UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

ADDITION FOR REPORT TO DRILL OR REENTER

FORM APPROVED OMB No. 1004-0136 Expires January 31, 2004

5. Lease Serial No.

NMSF-078765 6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERIVIT TO D	KILL OK K	CENICK			
la. Type of Work: DRILL REENTI	ER			7. If Unit or CA Agreement	
1b. Type of Well: Oil Well Gas Well Other	⊠ s	ingle Zone	ple Zone	8. Lease Name and Well No 75B	·
2. Name of Operator				9. API Well No.	
Williams Production Company, LLC				30-045-3	<u> 33748 </u>
3a. Address	3b. Phone N	o. (include area code)	}	10. Field and Pool, or Explor	ratory
P.O. Box 640 Aztec, NM 87410		634-4208		Blanco Mesaverde	
4. Location of Well (Report location clearly and in accordance with an At surface 1815' FSL & 755' FWL ~ L		ents. *)		11. Sec., T., R., M., or Blk.	and Survey or Area
At proposed prod. zone 1980' FNL & 1960'FWL - F				L Section 10, 31N, 6W	
14. Distance in miles and direction from nearest town or post office*				12. County or Parish	13. State
approximately 30 miles northeast of Blanco, New Mexico				San Juan	NM
15. Distance from proposed*	16. No. of	Acres in lease	17. Spacing	Unit dedicated to this well	
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	2,46	0.23	319.	36 9 (W/2)	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Propos	•		IA Bond No. on file	7
750 21. Elevations (Show whether DF, KDB, RT, GL, etc.)	6,67	0 ximate date work will s	U108 tart*	47 UTB 600178 23. Estimated duration	<u> </u>
6,294' GR	1	1, 2006	tan t	1 month	
0,204 (1)		chments		T MONET	
			1 1. 41. (· · · · · · · · · · · · · · · · · · ·	
The following, completed in accordance with the requirements of Onsh	ore Oil and Gas	Order No.1, shall be att	ached to this i	orm:	
1. Well plat certified by a registered surveyor.			e operations	unless covered by an existing	ng bond on file (see
2. A Drilling Plan.	. 7 4 4	Item 20 above). 5. Operator certific	ation.		
 A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office) 			specific infor	mation and/or plans as may	be required by the
25. Signature	Nam	e (Printed/Typed)		Date	
Larry Magn		Larry Higgins			16.01
Title					
Approved by (Signature)	Nam	e (Printed/Typed)	7	Date	6/6/6
Title ST-11	Offic	ce FF)		<u> </u> <u> </u>	70/0
Application approval does not warrant or certify that the applicant hold operations thereon. Conditions of approval, if any, are attached.	s legal or equita	able title to those rights in	n the subject le	ease which would entitle the a	pplicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make States any false, fictitious or fraudulent statements or representations as			d willfully to	make to any department or a	gency of the United
*(Instructions on reverse)					
Williams Exploration and Production Company, LLC, proposes t accordance with the attached drilling and surface use plans.	o drill a well to	develop the Blanco N	/lesaverde fo	ormation at the above desc	ribed location in

The surface is under jurisdiction of the Bureau of Land Management, Farmington Field Office.

This location has been archaeologically surveyed La Plata Archaeological Consultants. Copies of their report have been submitted directly to FFO/BLM.

A 173.5-foot pipeline tie would be required for this location. Williams Field Services.

y no trus or sust

JUN 2006

MMOCD

The pipeline

This action is subject to technical and procedural review pursuant to 43 CFR 3155 3 and appeal pursuant to 43 CFR 3165 4

DRILLUIG OPERATIONS AUTHORIZED ARE; SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

