4,

(September 2001)

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

UNITED STATES				Expires Jan	uary 31, 2	004
DEPARTMENT OF THE IN				5. Lease Serial No.		
BUREAU OF LAND MANAG	NMSF-078766					
APPLICATION FOR PERMIT TO DR		CENTED		6. If Indian, Allottee	or Tribe l	Name
APPLICATION FOR PERIMIT TO DR		HIM OO DO 1	2 10			
la. Type of Work: 🛛 DRILL 🔲 REENTER	Coust L	JON EU : 11 1	. L. J. V	7. If Unit or CA Agre	ement, Na	ame and No.
		RECEIVED	ì	Rosa Unit 8. Lease Name and We	oli Mo	
1b. Type of Well: Oil Well 🛛 Gas Well 🔲 Other	⊠ ~is	ingle Zone 🔠 (Multip	le Zone	139C	en No.	
2. Name of Operator		27776 PV		9. API Well.No.	330	314
Williams Production Company, LLC 3a, Address	3b. Phone N	o. (include area code) (72%	10. Field and Pool, or l		· · · · · · · · · · · · · · · · · · ·
P.O. Box 640 Aztec, NM 87410		634-4208	(3)	Blanco Mesave	•	.9
4. Location of Well (Report location clearly and in accordance with any		S. 4)	الدين ا	11. Sec., T., R., M., or		Survey or Area
At surface Lot C: 1025' FNL & 1535' FWL	J.	ents. 7) AUG 2000		, , , ,	i	
74 544 544 544 544 544	100	5 PM	* =	i i		
The brokest broad done	ļ.	- OF COMPANY	<u>ت الله الله الله الله الله الله الله الل</u>	C Section 17, 31N	1. 6W	·
14. Distance in miles and direction from nearest town or post office*	15.	E IDNST. 9	ر ۲	12. County or Parish	ĺ	13. State
approximately 25 miles northeast of Blanco, New Mexico		5.0	w 3	Rio Arriba	•	NM
15. Distance from proposed*	16. No. of	Acres in lease	17. Spacing	g Unit dedicated to this v	vell	
location to nearest property or lease line, ft.		26.8 L	33.6			
(Also to nearest drig. unit line, if any) 1025	2,55	2.17		.00 - (W/2)		
 Distance from proposed location* to nearest well, drilling, completed, 	19. Propose	ed Depth	20. BLM/B	IA Bond No. on file		
applied for, on this lease, ft.				77		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	6,51	5' ximate date work will st	UT08	34/7 23. Estimated duration		 -
	1		aut.		п	
6,414' GR		st 1, 2006		1 month	`	
		chments				
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, shall be atta	sched to this	form:		
1. Well plat certified by a registered surveyor.		4. Bond to cover the	e operations	unless covered by an o	existing b	ond on file (see
2. A Drilling Plan.		Item 20 above).		·	. •	•
3. A Surface Use Plan (if the location is on National Forest System I	Lands, the	5. Operator certifica		rmation and/or plans a	h.	manyimad by tha
SUPO shall be filed with the appropriate Forest Service Office).		authorized office		illiauon and/oi pians a	s may be	required by the
25. Signature	Name	(Printed/Typed)			Date	4
loves trace		Larry Higgins			4-:	28-06
Title						
Drilling COM						,
Approved by (Signature)	Nam	e (Printed/Typed)			Date	
DIII (arlee Cu)					4/	121/0
Title	Offic	e For				
Application approval does not warrant or certify that the applicant holds	legal or equits	ble title to those rights in	the subject	lease which would entitle	e the annli	icant to conduct
operations thereon.					F P	
Conditions of approval, if any, are attached.						
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it States any false, fictitious or fraudulent statements or representations as to			d willfully to	make to any departmen	it or agend	cy of the United
*(Instructions on reverse)						
Williams Exploration and Production Company, LLC, proposes to location in accordance with the attached drilling and surface use p		onal well to develop th	e Blanco M	esaverde formation at	the abov	ve described
The well pad surface is under jurisdiction of the Bureau of Reclam	ation (BOR)	•				

This location has been archaeologically surveyed by La Plata Archaeological Consultants. Lopies of their report have been submitted directly to the BLM and BOR.

This APD is also serving as an application to obtain a pipeline right-of-way. An associated pipeline tie of 230.10 feet would be required for this location.

