In Lieu Form 3 (June 19	160-5 DEPARTMENT C	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993		
		D REPORTS ON WELLS	5. Lease Designation and Serial No. SF-078766	
"APPLI	ICATION FOR PERMIT" for such proposals	o deepen or reentry to a different reservoir. Use	6. If Indian, Allottee or Tribe Name	
	SUBMIT IN	TRIPLICATE	7. If Unit or CA, Agreement Designation ROSA UNIT	
1.	Type of Well  ☐ Oil Well  ☐ Gas Well	□ Other	8. Well Name and No. ROSA UNIT #96	
2.	Name of Operator WILLIAMS PRODUCTION COMPANY		9. API Well No. 30-045-28983	
3.	Address and Telephone No. PO BOX 3102 MS 37-4, TULSA, OK 7410	1 (918) 588-4592	10. Field and Pool, or Exploratory Area BASIN DAKOTA-71599	
4.	Location of Well (Footage, Sec., T., R., M. 1080' FSL & 1015' FWL, SW SW SEC 17M	, or Survey Description)	11. County or Parish, State SAN JUAN, NM	
		E BOX(s) TO INDICATE NATURE OF NOTICE, R		
	TYPE OF SUBMISSION	TYP	E OF ACTION	
13.	■ Notice of Intent  □ Subsequent Report  □ Final Abandonment  Describe Proposed or Completed Operations If well is directionally drilled, give subsurface	□ Abandonment ■ Recompletion □ Plugging Back □ Casing Repair □ Altering Casing □ Other (Note: Report results of multiple compon Well Completion or Recompletion and Log form.)  (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any propose water (Note: Report results of multiple compon Well Completion or Recompletion and Log form.)		
			RECEIVED  APR 1 4 1997	
			OIL CON. DIV. DIST. 3	
14.	I hereby certify that the foregoing is true and Signed SUSAN GRIGUHN	. /	Date <u>April 10, 1997</u>	
	(This space for Federal or State office use)			

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Title

Date \_\_\_\_



Approved by

Conditions of approval, if any:

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT III
P.O. Drawer DD, Artexia, NM 88210
DISTRICT III
1000 Rio Brazos., Aztec, NM 87410
DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

# State of New Mexico Energy, Minerals & Natural Resources Department

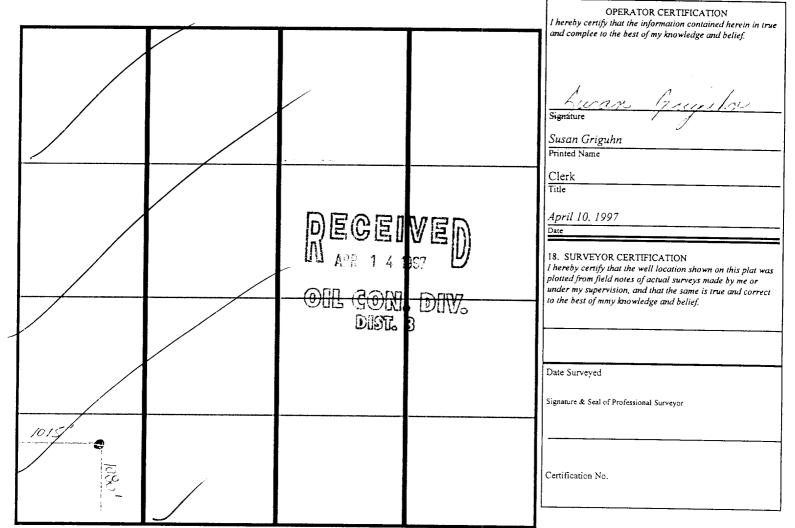
#### OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, NM 87504 Form C-102
RevisedOctober 18, 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

1.API Number 2. Pool Code 30-045-28983			Pool Code				3. Pool Name			
30-043-28783				72319				BLANCO		
4 Proper	ty Code				5 Property Name			_	6 Well N	lumber
008480			ROSA UNIT				#96			
7 OGR	ID No.				8 Operator Name				9 Elev	ation
120782 WILLIAMS PRO				PRODUCTION CO	RODUCTION COMPANY			6353'		
				1	0 Surface Loca	ation				
UL or log no. M	Section 17	Township 31N	Range 6W	Lot Idn	Feet from the 1080	North/South line SOUTH		Feet from the 1015	East/West line WEST	County SAN JUAN
			11 Bot	tom Hole	Location If Dif	ferent Fron	n Sur	face		
UL or log no.	Section	Township	Range	Lot Idn	Feet from the	North/South !	ine	Feet from the	East/West line	County
12 Dedicated Acres 13 Joint or Infill 320			14 Consolidation Code	e	15 Ord	er No				
NO AL	LOWAB ONSOLI	LE WILL DATED (	BE ASSION ANON	GNED TO 1-STANDA	THIS COMPI ARD UNIT HA	LETION U	NTIL APPR	ALL INTE	RESTS HA	VE BEEN ION



