UNITED STATES

FORM APPROVED Budget Bureau No. 1004-0136 Expires: February 28, 1995

om 3160-3 July 1992)	DEPARTMENT O BUREAU OF LAN	OF THE INTE ND MANAGEME	RIOR]	ROW	//APD	Exputs 1		
APPLIC	ATION FOR PER	MIT TO D	RILL OR C	EEP	EN	5: Legse Designation and SF-078772	Serial No.	
la. Type of Work						6. If Indian, Allottee or T	ribe Name	
b. Type of Well	ORILL Other O	DEEPEN [Single Well	Multiple 2	Zone	7. If Unit or CA, Agreem Rosa Unit	ent Designation	
2 Name of Operator Williams Explo	Prod Co.	120782				8. Well Name and No. RU-# 129A		
P.O. Box 3102, M	one No 1S 37-2, Tulsa, OK. 74101		- 100 M	15 15 77		9. API Well No. 30-039-2	26297	
4 Location of Well (Footage At Surface 1680' FSL 19	965' FWL		5.78 5.78 5.78 5.78 5.78 5.78 5.78 5.78	2000		10. Field and Pool, or Ex Blanco - MV	LK.	
At proposed prod. 2006			10	* g		12. County or Parish	13. Stete	
19.3 mil	Directions from Nearest Town or Post Offi es northeast Navajo Dam	n Post Office (s	straight line)	لعرائد الأراغ !! 	<u></u>	Rio Arriba	NM 	
15 Distance from Proposed Location to Nearest	(Also to nearest drig, unit line, if any)	16.No. of Acres in Lease 2561.86		·	17.No. of Acres Assi	gned to This Well acres W/2		
Property or Lease Line,	Ft 1680'		o acres		20.Rotary or Cable			
18 Distance from Proposed to Nearest Well Drilling	, Completed,	19. Proposed Depth	6069' —		Rota			
or Applied for, on this l	-	<u> </u>			22. Approximate D	e Date Work will Start		
	21 Elevations (Show whether DF, RT, GR, etc) 6357' GR					April 1, 2000		
	PRO	POSED CASING A	AND CEMENTING	PROGR4	AM			
SIZE OF HOLE		NG WEIG	CHT PER FOOT	SET	TING DEPTH	QUANTITY OF 130 sx-176 cu ft		
12-1/4" 8-3/4"	9-5/8"	36# 20#		250' 3614'		400 sx-831 cu ft 256 Cu ft-Type II	Lite 185 sx-	
6-1/4"	4-1/2"	10.5#	<u> </u>	3514'	– 6069' —	70 sx-150-cuft 1 Lite HS 65/35	15 sx-243cuft	
at the above d	ms Exploration & Productive Rescribed location, in accountristiction of the Burea Moore Anthropological F	ordance with th au of Reclama Research of Az	ne attached Ope Ition. The loca Itec, NM. The re	eration a tion has eport ha	s been survey is been subn	yed for Cultural	ce for	

This APD also is serving as an application to obtain BLM road and pipeline rights-of-way. This well will be accessed by 1500-feet of new access road (see plats #3 & #4). The proposed 272-foot long pipeline would tie into the Williams Gathering System on the Rosa Unit 129 (see the attached Plat Map # 4).

ENERGY OF OPERATIONS AUTHORIZED ARE

SUCCESS TO COMPLIANCE WITH ATTACHED

propodural

"GEHERAL REQUIREMENTS"

This ention is subject to technical and procedural review pursuent to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3135.4.

N ·	t								
	₩.	Abbardar Action Stands President	TROCKANE If proposal to deepen, give pre	sent productive zone and proposed new productive re Nelson Title Agent	zone.	COPIES: Date Jani	BLM+4, W Jary 04, 2	ELL F 2000	ILE+1
,	_	(This space for Federal or State office use) Permit No. Application approval does not warrant or or		title to those rights in the subject lease which would	Approval i entitle the appli	Date	perations thereo	on.	
	P	Conditions of approval, if any:	/s/ Jim Lovato	NMOCO		DATE	. IUL. !		

