

Via Federal Express

	Williams Production Compa Come Williams Center P.O'Box 3102
31	Tulsa, OK 74101
	MAR 29 2000
1997 - 1997 -	

New Mexico Oil Conservation Division Attention: Mr. Mike Stogner 2040 South Pacheco Santa Fe, New Mexico 87505

Re: Administrative application dated March 8, 1000 to establish two non-standard lay-down gas spacing and proration units within the Blanco-Mesaverde Pool to comprise: (i) Lots 1 and 2 and the NE/4 (N/2 equivalent) of Irregular Section 18, Township 31 North, Range 5 West, NMPM, Rio Arriba County, New Mexico; and (ii) Lots 3 and 4 and the SE/4 (S/2 equivalent) of Irregular Section 18.

March 28, 2000

Dear Mr. Stogner:

Pursuant to your letter dated March 22, 2000 in support of the referenced Application, enclosed is the following information:

- 1. Copies of APDs for the Rosa Unit #22A, #182 and #182A.
- 2. Plat showing the boundaries of the Rosa Unit and the Rosa Unit Mesaverde Participating Area.
- 3. Copy of the Rosa Unit 2000 Plan of Development approved by Roy Johnson of the State of New Mexico Oil Conservation Commission.

I appreciate your cooperation in this matter. If you need anything further please contact me at (918) 573-6169. Any information we have which may further this application will be promptly provided.

Sincerely,

M. Vern Hansen Senior Landman

cc: Mr. Frank Chavez NMOCD – Aztec

District I PO Bex 1980, Hobbs	s, NM 88241-1	980		St Energy, Min	ate of Nev nerals & Natura	w Mexico Resources Departme	at		Revis	Form sed February 2
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1.	U.S.G.S. LAND OFFICE IRANSPORTER OIL] GAS / OPERATOR PROHATION OFFICE	AUTHORIZATION TO TR	ANSPORT OIL AND I	IATURAL GAS	•
	Northwest Pipelin Address 501 Airport Drive Reason(s) for filing (Check proper box New Well Recompletion	Change in Transporter of:	ias X	explain)	
	Change in Ownership give name E and address of previous owner	Casingheed Gas Conde	iny, PO Box 990, 1	Farmington, N	Jew Mexico 87401
11.	DESCRIPTION OF WELL AND Lease Name Rosa Unit Location	LEASK Well No. Pool Name, Including I 22 Blanco Mesa	Formation Verde	Kind of Lease State, Fedgral or Fe	• SF 078764
	Unit Letter <u>A</u> ; <u>890</u> Line of Section 18 To	Peet From The North Li	ine and <u>800</u> 5W , NMPM	_ Feet From The Rio Arriba	East County
[[].	DESIGNATION OF TRANSPOR Name of Authorized Transporter of Oll Northwest Pipeline Name of Authorized Transporter of Cas Northwest Pipeline If well produces oil or liquids,	TER OF OIL AND NATURAL G. or Condensate X e Corporation singhead Gas or Dry Gas X e Corporation Unit Sec. Twp. Rge.	AS Address (Give address to 501 Airport Di Address (Give address to 501 Airport Di Is gas actually connected	which approved cop ive, Farming which approved cop ive, Farming	y of this form is to be sent) ton, New Mexico 8740 y of this form is to be sent) ton, New Mexico 8740
IV.	give location of tanks. If this production is commingled with COMPLETION DATA Designate Type of Completion	th that from any other lease or pool, O(1 + 1) = O(1 + 1) + O(1 + 1)	give commingling order	number:	Back Same Res'v. Diff. Res'v
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	HOLESIZE	CASING & TUBING SIZE	DEPTH SE	T	SACKS CEMENT
v.	TEST DATA AND REQUEST FO	OR ALLOWABLE (Test must be c able for this d	after recovery of total volui epth or be for full 24-years	ie of load oil and mu	st be equal to or exceed top allou
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	Testing Method (pitot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-	in) Chok	• Size
VI .	CERTIFICATE OF COMPLIANO	L DE	OIL C		
	I hereby certify that the rules and r Commission have been complied w above is true and complete to the	egulations of the Oil Conservation /ith and that the information given = best of my knowledge and belief.	BYSITPER	C (luver)	3
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N	IEW MEXICO (DIL CONSERV	ATION CON	IMISSION Re	Form C-110 vised 7/1/55
(File the c	OFFICE OCC	copies with th	e appropriat	e district offi	ce)
1960 MAYR	TO TRANSP	COMPLIANC	E AND AUT	HORIZATION GAS	To the second
Company or Operat	tor <u>El Paso</u>	Natural Gas	Company	Leasc Ross	Unit
Well No. 22-18	Unit Letter	A <u>S 18 T 3</u>	in <u>r</u> 5W p	ool Blanco Me	saverde
County <u>Rio Arr</u>	iba Ki	nd of Lease (State, Fed.	or Patented)_	Federal T R
Authorized Transp	orter of Oil or	Condensate_	El Paso Nat	ural Gas Proc	lucts Company
Address					
(Give a Authorized Transp	address to which orter of Gas	ch approved c El Paso Natu	opy of this for ral Gas Comm	orm is to be a	ent)
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Form 23-55(1-56)

Form 23-35(1-56)		
MAIN OFFICE OCC	OIL CONSERVATION COMMISSI	ON
1957 1954 (03)	BOX 697	
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	AZTEC, NEW MEXICO	
NOTICE OF GAS CONNECTION		
	DATE	November 1, 1957
THIS IS TO NOTICE THE OIL CONSERV		
THE IS TO NOTIFY THE OIL CONSERV.	ATION COMMISSION THAT CONN	ECTION FOR THE PORCHASE OF GAS FROM
THE	Pacific Northwest Pipelin OPERATOR	ne Corporation
		-0
Rosa Unit #22-18 LEASE	WELL UNIT	<u>18=31=5</u> s-T-R
Blanco Mesa Verde Pool	EL Paso Ne	atural Gas Company
WAS MADE ON October 30, 1957	, FIRST DELIVERY	October 30, 1957 DATE
AOF 3,928 <u>Choke 3,016</u> INITIAL POTENTIAL	١	
2/16/	El Paso I Purchase	Ratural Gas Company
	REPRESEN	TATIVE Joagen
	Chief Dis	spatcher
CC: TO OPERATOR OIL CONSERVATION COMMISSION - SA F. N. WOODRUFF - EL PASO B. D. ADAMS	NTA FE	
FILE		



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	CERTIFICATE	OF COMPLIAN	CE AND AUTHORIZAT	ION
	TO TRA	NSPORT OIL AN	D NATURAL GAS	
Company or	Operator P	acific Northwest 1	Pipeline Corporationse	Rosa Unit
Well No. 22	-18Unit Lett	er <u>AS18</u> T_	31N R 5W Pool Blanc	o Mesa Verde
CountyR1	o Arriba	Kind of Lease	State, Fed. or Patente	:d)
If well prod	uces oil or conder	nsate, give locati	on of tanks:Unit S	TR
Authorized	Transporter of Oi	l or Condensate_	·······	
Address				
muui caa	(Give address to	which approved of	copy of this form is to	be sent)
Authorized	Transporter of G	s El Paco Natur	al Gas Company	·•
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NEW MEXICO OIL CONSER	RVATION COMMISSION
SANTA FE. NE	W MEXICO
MAIN OFFICE OCC opies with t	the appropriate district office)
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If well produces oil or condensate, give locat	tion of tanks:UnitST
Authorized Transporter of Oil or Condensate	
Address	
(Give address to which approved	copy of this form is to be sent)
Authorized Transporter of Gas Pacific North	west Pipeline Corporation
Address 405 ½ West Broadway, Farmington, New	Mexico
Give address to which approved	copy of this form is to be sent)
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NEW MEXICO OIL CONSERVATION COMMISSION

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Santa Fe, New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWABLE

10

(Form C-104) (Revised 7/1/52)

New WellX Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

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SUNDRY NOTICES AND REPORTS ON WELLS

Well No. 22-10 is located 399 ft. from	Į.	N line and SCO ft. from $\{E_{i}\}$ line of sec. 18
	•	Auto 14 , 19.51
(INDICATE ABOVE BY CHECK MARK	NAT	URE OF REPORT, NOTICE, OR OTHER DATA)
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY
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NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
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 (24 Sec. and Sec. No.)
 (Twp.)
 (Range)
 (Meridian)

 Blanco Masa
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 (Field)
 (County or Subdivision)
 (State or Territory)

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 5-5-57. Set 231.35' of 10-3/4" ensing @ 244.35', commuted w/175 az w/25 CaCl. Casing tested ek.