### OIL CONSERVATION DIVISION

STATE OF HEW MEXICO ELIERSY OF MINERALS UCPARTMENT SANTA FE. NEW MEXICO 87501

# P. O. UOX 2088

DATEST PIPELINE CORPORATION  Unit Letter    Section   Township   Remore   South   Remore	Cherator	• •	All distances must be fou		4 11. 3. a. a. 2. 0 E	INEC :
The section   Section   The month   South   So	1	TPFITAR CORPO	NOT TO M			Well No.
17   32N   6N   San Juan   Company   Continue to the second principle of the the second			T			<u> </u>
1850   test from the South   the word   1850   test from the West   the second plantage of the second plantage o	K	Į	1		1	
1.350 test test the South toward 1850 feeting the West target Country Living Production for the Country Countr	,		<u> </u>	<u> </u>	San Juan	~ ~ · · · · · · · · · · · · · · · · · ·
Sec.			South		070 FAMILI	NGTON, INM
Still	·	<del></del>	1,116 (41)		et from the Wes	t
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership the plat below.  3. If more than one lease of different ownership is dedicated to the well, have the interests of the plat below.  3. If more than one lease of different ownership is dedicated to the well, have the interests of the plat ownership dated by communitization, unitization, force-pooling, etc?  3. If easwer is "no." list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary.)  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commination of the plant of the p			1 .			Dedicated Acreage:
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.  2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (bathance marks) interest and royalty).  3. If more than one lease of different ownership is dedicated to the well, have the interests of Fighly owners been consolidated by communitization, unitization, force-pooling, etc?  1. Yes No If answer is "yes," type of consolidation Unitization Consolidated (Use reverse side this form if necessary).  1. If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary).  1. No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.  1. Participated the interest of the interest of the complete one built of the interest of the interest of the complete one built of the interest of the interest of the interest of the complete one built of the interest of				Undesignated	Gallup	320
3. If more than one lease of different ownership is dedicated to the well, have the interests of all gwangs been consolidated by communitization, unitization, postings.  Yes No If answer is "yes," type of consolidation Unitization Philosophia and postings.  Henswer is "no." list the owners and tract descriptions which have actually been consolidated. (Use reverse side this form if necessary.)  No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.  CERTIFICATION  I Arresty certify that the information contained the first own of acceptance to the best of my hospitale and build.  Thompson Passings  See Company  Nor these Pipeline Corp  Care April 20, 1933  I berety certify that the well location than on his plan was planted from field and cover make the information of the first own of acceptance to the best of my supersistion, and that the well location is true and covered to the best of my supersistion of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the first own of acceptance to the location of the locati						
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No allowable will be assigned to the well until all interests have been consolidated (by communitization, untilization forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.  CERTIFICATION  Thereby certify that the information contained herein its true and complete to the desired management of the position of t	If answer is	; "no," list the o	wners and tract descri	ptions which have a	ctually been cons	olidated. (Use reverse side
I hereby certify that the information contained herein is true and complete to the heart of my knowledge and bellet.  - U. S. CICLOGICAL SUBJECT  - U. S. CICLOGICAL SUBJECT  - U. S. CICLOGICAL SUBJECT  - Part of my knowledge and bellet.  - Paul C. Thompson  - Paul C. Thompson  - Paul C. Thompson  - Posting  St. Drilling Engineer  Company  Northwest Pipeline Corp  Date  April 20, 1983  - I hereby certify that the well location  shown on this plat was platted from field  mater of actual surveys made by me as  under my supermison, and that the same is true and correct to the best of my  knowledge and belief.  - Commenced to the corp.  - Pred 3: Kerr Jr.  - Commenced A. Kerr Jr.  - Commenced A. Kerr Jr.  - Commenced A. C. Thompson  - Paul C	No allowable	e will be assigned	d to the well until all i	nterests have have	1:1 1:4	
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best of my knowledge and bellef.  Paul C. Thompson  Paul C. Thompson  Paul C. Thompson  Position  Sr. Drilling Engineer  Company  Northwest Pipeline Corp  Date April 20, 1983  17  18531  17  18531  Date Surveys mode by me or under my superrision, and that the same is true and correct to the best of my knowledge and belief.  Date Surveyor mode by me or under my superrision, and that the same is true and correct to the best of my knowledge and belief.  Date Surveyor mode by me or under my superrision, and that the same is true and correct to the best of my knowledge and belief.  Date Surveyor mode by me or under my superrision, and that the same is true and correct to the best of my knowledge and belief.  Scalar New 2001  Scalar				MACHIVE		
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Sec.    Sec.		1		- May 9 1953	j best	or my knowledge and belief.
Sec.  Partition N. M. Paul C. Thompson  Posture Str. Drilling Engineer  Company Northwest Pipeline Corp  Date April 20, 1983  I hereby certify that the well location shown on this plan was platted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.  Date Sarveyed  April 18, 7981  Scale: New York  Scale: New York  Continued April 20, Thompson  Posture Paul C. Th		,		. 17.11		10 7/2 0501
Sec.  Paul C. Thompson  Position Sr. Drilling Engineer Company Northwest Pipeline Corp Date April 20, 1983  I hereby certify that the well location shown on this plat was platted from field notes of actual surveys made by me or under my superrision, and that the some is true and correct to the best of my knowledge and belief.  Company  Control 18, 1983  Perist and Professional Engineer and Company  Scale: New York  Fred 3, Ker J.  Control 2004  C		ı		1	, , , , , , , , , , , , , , , , , , , ,	(C. ) mongson
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		Scale:	1"=1000"		Certificate	

