterbrush, broom snakeweed, cheatgrass, galleta, blue grama and smooth brome. Crested wheatgrass and Russian thistle are present in previously disturbed areas.

All FFO/BLM and Bureau of Reclamation General Conditions of Approval will apply to this action.

There are no residents within a one-mile radius of the proposed action.

The proposed well pad will not impact any floodplains, riparian, springs, or stock ponds. There are no ephemeral washes that will be impacted.

The proposed Rosa Unit #181D Project has been surveyed by La Plata Archaeological Consultants. Copies of this report have been sent to the Bureau of Reclamation and the FFO/BLM.

## 13. Lessee's or Operator's Representative:

Larry Higgins
Drilling COM
P.O. Box 640
Aztec, NM 87410
Phone: (505) 634-4208
(505) 320-4314

Figure 1: Vicinity Map Williams Production Company, LLC Proposed Rosa Unit No. 181D T31N, R06W, Section 15 NMPM Rio Arriba County, New Mexico

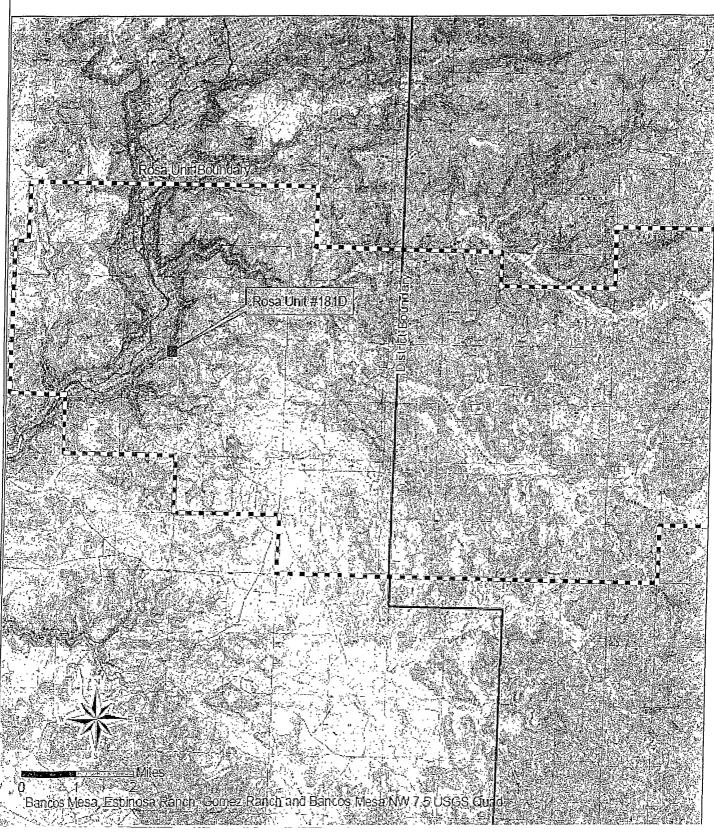
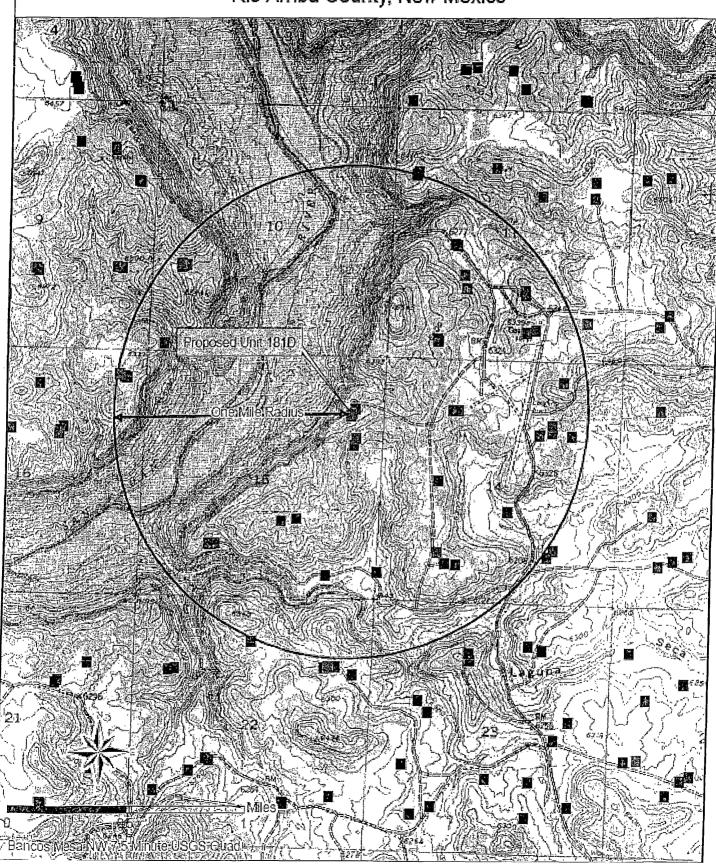
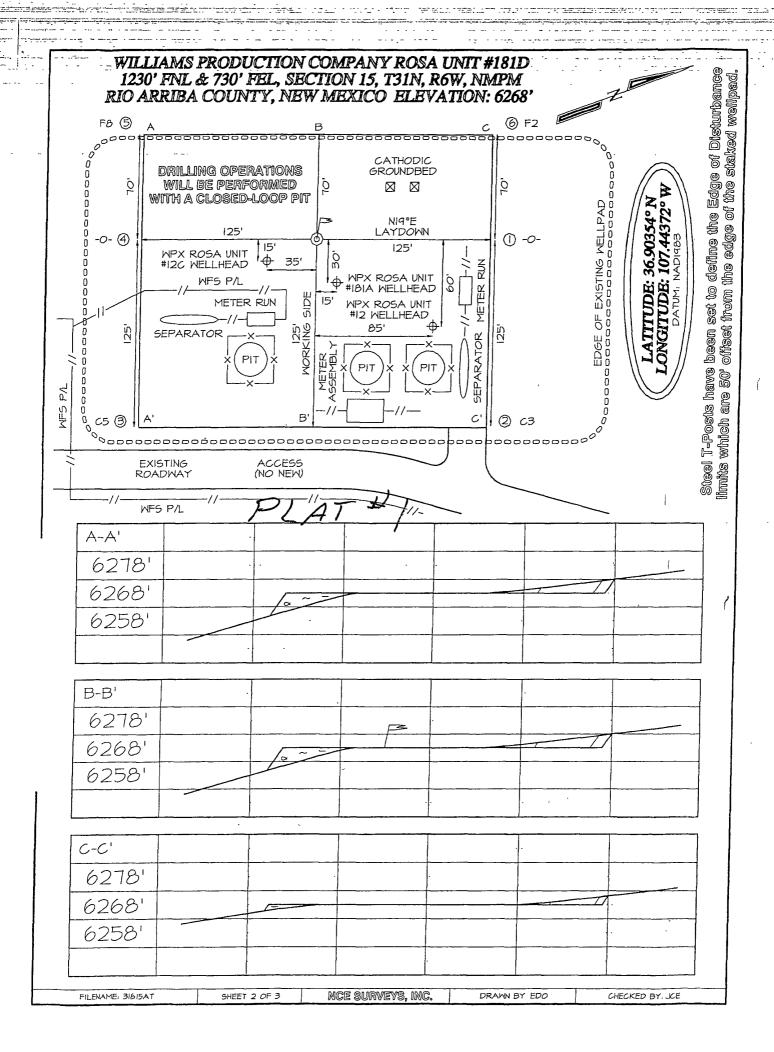
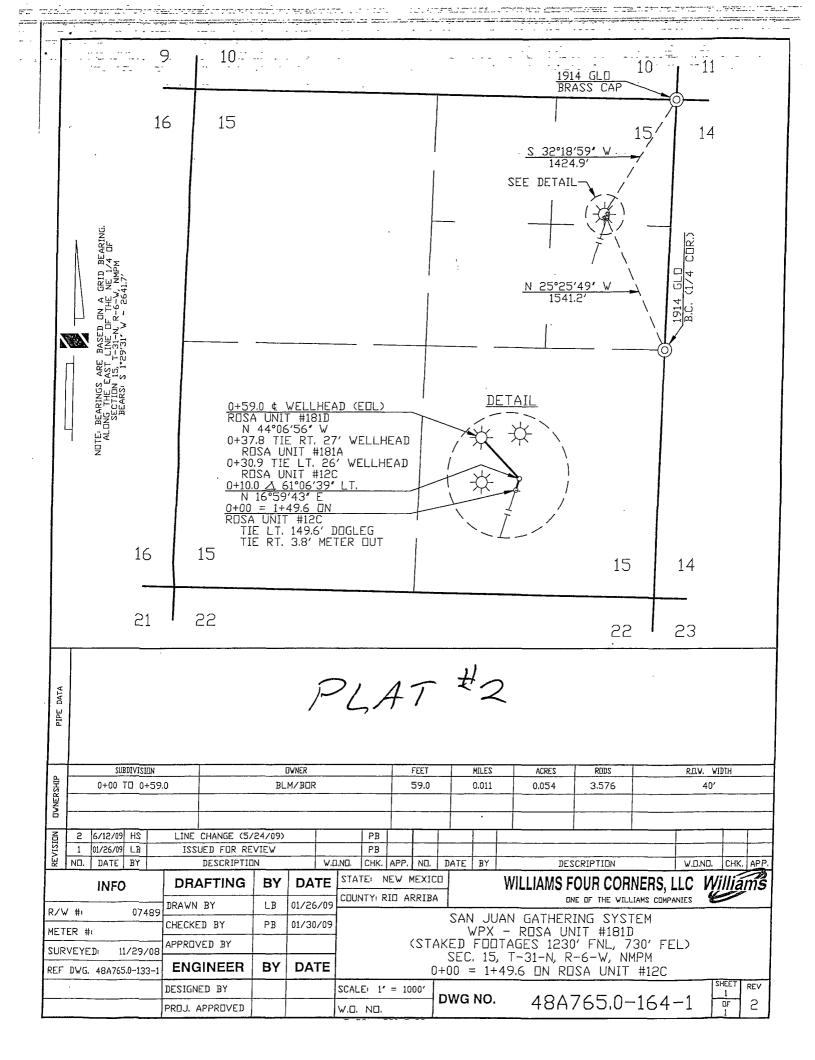
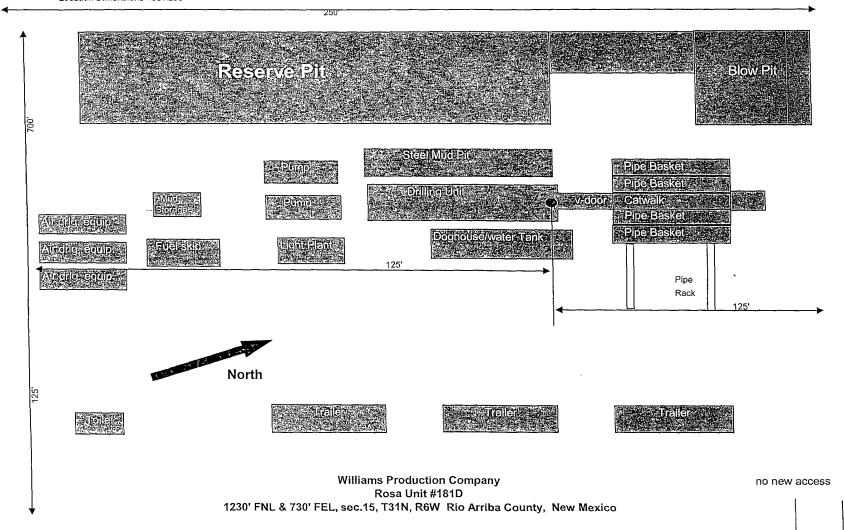


