

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use
"APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. SF-078766
2. Name of Operator WILLIAMS PRODUCTION COMPANY	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO BOX 3102 MS 37-4, TULSA, OK 74101 (918) 588-4592	7. If Unit or CA, Agreement Designation ROSA UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1080' FSL & 1015' FWL, SW SW SEC 17M-31N-6W	8. Well Name and No. ROSA UNIT #96
	9. API Well No. 30-045-28983
	10. Field and Pool, or Exploratory Area BASIN DAKOTA-71599
	11. County or Parish, State SAN JUAN, NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water
	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Williams Production Company proposes to recomplete this well to the Mesaverde formation and deal with the existing Dakota formation as per the attached procedure.

RECEIVED
APR 14 1997
OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct

Signed *Susan Griguhn*
SUSAN GRIGUHN

Title CLERK

Date April 10, 1997

(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 I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, 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
Revised October 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 30-045-28983		2. Pool Code 72319		3. Pool Name BLANCO	
4. Property Code 008480		5. Property Name ROSA UNIT			6. Well Number #96
7. OGRID No. 120782		8. Operator Name WILLIAMS PRODUCTION COMPANY			9. Elevation 6353'

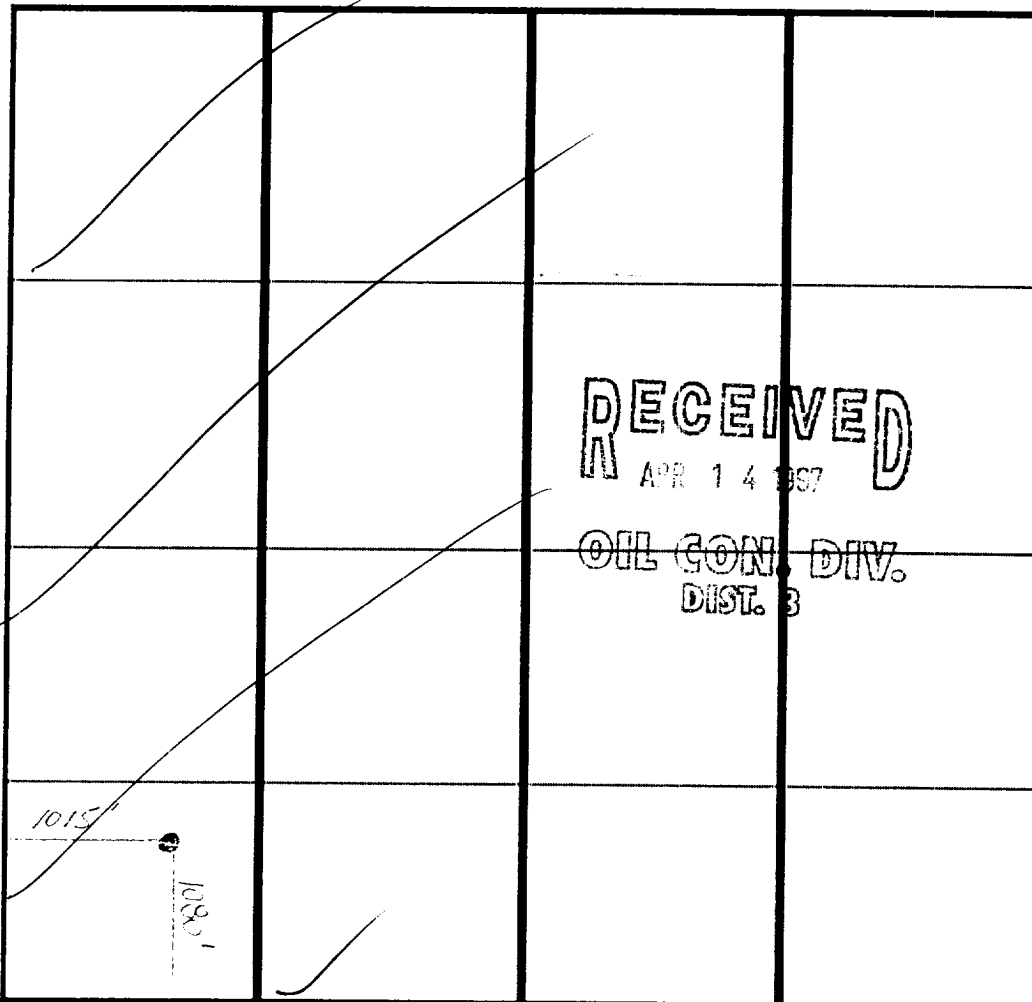
10 Surface Location

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
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11 Bottom Hole Location If Different From Surface