#### WILLIAMS PRODUCTION COMPANY RECOMPLETION PROGNOSIS Rosa #96

PURPOSE: To recomplete uphole in the Mesaverde and dual with the existing Dakota.

- 1.Check location and rig anchors. Repair as necessary. Tie in drill gas and set compressor.
  Spot and fill 13 400 bbl tanks with 1% KCl water.
- 2.MIRUSU. Nipple up BOP, stripping head, blooie line, working valves and 2" relief line. Test BOP.
- 3. TOH 7820' of 2-3/8" tubing.
- 4. Set a 7" CIBP @ 6000' on tbg.
- 5. Pressure test casing to 3300 psi. Spot 500 gals 15% Hcl acid across the Point Lookout perforations(5639'-5907'). Acid to contain 1 gal/1000 gals surfactant, iron control, and corrosion inhibitor (24 hr inhibition at 150 F).TOH.
- 6. Run GR/CCL and correlate to HLS logs of 9/4/93.
- 7. Perforate 1 SPF the Point Lookout formation in 7" casing using 0.36" holes and a 4-1/2" select fire casing gun from top down. Perfs will be @ 5639,41, 43,45,49,51,55,65,67,77,79,81,83,93,95,5719,21,23,25,27,32,34,57,59,68,70,77,79,81,83,5811,13,15,29,31,33,61,73,75,89,91,5907. 42 holes.
- 3.Breakdown and attempt to balloff the perforations w/ 1000 gals 15% HCl acid and 70 1.3 S.G.- 7/8" neutral density RCN perf balls. Maximum pressure = 3300 psi. Acid to contain 1 gal/1000 gals surfactant, iron control and inhibitor (24 hour inhibition at 150 F).
- 9.RIH with wireline junk basket and retrieve frac balls.
- 10. Rig up pump trucks and fracture stimulate the Point Lookout formation with 80,000# 20/40 Arizona sand in 85,157 gals water at a minimum of 2 BPM/perf. Max pressure = 3300 psi. DO NOT OVERFLUSH.

STAGE Pad 0.5 ppg 1.0 ppg 1.5 ppg 2.0 ppg Flush	FLUID (gals) 15,000 gals 10,000 gals 20,000 gals 13,333 gals 17,500 gals 9324 gals	SAND (1bs)  5,000# sand  20,000# sand  20,000# sand  35,000# sand
	85,157 gals	80,000 # 20/40 Arizona sd

All frac fluids to contain 0.5 gpt friction reducer Max pressure 3300 psi Shut in for 15 min to obtain ISIP.