HOLD CIGA FOR directional Survey

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

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

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

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

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

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102 Revised February 21, 1994 Instructions on back

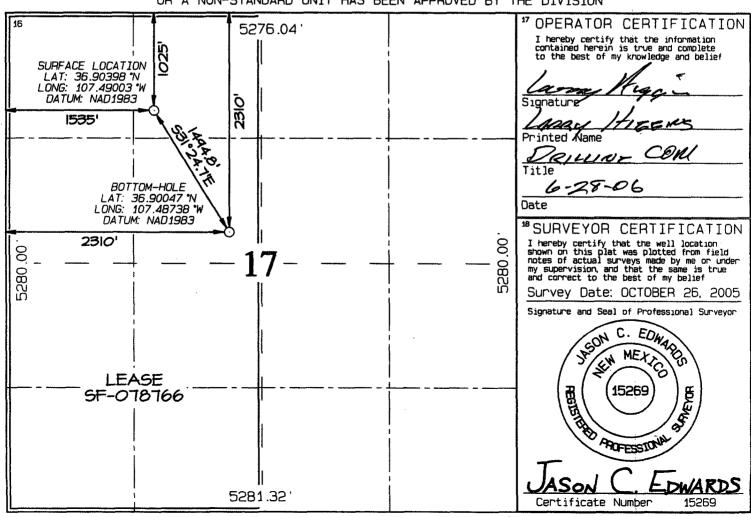
Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

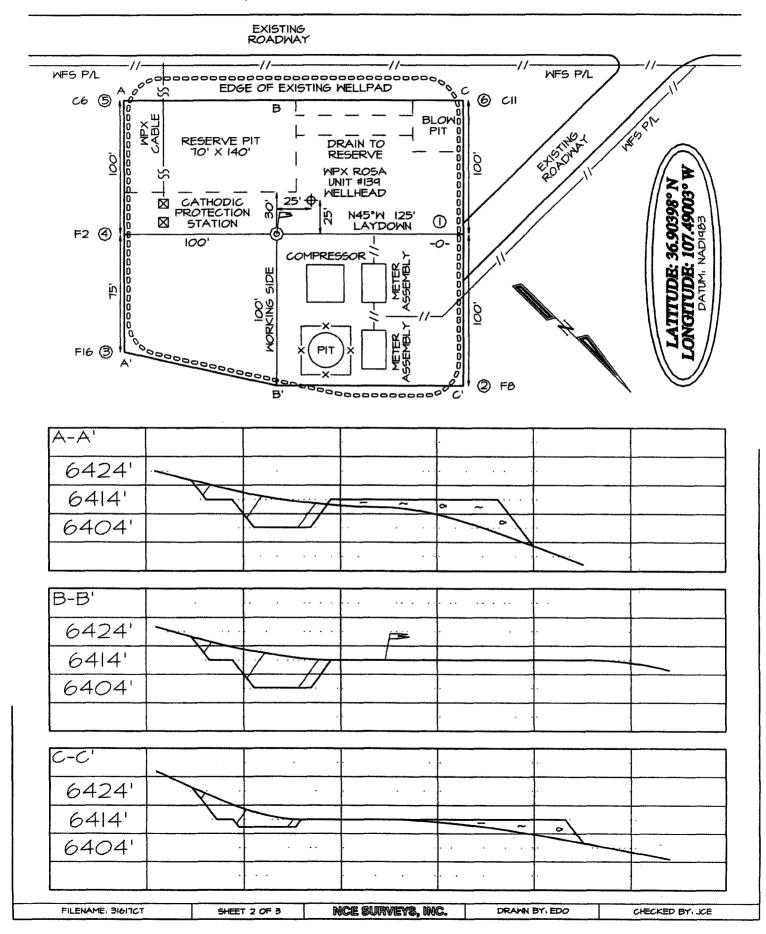
	API Number			*Pool Coo		'Pool Name					
30-045	. 3 3 911	4		72319	9	BLANCO MESAVERDE					
*Property	- 1				*Property	y Name		81	*Well Number		
1703	3				ROSA	UNIT			139C		
'OGRID	Vo.				*Operator	Name			Elevation		
12078	32			WILL:	IAMS PRODU	CTION COMPA	٧Y		6414'		
					¹⁰ Surface	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	5 a county Tuan		
С	17	31N	6W		1025	NORTH	1535	WEST	7.65		
		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	17	31N	БМ		2310	NORTH	2310 WEST Sur Tour				
12 Dedicated Acres		.0 Acres	s – (W,	/2)	¹³ Joint or Infill						
NO ALLOW	IADI E IN	TII DE /	CCTCNE	D TO TH	IC COMPLETE	ON LINITEL ALL	INTEDECTS L	IAVE BEEN CO	NICOL TOATED		