UL or log no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
12. Dedicated Acres 320		13. Joint or Infill			14. Consolidation Code		15. Order No.		

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



RECEIVED
APR 14 1997
OIL CON. DIV.
DIST. 3

OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
<i>Susan Griguhn</i> Signature	
Susan Griguhn Printed Name	
Clerk Title	
April 10, 1997 Date	
18. SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted 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 Surveyed	
Signature & Seal of Professional Surveyor	
Certification No.	

All distances must be from the outer boundaries of the Section

Operator NORTHWEST PIPELINE CORPORATION			Lease ROSA UNIT		Well No. 96
Unit Letter K	Section 17	Township 31N	Range 6W	County San Juan	
Actual Footage Location of Well: 1850 feet from the South line and 1850 feet from the West line					
Ground Level Elev: 6414	Producing Formation Mesa Verde/Gallup-DK		Pool Blanco MV, Basin DK Undesignated Gallup		Dedicated Acreage: 320 Acres

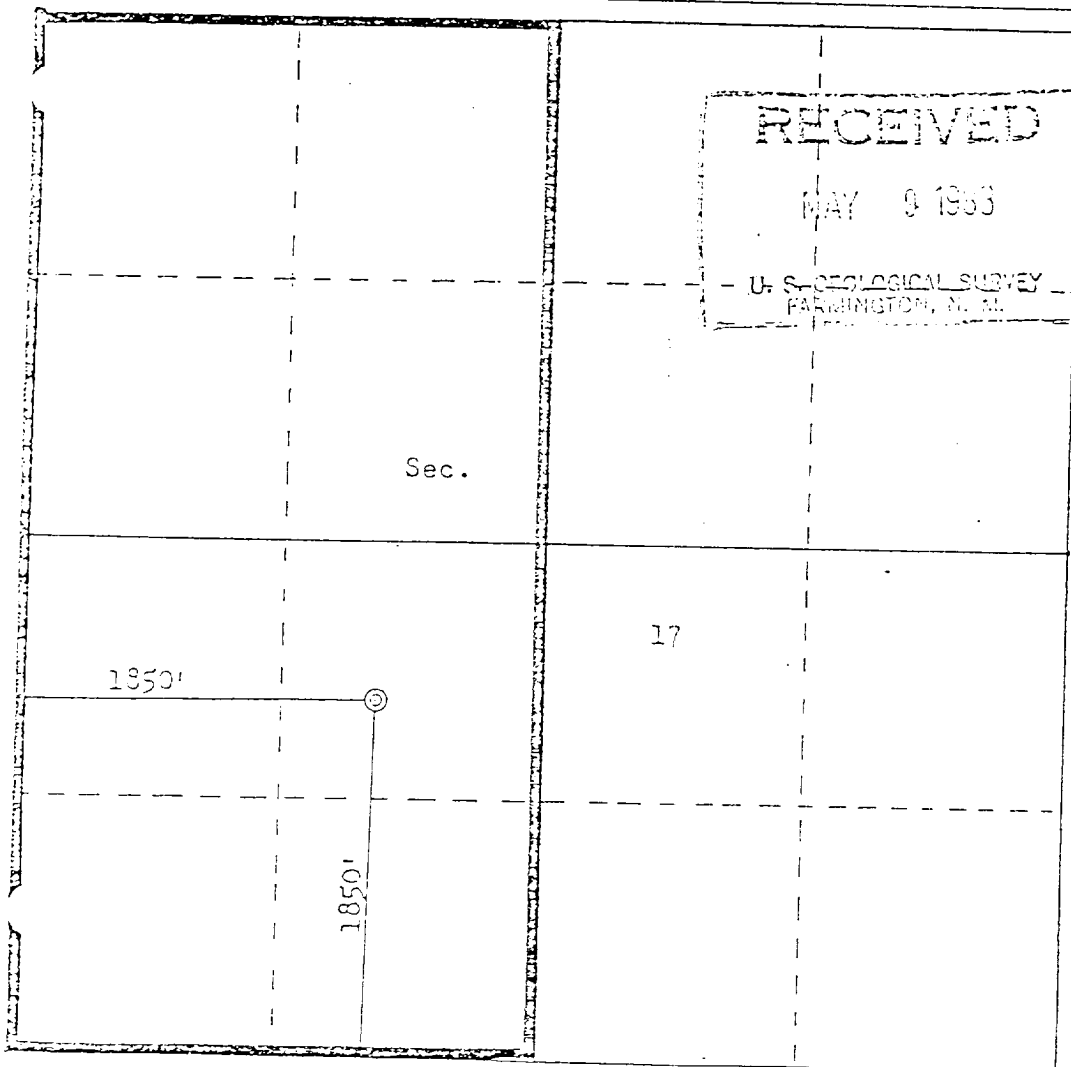
RECEIVED
JAN 30 PM 12:11
070 FARMINGTON, N.M.