- 11. Set a 7" Retrievable bridge plug @ 5630'
- 12.TIH w/ 2-3/8" tubing and pressure test RBP and casing to 3300 psi. Spot 500 gals 15% Hcl acid across the Cliff House/ Menefee perforations (5341'-5601'). Acid to contain 1gal/1000 gals surfactant, iron control, and corrosion inhibitor (24 hr inhibition at 150 F). TOH.
- 13.Perforate 1 SPF the Cliff House/ Menefee formation in 7" casing using 0.36" holes and a 4-1/2" select fire casing gun from top down. Perfs will be @ 5341,43,47,51,71,73,75,84,86,91,93,99,5401,08,10,12,14,29,31,48,80,82,84,86,5510,12,15,17,81,89,91,99,5601. 33 holes.
- 14.Breakdown and attempt to balloff the perforations w/ 1000 gals 15% HCl acid and 60 1.3 S.G.- 7/8" neutral density RCN perf balls. Maximum pressure = 3300 psi. Acid to contain 1 gal/1000 gals surfactant, iron control and inhibitor (24 hour inhibition at 150 F).
- 15.RIH with wireline junk basket and retrieve frac balls.
- 16.Rig up pump trucks and fracture stimulate the Cliff House/ Menefee formation with 80,000# 20/40 Arizona sand in 84,664 gals water at a munimum of 2 BPM/perf. Max pressure = 3300 psi. DO NOT OVERFLUSH.

STAGE Pad 0.5 ppg 1.0 ppg 1.5 ppg 2.0 ppg Flush	FLUID (gals) 15,000 gals 10,000 gals 20,000 gals 13,333 gals 17,500 gals 8831 gals	SAND (1bs)  5,000# sand 20,000# sand 20,000# sand 35,000# sand
	84,664 gals	80,000 # 20/40 Arizona sd

All frac fluid to contain 0.5 gpt friction reducer Max. Pressure 3300 psi Shutin for 15 min to obtain ISIP.

- 17.TIH with tubing and CO with gas to RBP @ 5630 until well quits making sand. Pull above perforations and guage well. TOH
- 13.PU retrieving head on 2-3/8" tbg. TIH and retrieve BP @ 5630'. TOH.
- 19. TIH with tubing and CO with gas to CIBP @ 6000' until well quits making sand. Pull above perforations and guage well (both zones).
- 20.Drill BP @ 6000' and CO to PBTD @ 7934'.

- 21. Set a 7" model D type production packer on wireline @ 6100'.
- 22.TIH with 2-3/8", J-55, 4.7#, 8rd, EUE tbg for Dakota and land @ 7900'(1800' below pkr w/ seal sections across pkr) SN 1 jt up.
- 23.TIH 2-1/16" IJ 3.2# tbg string w/ orange peel bottom, 12' perforated interval on bottom joint, SN on top of bottom joint. Land @ 5850'.
- 13.ND BOP and NU wellhead. Shut well in for buildup.
- 14. Cleanup location and release rig. Notify Production Dept.

Sterg Katirgis

Senior Engineer

#### DATA SHEET

WELLNAME: Rosa #96

FIELD:

Basin Dakota

LOCATION: SW/4 SW/4 SEC. 17, T31N, R6W

ELEVATION: 6353' GR KB: 12'

5402' 56131 5824 7734' 7779'

COUNTY:

San Juan

State: NM

TD:

7934' PBTD

**FORMATION TOPS:** 

Ojo Alamo	2334'	Menefee	
Fruitland	2891'	Point Lookout	
Pictured Cliffs '	3210'	Mancos	
Lewis	3469'	Greenhorn	
Cliff House	5309'	Dakota	

#### CASING RECORD:

<u>CASING</u> _SURFACE INTERMEDIATE CSG	<u>SIZE</u> 13-3/4" 9-5/8"	WT. & GRADE 61# K-55 36# K-55	DEPTH SET 405' 3757'	CEMENT 620 sx 1st 443 sx, 2nd 1097 sx	TOC surface surface
PRODUCTION CSG	7"	23# K-55	7820'	DV @ 2791' Off design 1st 490, 2nd 310 sx	2306 CBL
PRODUCTION LINER	4-1/2"	11.6# N-80	7609'-8124'	DV @ 4809' Off design 85 sx	7609'

WELLHEAD EQUIPMENT: Csg head: 13 3/8" x 13 5/8" 3000#

INT spool: 13 5/8" 3000# x 11" 5000#

Tbg head: 11" 5000# x 7 1/16" 3000#

TUBING EQUIPMENT: 2 3/8" @ 7863'

LOGGING RECORD: DIL, GR,ML,SDL,DSN,CAL,HRI,CR,SDL,DSEN,HRI,SP,CBL,LDL,CCL.

PERFORATIONS:

Dakota:1 SPF 7972'-73, 7975'-76', 8000'-03', 8026'-8030', 7846'-52', 7888'-92', 7908'-12'

Reperf 2 SPF 7846'-7852', 7888'-7892'.