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



Submit 3 Copies To Appropriate District	State of New Mexico		Form C-103
Office District I	Energy, Minerals and Natural Reso	urces	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		W	ELL API NO.
District II	OIL CONSERVATION DIVIS	ION L	30-045-33914
1301 W. Grand Ave., Artesia, NM 88210 District III	1220 South St. Francis Dr.	5.	Indicate Type of Lease FEDERAL X
1000 Rio Brazos Rd., Aztec, NM 87410			STATE FEE
District IV	Santa Fe, NM 87505		State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		SI	F-078766
	CES AND REPORTS ON WELLS	7.	Lease Name or Unit Agreement Name
	SALS TO DRILL OR TO DEEPEN OR PLUG BACK		2
	CATION FOR PERMIT" (FORM C-101) FOR SUCH	R	osa Unit
PROPOSALS.) 1. Type of Well: Oil Well	Gas Well 🛛 Other	8.	Well Number 139C
2. Name of Operator	Cas well Z Culei		OGRID Number 120782
Williams Production Company, LL	C	1,9.	OGRED Number 120/82
3. Address of Operator		B	lanco Mesaverde
P.O. Box 640 Aztec, NM 87410		"	1,10,50,40,60
4. Well Location		. 4.	
1	rom the north line and 1535 feet from the we		
Section 17 Townshi		NMPM	County Rio Arriba
	11. Elevation (Show whether DR, RKB, R	T, GR, etc.)	
	6,414' GR		
Pit or Below-grade Tank Application 🗵 o	r Closure L		
Pit typereserveDepth to Groundwat	er>100'_Distance from nearest fresh water well_>	1,000'_ Distance	from nearest surface water>1,000'
Pit Liner Thickness: 12 mil Below-	Grade Tank: Volume bbls; Co	nstruction Mate	rial
12 Check	Appropriate Box to Indicate Nature of	Notice Re	nort or Other Data
12. CHCCK A	appropriate box to indicate Nature of	. Nouce, Re	port of Outer Data
NOTICE OF IN	TENTION TO:	SUBSE	QUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON REMED	DIAL WORK	☐ ALTERING CASING ☐
	 ,		☐ ALTERING CASING ☐ NG OPNS.☐ P AND A ☐
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WILLIAMS PRODUCTION COMPANY ROSA UNIT #139C 1025' FNL & 1535' FWL, SECTION 17, T31N, R6W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6414'





WILLIAMS PRODUCTION COMPANY

Operations Plan

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

DATE:

5/19/2006

FIELD:

Blanco MV

WELL NAME:

Rosa #139C

SURFACE:

BOR

BH LOCATION:

SENW Sec 17-31N-6W

MINERALS:

BLM

SURF LOCATION:

NENW Sec 17-31N-6W

LEASE#

SF-078766

ELEVATION:

6,414' GR

San Juan, NM

MEASURED DEPTH:

6,515

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS: (KB)

Name	Name TVD MD Name		Name	TVD	MD
Ojo Alamo	2,368	2,657	Cliff House	5,388	5,785
Kirtland	2,483	2,796	Menefee	5,433	5,830
Fruitland	2,938	3,318	Point Lookout	5,668	6,065
Picture Cliffs	3,258	3,652	Mancos	5,968	6,365
Lewis	3,548	3,945	TD	6,118	6,515

- B. MUD LOGGING PROGRAM: none
- C. LOGGING PROGRAM: Cased hole logs only.
- 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" 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. 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.