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

District II PO Drawer DO. Artesia, NM 88211-0719

itrict III JUCO Rio Brazos Rd., Aztec, NM 87410

District IV PO 8tx 2088, Santa Fa, NM 87504~2068 State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088 State Lease - 4 Copies

1: 45 Fee Lease - 3 Cooles

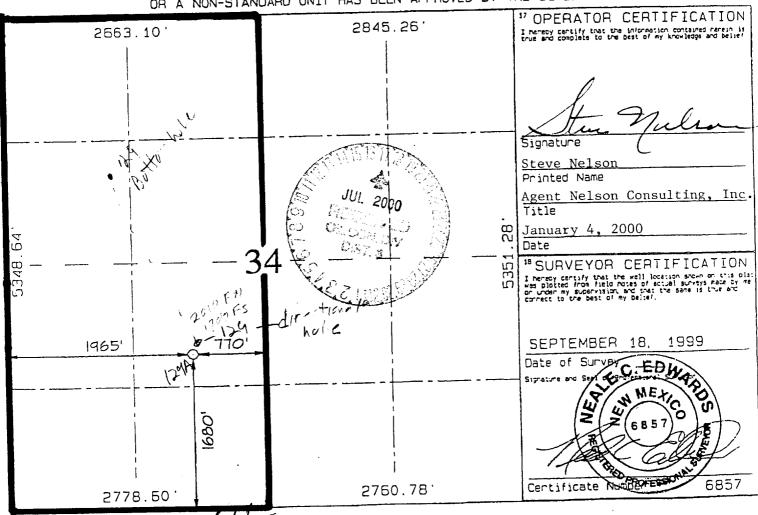
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-039-2629	1 Pool Code 72319	Blanco-Ma	saverde (Providadias
Property Code	Property ROSA U		'Well Number 129A
1000 No.	*Operator WILLIAMS PRODU		*Elevation 6357 ~
12/010	¹⁰ Surface	Location	

ourtace Lucation East/Hest line Feet from the North/South line Feet from the Lat Ion Fange Township RIO LL or lot ro. Section WEST 1965 SOUTH 1680 ARRIBA 6W 32N 34 Κ From Surface Hole Location If Different 11 Bottom East/Hest lire Feat from the Lot Im Feet from the TOWNSDAD UL or la: no " Consolidation Code 15 Order No. Dubint or Infill Casicates Acres U

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





Exploration & Production *Operations Plan*

DATE:

12/01/99

WELLNAME:

ROSA UNIT #129A

Rio Arriba Co., NM

FIELD:

Blanco MV

LOCATION:

NESW Sec.34, T32N, R6W

SURFACE:

BOR

ELEVATION:

6357'GR

MINERALS:

Federal

TOTAL DEPTH:

6069

LEASE#

SF-078772

I. GEOLOGY:

Surface formation - San Jose

A. FORMATION TOPS:

Ojo Alamo	2339'	Cliff House	5379'
Kirkland	2464'	Menefee	5424'
Fruitland	2864'	Point Lookout	5619'
Pictured Cliffs	3139'	Mancos	5959'
Lewis	3444'	Total Depth	6069'

B. <u>LOGGING PROGRAM</u>: 8-3/4" IND/GR/Temp log from TD to surface. CDL interval selected by onsite gelogist. 6-1/4" IND/GR/Temp log from TD to Intermediate TD. CDL interval selected by onsite gelogist.