Set 3655.1' of 7-5/8" casing @ 3667.61', emented w/190 az 85 gal and 90 az next. Casing tested ak.

Set 2364.35' of 5-1/2" liner @ 5930', Burne Liner Hanger @ 3545.65', commanded w/150 az reg. Squeezed top of liner w/160 ez reg. "Sected ak.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company	PACIFIC RORTHING PIPELINE CORPORATION
Address	4051 West Broadway

Faceington, Ser Marico

By Original signed by T. A. Dugan

Title **Division Manager**



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL	SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY
NOTICE OF INTENTION TO ABANDON WELL	* Report of Well Completion X
(INDICATE ABOVE BY CHECK MARK NAT	URE OF REPORT, NOTICE, OR OTHER DATA)

The elevation of the annual above sea level is 6386. ft.

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DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Pert 5848-44, 5830-26, 5822-18, 5814-10, 5806-5750, 5784-78, 5774-64, 5756-38, 5730-12, 5560-56, 5540-30, 2 electr/21.

Free v/154,000 gale vatur. 30 25007, 1P 20007, ang 25007, NP 36007, NP 26007, standing 4007, inj rate bafore balls 68 bbls/min, after balls 39-5 bbls/min. Heet 200 rubber balls.

Cleaned out to total depth, set 5221' of 2" tubby @ 5830', completed will.

•.	• I understa	nd that this plan of work must receive approval in w	iting by the Geological Survey before operations may be commenced.
	Company	PACIFIC BERTHURST PIPELINE CO	RPCRATION
	Address	405) Hest Broedung	
		Furnington, Boy Mexico	By Original signed by T. A. Dugan
			Title Mylaton Manager

U.S. GOVERNMENT PRINTING OFFICE : 1956-O-393560



(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Propose to drill to 200' and set 10-3/4" ensing, essent to surface. Set 7-5/8" ensing 0 3700', cement to 1000' above shoe using 05 gel w/50 ax next on bottom. Set 5-1/2" liner 0 9930', cement w/150 ax reg. Bradenhead squeeze top of liner w/50 ax reg if necessary.

Here Verde to be fractured thru perfs using approx 150,000 gals water. Glean out to total depth, run tabing and complete well.

The 2/2 of Section 18, containing 320 sures, is dedicated to this woll.

I understand that this plan of work must receive approval in writing by	the Geological Survey before operation mindle continence	
Company PACIFIC FORTHWEST PIPELINE CORPOR	ATION Of 10	0
Address	ST. CO	7
Farmington, New Mexico	By Original signed by T. Dugan	_
	Title Assistant Division Humger	

REN

U.S. GOVERNMENT PRINTING OFFICE : 1956-0-393560



(19) SHADOW ALLOWABLE: The gas volume calculated for a marginal GPU that is equal to the allowable assigned to a non-marginal GPU in the same pool of the same A (acreage) or A and AD (acreage deliverability) factors as the marginal GPU. [5-30-98]

(20) UNDERPRODUCTION: The volume of assigned non-marginal allowable not produced on a GPU. Underproduction accumulates month to month during the proration period. [5-30-98]

605.B. WELL ACREAGE AND LOCATION REQUIREMENTS

(1) STANDARD GAS PRORATION UNIT SIZE AND WELL SPACING:

- (a) Unless otherwise provided for in applicable special pool rules, gas wells in prorated gas pools shall be drilled according to the well spacing and acreage requirements contained in these Rules provided that when wells are drilled in pools with 640 acre spacing, a government section shall comprise the proration unit.
- (b) Any GPU drilled according to paragraph (a) which contains acreage within the tolerances below shall be considered a standard GPU for calculating allowables:

STANDARD PRORATION UNIT	ACREAGE TOLERANCE
160 acres	158-162 acres
320 acres	316-324 acres
640 acres	632-648 acres

[5-30-98]

- (2) NON-STANDARD GAS PRORATION UNITS:
 - (a) The District Supervisor of the appropriate district office of the Division has the authority to approve a nonstandard GPU without notice and hearing when the unorthodox size and shape of the GPU is necessitated by a variation in the legal subdivision of the U.S. Public Land Surveys and the nonstandard GPU is not less that 75% nor more than 125% of a standard GPU by accepting a Form C-102 land plat showing the proposed nonstandard GPU with the number of acres contained therein, and shall assign an allowable

to the nonstandard GPU based upon the acreage factor for that acreage.

(b) Nonstandard proration units and unorthodox locations may be approved by the Division according to applicable special pool rules or Division Rules.

[5-30-98]

605. C. NOMINATIONS

(1) GAS PURCHASERS OR GAS TRANSPORTERS SHALL NOMINATE: Each gas purchaser or each gas transporter as herein provided shall file with the Division its nomination for the amount of gas which it in good faith desires to purchase and/or expects to transport during the ensuing allocation period from each gas pool regulated by this order. The purchaser may delegate the nomination responsibility to the transporter, operator, or broker by notifying the Division's Santa Fe office. One copy of such nomination for each pool shall be submitted to the Division's Santa Fe office on Form C-121-A by the first day of the month during which the Division will consider at its allocation hearing the nominations for the succeeding allocation period. The Division shall consider at its allocation hearing the nominations received, actual production, and such other factors as may be deemed applicable in determining the amount of gas that may be produced without waste during the ensuing allocation period.

The Division Director may, at his discretion, suspend this rule whenever it appears that the nominations are of little or no value. [5-30-98]

(2) SCHEDULE: The Division shall issue a gas proration schedule for each allocation period showing the monthly allowable for each GPU that may be produced during each month of the ensuing allocation period, the current classification of each GPU, and such other information as is necessary to show the allowable production status of each GPU on the schedule. The Division may issue supplemental proration schedules during an allocation period as necessary to show changes in GPU classification, adjustments to allowables due to changes in market conditions, or to reflect any other changes as the Division deems necessary. [5-30-98]

(3) PRORATION OF ALL GAS WELLS WITHIN A POOL: The Division shall include in the proration schedule the gas wells in the gas pools regulated by this order delivering to a gas transporter, and shall include in the proration schedule any well which it finds is being unreasonably discriminated against through denial of access to a gas transportation facility, which is reasonably capable of handling the type of gas produced by such a well. [5-30-98]

A-4.

MAR-28-2000 0	19:43 NELS	SON CONSULTING		50	5 327 6332	P.02
Form 3160-3 (July 1992)	UNITEI DEPARTMENT BUREAU OF LA	D STATES OF THE INTERIOR ND MANAGEMENT	ROW	//APD	FORM APP Budget Bureau Ne Expires: Februar	ROVED a. 1004-0136 ry 28 , 1995
APPLICA	TION FOR PE	RMIT TO DRILL OR	DEEP	EN	5 Lease Designation and SF-078764	Serial No.
in. Type of Work DR					6. If Indian, Allotive or T	nbe Name
Cil wett Gess Wett	Other	Single Well	Multiple Z	ionie 🗌	Rosa Unit	ent Designation
2 Name of Operator Williams Production	on Company		-		8. Well Name and No. RU-# 22A	
P.O. Box 3102, MS	37-2, Tulsa, OK. 74101	L			9. API Well No.	
4. Location of Well (Footages) At Surface 880' FNL 260' F	WL, NWNW				10. Field and Pool, or Ex Blanco - MV	platery Area
proposed prod. 2040					11. Sec., T., R., M., or BI and Survey or Area Section 18, T3	1N, R5W
14 Distance in Miles and Dire Approxima	ctions from Nearest Town or Post Off tely 20.3 miles northe	ast of Navajo Dam Post Offic	ce (straigh	t line)	12. County or Parish Rio Arriba	13. Stete NM
15 Distance from Proposed (A	iso to nearest drig. unit line, if any)	16.No. of Acres In Lesse		17.No. of Acres Ass	gned to This Well	-
Property or Lease Line. Ft	260'	2507.3 acres		231	.89 acres N/2	
18. Distance from Proposed Loca	Itiva	19. Proposed Depth		20. Rotary or Cable	Tools	
to Nearest Well Drilling, Cou or Applied for, on this Lense,	aplesed. , FT 516'	6287' KB		Rote	iry	
21 Elevations (Show whether D	F, RT, GR, etc)	· · · · · · · · · · · · · · · · · · ·	I	22. Approximate D	nte Wark will Start	
6515' GR		J		Apr	il 1, 2000	
	PRO	POSED CASING AND CEMENTIN	G PROGRA	M		
SIZE OF HOLE	SIZE & GRADE OF CAS	ING WEIGHT PER FOOT	350	NG DEPTH	QUANTITY OF	CEMENT
9.3//*	<u>- 3-0/0</u> 7*	20#	3952'		130 5X-1/6 CU T	1 ype 111
0-3/4		2017	JUJZ		242 Cu ft-Type III	- X3 C / 3 8X-
6-1/4"	4-1/2"	10.5#	3752' -	- 6287'	80 sx-116-cuft 19 Poz/Class H 50/5	0 sx-276cuft

Williams Exploration & Production proposes to drill a vertical well to develop the Mesa Verde Formation at the above described location, in accordance with the attached Operation and Surface Use plans. The surface is under the jurisdiction of the Bureau of Land Management. Moore Anthropological Research of Aztec, NM, has surveyed the proposed location for Cultural Resources. The report has been submitted to your office for review.