#

District I PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

Form C-102 Revised February 21, 1994 Instructions on back

District II PO Drawer DD, Artesia, NM 88211-0719

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

PU Box 2088
Santa Fe, NM 87504-2088 NM 16 PM 12 PM 12

District IV PO Box 2088, Santa Fe, NM 87504-2088

API Number

320.0 ACRES - (W/2)

RECENTED AMENDED REPORT CTO FARMINGTON RM

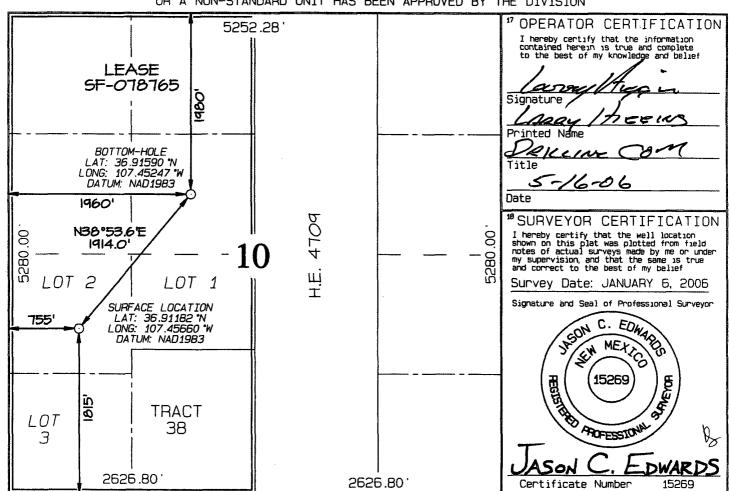
Popl Name

WELL LOCATION AND ACREAGE DEDICATION PLAT

*Pool Code

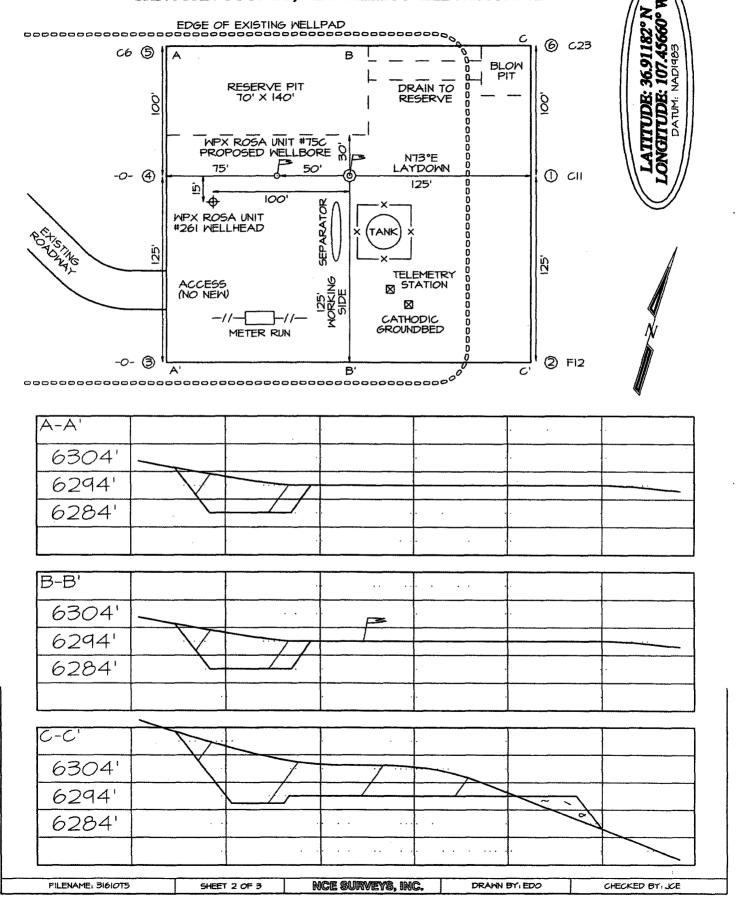
30-0	45-3	33748		72319		BLANCO MESAVERDE				
Property					Property	y Name	· · · · · · · · · · · · · · · · · · ·		⁵Well Number	
1703	3				ROSA	UNIT			75B	
'OGRID I	No.				*Operator	· Name	······································		"Elevation	
12078	32			WILL	IAMS PRODU	CTION COMPAN	1 Y		6294	
					¹⁰ Surface	Location		·		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
L	10	31N	6W	(2)) 1815 SOUTH 755 WEST SAN C				SAN JUAN	
		11 B	ottom	Hole L	ocation I	f Different	From Surf	ace		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
F	10	31N	6W		1980 NORTH 1960 WEST SAN J				SAN JUAN	
12 Dedicated Acres	319	7.36			¹⁹ Joint or Infill	¹⁴ Consolidation Code	⁵⁵ Order No.	Lu		