STIMULATION:

Dakota: NA

Mesaverde: None

PRODUCTION HISTORY: Dakota, Cum: 662MMCF, Current 623MCF/D

### ROSA UNIT #96 BASIN DAKOTA

Location: 1080' FSL, 1015' FWL SW/4 SW/4 Section 17M, T31N, R6W San Juan Co., NM Elevation = 6353' GR  $KB = 12^{\circ}$ Surface Csg: 13-3/4" 61# K-55. Landed @ 405' = DV Tool @2791' - ? TOPS DEPTH OJO ALAMO 2334' FRUITLAND 2891' PICTURED CLIFFS 3210' LEWIS Intermediate Csg: 9-5/8\* 36# K-55. Landed @ 3757\* 3469 CLIFF HOUSE 5309\* MENEFEE 54021 POINT LOOKOUT 5613' MANCOS 5824" GREENHORN 7734 DAKOTA Production Csg: 7° 23# K-55. 7779 Landed @ 7820' DV Tool @ 4809' -? DK Thg: 2-3/8" Landed @ 7863' KB. 7846' Dakota Perforations 7912' Prod. Liner: 4-1/2\* 11.6# N-80 from 7609' to 8124'. PBTD @ 7934' TD @ 8124'

HOLE SIZE	CASING	CEMENT 'I	TOP OF CMT
17-1/2"	13-3/4" 61#	620 sx	SURFACE
12-1/4"	9-5/8* 36#	1st stage = 443 sx, 2nd stage = 1096 sx	SURFACE
8-3/4*	7" 23#	1st stage = 524 sx, 2nd stage = 275 sx	2306′
5-1/4"	4-1/2" 11.6#	85 sx	7609'

In Lieu o Form 31 (June 199	60-5 DEPARTMENT (	O STATES OF THE INTERIOR ID MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993		
	SUNDRY NOTICES AN	D REPORTS ON WELLS o deepen or reentry to a different reservoir. Use	5. Lease Designation and Serial No. SF-078766		
"APPLIC	CATION FOR PERMIT" for such proposals	s deepen of reentry to a different reservoir. Ose	6. If Indian, Allottee or Tribe Name		
	SUBMIT IN	TRIPLICATE	7. If Unit or CA, Agreement Designation ROSA UNIT		
1.	Type of Well  ☐ Oil Well  ☐ Gas Well	☐ Other	8. Well Name and No. ROSA UNIT #96		
2.	Name of Operator WILLIAMS PRODUCTION COMPANY		9. API Well No. 30-045-28983		
3.	Address and Telephone No. PO BOX 3102 MS 37-4, TULSA, OK 7410	(918) 588-4592	10. Field and Pool, or Exploratory Area BASIN DAKOTA-71599		
4.	Location of Well (Footage, Sec., T., R., M. 1080' FSL & 1015' FWL, SW SW SEC 178		11. County or Parish, State SAN JUAN, NM		
	CHECK APPROPRIAT	E BOX(s) TO INDICATE NATURE OF NOTICE, REP	ORT, OR OTHER DATA		
	TYPE OF SUBMISSION	ТҮРЕ О	F ACTION		
	■ Notice of Intent  □ Subsequent Report	□ Abandonment ■ Recompletion □ Plugging Back	☐ Change of Plans ☐ New Construction ☐ Non-Routine Fracturing		
	☐ Final Abandonment	□ Casing Repair □ Altering Casing □ Other	<ul> <li>□ Water Shut-Off</li> <li>□ Conversion to Injection</li> <li>□ Dispose Water</li> <li>(Note: Report results of multiple completion on Well Completion or Recompletion Report</li> </ul>		
13.	Describe Proposed or Completed Operations If well is directionally drilled, give subsurfac	(Clearly state all pertinent details, and give pertinent date e locations and measured and true vertical depths for all	and Log form.) es, including estimated date of starting any proposed work markers and zones pertinent to this work.)*		
William as per th	s Production Company proposes to rene attached procedure.	ecomplete this well to the Mesaverde formatio	n and dual with the existing Dakota formation		
			ECEIVED APR 1 4 1357		
			OIL CON. DIV.		
	3000		The second secon		
14.	I hereby certify that the foregoing is true and	·/			
	Signed Lucas July SUSAN GRIGUHN	Title <u>CLERK</u>	Date <u>April 10, 1997</u>		
	(This space for Federal or State office use)				
	Approved by	Title	Date		
	Conditions of approval, if any:				

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

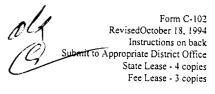


DISTRICT!
P O Box 1980, Hobbs, NM 88240
DISTRICT II
P O Drawer DD, Artexia, NM 88210
DISTRICT III
1000 Rio Brazos , Aztec, NM 87410
DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