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as owner and interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of 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.



Scale: 1"=1000'

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Paul C. Thompson

Name

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 plotted 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 Surveyed

April 18, 1983

Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.
Fred B. Kerr Jr.

Certificate No. 4122

3950

12/03/96

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 tbq.
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.
8. 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	FLUID (gals)	SAND (lbs)
Pad	15,000 gals	-
0.5 ppg	10,000 gals	5,000# sand
1.0 ppg	20,000 gals	20,000# sand
1.5 ppg	13,333 gals	20,000# sand
2.0 ppg	17,500 gals	35,000# sand
Flush	9324 gals	-
	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 minimum of 2 BPM/perf. Max pressure = 3300 psi. DO NOT OVERFLUSH.

STAGE	FLUID (gals)	SAND (lbs)
Pad	15,000 gals	-
0.5 ppg	10,000 gals	5,000# sand
1.0 ppg	20,000 gals	20,000# sand
1.5 ppg	13,333 gals	20,000# sand
2.0 ppg	17,500 gals	35,000# sand
Flush	8831 gals	-
	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
18. 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, EVE 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: Ojo Alamo 2334' Menefee 5402'
 Fruitland 2891' Point Lookout 5613'
 Pictured Cliffs 3210' Mancos 5824
 Lewis 3469' Greenhorn 7734'
 Cliff House 5309' Dakota 7779'

CASING RECORD:

CASING	SIZE	WT. & GRADE	DEPTH SET	CEMENT	TQC
SURFACE	13-3/4"	61# K-55	405'	620 sx	surface
INTERMEDIATE CSG	9-5/8"	36# K-55	3757'	1st 443 sx, 2nd 1097 sx	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# Tbg head: 11" 5000# x 7 1/16" 3000#
 INT spool: 13 5/8" 3000# x 11" 5000#