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

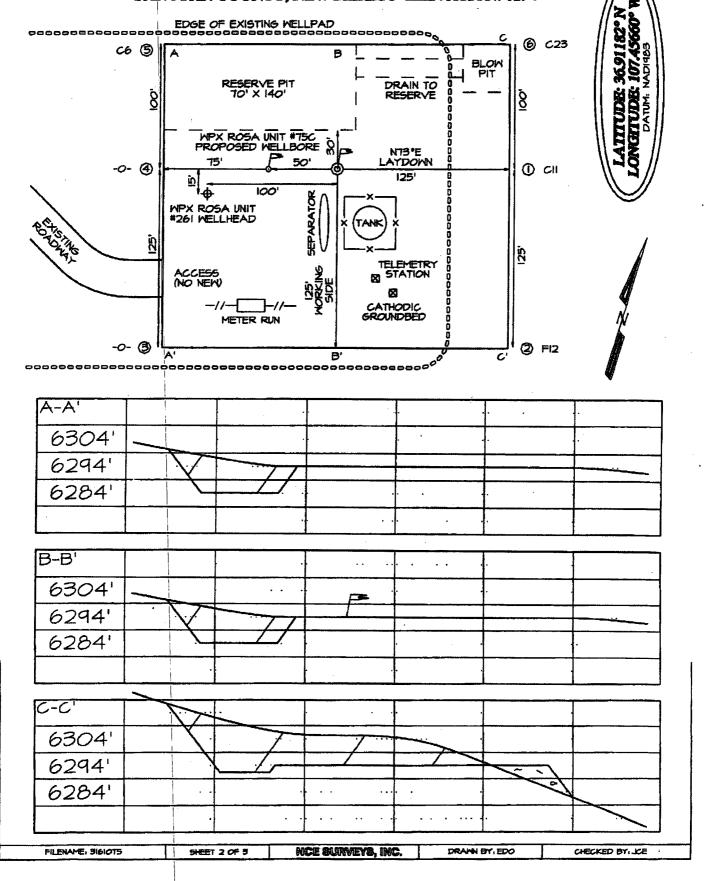


	State of New Mex	xico		Form C-103
Office District I	Energy, Minerals and Natur	al Resources		May 27, 2004
1625 N. French Dr., Hobbs, NM 88240			WELL API NO.	22748
<u>District II</u> 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSERVATION	DIVISION	5. Indicate Type of Lease	JU 10
District III	1220 South St. Fran	cis Dr.		FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87	505	6. State Oil & Gas Lease 1	
1220 S. St. Francis Dr., Santa Fe, NM			SF-078765	
87505	CES AND REPORTS ON WELLS		7. Lease Name or Unit Ag	reement Name
	SALS TO DRILL OR TO DEEPEN OR PLU	G BACK TO A	7. Lease Name of Omit Ag	greement ivame
DIFFERENT RESERVOIR. USE "APPLIC	ATION FOR PERMIT" (FORM C-101) FO		Rosa Unit	
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well 🔯 Other		8. Well Number	75B
2. Name of Operator	Gas wen 🖂 Cutei		9. OGRID Number	120782
Williams Production Company, LL	C		J. GGIAD I WAR	120702
3. Address of Operator			Blanco Mesaverde	
P.O. Box 640 Aztec, NM 87410				
4. Well Location	0			
Unit Letter L: 1815 feet fr	om the south line and 755 feet from	the west line		
Section 10 Township	31N Range 6W	NMPM	County San Juan	
	11. Elevation (Show whether DR,	RKB, RT, GR, etc.,		
	6,294' GR			
Pit or Below-grade Tank Application 🛛 o				
Pit typereserveDepth to Groundwate	er>100'_Distance from nearest fresh wat	ter well_>1,000'_ Dista	ance from nearest surface water_	_>1,000'
Pit Liner Thickness: 12 mil Below-	Grade Tank: Volume	bbls; Construction N	Aaterial	
12. Check A	appropriate Box to Indicate Na	ature of Notice,	Report or Other Data	
NOTICE OF IN	TENTION TO	0110		0=
NOTICE OF IN			SEQUENT REPORT	
DEDECORA DEMEDIAL MODIZ				
PERFORM REMEDIAL WORK	PLUG AND ABANDON CHANGE BLANS	REMEDIAL WOR		ING CASING 🔲
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WILLIAMS PRODUCTION COMPANY ROSA UNIT #75B 1815' FSL & 755' FWL, SECTION 10, T31N, R6W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6294'