C. <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. LSND to log and run pipe.

B. <u>BOP TESTING</u>: While drill pipe is in use, the pipe rams will be tested not less than once each day. The blind rams will be tested once each trip. The drum brakes will 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	<u>DEPTH</u>	CASING SIZE	WT. & GRADE
Surface	12-1/4"	250'	9-5/8"	36# K-55
Intermediate	8-3/4"	3614'	7"	20# K-55
Prod. Liner	6-1/4"	3514'-6069'	4-1/2"	10.5# K-55

B. FLOAT EQUIPMENT:

1. SURFACE CASING: 9-5/8" notched regular pattern guide shoe.

- 1. INTERMEDIATE CASING: 7" cement nose guide shoe with a self-fill insert float. Place float one(1) joint above the shoe and five(5) centralizers, spaced every other joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 2510' to the surface. Total centralizers = 5 regular and 21 turbulent.
- 2. <u>PRODUCTION CASING:</u> 4-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' joint. Place 20' marker joint above 5300'.

C. CEMENTING:

- 1. <u>SURFACE</u>: Use <u>130 sx</u> (176cu.ft.) of class "Type III" with 2% CaCl2 and 1/4# of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). Use 125% excess to <u>circulate the surface</u>. WOC 12 hours. Test to 1500#.
- 2. <u>INTERMEDIATE</u>: Lead <u>400sx</u> (831cu.ft.)of class "Premium Lite" 65/35 Type III/Poz with 8% gel, 1% CaCl2, and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail <u>185sx</u> (256cu.ft.) of class "Type III" with, 1% CaCl2, and 1/4# cello-flake/sk(Yield = 1.39 cu.ft./sk, Weight = 14.5#/gal.). Use 100 excess in lead and tail to <u>circulate to surface</u>. Total volume = 1104 cu.ft. WOC 12 hours. Test to 1500#.
- 3. PRODUCTION LINER: Lead 70 sx (150 cu.ft.) of class "Premium Lite HS" 65/35, Type III/Poz with 6 % gel, 0.5% FL-52, 1% CaCl2, (Yield = 2.13 cu.ft./sk, Weight = 12.3 #/gal.) Tail 115sx (243 cu.ft.) of class" Premium Lite HS "65/35, Type III/Poz with 6 % gel, 0.5% FL-52, 1% CaCl2, 4% Phenoseal and 1/4# cello-flake/sk (Yield = 2.16 cu.ft./sk, Weight = 12.3 #/gal.) Displace cement at a minimum of 8 BPM. Use 50% excess in lead and tail to cover liner top. Total volume 393 cuft. WOC 12 hours.