This APD also is serving as an application to obtain BLM road and pipeline on lease rights-of-way. This well will require the construction of a new 800-foot access road (see Pipeline & Well Plats #3 and #4). The proposed 516-foot long pipeline would tie into the Williams Gathering System on the Rosa Unit Well #227 (see the attached Pipeline Plat Map # 4).

Réabby d'anatist post and the second second second to deepen, give present productive zone and proposed new productive zone. Signed	COPIES; BLM+4, WELL FILE+1 Dure February 24, 2000
(This space for Federal or State office use)	
Appa Application approval does not warrant or certify thatt applicant holds legal or equitable litle to those rights in the subject lesse which would entitie the Conditions of approval, if any.	applicant to conduct operations thereon.





Exploration & Production Operations Plan

DATE: 2/09/00

WELLNAME:	ROSA UNIT #22A	FIELD:	Blanco MV
LOCATION:	Lot 1 Sec.18, T31N, R5W	SURFACE:	BLM
ELEVATION:	6515'GR	MINERALS:	Federal
<u>TOTAL DEPTH:</u>	6287`	<u>LEASE #</u>	SF-078764
I. <u>GEOLOGY:</u>	Surface formation - San Jose		

A. FORMATION TOPS:

Ojo Alamo	2627'	Cliff House	5567'
Kirkland	2757'	Menefee	5612'
Fruitland	3147'	Point Lookout	5837`
Pictured Cliffs	3377'	Mancos	6157'
Lewis	3667'	Total Depth	6287'

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	DEPTH	CASING SIZE	WT. & GRADE
Surface	12-1/4"	250'	9-5/8"	36# K-55
Intermediate	8-3/4"	3852'	7"	20# K-55
Prod. Liner	6-1/4"	3752'-6287'	4-1/2"	10.5# K-55

B. FLOAT EQUIPMENT:

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

Rosa Unit #22A Operation Plan Page #2

- <u>INTERMEDIATE CASING</u>: 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 2800' to the surface. Total centralizers = 5 regular and 23 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 5500'.

C. <u>CEMENTING:</u>

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>440sx</u> (916 cu.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>175sx</u> (242cu.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 = 1158 cu.ft. WOC 12 hours. Test to 1500#.

3. <u>PRODUCTION LINER</u>: Lead - <u>80sx</u> (116 cu.ft.) of Poz/Class H, 50/50 with 4 % gel, 0.4% FL-50, 1% CaCl2, (Yield = 1.45 cu.ft./sk, Weight = 13.2 #/gal.) Tail - <u>190sx</u> (276 cu.ft.) of Poz/Class H, 50/50 with 4 % gel, 0.4% FL-50, 1% CaCl2, 4% Phenoseal and 1/4# cello-flake/sk (Yield = 1.46 cu.ft./sk, Weight = 13.2 #/gal.) Displace cement at a minimum of 8 BPM. Use 50% excess in lead and tail to cover liner top. Total volume 390 cuft. WOC 12 hours.

IV COMPLETION

A. <u>CBL</u>

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

file:#22A.opp



EXHIBIT 1



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. ۰..

EXHIBIT 2

Choke Manitold & Accumulator Schematic



To Mud Tanks



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GENERAL ROSA UNIT DRILLING PLAN

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OSA UNIT BOUNDARIES: TJIN, ROAW: AI - Except sections 32-36; TJIN, ROSW: AI - Except sections 1 & 2 TJIN, ROSW: AI - Except sections 5,7,18,20,27-36; TJ2N, ROSW: Sections 32-35

ORMATION CHARACTERISTICS:

FORMATION	LITHOLOGY	WATER	GAS	OIL	OVER PRES.	LOST CIRC.
NACIMIENTO	interbedded shales, sätstones & sandstones	no	no	no	no	ne
OJO ALAHO	Sandstone & conglomorates w/ lenses of shale	fresh	ho	no	no	no
KIRTLAND	Shale w/ Interbedded sandstones	no	poss,	ກວ່	no	ho
FRUITLAND	Inter, SS, SISI, SH & Coals of Carb. SS, SISI, SH	yes	yes	no	poss.	no
PICTURED CLIFFS	Massive Sundstone w/ thin Interbedded Shales	poss.	yes	poss,	no	poss.
LEWIS	Shale w/ thin Interbedded sandstones & sitstones	<u>n</u>	poss.	no	no	no
CLIFF HOUSE	Transgressive sandstone	poss.	yes	no	no	no
MENEFEE	Sandstones, Carb shales & coal	poss.	yes	no	60	tua -
POINT LOOKOUT	Regressive coastal barrier sandstone	pòss.	yes	poss.	no	yes
MANCOS ·	Marino shale	no	no	no	00	80

DRILLING

³otential Hazards

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

Mud System

- 1. 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 # /gal range. Viscosities will be in the 30 to 60 sec/ort range as needed to remove drill outlings.
- 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 #/gal range as needed to control the well. Viscocities will be in the 45 to 55 range as needed to support any weight material. The weight material will consist of Barite.
- 3. Production: The well will be drilled using natural gas from the fintermediate casing point to TD.

ROSA UNIT PORE PRESSURES				
FORMATION	DEPTH	FRAC GRADIENT	PORE PRESSURE	RESERVOIR PRESS
FRUITLAND	2950	0.69	1578	1400
PICTURED CLIFFS	3200	Q.65	1520	1400
CLIFF HOUSE	5200	0,50	1300	1200
MENEFEE	5350	0.50	1338	1200
POINT LOOKOUT	5650	0.48	1201	1200
GALLUP	6800	0.55	2210	2000
DAKOTA	7850	0.65	3729	2600
Based on: F = 1/3(1+2Pl/D Pl = (3F -)D/2		Where: F ≃ Frac Gradient Pf ≃ Pore Pressure D = Depth		

MULTI-POINT SURFACE USE PLAN ROSA UNIT Well #22A

1. Existing Roads:

All existing roads used to access the proposed location are shown on the attached Plat Map #1 and shall continue to be maintained in the same or better condition than presently maintained.

2. Planned Access Roads:

The proposed Rosa Unit Well #22A would require the construction of 800 feet of new access road, and would begin at an existing gas field road. The new access road would be maintained in at least the same manner and like current condition as all other gas field roads in the vicinity, and will be upgraded where necessary to provide uninterrupted access to the proposed well location.

3. Location of Existing Wells:

There are approximately 23 existing wells within a one-mile radius of the proposed Rosa Unit Well #22A (see Plat Map #1).

4. Location of Production Facilities:

The production facilities would be located on the drill pad. The actual placement of this equipment would be determined when the well's production characteristics can be evaluated after well completion.

The 4-1/2-inch diameter, 516-foot long buried steel pipeline would be constructed. The pipe wall thickness would be 0.188-inch, and the wall strength would be 1,750 PGSI. The proposed Rosa Unit Well #22A well would be connected to the Williams Gathering System and would tie into the Rosa Unit Well #227. The well pipeline would not be used for the transporting of natural gas for the purpose of drilling the Rosa Unit Well #22A (Refer to attached Plat Map #4 for pipeline tie-in details).

To protect wildlife and livestock, the reserve pit would be fenced. Appropriate dikes would enclose tanks placed on the well pad that would be used during the production process.

Upon completion of the drilling process, the well location and surrounding area would be cleared of all debris.

5. Water Supply:

Water for the drilling and completion operations would be hauled by truck from Navajo Lake, La Jara waterhole.

6. Source of Construction Materials:

No additional construction materials would be required to construct the proposed well location.