#### State of New Mexico Energy, Minerals & Natural Resources Department

#### OIL CONSERVATION DIVISION

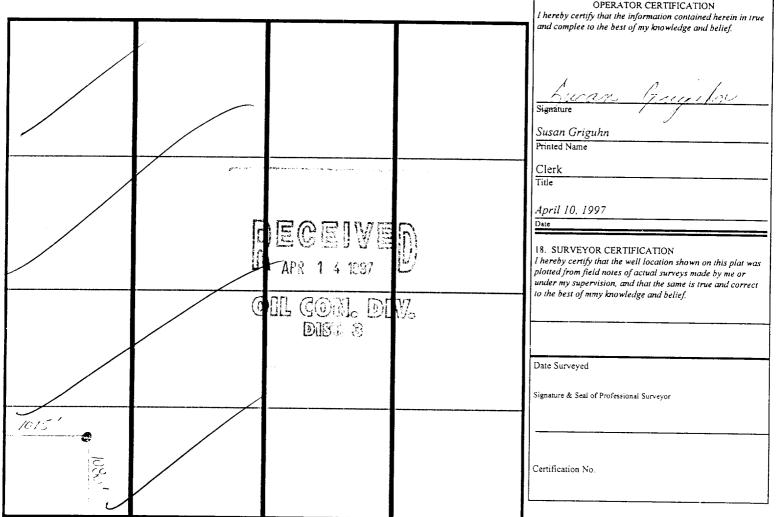
2040 South Pacheco Santa Fe, NM 87504



☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 2. Pool Code 30-045-28983				72319 3. Pool		3. Pool Name					
4 Proper					5 Property Name			L	BLANCO		
11000	., 0000				o Property Name				6 Well N	lumber	
008				R	ROSA UNIT				#96		
7 OGR	D No.				8 Operator Name				9 Elev	ation	
120	120782 WILLIAMS PR				PRODUCTION COMPANY				6353'		
				10	Surface Loca	ation				· · · · · · · · · · · · · · · · · · ·	
UL or log no. M	Section 17	Township 31N	Range 6W	Lot Idn	Feet from the 1080	North/South line SOUTH	-I	Feet from the 1015	East/West line WEST	County SAN JUAN	
			11 Bot	tom Hole L	ocation If Dif	ferent Fron	n Sur	face		·i	
UL or log no	Section	Township	Range	Lot Idn	Feet from the	North/South I		Feet from the	East/West line	County	
12 Dedicated Acres 320	)	13 Joint or Infill			14 Consolidation Code	<del></del> :	15 Orde	er No			
NO ALI	LOWABI DNSOLII	LE WILL I	BE ASSIO R A NON	GNED TO 1 I-STANDA	THIS COMPI RD UNIT HA	LETION UI AS BEEN A	NTIL APPR	OVED BY	THE DIVIS	ION	



# STATE OF NEW MEXICO

form (-) Ferlied

P. O. BOX 2088 THERSY NO MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

Cherator		con manager must be t	Lease	14 the Seeman DE	¥
DRITHEST PIPELINE CORPORATION			ROSA IDITT		
Unit Letter	Section	Township	Range	Tcom97 JAN 80	<del>2112: 11 96</del>
K Name to East	.17	<u>3</u> 1N	6W	San Juan	
Actual Footage Loca 1850		2		070 FASTINGS	aton, NM
Ground Lyvel Elev:	feet from the	South line and	1850 (*	al (marks Wast	
6414	Producing For	metion de/Gallup-DK	P∞I Blanco MV,	Basin DK	Dedicated Acreage:
			Undesignated	Gallup	320 Acre
<ul><li>2. If more the interest and</li><li>3. If more than dated by co</li><li>X Yes [</li></ul>	in one lease is droyalty).  I one lease of dimmunitization, to the lease of the lea	ifferent ownership is initization, force-pooli nswer is "yes;" type o	ll, outline each and id dedicated to the well, ing. etc?	entify the ownershi	Street VIII BUILLING
No allowable	will be assigne	d to the well until all	interests have b		idated. (Use reverse side opmounitization, unitization en approved by the Commis
1350'	1850' ec		RECEIVE WAY 0 1983	I hereby shown on notes of under my is true of knowledg	
	1 18		 	Registiqued [	18, 7037. Professional Engineer

Scale: 1"=1000'

3950

#### WILLIAMS PRODUCTION COMPANY RECOMPLETION PROGNOSIS Rosa #96

PURPOSE: To recomplete uphole in the Mesaverde and dual with the existing Dakota.