Figure 2: Project Area Map Williams Production Company, LLC Proposed Rosa Unit No. 181D T31N, R06W, Section 15 NMPM Rio Arriba County, New Mexico



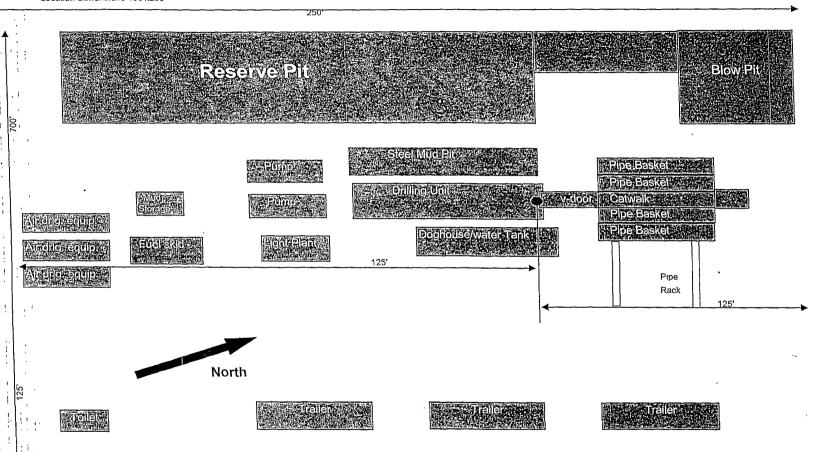






#### Plat #3 Location Diagram

Location Dimensions 195'x250'



Williams Production Company Rosa Unit #181D 1230' FNL & 730' FEL, sec.15, T31N, R6W Rio Arriba County, New Mexico

no new access