III. MATERIALS

A. CASING PROGRAM:

CASING TYPE	HOLE SIZE	DEPTH (MD)	CASING SIZE	WT. & GRADE
Surface	12-1/4"	+/- 300'	9-5/8"	36# K-55
Intermediate	8-3/4"	+/- 4,127'	7"	20# K-55
Prod. Liner	6-1/4"	+/- 4,027'-6,515'	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 + ½ # 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>530 sx</u> (1,100) 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 50 <u>sx</u> (70cu.ft.) of "Type III" with 1/4# cello-flake/sk (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 = 1,170 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: $50s\underline{x}$ (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: $100\underline{sx}$ (215 ft³) of Premium Light HS + 1% FL-52 + .2% CD-32, 0.1% R-3, 3 #/sk CSE, ½ #/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 3.18 ft³. WOC 12 hours

V. 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 is not circulated to surface.

B. PRESSURE TEST

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

C. STIMULATION

- 1. Perforate the Point Lookout as determined from the open hole logs.
- 2. Stimulate with approximately 9,300# of 14/30 LitePropTM sand in slick water.
- 3. Isolate Point Lookout with a CIBP.
- 4. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 5. Stimulate with approximately 9,300# of 14/30 LiteProp[™] sand in slick water.
- 6. Test each zone before removing bridge plugs.

D. RUNNING TUBING

1. <u>Mesa Verde:</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

Rosa #139C Dir Ops Plan.doc



ROSA UNIT #139C SEC 17 T 31N R 6W 1025 FNL & 1535 FWL SAN JUAN COUNTY, NM

True Vertical Depth [1000ft/in]

6500 | -1 -500

500

1000

Vertical Section at 148.59° [1000ft/in]

2000

2500

					SECTION D	ETAILS				
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	148.59	0.00	0.00	0.00	0.00	0.00	0.00	
2	400.00	0.00	148.59	400.00	0.00	0.00	0.00	0.00	0.00	i
3	1250.00	34.00	148.59	1200.98	-209.00	127.62	4.00	148.59	244.89	
4	2909.27	34.00	148.59	2576.58	-1000.88	611.18	0.00	0.00	1172.74	
5	4027.15	0.00	148.59	3630.00	-1275.75	779.03	3.04	180.00	1494.80	4
6	4127.15	0.00	148.59	3730.00	-1275.75	779.03	0.00	0.00	1494.80	Int. Cs. Pt
7	6515.15	0.00	148.59	6118.00	-1275.75	779.03	0.00	148.59	1494.80	BHL

								,
			WELL	DETAILS		,		
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot	
Rosa Unit 139C	0.00	0.00	2148560.13	2823470.76	36°54'14.328N	107°29'24.108W	N/A	

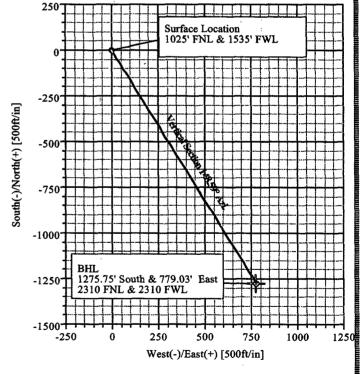
	TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape			
Int. Cs. Pt. BHL	3730.00 6118.00	-1275.75 -1275.75	779.03 779.03	2147287.19 2147287.19	2824254.37 2824254.37	Point Point			

KB ELEVATION: 6428' GR ELEVATION: 6414' 1000 3000 4000 5000

Azimuths to True North
Magnetic North: 10.41°

Magnetic Field
Strength: 51439nT
Dip Angle: 63.78°
Date: 5/9/2006
Otal Correction 10.41 Model: igrf2005

	FORMATION TOP DETAILS										
No.	TVDPath	MDPath	Formation								
1	2368.00	2657.67	Oio Alamo								
2	2483.00	2796.39	Kirtland								
3	2938.00	3318.56	Fruitland								
4	3258.00	3652.69	Pictured Cliffs								
5	3548.00	3945.12	Lewis								
6	5068.00	5465.15	Cliff House Trans								
7	5388.00	5785.15	Cliff House								
8	5433.00	5830.15	Menefee								
9	5668.00	6065.15	Point Lookout								
10	5968.00	6365.15	Mancos								





Weatherford

Plan: Plan #1 (Rosa Unit #139C)