IV COMPLETION

A. CBL

1. Run Cement Bond Log across all intervals to be perforated and find Top of Cement behind all casing strings.

B. PRESSURE TEST

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

C. STIMULATION

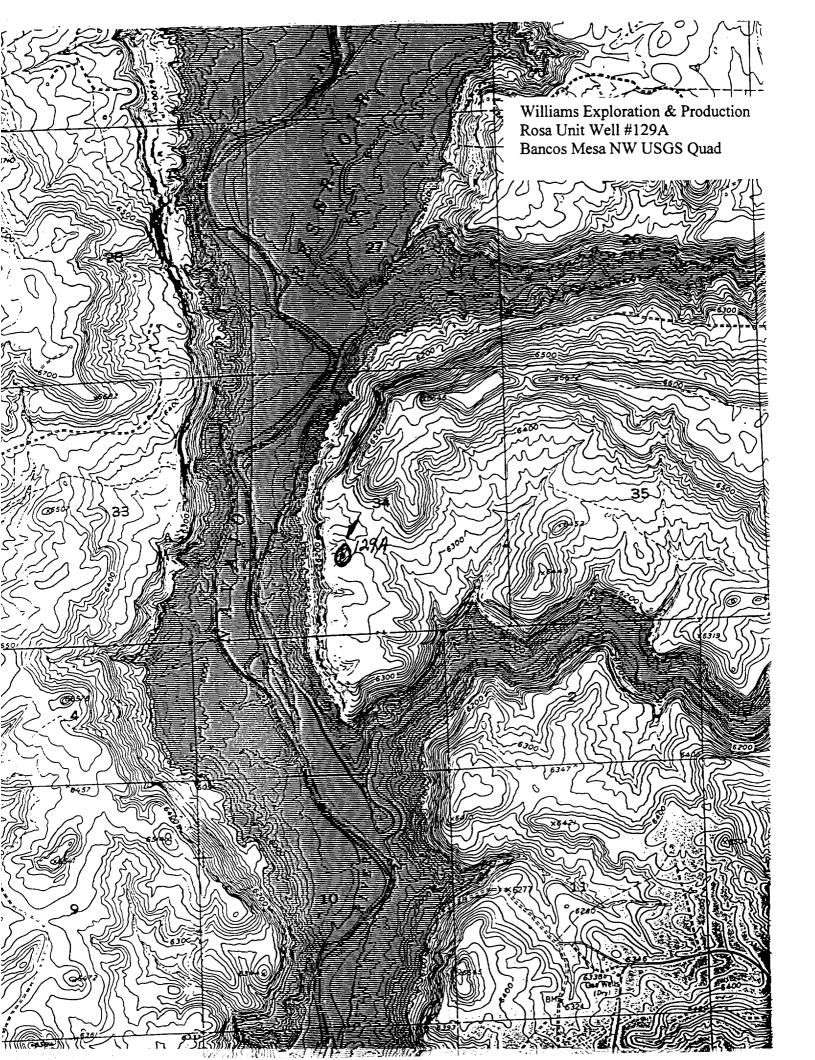
- 1. Stimulate Point Lookout with approximately 80,000# of 20/40 sand in slick water.
- 2. Isolate Point Lookout with a CIBP.
- 3. Perforate the Menefee/Cliff House as determined from the open hole logs.
- 4. Stimulate with approximately 80,000# of 20/40 sand in slick water.
- 5. Test each zone before removing bridge plugs.

D. RUNNING TUBING

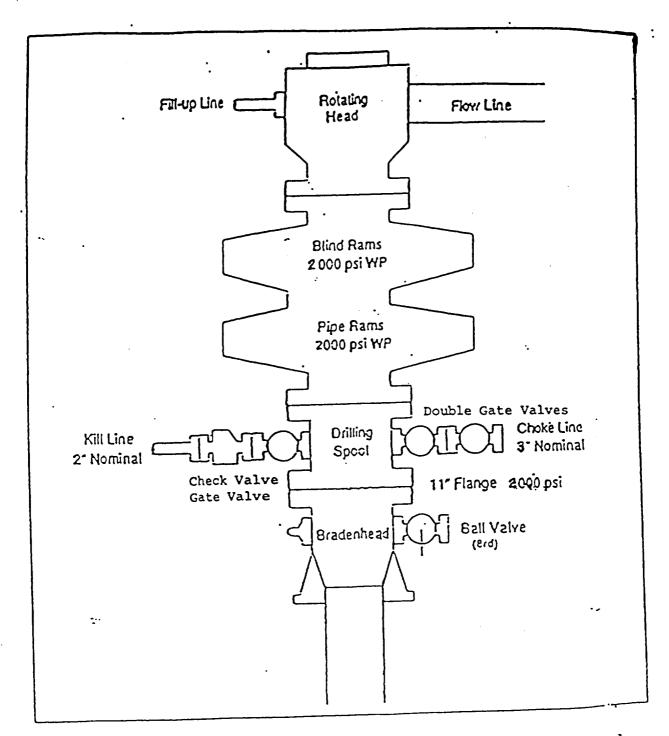
1. <u>Mesa Verde:</u> Run 2-3/8", 4.7#, J-55, EUE tubing with a SN (1.91" ID) on top of bottom joint. Land tubing approximately 50' above the bottom Point Lookout perforation.

David Spitz

Engineer, Production & Drilling



BOR STACK ARRANGEMENT



All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1500 psi. The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock with handle, floor safety valve with change overs for each tool joint in the string, and choke manifold all rated to 2000 psi.