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

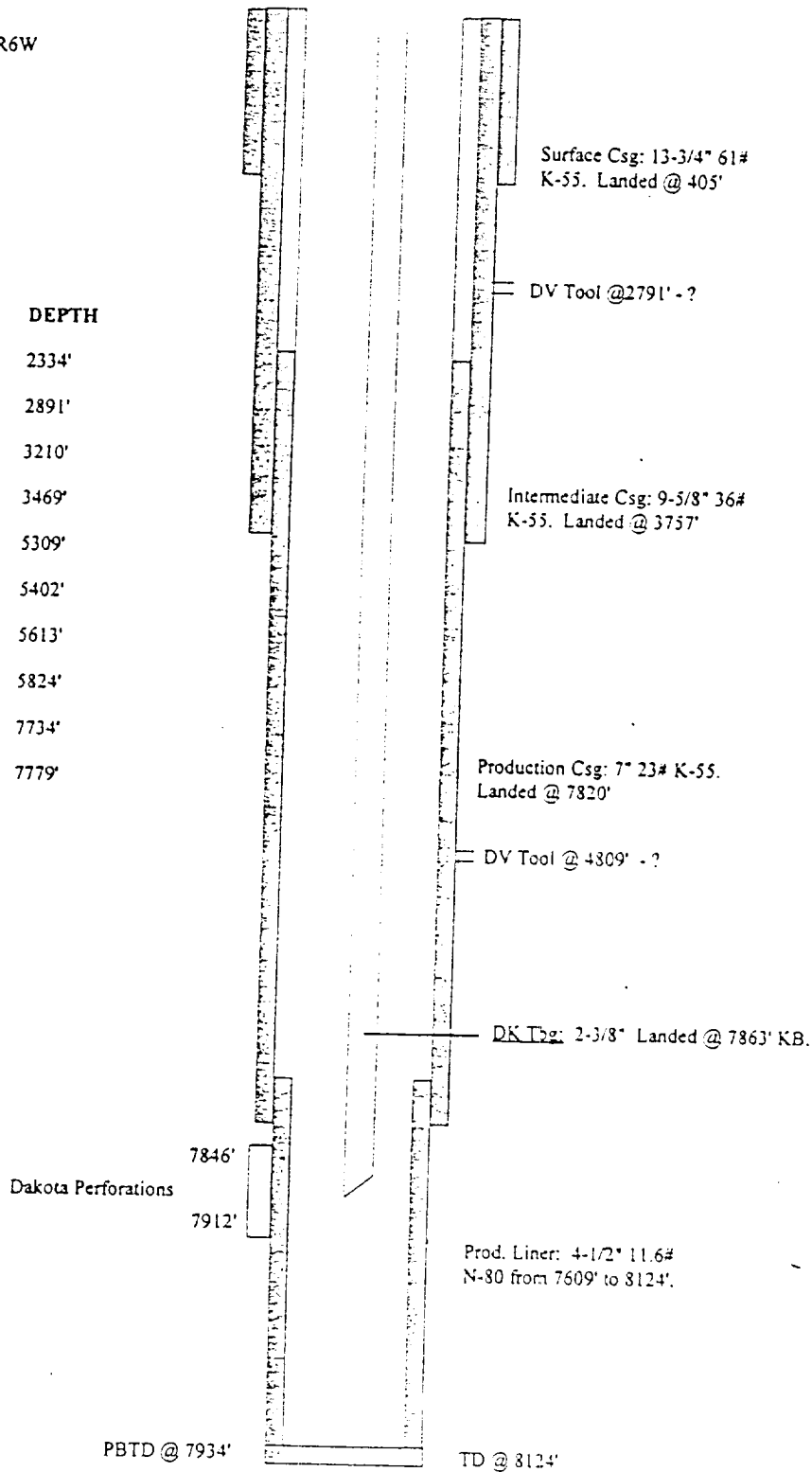
PRODUCTION HISTORY: Dakota, Cum: 662MMCF, Current 623MCF/D

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'

TOPS	DEPTH
OJO ALAMO	2334'
FRUITLAND	2891'
PICTURED CLIFFS	3210'
LEWIS	3469'
CLIFF HOUSE	5309'
MENEFEE	5402'
POINT LOOKOUT	5613'
MANCOS	5824'
GREENHORN	7734'
DAKOTA	7779'



HOLE SIZE	CASING	CEMENT	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" 11.6#	85 sx	7609'

In Lieu of
Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use
"APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	5. Lease Designation and Serial No. SF-078766
2. Name of Operator WILLIAMS PRODUCTION COMPANY	6. If Indian, Allottee or Tribe Name
3. Address and Telephone No. PO BOX 3102 MS 37-4, TULSA, OK 74101 (918) 588-4592	7. If Unit or CA, Agreement Designation ROSA UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1080' FSL & 1015' FWL, SW SW SEC 17M-31N-6W	8. Well Name and No. ROSA UNIT #96
	9. API Well No. 30-045-28983
	10. Field and Pool, or Exploratory Area BASIN DAKOTA-71599
	11. County or Parish, State SAN JUAN, NM

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Abandonment <input checked="" type="checkbox"/> Recompletion <input type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other ____ <input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Williams Production Company proposes to recompleate this well to the Mesaverde formation and dual with the existing Dakota formation as per the attached procedure.