- 1.Check location and rig anchors. Repair as necessary. Tie in drill gas and set compressor. Spot and fill 13 - 400 bbl tanks with 1% KCl water.
- 2.MIRUSU. Nipple up BOP, stripping head, blooie line, working valves and 2" relief line. Test BOP.
- 3. TOH 7820' of 2-3/8" tubing.
- 4. Set a 7" CIBP @ 6000' on tbg.
- 5. Pressure test casing to 3300 psi. Spot 500 gals 15% Hcl acid across the Point Lookout perforations (5639'-5907'). Acid to contain 1 gal/1000 gals surfactant, iron control, and corrosion inhibitor (24 hr inhibition at 150 F).TOH.
- 6. Run GR/CCL and correlate to HLS logs of 9/4/93.
- 7. Perforate 1 SPF the Point Lookout formation in 7" casing using 0.36" holes and a 4-1/2" select fire casing gun from top down. Perfs will be @ 5639,41, 43,45,49,51,55,65,67,77,79,81,83,93,95,5719,21,23,25,27,32,34,57,59,68,70,77,79,81,83,5811,13,15,29,31,33,61,73,75,89,91,5907. 42 holes.
- 3.Breakdown and attempt to balloff the perforations w/ 1000 gals 15% HCl acid and 70 1.3 S.G.- 7/8" neutral density RCN perf balls. Maximum pressure = 3300 psi. Acid to contain 1 gal/1000 gals surfactant, iron control and inhibitor (24 hour inhibition at 150 F).
- 9.RIH with wireline junk basket and retrieve frac balls.
- 10.Rig up pump trucks and fracture stimulate the Point Lookout formation with 80,000# 20/40 Arizona sand in 85,157 gals water at a minimum of 2 BPM/perf. Max pressure = 3300 psi. DO NOT OVERFLUSH.

	85,157 gals	80,000 # 20/40 Arizona sd
Flush	9324 gals	-
2.0 ppg	17,500 gals	35,000# sand
1.5 ppg	13,333 gals	20,000# sand
1.0 ppg	20,000 gals	20,000# sand
0.5 ppg	10,000 gals	5,000# sand
Pad	15,000 gals	-
STAGE	FLUID (gals)	SAND (1bs)
		~

All frac fluids to contain 0.5 gpt friction reducer Max pressure 3300 psi
Shut in for 15 min to obtain ISIP.

- 11. Set a 7" Retrievable bridge plug @ 5630'
- 12.TIH w/ 2-3/8" tubing and pressure test RBP and casing to 3300 psi. Spot 500 gals 15% Hcl acid across the Cliff House/ Menefee perforations (5341'-5601'). Acid to contain lgal/1000 gals surfactant, iron control, and corrosion inhibitor (24 hr inhibition at 150 F). TOH.
- 13.Perforate 1 SPF the Cliff House/ Menefee formation in 7" casing using 0.36" holes and a 4-1/2" select fire casing gun from top down. Perfs will be @ 5341,43,47,51,71,73,75,84,86,91,93,99,5401,08,10,12,14,29,31,48,80,82,84,86,5510,12,15,17,81,89,91,99,5601. 33 holes.
- 14.Breakdown and attempt to balloff the perforations w/ 1000 gals 15% HCl acid and 60 1.3 S.G.- 7/8" neutral density RCN perf balls. Maximum pressure = 3300 psi. Acid to contain 1 gal/1000 gals surfactant, iron control and inhibitor (24 hour inhibition at 150 F).
- 15.RIH with wireline junk basket and retrieve frac balls.
- 16.Rig up pump trucks and fracture stimulate the Cliff House/ Menefee formation with 80,000# 20/40 Arizona sand in 84,664 gals water at a munimum of 2 BPM/perf. Max pressure = 3300 psi. DO NOT OVERFLUSH.

STAGE Pad 0.5 ppg 1.0 ppg 1.5 ppg 2.0 ppg Flush	FLUID (gals) 15,000 gals 10,000 gals 20,000 gals 13,333 gals 17,500 gals 8831 gals	SAND (lbs)  5,000# sand 20,000# sand 20,000# sand 35,000# sand
	84,664 gals	80,000 # 20/40 Arizona sd

All frac fluid to contain 0.5 gpt friction reducer Max. Pressure 3300 psi Shutin for 15 min to obtain ISIP.