- 7. Methods for Handling Waste Disposal:
 - a. The drill cuttings, fluids, and completion fluids would be placed in the reserve pit. Three sides of the reserve pit would be fenced prior to setting the rig on location and beginning the drilling process. Upon completion of the proposed well the reserve pit would be allowed to dry, and materials remaining in the reserve pit would be buried. The reserve pit would be back-filled, leveled, and re-contoured to prevent any materials from being transported via run-off into any existing watersheds. The portion of the well location not needed for the production facilities would then be re-contoured, leveled, and reseeded with the appropriate BLM stipulated seed mixture.
 - b. All garbage and trash would be placed in a metal trash cage. All trash would be hauled off to a State of New Mexico approved landfill for disposal.
 - c. Portable toilets would be provided and maintained for human use during the drilling and completion operations (see Plat Map #2).

8. Ancillary Facilities:

Ancillary facilities are to be based on the proposed wells productivity. See the proposed gathering pipeline for this proposed well on Plat Map # 4.

9. Well Site Layout:

A cross section of the drill pad with the approximate cuts, fills, and pad orientation is attached as Plat # 3. Location of the drilling equipment, rig orientation, and access road is on the attached Plat Maps #2 and #3.

10. Plans for Restoration of Surface:

When the proposed well is abandoned, the well location and access road would be restored to as near its original condition as possible. The area would be seedbed prepped and reseeded with the appropriate BLM seed mixture.

Should the proposed well be productive, areas not used in production would be recontoured and reseeded with the BLM stipulated seed mixture. Production equipment would be painted the color designated by the BLM to blend into the surrounding ecosystem. 11. Surface Ownership:

The Bureau of Land Management, Farmington Field Office is the surface managing agency.

12. Other Information:

The proposed well is within the Rosa Big Game Wintering Habitat Area and has a seasonal closure of December 1 to April 1 for any surface disturbing activities.

The soils in the proposed well location area exist of alluvial, eolian, and colluvium material derived from sandstone and shale.

Moore Anthropological Research of Aztec, NM, has submitted the Cultural Resources Survey Report to the BLM.

Cabresto Canyon an arm of Navajo Reservoir is approximately one mile northeast of the proposed well.

13. Lessee's or Operator's Representative:

Steve Nelson, President Nelson Consulting, Inc. 600 Reilly Ave. Farmington, NM 87401

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Williams Exploration and Production, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to 18 U.S. Code 1001 for the filing of a false statement.

February 24, 2000

Eneller

Steve Nelson, President







Plat Map #3

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TINDS THAPPING DRAWINGS SAN JUAN 765 100 4647650-99-1, HURDWG 0271472000 BISBAN JHUFT MAN

Plat Map #4

Form.3160.3 (July 1992)	UNILE DEPARTMENT BUREAU OF L	D STATES OF THE INTERIOR AND MANAGEMENT	ROV	W/APD	FORM APP Budget Bureau N Expires: Februa	ROVED 6. 1004-0136 ry 28, 1995
APPLICA	TION FOR PE	RMIT TO DRILL OI	R DEEF	PEN	5. Lease Designation and SF-078764	l Serial No.
la. Type of Work DR		DEEPEN 🗖 070 88368		4	6. If Indian, Allotter or T	ribe Name
Oil Well Gas Well	Other	Single Well	Multiple	Zone	Rosa Unit	acut Designation
• 2. Name of Operator Williams Explorat	ion & Production				8. Well Name and No. RU-# 182	
P.O. Box 3102, MS	37-2, Tulsa, OK. 7410	1	<u>,,</u>		9. API Well No. 30-039	7-26283
4. Location of Well (Footages) At Surface 1085' FSL 790'	FWL (SESW)				10. Field and Pool, or Ex Blanco - MV	platory Area
At proposed prod. zone	Same				11. Sec., T., R., M., or Bi and Survey or Area Section 18, T3	1K. 81N, R5W
14. Distance in Miles and Dire 20.2 miles	ctions from Nearest Town or Post Of East Navajo Dam Po	nce st Office (straight line)			12. County or Parish Rio Arriba	13. Stete NM
15.Distance from Proposed (Also to nearest drig. unit line, if any)	16.No. of Acres in Lease		17.No. of Acres Assi	gned to This Well	••L
Location to Nearest Property or Lease Line, Ft	790'	2507.3 acres		231.	83 acres S/2	
18 Distance from Proposed Loc	reposed Location 19. Proposed Depth 20. Rotary or Cable 7			Foois		
to Nearest Well Drilling, Con or Applied for, on this Lease	lling, Completed, his Lesse, FT 200' 6107' Rotar		ry			
21.Elevations (Show whether D	Elevations (Show whether DF, RT, GR, etc)		ate Work will Start			
6335' GR				Apri	1 1, 2000	
	PRO	POSED CASING AND CEMENTI	NG PROGR	AM		
SIZE OF HOLE	SIZE & GRADE OF CAS	ING WEIGHT PER FOOT	250'	TING DEPTH	QUANTITY OF	CEMENT
8-3/4"	7"	20#	3672'		410 sx-862 cu ft l 242 Cu ft-Type III	Lite 175 sx-
6-1/4"	4-1/2"	10.5#	3572' – 6107' 70 sx-150-cuft 110 sx-240cuft Lite HS 65/35		0 sx-240cuft	

Williams Exploration & Production proposes to drill a vertical well to develop the Mesa Verde Formation at the above described location, in accordance with the attached Operation and Surface Use plans. The location has been surveyed for Cultural Resources by Moore Antropological Research. The report has been submitted to your office for review.

This APD also is serving as an application to obtain BLM road and pipeline rights-of-way. This well will be accessed by constructing approximately 150-feet of a new re-routed access road which ties into an existing road (see plat #4). The proposed 245-foot long pipeline would tie into the Williams Gathering System (see the attached Plat Map # 4).

This action is subject to technical and precedural 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"

BAAB WE'NFACTIONS Range Provide State Avec 1 proposal to deepen, give present productive zone and proposed new productive zone. Signed Steve Nelson Title Agent	COPIES: BLM+4, WELL FILE+1 Date December 21, 1999
(This space for Federal or State office use) Permit No.	proval Date
Application approval does not warrant or certary that applicant holds legal or enumable the to those name in the unice lease which would entitle the Conditions of approval, if any	Explicant to conduct operations thereon.



Exploration & Production Operations Plan

DATE: 11/30/99

WELLNAME:	ROSA UNIT #182	FIELD:	Blanco MV
LOCATION:	SESW Sec.18, T31N, R5W Bio Arriba Co. NM	SURFACE:	BLM
ELEVATION:	6335' GR	MINERALS:	Federal
<u>TOTAL DEPTH:</u>	6107'	LEASE #	SF-078764
I. <u>GEOLOGY:</u>	Surface formation - San Jose		

A. FORMATION TOPS:

Ojo Alamo	2447'	Cliff House	5387'
Kirkland	2577'	Menefee	5432'
Fruitland	2967'	Point Lookout	5657'
Pictured Cliffs	3197'	Mancos	5977'
Lewis	3487'	Total Depth	6107'

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	DEPTH	CASING SIZE	WT. & GRADE
Surface	12-1/4"	250'	9-5/8"	36# K-55
Intermediate	8-3/4"	3672'	7"	20# K-55
Prod. Liner	6-1/4"	3572'-6107'	4-1/2"	10.5# K-55

B. FLOAT EQUIPMENT:

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

Rosa Unit #182 Operation Plan Page #2

- <u>INTERMEDIATE CASING:</u> 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 2625' to the surface. Total centralizers = 5 regular and 22 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. <u>CEMENTING:</u>

1. <u>SURFACE</u>: Use <u>130 sx</u> (176cu.ft.) of class "Type III" with 2% CaCl2 and <u>1/4</u># 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>410sx</u> (862cu.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>175sx</u> (242cu.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. <u>PRODUCTION LINER</u>: 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 - 110 sx (240 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 390 cuft. WOC 12 hours.