RECEIVED
APR 14 1997

OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct

Signed Susan Griguh
SUSAN GRIGUHN

Title CLERK

Date April 10, 1997

(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.

*See Instruction on Reverse Side

DISTRICT I
P O Box 1980, Hobbs, NM 88240
DISTRICT II
P O Drawer DD, Artesia, 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

OK
C

Form C-102
Revised October 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 30-045-28983		2. Pool Code 72319		3. Pool Name BLANCO	
4. Property Code 008480		5. Property Name ROSA UNIT			6. Well Number #96
7. OGRID No. 120782		8. Operator Name WILLIAMS PRODUCTION COMPANY			9. Elevation 6353'

10 Surface Location

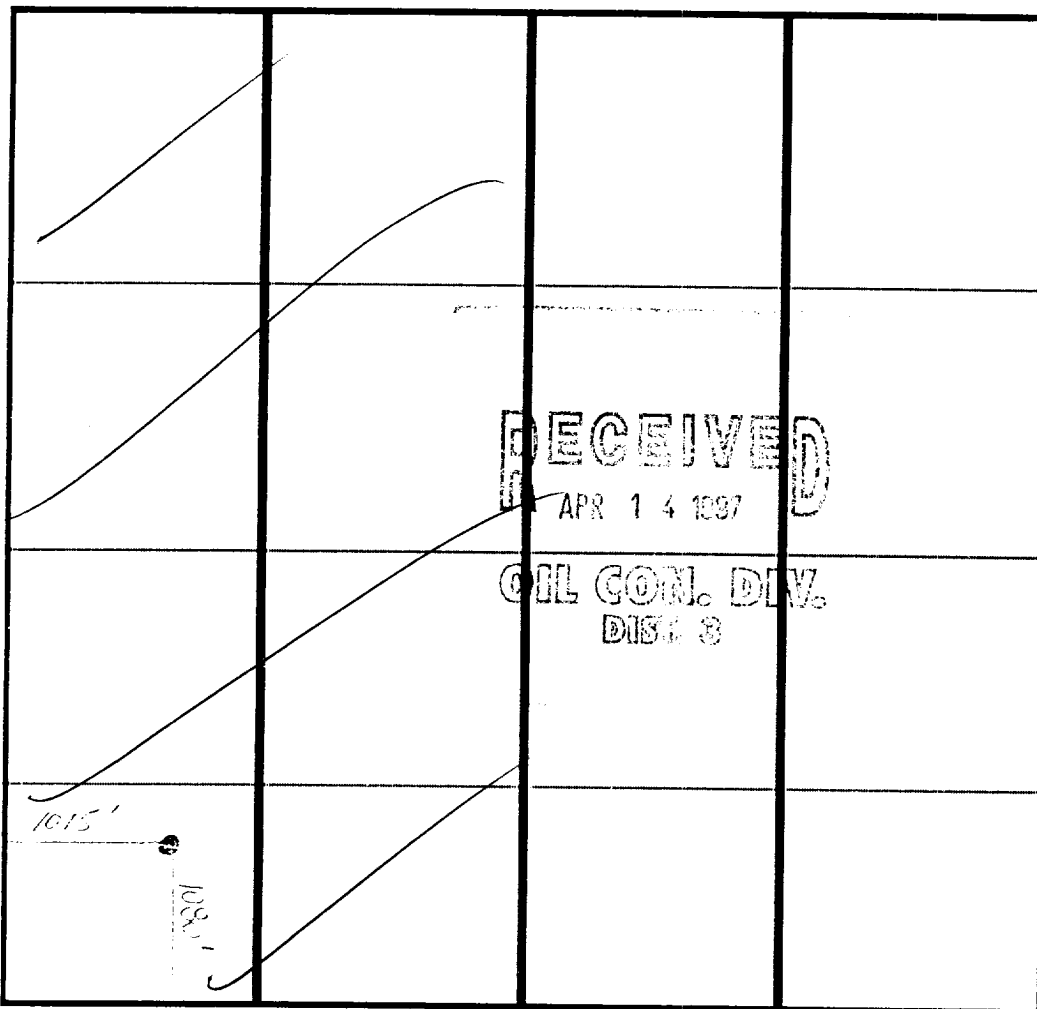
UL or log no. M	Section 17	Township 31N	Range 6W	Lot Idn	Feet from the 1080	North/South line SOUTH	Feet from the 1015	East/West line WEST	County SAN JUAN
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11 Bottom Hole Location If Different From Surface