WILLIAMS PRODUCTION COMPANY ROSA UNIT #75B 1815' FSL & 755' FWL, SECTION 10, T31N, R6W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6294'



GENERAL ROSA DRILLING PLAN

Rosa Unit boundries:

T31N, R4W: all except sections 32-36

T31N, R5W: all except sections 1 & 2

T31N, R6W: all except sections 6,7,18,20, & 27-36

T32N, R6W: sections 32-36

FORMATION	LITHOLOGY	WATER	GAS	OIL/COND	OVER-PRES	LOST CIRC
FORMATION Nacimiento	Interbedded shales, siltstones and	Possible	Possible	No	No	No
Ojo Alamo	sandstones Sandstone and conglomerates	Fresh	No	No	No	No
Kirtland	with lenses of shale Shale W/interbedded sandstones	No	Possible	No	No	No
	Inter, SS, SiltSt, SH &Coals w/carb,	Yes	Yes	No	Possible	Possible
Pictured	SS, SiltSt, SH Massive Sandstone w/thin	Possible	Yes	Possible	No	Possible
Cliffs Lewis	interbedded shales Shale w/thin interbedded sandstones and siltstones	No	Possible	No	No	No
Cliff House	Transgressive sandstones	Possible	Yes	No	No	No
Menefee	Sandstones, carb shales and coal	Possible	Yes	No	No	No
Point	Regressive coastal barrier	Possible	Yes	Possible	No	Yes
Lookout	sandstone		Possible	Possible	No	Possible
Mancos	Marine shale and interbedded sandstone	No		Possible	No	Possible
Upr Dadota	Marine sand and shales	. No	Yes			
Lwr Dakota	Fluvial sands, shales, & coal	Possible	Yes	Possible	No	Possible

DRILLING

Potential Hazards:

- 1. There are no overpressured zones expected in this well.
- 2. No H2S zones will be penetrated while drilling this well.

Mud System:

- Surface The surface hole will be drilled with a low-solids, non-dispersed system with starch and lost circulation material as needed. Expected mud weights will be in the 8.4 to 9.0 lb per gal range. Viscosities will be in the 30 to 60 sec/qrt range as needed to remove drill cuttings.
- 2. Intermediate The intermediate hole will be drilled with clear water and Benex to TD where the well will be mudded up to log and run casing. The mud system will be low-solids, non-dispersed with mud weights in the 9 to 10 lb per gal range as needed to control the well. Viscosities will be in the 45 to 55 range as needed to support any weight material. The weight material will consist of Barite.
- Production The well will be drilled using air from the intermediate casing point to TD. For Fruitland Coal wells, the coal section will be drilled with air/mist.



WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

5/10/2006

FIELD:

Blanco MV

WELL NAME:

Rosa #75B

SURFACE:

BLM

BH LOCATION:

SENW Sec 10-31N-6W

MINERALS:

BLM

SURF LOCATION:

NWSW Sec 10-31N-6W

LEASE#

SF-078765

6,294' GR

San Juan, NM

MEASURED DEPTH:

ELEVATION:

6,670

I. **GEOLOGY:**

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	TVD	MD	Name	TVD	MD
Ojo Alamo	2,298	2,716	Cliff House	5,313	5,935
Kirtland	2,428	2,885	Menefee	5,358	5,980
Fruitland	2,913	3,503	Point Lookout	5,598	6,220
Picture Cliffs	3,123	3,735	Mancos	5,918	6,540
Lewis	3,423	4,044	TD	6,048	6,670

- B. MUD LOGGING PROGRAM: none
- C. LOGGING PROGRAM: Cased hole logs only.
- **D.** NATURAL GAUGES: Gauge any noticeable increases in gas flow. Record all gauges in Tour book and on morning reports.

II. DRILLING:

- A. MUD PROGRAM: Clear water with benex to 7" 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 in. 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	<u>HOLE SIZE</u>	<u>DEPTH</u> (MD)	<u>CASING SIZE</u>	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 4,222'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 4,122'-6,670'	4-1/2"	10.5# K-55

B. FLOAT EQUIPMENT:

- 1. <u>SURFACE CASING:</u> 9-5/8" notched regular pattern guide shoe. Run (1) standard centralizer on each of the bottom (3) joints of Surface Casing.
- 2. <u>INTERMEDIATE CASING:</u> 7" 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 CASING:</u> 4-1/2" & 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.

IV. CEMENTING:

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

- 1. <u>SURFACE:</u> Slurry: <u>150sx</u> (205 cu.ft.) of "Type III" + 2% CaCl₂ + ¼ # of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). The 100% excess should circulate cement to the surface. WOC 12 hours. Test csg to 1500psi.
- 2. <u>INTERMEDIATE:</u> Lead <u>540 sx</u> (1,129) cu.ft.) of "Premium Light with 8% gel, 1% CaCl₂ and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail <u>50 sx</u> (70cu.ft.) of "Type III" with 1/4# cello-flake/sk, and (Yield = 1.4 cu.ft./sk, Weight = 14.5#/gal.). Use **100% excess in Lead Slurry** to circulate to surface. No excess in Tail Slurry. Total volume = 1,199 cu.ft. Bump Plug to 1,500 psi. Notify engineering if cement is not circulated to surface.
- 3. PRODUCTION LINER: 10 bbl Gelled Water space. Lead: 50sx (130ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE. (Yield = 2.59 cu.ft./sk, Weight = 11.6 #/gal.). Tail: 100 sx (215 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ¼ #/sk cello flake and 4% Phenoseal. (Yield = 2.15 ft³/sk, Weight = 12.3 #/gal.). Displace cement at a minimum of 8 BPM. The 20% excess in lead and tail should cover 100 ft into intermediate casing. Total volume 326 ft³. WOC 12 hours

V. IV COMPLETION

A. CBL

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

B. PRESSURE TEST

1. Pressure test 7" & 4-1/2" casing to 3300# for 15 minutes.



ROSA UNIT #75B SEC 10 T 31N R 6W 1815 FSL & 755 FWL SAN JUAN COUNTY, NM

					SECTIO	N DETAILS				
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
	0.00	0.00	38.89	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	38.89	400.00	0.00	0.00	0.00	0.00	0.00	KOP
3	1200.00	40.00	38.89	1136.58	208.67	168.32	5.00	38.89	268.09	HOLD
4	3268.67	40.00	38.89	2721.27	1243.66	1003.15	0.00	0.00	1597.81	DROP
5	4212.19	0.00	38.89	3590.00	1489.77	1201.66	4.24	180.00	1914.00	HOLD
6	4222.19	0.00	38.89	3600.00	1489.77	1201.66	0.00	0.00	1914.00	Int. Cs. Pt.
7	6670.19	0.00	38.89	6048.00	1489.77	1201.66	0.00	38.89	1914.00	TOTAL DEPTH

			WELL	DETAILS				
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
Rosa Unit #75B	0.00	0.00	2151451.29	2833233.66	36°54'42.552N	107°27'23.760W	N/A	