IV COMPLETION

A. <u>CBL</u>

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. <u>RUNNING TUBING</u>

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




PHOTOREVISED 1982









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. EXHIBIT 2

Choke Manifold & Accumulator Schematic



To Mud Tanks



GENERAL ROSA UNIT DRILLING PLAN

ISA UNIT BOUNDARIES: T31N, RO4W: AI - Except sections 32-36; T31N, RO5W: AI - Except sections 1 & 2 T31N, RO5W: AI - Except sections 6,7,18,20,27-36; T32N, RO5W: Sections 32-36

RMATION CHARACTERISTICS:

			والبري المستخدر بالمحتمي والمري			
FORMATION	LITHOLOGY	WATER	GAS	OIL	OVER PRES.	LOST CIRC.
NACIMIENTO	Interbedded shales, siltstones & sandstones	no	no	no	no	70
OJO ALAMO	Sandstone & congiomerates w/ lenses of shale	fresh	no	no	no	ŝ
KIRTLAND	Shale w/ interbedded sandstones	no	poss.	no	no	no
FRUITLAND	Inter, SS, SRSLSH & Coals w/ Carb. SS, SRSL, SH	yes	yes	no	poss.	m
ICTURED CLIFFS	Massive Sandstone w/ thin Interbedded Shales	poss.	yes	poss.	no	poss.
LEWIS	Shale w/ thin Interbedded sandstones & slitstones	no	poss.	no	no	no
CLIFF HOUSE	Transgressive sandstone	poss.	yes	no	no	no
MENEFEE	Sandstones, Carb shales & coal	poss.	yes	по	no	no
OINT LOOKOUT	Regressive coastal barrier sandstone	pòss.	yes	poss.	no	yes
MANCOS ·	• - Marine shale	no	no	no .	no	. no

DRILLING

otential Hazards

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

lud System

- 1. 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 # /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 #/gal range as needed to control the well. Viscocities will be in the 45 to 55 range as needed to support any weight material. The weight material will consist of Barite.

3. Production: The well will be drilled using natural gas from the fintermediate casing point to TD.

	ROSA	UNIT PORE PRE	SSURES	•
FORMATION	DEPTH	FRAC GRADIENT	PORE PRESSURE	RESERVOIR PRESS
FRUITLAND	2960	0.69	1578	1400
PICTURED CLIFFS	3200	0.65	1520	1400
CLIFF HOUSE	5200	0.50	1300	1200
MENEFEE	5350	0.50	1338	1200
POINT LOOKOUT	5650	0.48	1201	1200
GALLUP	6800	0.55	2210	2000
DAKOTA	7850	0.65	3729	2600
8ased on: F = 1/3(1+2P1/D	v	Vhere: F = Frac Gradient		
Pf = (3F -)D/2		Pf = Pore Pressure D = Depth .	.	

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MULTI-POINT SURFACE USE PLAN ROSA UNIT Well #182

1. Existing Roads:

All existing roads used to access the proposed location are shown on the attached Plat #1, and shall continue to be maintained in the same or better condition than presently maintained.

2. Planned Access Roads:

Approximately 150-feet of new access road would be constructed for this location (See Plat Maps #3 and 4 for details). The existing access road and new access road will be maintained in at least the same manner and like current condition, and will be upgraded where necessary to provide uninterrupted access to the proposed location.

3. Location of Existing Wells:

The attached Plat #1 shows the 20 existing wells within a one-mile radius of the proposed well (Rosa Unit #182).

4. Location of Production Facilities:

The production facilities would be located on the drill pad. The actual placement of this equipment would be determined when the well's production characteristics can be evaluated after well completion.

The 4-1/2-inch diameter, 245-foot long buried steel pipeline would be constructed. The pipe wall thickness would be 0.188-inch, and the wall strength would be 1,750 PGSI. The proposed RU Well #182 well would be connected to the Williams Company's Gathering System. The well pipeline would not be used for the transporting of natural gas for the purpose of drilling the RU Well # 182 (Refer to attached Plat #3 for pipeline tie-in details).

To protect wildlife and livestock, the reserve pit would be fenced. Appropriate dikes would enclose tanks placed on the well pad that would be used during the production process.

Upon completion of the drilling process, the well location and surrounding area would be cleared of all debris.

5. Water Supply:

Water for the drilling and completion operations would be hauled by truck from Navajo Lake or the La Jara Waterhole.

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6. Source of Construction Materials:

No additional construction materials would be required to construct the proposed well location.

- 7. Methods for Handling Waste Disposal:
 - a. The drill cuttings, fluids, and completion fluids would be placed in the reserve pit. Three sides of the reserve pit would be fenced prior to setting the rig on location and beginning the drilling process. Upon completion of the proposed well the reserve pit would be allowed to dry, and materials remaining in the reserve pit would be buried. The reserve pit would be back-filled, leveled, and re-contoured to prevent any materials from being transported via run-off into any existing watersheds. The portion of the well location not needed for the production facilities would then be re-contoured, leveled, and reseeded with the appropriate BLM stipulated seed mixture.
 - b. All garbage and trash would be placed in a metal trash cage. All trash would be hauled off to a State of New Mexico approved landfill for disposal.
 - c. Portable toilets would be provided and maintained for human use during the drilling and completion operations. See attached Plat #2.

8. Ancillary Facilities:

Ancillary facilities are to be based on the proposed wells productivity. See the proposed gathering pipeline for this proposed well on Plat # 3.

9. Well Site Layout:

A cross section of the drill pad with the approximate cuts, fills, and pad orientation is attached as Plat # 4. Location of the drilling equipment, rig orientation, and access road is on the attached Plat #2.

10. Plans for Restoration of Surface:

When the proposed well is abandoned, the well location and access road would be restored to as near its original condition as possible. The area would be seedbed prepped and reseeded with the appropriate BLM seed mixture.

Should the proposed well be productive, areas not used in production would be recontoured and reseeded with the BLM stipulated seed mixture. Production equipment would be painted the color designated by BLM to blend into the surrounding ecosystem.

11. Surface Ownership:

The Bureau of Land Management is the surface managing agency.

12. Other Information:

The proposed well is within the BLM designated Rosa Big Game Wintering Range Habitat Area, that has a seasonal closure of December 1 to April 1.

The soils in the proposed well location area exist of alluvial, eolian, and colluvium material derived from sandstone and shale.

The Cultural Resources Survey Report has been submitted to BLM by Moore Anthropological Research.

Cabresto Canyon, an arm of Navajo Lake is approximately 1.2 miles northeast of the proposed location at its nearest point.

13. Lessee's or Operator's Representative:

Steve Nelson, President Nelson Consulting, Inc. 600 Reilly Ave. Farmington, NM 87401

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Williams Exploration and Production, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to 18 U.S. Code 1001 for the filing of a false statement.

December 17, 1999

Steve Nelson, President





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PLAT # 2 LOCATION DIAGRAM

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Form 3160-3 (July 1992)	UNITED DEPARTMENT C BUREAU OF LAN	STATES OF THE INTERIOR ID MANAGEMENT	ROV	V/APD	FORM APP Budget Bureau N Expires: Februar	ROVED 5. 1004-0136 9 28, 1995
APPLICA	TION FOR PER	MIT TO DRILL OI	RDEEP	EN ML IN	5. Lease Designation and	Serial No.
1a. Type of Work			070 FA	Na Sirta,	6. If Indian, Allottee or T	ribe Name
Oil Well Gas Well	Other	Single Well	Multiple	Zone	7. If Unit or CA, Agreent Rosa Unit	ent Designation
2. Name of Operator Williams Explorat	ion & Production				8. Well Name and No. RU-# 182A	
P.O. Box 3102, MS	37-2, Tulsa, OK. 74101				9. API Well No.	
4. Location of Well (Footages) At Surface 1070' FSL 107	0' FEL (SESE)				10. Field and Pool, or Ex Blanco - MV	latory Area
At proposed prod. zone	Same				11. Sec., T., R., M., or BL and Survey or Area Section 18, T3	к. 1N, R5W
14. Distance in Miles and Dire 20.6 miles	etions from Nearest Town or Post Office East Navajo Dam Post	Office (straight line)			12. County or Parish Rio Arriba	13. Stete NM
15.Distance from Proposed (Also to nearest drig, unit line, if any) 1	6.No. of Acres in Lease		17.No. of Acres Assig	ned to This Well	
Property or Lease Line, Ft	1070'	2507.3 acres		231.8	83 acres S/2	
18.Distance from Proposed Loc	ation	9. Proposed Depth		20. Rotary or Cable 7	Fools	··· · · · ·
to Nearest Well Drilling, Con or Applied for, on this Lease	npleted,	6209'		Rota	rv	
21.Elevations (Show whether D	F, RT, GR, etc)			22. Approximate Da	te Work will Start	······································
6429' GR				Apri	l 1, 2000	
	PROP	OSED CASING AND CEMENTI	ING PROGRA	M		
12-1/4"	9-5/8"	36#	250'	ING DEPTH	130 sx-176 cu ft 7	VDe III
8-3/4"	7"	20#	3771'		430 sx-892 cu ft L 242 Cu ft-Type III	ite 175 sx-
6-1/4"	4-1/2"	10.5#	3671' -	- 6209'	70 sx-150-cuft 11 Lite HS 65/35	0 sx-240cuft

Williams Exploration & Production proposes to drill a vertical well to develop the Mesa Verde Formation at the above described location, in accordance with the attached Operation and Surface Use plans. The location has been surveyed for Cultural Resources by Moore Antropological Research. The report has been submitted to your office for review.