UL or log no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12. Dedicated Acres 320		13. Joint or Infill		14. Consolidation Code		15. Order No.	
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
<i>Susan Griguhn</i> Signature	
Susan Griguhn Printed Name	
Clerk Title	
April 10, 1997 Date	
18. SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted 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 Surveyed	
Signature & Seal of Professional Surveyor	
Certification No.	

All distances must be from the outer boundaries of the Section

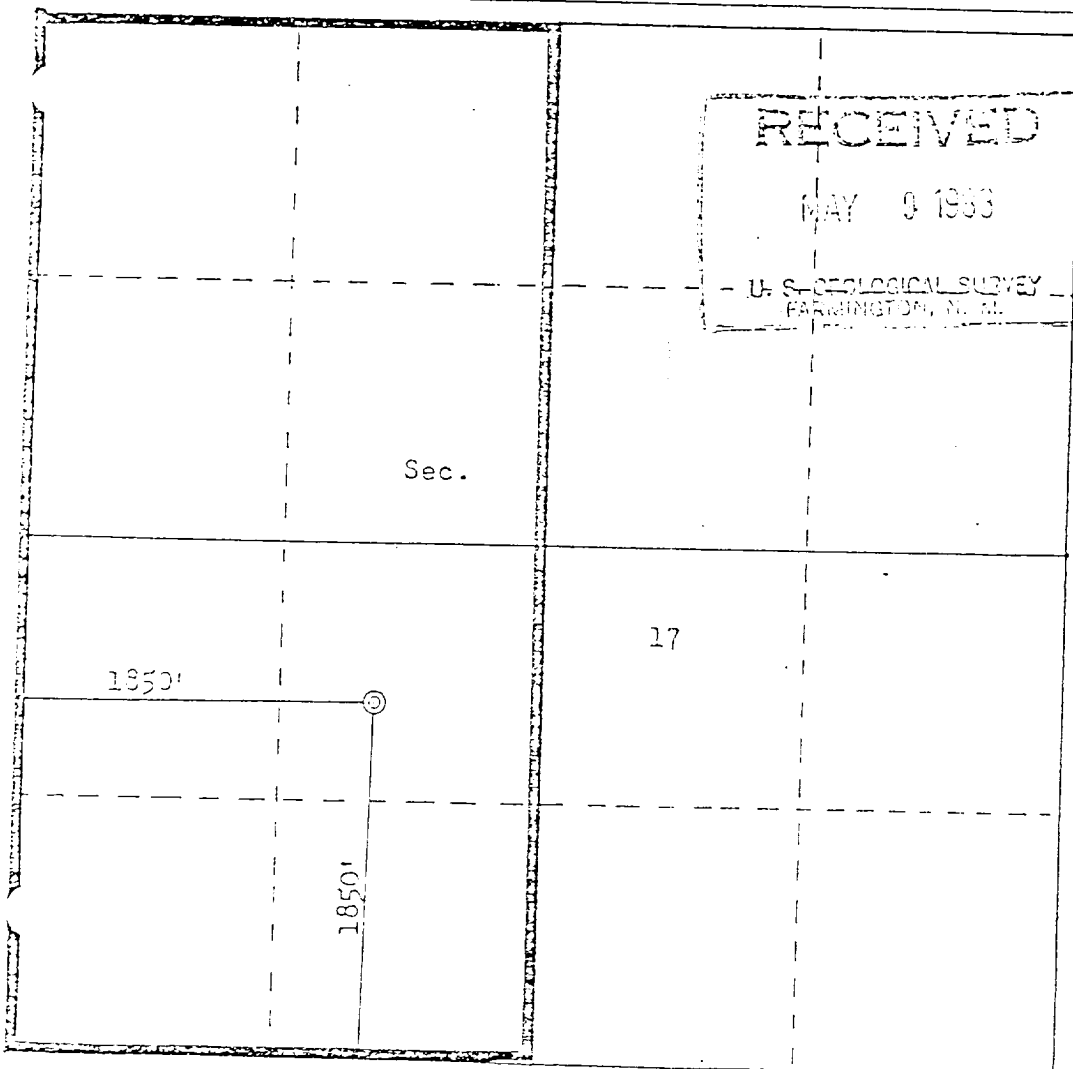
Operator NORTHWEST PIPELINE CORPORATION			Lease ROSA UNIT		Well No. 96
Unit Letter K	Section 17	Township 31N	Range 6W	County San Juan	
Actual Footage Location of Well: 1850 feet from the South line and 1850 feet from the West line					
Ground Level Elev. 6414	Producing Formation Mesa Verde/Gallup-DK		Pool Blanco MV, Basin DK Undesignated Gallup		Dedicated Acreage: 320