Created By: Jose Perez

Weatherford Drilling Services

Granbury Office

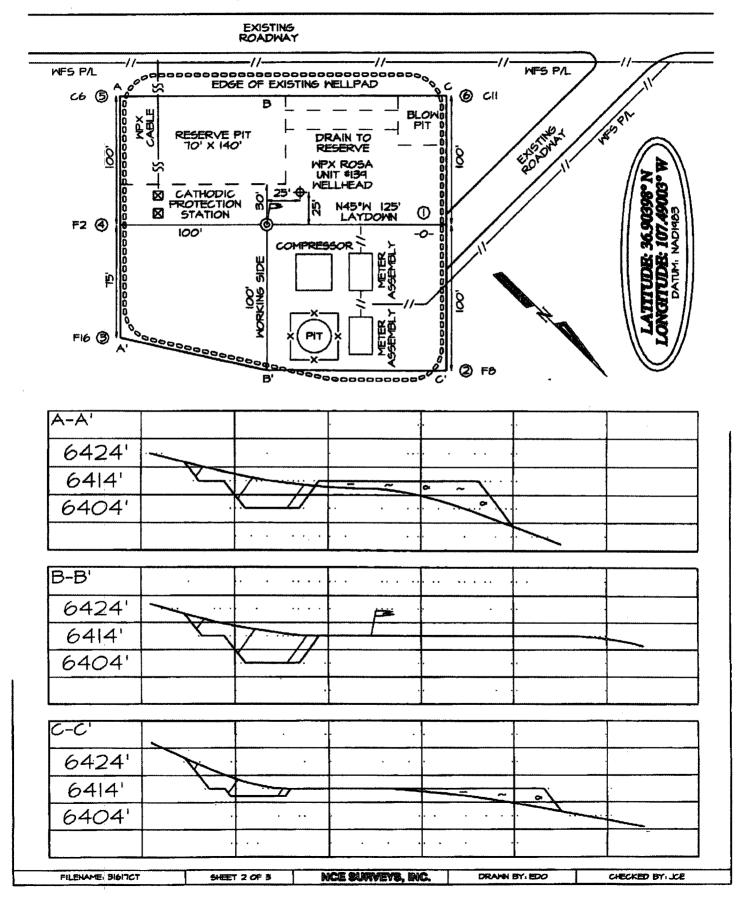
3611 Plaza East Court

Granbury, X7 6049

(817) 573 8500 Main

(817) 573 8001 Fax

WILLIAMS PRODUCTION COMPANY ROSA UNIT #139C 1025' FNL & 1535' FWL, SECTION 17, T31N, R6W, NMPM SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6414'



GEOLOGIC PROGNOSIS

Company:

Willams Production Company. LLC

Project:

2006 Drilling Plan

Area:

Rosa Unit

Surveyed CI .

Operator: Well Name: Williams Production Company. LLC Rosa Unit No. 139C (Kmy-Directional)

Fetimate (14') KR

6428

Location: Footage: County/State: NENW 17-31N-06W 1025' FNL & 1535' FWL

San Juan/New Mexico

6414

Surveyed GL	. 0414	Esumate (14) No.	0420
<u>Formation</u>	<u>Thickness</u>	TVD	Struct. Elev.
San Jose Fm.	2368	Surface	6414
Ojo Alamo Ss.	115	2368	4060
Kirtland Sh.	455	2483	3945
Fruitland Fm.	320	2938	3490
Pictured Cliffs Ss.	290	3258	3170
Lewis Sh.	185	3548	2880
Intermediate Casing Depth	1335	<u>3733</u>	2695
Cliff House Ss. Trans.	320	5068	1360
Cliff House Ss.	45	5388	1040
Menefee Fm.	235	5433	995
Point Lookout Ss.	300	5668	760
Mancos Sh.	150	5968	460
Total Depth	· NA	6118	310

Mechanical Logs:

Cased hole (TMDL, CBL) logs only

Correlation Logs:

Rosa Unit No. 139 (NENW 17-31N-06W)

Notes:

This well will be directionally drilled to a BHL 2310' FNL & 2310' FWL 17-31N-06W

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

	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
	with lenses of shale Shale W/Interbedded sandstones	No	Possible	No	No	No
Fruitland	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
Lewis	interbedded shales Shale w/thin interbedded sandstones	No	Possible	No	No	No
	and siltstones Transgressive sandstones	Possible	Yes	No	No	No
Cliff House	Sandstones, carb shales and coal	Possible	Yes	No	No	No
	Regressive coastal barrier	Possible	Yes	Possible	No	Yes
	sandstone	No	Possible	Possible	No	Possible
	Marine shale and interbedded sandstone	. No	Yes	Possible	No	Possible
Upr Dadota Lwr Dakota	Marine sand and shales 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.

remains reduction company, LLC

Well Control Equipment Schematic for 2M Service

Attachment to Drilling Technical Program

Typical BOP setup