This APD also is serving as an application to obtain BLM road and pipeline rights-of-way. This well will be accessed by an existing access road which accesses the Rosa Unit Well # 203 (see plat #4). The proposed 321-foot long pipeline would tie into the Williams Gathering System (see the attached Plat Map # 4).

This action is artifact to technical and procedural raview purceast to 48 CFN 8165.3 and appeal purceast to 48 CFN 8165.4.

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

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BAABOVEDSTATISCHEREITES	Steve Nelson Title Agent	COPIES: BLM+4, WELL FILE+1 Date December 22, 1999
(This space for Federal or State office Permit No. Application approval does not warfagt	Appro or cerrify that applicant holds legal of equitable title to those rights in the subject lease which would entitle the s	val Date
Conditions of approval, if any,	hi Beechan OPERATOR TEAM	DATE 3/2/00



Exploration & Production *Operations Plan*

DATE: 11/30/99

LOCATION:SESE Sec.18, T31N, R5W Rio Arriba Co., NMSURFACE:BLM BLMELEVATION:6429' GRMINERALS:FedeTOTAL DEPTH:6206'LEASE #SF-0	inco MV
ELEVATION:6429' GRMINERALS:FedeTOTAL DEPTH:6206'LEASE #SF-0	.M
TOTAL DEPTH: 6206' LEASE # SF-0	deral
	-078764
I. <u>GEOLOGY</u> : Surface formation - San Jose	

A. FORMATION TOPS:

Ojo Alamo	2546'	Cliff House	5486'
Kirkland	2676'	Menefee	5531'
Fruitland	3066'	Point Lookout	5756'
Pictured Cliffs	3296'	Mancos	6076'
Lewis	3586'	Total Depth	6206'

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"	3771'	7"	20# K-55
Prod. Liner	6-1/4"	3671'-6206'	4-1/2"	10.5 # K-5 5

B. FLOAT EQUIPMENT:

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

Rosa Unit #182A Operation Plan Page #2

- <u>INTERMEDIATE CASING</u>: 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 2725' to the surface. Total centralizers = 5 regular and 23 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 5400'.

C. <u>CEMENTING:</u>

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>430sx</u> (892cu.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>175sx</u> (242cu.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 = 1143 cu.ft. WOC 12 hours. Test to 1500#.

3. <u>PRODUCTION LINER:</u> 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 - 110 sx (240 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 390 cuft. WOC 12 hours.

IV COMPLETION

A. <u>CBL</u>

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



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PHOTOREVISED 1982



T:\DS\MAPPING\DRAWINGS\SANJUAN\765\00\4647650-90-1_R01.DWG 10/05/1999 3:33PM JHUFFMAN

WILLIAMS PRODUCTION COMPANY ROSA UNIT #182A 1070' FSL & 1070' FEL, SECTION 18, T31N, R5W, NMPM RIO ARRIBA COUNTY, NEW MEXICO, GROUND ELEVATION: 6429'



EXHIBIT 1





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. Choke Manitold & Accumulator Schematic



To Hud Tanks



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GENERAL ROSA UNIT DRILLING PLAN

OSA UNIT BOUNDARIES: TJ1N, RO-W: AI - Except sections 32-36; TJ1N, RO5W: AI - Except sections 1 & 2 TJ1N, RO5W: AI - Except sections 6,7,18,20,27-36; TJ2N, RO5W: Sections 32-36

ORMATION CHARACTERISTICS:

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	والمستجد والمراجع والمنافع والمتعادي والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد والمتعاد	سيري الباري ويترجي المريد ويرتب				
FORMATION	LITHOLOGY	WATER	GAS	OIL	OVER PRES.	LOST CIRC.
NACIMIENTO	Interbedded shales, sitstones & sandstones	no	m	no	no	no
OMALA OLO	Sandstone & conglomerates w/ lenses of shale	fresh	m	no	no	no
KIRTLAND	Shale w/ interbedded sandstones	no	poss.	no	no	no
FRUITLAND	Inter, SS, SISLSH & Coals w/ Carb. SS, SISL SH	yes	yes	10	poss.	no
PICTURED CLIFFS	Massive Sandstone w/ thin Interbedded Shales	poss.	yes	poss.	no	poss.
LEWIS	Shale w/ thin Interbedded sandstones & slitstones	no	poss.	n 0	no	no
CLIFF HOUSE	Transgressive sandstone	poss.	yes	no	no	no
MENEFEE	Sandstones, Carb shales & coal	poss.	yes	no	00	no
POINT LOOKOUT	Regressive coastal barrier sandstone	pòss.	yes	poss.	no	yes
MANCOS ·	· · Marine shale	no	no	no	no	. no

DRILLING

²otential Hazards

1. There are no overpressured zones expected in this well.

2. No H2S zones will be permitted while drilling this well.

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Mud System

- 1. 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 # /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 #/gal range as needed to control the well. Viscocities will be in the 45 to 55 range as needed to support any weight material. The weight material will consist of Barite.

3. Production: The well will be drilled using natural gas from the fintermediate casing point to TD.

	RÔSA	UNIT PORE PRE	ESSURES	•
FORMATION	DEPTH	FRAC GRADIENT	PORE PRESSURE	RESERVOIR PRESS
FRUITLAND	2950	0.89	1578	1400
PICTURED CLIFFS	3200	0.65	1520	1400
CLIFF HOUSE	5200	0.50	1300	1200
MENEFEE	5350	0.50	1338	1200
POINT LOOKOUT	5650	0.48	1201	1200
GALLUP	6800	0.55	2210	2000
DAKOTA	7850	0.65	3729	2600
Based on: F = 1/3(1+2P1/D P1 = (3F -)D/2	V	Vhere: F = Frac Gradient Pf = Pore Pressure D = Depth .		· ·

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MULTI-POINT SURFACE USE PLAN ROSA UNIT Well #182A

1. Existing Roads:

All existing roads used to access the proposed location are shown on the attached Plat #1, and shall continue to be maintained in the same or better condition than presently maintained.

2. Planned Access Roads:

The well would be accessed by an existing road (the Rosa Unit Well # 203) and would not require any new road construction for this location (See Plat Maps #3 and 4 for details). The existing access road and new access road will be maintained in at least the same manner and like current condition, and will be upgraded where necessary to provide uninterrupted access to the proposed location.

3. Location of Existing Wells:

The attached Plat #1 shows the 15 existing wells within a one-mile radius of the proposed well (Rosa Unit #182A).

4. Location of Production Facilities:

The production facilities would be located on the drill pad. The actual placement of this equipment would be determined when the well's production characteristics can be evaluated after well completion.

The 4-1/2-inch diameter, 321-foot long buried steel pipeline would be constructed. The pipe wall thickness would be 0.188-inch, and the wall strength would be 1,750 PGSI. The proposed RU Well #182A well would be connected to the Williams Company's Gathering System. The well pipeline would not be used for the transporting of natural gas for the purpose of drilling the RU Well # 182A (Refer to attached Plat #3 for pipeline tie-in details).

To protect wildlife and livestock, the reserve pit would be fenced. Appropriate dikes would enclose tanks placed on the well pad that would be used during the production process.

Upon completion of the drilling process, the well location and surrounding area would be cleared of all debris.

5. Water Supply:

Water for the drilling and completion operations would be hauled by truck from Navajo Lake or the La Jara Waterhole.

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6. Source of Construction Materials:

No additional construction materials would be required to construct the proposed well location.

- 7. Methods for Handling Waste Disposal:
 - a. The drill cuttings, fluids, and completion fluids would be placed in the reserve pit. Three sides of the reserve pit would be fenced prior to setting the rig on location and beginning the drilling process. Upon completion of the proposed well the reserve pit would be allowed to dry, and materials remaining in the reserve pit would be buried. The reserve pit would be back-filled, leveled, and re-contoured to prevent any materials from being transported via run-off into any existing watersheds. The portion of the well location not needed for the production facilities would then be re-contoured, leveled, and reseeded with the appropriate BLM stipulated seed mixture.
 - b. All garbage and trash would be placed in a metal trash cage. All trash would be hauled off to a State of New Mexico approved landfill for disposal.
 - c. Portable toilets would be provided and maintained for human use during the drilling and completion operations. See attached Plat #2.
- 8. Ancillary Facilities:

Ancillary facilities are to be based on the proposed wells productivity. See the proposed gathering pipeline for this proposed well on Plat # 3.