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as owner and interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization PRODUCTION AND DRILLING

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of 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.



Scale: 1"=1000'

CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Paul C. Thompson

Name

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 plotted 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 Surveyed

April 18, 1983

Registered Professional Engineer and Land Surveyor

Fred B. Kent Jr.

Certificate No. 4112

3950

12/03/96

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 1½ 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 tbq.
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.
8. 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.

<u>STAGE</u>	<u>FLUID (gals)</u>	<u>SAND (lbs)</u>
Pad	15,000 gals	-
0.5 ppg	10,000 gals	5,000# sand
1.0 ppg	20,000 gals	20,000# sand
1.5 ppg	13,333 gals	20,000# sand
2.0 ppg	17,500 gals	35,000# sand
Flush	9324 gals	-
	<hr/> 85,157 gals	<hr/> 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.
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STAGE	FLUID (gals)	SAND (lbs)
Pad	15,000 gals	-
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2.0 ppg	17,500 gals	35,000# sand
Flush	8831 gals	-
	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
18. 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'
 COUNTY: San Juan State: NM TD: 7934' PBDT

FORMATION TOPS:	Ojo Alamo	2334'	Menefee	5402'
	Fruitland	2891'	Point Lookout	5613'
	Pictured Cliffs	3210'	Mancos	5824
	Lewis	3469'	Greenhorn	7734'
	Cliff House	5309'	Dakota	7779'

CASING RECORD:

<u>CASING</u>	<u>SIZE</u>	<u>WT. & GRADE</u>	<u>DEPTH SET</u>	<u>CEMENT</u>	<u>TOC</u>
SURFACE	13-3/4"	61# K-55	405'	620 sx	surface
INTERMEDIATE CSG	9-5/8"	36# K-55	3757'	1st 443 sx, 2nd 1097 sx	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# Tbg head: 11" 5000# x 7 1/16" 3000#
 INT spool: 13 5/8" 3000# x 11" 5000#