- 17.TIH with tubing and CO with gas to RBP @ 5630'until well quits making sand. Pull above perforations and guage well. TOH
- 13.PU retrieving head on 2-3/8" tbg. TIH and retrieve BP @ 5630'. TOH.
- 19. TIH with tubing and CO with gas to CIBP  $\oplus$  6000' until well quits making sand. Pull above perforations and guage well (both zones).
- 20.Drill BP @ 6000' and CO to PBTD @ 7934'.

- 21. Set a 7" model D type production packer on wireline @ 6100'.
- 22.TIH with 2-3/8", J-55, 4.7#, 8rd, EUE tbg for Dakota and land @ 7900'(1800' below pkr w/ seal sections across pkr) SN 1 jt up.
- 23.TIH 2-1/16" IJ 3.2# tbg string w/ orange peel bottom, 12' perforated interval on bottom joint, SN on top of bottom joint. Land @ 5850'.
- 13.ND BOP and NU wellhead. Shut well in for buildup.
- 14. Cleanup location and release rig. Notify Production Dept.

Sterg Katirgis

Senior Engineer

#### DATA SHEET

WELLNAME: Rosa #96

FIELD:

Basin Dakota

LOCATION: SW/4 SW/4 SEC. 17, T31N, R6W

ELEVATION: 6353' GR KB: 12'

COUNTY:

San Juan

State: NM

TD:

7934' PBTD

FORMATION TOPS: C

Ojo Alamo	2334'	Menefee
Fruitland	2891'	Point Lookout
Pictured Cliffs :	3210'	Mancos
Lewis	3469'	Greenhorn
Cliff House	5309'	Dakota

5824 7734' 7779

5402' 5613'

#### CASING RECORD:

CASING _SURFACE INTERMEDIATE CSG	SIZE 13-3/4" 9-5/8"	WT. & GRADE 61# K-55 36# K-55	DEPTH SET 405' 3757'	CEMENT 620 sx 1st 443 sx, 2nd 1097 sx	TOC surface surface
PRODUCTION CSG	7"	23# K-55	7820'	DV @ 2791' Off design 1st 490, 2nd 310 sx	2306 CBL
PRODUCTION LINER	4-1/2"	11.6# N-80	7609'-8124'	DV @ 4809' Off design 85 sx	7609'

WELLHEAD EQUIPMENT: Csg head: 13 3/8" x 13 5/8" 3000#

INT spool: 13 5/8" 3000# x 11" 5000#

Tbg head: 11" 5000# x 7 1/16" 3000#

TUBING EQUIPMENT: 2 3/8" @ 7863'

LOGGING RECORD: DIL, GR,ML,SDL,DSN,CAL,HRI,CR,SDL,DSEN,HRI,SP,CBL,LDL,CCL.

PERFORATIONS:

Dakota:1 SPF 7972'-73, 7975'-76', 8000'-03', 8026'-8030', 7846'-52', 7888'-92', 7908'-12'

Reperf 2 SPF 7846'-7852', 7888'-7892'.

STIMULATION:

Dakota: NA

Mesaverde: None

PRODUCTION HISTORY: Dakota, Cum: 662MMCF, Current 623MCF/D

### ROSA UNIT #96 BASIN DAKOTA

Location: 1080' FSL, 1015' FWL SW/4 SW/4 Section 17M, T31N, R6W San Juan Co., NM

Elevation = 6353' GR KB = 12'		New York Control of the Control of t	Surface Csg: 13-3/4" 61# K-55. Landed @ 405'
TOPS	DEPTH		DV Tool @2791'-?
OIO ALAMO	2334'		
FRUITLAND	2891'		
PICTURED CLIFFS	3210'		
LEWIS	3469*		Intermediate Csg: 9-5/8* 36#
CLIFF HOUSE	5309*		K-55. Landed @ 3757
MENEFEE	5402'		
POINT LOOKOUT	5613'		in the second se
MANCOS	5824'		
GREENHORN	7734*		The state of the s
DAKOTA	7779°	E C	Production Csg: 7" 23# K-55. Landed @ 7820'
			DV Tool @ 4809' - ?  DK Tbg: 2-3/8* Landed @ 7863' KB.
	Dakota Perforations	7846'	Prod. Liner: 4-1/2* 11.6# N-80 from 7509' to 8124'.

HOLE SIZE	CASING	CEMENT T	TOP OF CMT
17-1/2"	13-3/4" 61#	620 sx	SURFACE
12-1/4*	9-5/8* 36#	1st stage = 443 sx, 2nd stage = 1096 sx	SURFACE
8-3/4*	7" 23#	1st stage = 524 sx, 2nd stage = 275 sx	2306
6-1/4"	4-1/2" 11.5#	85 sx	7609'

TD @ 8124'

PBTD @ 7934'