9. Well Site Layout:

A cross section of the drill pad with the approximate cuts, fills, and pad orientation is attached as Plat # 4. Location of the drilling equipment, rig orientation, and access road is on the attached Plat #2.

10. Plans for Restoration of Surface:

When the proposed well is abandoned, the well location and access road would be restored to as near its original condition as possible. The area would be seedbed prepped and reseeded with the appropriate BLM seed mixture.

Should the proposed well be productive, areas not used in production would be recontoured and reseeded with the BLM stipulated seed mixture. Production equipment would be painted the color designated by BLM to blend into the surrounding ecosystem.

11. Surface Ownership:

The Bureau of Land Management is the surface managing agency.

12. Other Information:

The proposed well is within the BLM designated Rosa Big Game Wintering Range Habitat Area, that has a seasonal closure of December 1 to April 1.

The soils in the proposed well location area exist of alluvial, eolian, and colluvium material derived from sandstone and shale.

The Cultural Resources Survey Report has been submitted to BLM by Moore Anthropological Research.

Cabresto Canyon, an arm of Navajo Lake is approximately one mile north of the proposed location at its nearest point.

13. Lessee's or Operator's Representative:

Steve Nelson, President Nelson Consulting, Inc. 600 Reilly Ave. Farmington, NM 87401

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill-site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Williams Exploration and Production, and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to 18 U.S. Code,1001 for the filing of a false statement.

December 22, 1999

An plan

Steve Nelson, President





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WILLIAMS PRODUCTION COMPANY ROSA UNIT #182A 1070' FSL & 1070' FEL, SECTION 18, T31N, R5W, NMPM RIO ARRIBA COUNTY, NEW MEXICO, GROUND ELEVATION: 6429'



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N ROSA UNIT MESAVERDE FORMATION WELLS 2/1/2000 / 7 / 1 / 1 / 2 Scale 1:110059.82

MESAVERDE PARTICIPATING AREA

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5.4



Williams Production Company One Williams Center P.O. Box 3102 Tulsa, Oklahoma 74101



February 4, 2000

FEB 1 5 2000

Assistant District Manager, Minerals Bureau of Land Management Farmington Resource Area 1235 La Plata Highway Farmington, New Mexico 87401 State of New Mexico Oil Conservation Commission 2040 South Pacheco Santa Fe, New Mexico 87505

State of New Mexico Commissioner of Public Lands P. O. Box 1148 Santa Fe, New Mexico 87504-1148

Re: Rosa Unit I, Sec.No.587 San Juan and Rio Arriba Counties, New Mexico 2000 Plan of Development

Gentlemen:

By letters dated February 9, April 30, August 3 and September 9, 1999, Williams Production Company as Rosa Unit Operator, filed the 1998 Plan of Development for the Rosa Unit. Following is a summary of the operations proposed under the 1999 Plan of Development:

Well Name	Formation	Operations Status
Rosa Unit #5Y	Mesaverde	Completed/Producing
Rosa Unit #12A	Pictured Cliffs	Completed/Producing
Rosa Unit #16B	Mesaverde	Completed/Producing
Rosa Unit #16C	Mesaverde	Completed/Producing
Rosa Unit #20B	Mesaverde	Completed/Producing
Rosa Unit #20C	Mesaverde	Completed/Producing
Rosa Unit #21A	Mesaverde	Carry Over to 2000 P.O.D.
Rosa Unit #25A	Mesaverde	Carry Over to 2000 P.O.D.
Rosa Unit #30A	Mesaverde	Completed/Producing
Rosa Unit #34A	Mesaverde	Completed/Producing
Rosa Unit #44A	Mesaverde	Completed/Producing
Rosa Unit Com #60	Mesaverde	Completed/Producing
Rosa Unit Com #60A	Mesaverde	Completed/Producing
Rosa Unit #75	Mesaverde	Completed/Producing
Rosa Unit #75A	Mesaverde	Carry Over to 2000 P.O.D.
Rosa Unit Com #129	Mesaverde	Carry Over to 2000 P.O.D.

Page 2
2/4/00

Well Number	Formation	Operations Status
Rosa Unit Com #129A	Mesaverde	
Rosa Unit #137A (Pictured Cliffs/	Pictured Cliffs	Completed/Producing
Mesaverde Dual)	Mesaverde	Completed/Producing
Rosa Unit #162	Mesaverde	Completed/Producing
Rosa Unit #162	Mesaverde	Completed/Producing
Rosa Unit #162 Λ	Mesaverde	Completed/Producing
Rosa Unit #164 Δ	Mesaverde	Completed/Producing
Rosa Unit #165 (Pictured Cliffs)	Dictured Cliffs	Completed/Producing
	Mesaverde	Completed/Producing
Resaultrit #165A	Mosoverde	Completed/Producing
Rosa Unit #167	Mesaverde	Completed/Producing
Rosa Unit #167	Mesaverde	Completed/Producing
Rosa Unit Com #169	Mesaverde	Completed/Producing
Rosa Unit Com #169A	Mesoverde	Completed/Producing
Rosa Unit #3/1	Fruitland	Completed/Producing
Rosa Unit #342	Fruitland	Carry Over to 2000 P.O.D.
Rosa Unit #342	Fruitland	Carry Over to 2000 P.O.D.
Rosa Unit #343	Fruitland	Carry Over to 2000 P.O.D.
Rosa Unit #345	Fruitland	Carry Over to 2000 P.O.D.
Rosa Unit #343	Fruitland	Carry Over to 2000 P.O.D.
Rusa Unit #347	Fruitland	
Rosa Unit #251	Fruitiand	Carry Over to 2000 P.O.D.
Rosa Unit #254	Fruitland	Carry Over to 2000 P.O.D.
Rosa Unit Com #255	Fruitland	Carry Over to 2000 P.O.D.
Rosa Unit #257	Fruitland	Carry Over to 2000 P.O.D.
Rosa Unit Com #259	Fruitland	
Rosa Unit #500 (M)//PC/Oie Test)	Magyarda	Carry Over to 2000 P.O.D.
	Distured Cliffe	Dropped from P.O.D.
		Dropped from P.O.D.
	Ojo Alamo	Ojo tested and abandoned,
		well deepened and topset for
Reco Unit #501 (PC(Oio Teat)	Disturad Cliffs	Fruitiand completion – 2000 P.O.D.
Rosa Offic#301 (PC/Ojo Test)		Dropped from P.O.D.
Paga Lipit #502 (PC/Oia Teat)	Diotured Cliffe	Dropped from P.O.D.
Rusa Unit #302 (PC/Oju Test)		Dropped from P.O.D.
Ress Unit #502 (DC/Ois Test)	Dioture d Cliffe	Dropped from P.O.D.
Rosa Unit #503 (PC/Ojo Test)	Pictured Cliffs	Dropped from P.O.D.
Passa Lipit #504 (PC/Oia Teat)	Dio Alamo Dioturad Cliffo	Dropped from P.O.D.
		Dropped from P.O.D.
Ross Unit #505	Ojo Alamo	Dropped from P.O.D.
		Dropped from P.O.D.
	Ojo Alamo	Dropped from P.O.D.
RUSA UNIT #30/	Pictured Cliffs	Dropped from P.O.D.

The Participating Areas which have been established in the Rosa Unit are as follows:

Formation	Revision	Effective
Mesaverde	Fifteenth	January 1, 1983
Dakota	Ninth	January 1, 1992
Page 3 2/4/00

Attached are maps of each of the producing formations within the Rosa Unit showing the boundaries of the Participating Areas as applicable. There were no wells commingled within the Rosa Unit during 1999.