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

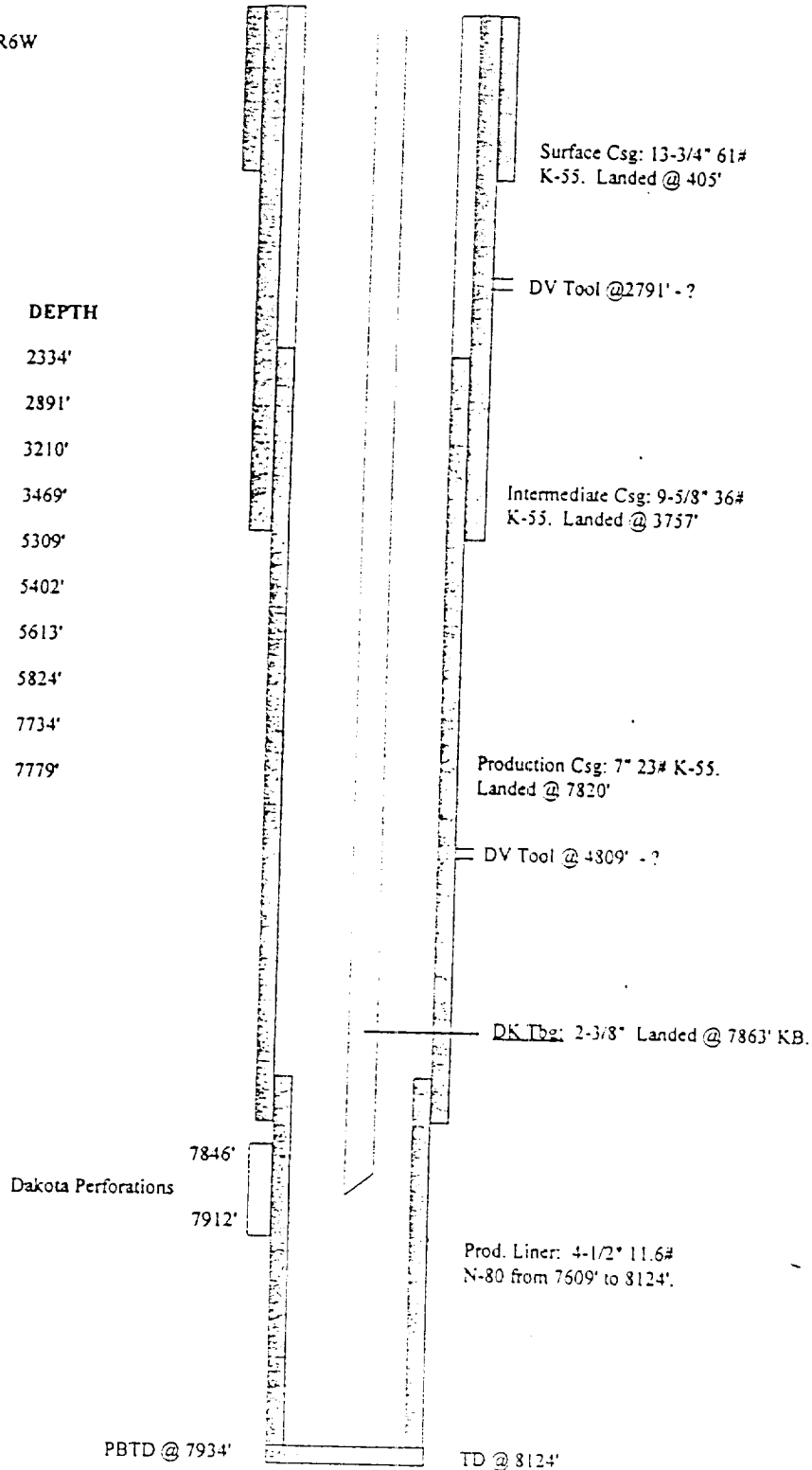
PRODUCTION HISTORY: Dakota, Cum: 662MMCF, Current 623MCF/D

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'

TOPS	DEPTH
OJO ALAMO	2334'
FRUITLAND	2891'
PICTURED CLIFFS	3210'
LEWIS	3469'
CLIFF HOUSE	5309'
MENEFE	5402'
POINT LOOKOUT	5613'
MANCOS	5824'
GREENHORN	7734'
DAKOTA	7779'



HOLE SIZE	CASING	CEMENT	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" 11.6#	85 sx	7609'