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape	
Int. Cs. Pt.	3600.00	1489.77	1201.66	2152945.79	2834429.42	Point	

KB ELEVATION: 6308'
GR ELEVATION: 6294'

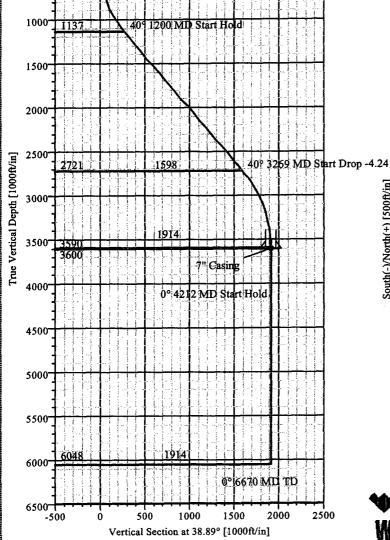
9 5/8" Surface Casing

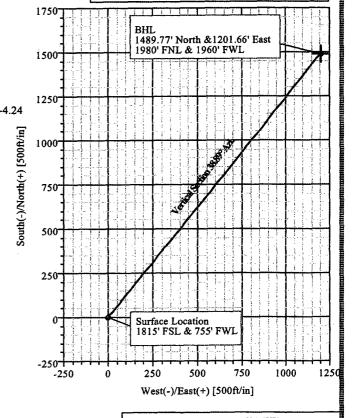
9° 400 MD Start Build 5.00

T Azimuths to True North
Magnetic North: 10.40°

Magnetic Field
Strength: 51449nT
Dip Angle: 63.79°
Date: 5/8/2006
Total Correction 10.40% odel: igrt2005

1	FORMATION TOP DETAILS									
	No.	TVDPath	MDPath	Formation						
1	1	2298.00	2716.13	Ojo Alamo						
1	2	2428.00	2885.83	Kirtland						
1	3	2913.00	3503.11	Fruitland						
1	4	3123.00	3735.36	Pictured Cliffs						
1	5	3423.00	4044.77	Lewis						
1	6	4998.00	5620.19	Cliff House Trans						
	ž	5313.00	5935.19	Cliff House						
1	8	5358.00	5980.19	Menefee						
1	ğ	5598.00	6220.19	Point Lookout						
ı	ío	5918.00	6540.19	Mancos						





W Weatherf Plan: Plan #1 (Rosa Unit #75B)

Created By: Jose Perez Date: 5/9/2006
Weatherford Drilling Services
Granbury Office
3611 Plaza East Court
Granbury, TX 76049
(817) 573 8500 Main
(817) 573 8001 Fax

GEOLOGIC PROGNOSIS

Company:

Wiliams Production Company. LLC

Project:

2006 Drilling Plan

Area:

Rosa Unit

Operator: Well Name: Williams Production Company. LLC

Location: Footage: County/State: Rosa Unit No. 75B (Kmv-Directional) NWSW 10-31N-06W

1815' FSL & 0755' FWL San Juan/New Mexico

Surveyed (GL:
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6294

Estimate (14') KB:

6308

Formation	Thickness	<u>TVD</u>	Struct. Elev.
San Jose Fm.	2298	Surface	6294
Ojo Alamo Ss.	130	2298	4010
Kirtland Sh.	485	2428	3880
Fruitland Fm.	210	2913	3395
Pictured Cliffs Ss.	300	3123	3185
Lewis Sh.	175	3423	2885
Intermediate Casing Depth	1400	3598	2710
Cliff House Ss. Trans.	315	4998	1310
Cliff House Ss.	45	5313	995
Menefee Fm.	240	5358	950
Point Lookout Ss.	320	5598	710
Mancos Sh.	130	5918	390
Total Depth	NA	6048	260

Mechanical Logs:

Cased hole (TMDL, CBL) logs only

Correlation Logs:

Rosa Unit No. 156 (NENE 09-31N-06W)

Notes:

This well will be directionally drilled to a BHL 1980' FNL & 1960' FWL 10-31N-06W

viniants recourtion company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