Pursuant to Section 9 of the Rosa Unit Agreement, Williams Production Company is submitting a Plan of Development providing for the completion of the following wells during 2000:

Well Number	Drilling Block	Formation
Page Light #6Y	S/2 Sec 27 T31N D5W/	Mosavorda
Rosa Unit #12A	N/2 Sec.21, 13 IN, ROW	Mesaverde
	E/2 Sec. 22 T21N D6W	Mesaverde
Rosa Unit #14A	E/2 Sec.23, 13 IN, ROW	Mesaverde
Rosa Unit #17A	5/2 Sec.20, 13 IN, ROW	Mesaverde
Rosa Unit #21A	N/2 Sec. 23, 13 IN, ROW	Mesaverde
Rosa Unit #25A	W/2 Sec. 15, 13 IN, ROW	Mesaverde
Rosa Unit #21	W/2 Sec. 13, 13 HV, ROW	Mesaverde
Pose Lipit #31A	W/2 Sec. 17, 13 IN, ROW	Mesaverde
Pose Unit #35A	ALL Sec 5 T31N P6M	Mesaverde
Rosa Unit #460	F/2 Sec. 8 T31N P51/	Mesaverde
Rosa Unit #754	W/2 Sec 10 T31N R6W	Mesaverde
Rosa Unit #80A	W/2 Sec 8 T31N R5W/	Mesaverde
Rosa Unit #854	N/2 Sec 20 T31N R5W	Mesaverde
Rosa Unit Com #129	W/2 Sec 34 T32N R6W	Mesaverde
Rosa Unit Com #129A	W/2 Sec 34 T32N R6W	Mesaverde
Rosa Unit #146A	W/2 Sec 28 T31N R5W	Mesaverde
Rosa Unit #153A	E/2 Sec 17.T31N.R5W	Mesaverde
Rosa Unit #154A	S/2 Sec.7.T31N.R5W	Mesaverde
Rosa Unit #159A	S/2 Sec. 19, T31N, R5W	Mesaverde
Rosa Unit #160 (Recomplete PC.	SE/4 Sec.25.T31N.R6W	Pictured Cliffs
Dual with existing MV)		
Rosa Unit #163	E/2 Sec.24,T31N,R6W	Mesaverde
Rosa Unit #163A	E/2 Sec.24,T31N,R6W	Mesaverde
Rosa Unit #166	N/2 Sec.30,T31N,R5W	Mesaverde
Rosa Unit #166A	N/2 Sec.30,T31N,R5W	Mesaverde
Rosa Unit #168A	E/2 Sec.28,T31N,R5W	Mesaverde ,
Rosa Unit #171	N/2 Sec.7,T31N,R5W	Mesaverde
Rosa Unit #171A	N/2 Sec.7,T31N,R5W	Mesaverde
Rosa Unit #181	E/2 Sec.10,T31N,R6W	Mesaverde
Rosa Unit #181A	E/2 Sec.10,T31N,R6W	Mesaverde
Rosa Unit #182	S/2 Sec.18,T31N,R5W	Mesaverde
Rosa Unit #182A	S/2 Sec.18,T31N,R5W	Mesaverde
Rosa Unit #183	N/2 Sec.19,T31N,R5W	Mesaverde
Rosa Unit #183A	N/2 Sec.19,T31N,R5W	Mesaverde
Rosa Unit #184	E/2 Sec.34,T31N,R5W	Mesaverde
Rosa Unit #184A	E/2 Sec. 34,T31N,R5W	Mesaverde
Rosa Unit #185	S/2 Sec.16,T31N,R6W	Mesaverde
Rosa Unit #185A	S/2 Sec.16,T31N,R6W	Mesaverde
Rosa Unit #186	N/2 Sec.27,T31N,R5W	Mesaverde
Rosa Unit #187	W/2 Sec.21,T31N,R5W	Mesaverde
Rosa Unit #188	W/2 Sec.34,T31N,R5W	Mesaverde
Rosa Unit #188A	W/2 Sec.34,T31N,R5W	Mesaverde

Page 4 2/4/00

Well Number	Drilling Block	Formation
Rosa Unit #341	W/2 Sec. 16, T31N, R6W	Fruitland
Rosa Unit #342	N/2 Sec.21,T31N,R6W	Fruitland
Rosa Unit #343	S/2 Sec.26,T31N,R5W	Fruitland
Rosa Unit #344	S/2 Sec.25,T31N,R5W	Fruitland
Rosa Unit #345	S/2 Sec.23,T31N,R5W	Fruitland
Rosa Unit #347	E/2 Sec.11,T31N,R4W	Fruitland
Rosa Unit #350	E/2 Sec.10,T31N,R5W	Fruitland
Rosa Unit #351	W/2 Sec.11,T31N,R5W	Fruitland
Rosa Unit #354	E/2 Sec.19,T31N,R4W	Fruitland
Rosa Unit Com #355	E/2 Sec.33,T32N,R6W	Fruitland
Rosa Unit #357	E/2 Sec.36,T32N,R6W	Fruitland
Rosa Unit #358	W/2 Sec.34,T32N,R6W	Fruitland
Rosa Unit #500	W/2 Sec.23,T31N,R4W	Fruitland
Rosa Unit #510	SW/4 Sec.11,T31N,R4W	Ojo Alamo
Rosa Unit #511	SW/4 Sec.13,T31N,R4W	Ojo Alamo
Rosa Unit #512	NE/4 Sec.15,T31N,R4W	Ojo Alamo
Rosa Unit #513	NE/4 Sec.23,T31N,R4W	Ojo Alamo

Williams Production Company, as Unit Operator, will drill any offset wells that may be required to prevent drainage of unitized substances and any other wells deemed necessary or which are requested by the Unit Operator or the Working Interest Owners.

If this Plan of Development is acceptable, please signify your approval as required under Section 9 of the Unit Agreement in the space provided in the enclosed sheet and return an approved copy to Williams Production Company.

Copies of this Plan of Development are being sent to the Working Interest Owners as shown on the enclosed sheet.

Sincerely en Henre M. Vern Hansen

Senior Landman

Enclosures:

cc: Working Interest Owners Mike Turnbaugh Kris Russell Tony Scheiper Tracy Ross Page 5 2/4/00

APPROVED:

DATE:

Assistant District Manager, Minerals Bureau of Land Management Subject to like approval by the Commissioner of Public Lands and the Oil Conservation Commission

APPROVED:

Commissioner of Public Lands Subject to like approval by the Area Oil and Gas Supervisor and the Oil Conservation Commission

APPROVED:

nu

Oil Conservation Commission Subject to like approval by the Area Oil and Gas Supervisor and the Commissioner of Public Lands DATE:

DATE: 2/10/00

The foregoing approvals are for the 2000 Plan of Development for the Rosa Unit I, Section No.587.

WORKING INTEREST OWNERS

ROSA UNIT

AMOCO PRODUCTION COMPANY ATTN: SAN JUAN ASSET TEAM P O BOX 3092 HOUSTON, TX 77253-3092

MS. ELIZABETH T. CALLOWAY 4801 ST. JOHNS DRIVE DALLAS, TX 75205

COASTAL OIL & GAS CORPORATION ATTN: HENRY HANSEN P O BOX 719 BELLAIRE, TX 77402-0719

MR. J. GLENN TURNER, JR. 3131 TURTLE CREEK BLVD. #1201 DALLAS, TX 75219

MARY FRANCES TURNER, JR TRUST ATTN: IRIS GLEISER P O BOX 660197 DALLAS, TX 75266-0197

MS. PATRICIA PENROSE SCHIEFFER, TRUSTEE ATTN: J. THOMAS SCHIEFFER 1000 BALLPARK WAY, #300 ARLINGTON, TX 76102

MR. WILLIAM G. WEBB 8226 DOUGLAS AVENUE, SUITE 709 DALLAS, TX 75225-5929

MALLON OIL COMPANY 999 18th STREET, SUITE 1700 DENVER, CO 80202 MR. FRANK A SCHULTZ LINCOLN PLAZA, #2160 LO-1 500 NORTH ARARD DALLAS, TX 75606-4079

MR. FRED E. TURNER ONE ENERGY SQUARE, #852 4925 GREENVILLE AVENUE DALLAS, TX 75206-4079

CROSS TIMBERS OIL COMPANY ATTN: EDWIN S. RYAN, JR. 810 HOUSTON STREET, SUITE 2000 FORT WORTH, TX 76102-6298

J. K. EDWARDS ASSOCIATES ATTN: KEITH EDWARDS 1401 17th STREET, SUITE 1400 DENVER, CO 80202

MR. JOHN TURNER HC73, BOX 122, SUITE 277 PARK HILL, OK 74451

THE WISER OIL COMPANY ATTN: LAURIE BLOCK 8115 PRESTON ROAD, #400 DALLAS, TX 75225

PHILLIPS PETROLEUM CO. ATTN: S. SCOTT PRATHER 5525 HWY 64 NBU 3004 FARMINGTON, NM 87401

J. M. HUBER CORPORATION ATTN: ANDY LYDYARD 1050 17th STREET, SUITE 1850 DENVER, CO 80265

Scale 1:110059.82	2/1/2000	ROSA UNIT FRUITLAND COAL FORMATION WELLS	Villians	
Scale 1:110059.82	2/12000	ROSA UNIT D COAL FORMATION WELLS		

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