

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

SF-078893

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

OIL WELL ☐ GAS WELL ☒ OTHER ☐

2. NAME OF OPERATOR

~~WILLIAMS PRODUCTION COMPANY (FOR NORTHWEST PIPELINE CORP.)~~

3. ADDRESS OF OPERATOR

P.O. BOX 58900, SALT LAKE CITY, UTAH 84158-0900

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*

See also space 17 below.)

At surface

940' FSL

960' FEL

7. UNIT AGREEMENT NAME

ROSA UNIT

8. FARM OR LEASE NAME

ROSA UNIT

9. WELL NO.

#105

10. FIELD AND POOL, OR WILDCAT

UND. GALLUP/BASIN DAKOTA

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

SEC. 22 P, T31N, R4W

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ET, GR, etc.)

7212' GR

12. COUNTY OR PARISH

RIO ARRIBA

13. STATE

NM

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐
☐
☐
☐
☐

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

☐
☐
☒
☐
☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐
☐
☐
☐
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

☐
☐
☐
☐
☐

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

17. 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.)*

1) WE PROPOSE TO PERMANENTLY ABANDON THIS WELL AS PER THE ATTACHED PROCEDURE.

RECEIVED
SEP 25 1992
OIL CON. DIV.
DIST. 3

RECEIVED
BLM
SEP 18 1992
OIL CON. DIV.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

SIGNED

[Signature]

TITLE

SR. ENGINEER

DATE

9/2/92

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

APPROVED
AS AMENDED

CONDITIONS OF APPROVAL, IF ANY:

SEP 24 1992

AREA MANAGER


*See Instructions on Reverse Side

BLM/CON

ROSA UNIT #105 GL
P&A PROCEDURE

1. MOL RU Service Unit. Notify BLM 24 hrs. prior to MOL.
2. Hold safety meeting and discuss procedure.
3. PU a Baker cement retainer on 2-3/8" tubing and TIH. Set retainer at 8680'.
4. Squeeze Dakota perforations with 41 sx (48 cu.ft.) of classs "B" cement and spot 24 sx (28 cu.ft.) inside the casing (100% excess outside and 50% excess inside the casing). Sting out of and leave 5 sx on top of the retainer. Pull 2 joints.
5. Load hole with 7 BBLS of 9#/gal. mud from 8620' to 8182'. TOH.
6. PU a Baker cement retainer on 2-3/8" tubing and TIH. Set retainer at 7688'.
7. Squeeze Gallup perforations with 171 sx (202 cu.ft.) of classs "B" cement and spot 55 sx (65 cu.ft.) inside the casing (100% excess outside and 50% excess inside the casing). Sting out of and leave 5 sx on top of the retainer. Pull 2 joints.
8. Spot 14 BBLS of 9#/gal. mud from 7628' to 6727'. TOH to 6727'.
9. Spot plug #3: 84 sx (99 cu.ft.) from 6727' to 5970' (50% excess to cover from 50' below the Point Lookout to 50' above the Cliff House). TOH to 5970'.
10. Spot 29 BBLS of 9#/gal. mud from 5970' to 4109'. TOH to 4109'.
11. Spot plug #4: 42 sx (50 cu.ft.) from 4109' to 3790' (50% excess to cover from 50' below the Pictured Cliffs to 50' above the Fruitland). TOH to 3790'.
12. Spot 1.5 BBLS of 9#/gal. mud from 3790' to 3702'. TOH to 3702'.
13. Spot plug #5: 43 sx (51 cu.ft.) from 3702' to 3369' (50% excess to cover from 50' below the Ojo Alamo to 50' above the Ojo Alamo). TOH to 3369'.
14. Spot 46 BBLS of 9#/gal. mud from 3369' to 483'. TOH.
15. Perforate at 483' (50' below surface casing shoe).
16. Establish circulation from the bradenhead and pump cement until the surface is circulated (estimate 350 sx).
17. Cut-off wellhead and install P&A marker. Release rig.

file:#105p&a


Mark McCallister
Sr. Engineer, Production & Drilling

WILLIAMS PRODUCTION COMPANY

PLUG AND ABANDON

file:\$#106ta

LEASE NAME: Rosa Unit	WELL NO.: #106	FIELD: Undesignated
LOCATION: NW/4 SW/4, Sec. 24, T31N,R04W	COUNTY: Rio Arriba	STATE: New Mexico
FORMATION: Gallup	TOTAL DEPTH: 8883'	TOTAL DAYS: 3

	ESTIMATED COST :	ACTUAL COST	
	SUB	TOTAL :	COST TOTAL
WELLHEAD EQUIPMENT:	-8000	-8000 :	_____
OTHER EQUIPMENT			
Surface Production Equipment	-9000	-9000 :	_____
TOTAL TANGIBLE COSTS		-17000 :	0

DRILLING COSTS					
Service Unit	3 Days	2000 \$/Day	6000	:	_____
Rig Moving Costs			4000	10000 :	0
				:	

CEMENTING (Cement,Pump Trucks and Drayage)					
Squeeze Jobs & Plugs			12000	:	_____
Cement Retainer:			900	12900 :	0
				:	

SPECIAL SERVICES					
Perforating			1500	1500 :	_____
				:	

MATERIALS					
Drilling Mud and Chemicals			2600	:	_____
Water			1000	:	_____
Tank Rental			1500	:	_____
Hauling			1800	:	_____
Tubular Inspection			3000		
Miscellaneous: Pipe dope, Stripping rubbers, etc.			500	10400 :	0

ACCESS and LOCATION and CLEANUP	2000	2000 :	_____
SUPERVISION, LEGAL etc.	1350	1350 :	_____

TOTAL INTANGIBLE COST		38150 :	0
Total Direct Cost		21150 :	0
Plus 5% Contingency		1058 :	
Total Cost		22208 :	
Total WPC Cost		0 :	0

WORKING INTEREST			
Williams Production Company	--0%---	ESTIMATED COSTS ONLY--Each participating	
Others _____	-----	Owner to Pay Proportionate Share of Actual	
		Well Cost Subject to Operating Agreement	

Date	-----08/14/92-----	Partner's Approval
Prepared By	Mark McCallister	Date _____
Approved By	_____	By _____

WILLIAMS PRODUCTION COMPANY

PLUG AND ABANDON

file:\$#105p&a

LEASE NAME: Rosa Unit	WELL NO.: #105	FIELD: Undesignated/Basin
LOCATION: SE/4 SE/4, Sec. 22, T31N,R04W	COUNTY: Rio Arriba	STATE: New Mexico
FORMATION: Gallup/Dakota	TOTAL DEPTH: 9049'	TOTAL DAYS: 3

	ESTIMATED COST :	ACTUAL COST
	SUB TOTAL :	COST TOTAL
WELLHEAD EQUIPMENT:	-8000	-8000 : _____
OTHER EQUIPMENT-----		
Surface Production Equipment	-9000	-9000 : _____
TOTAL TANGIBLE COSTS	-17000 :	0

DRILLING COSTS-----

Service Unit	3 Days	2000 \$/Day	6000	:	_____	
Rig Moving Costs			4000	10000 :	_____	0
				:	_____	

CEMENTING (Cement,Pump Trucks and Drayage)-----

Squeeze Jobs & Plugs	11800	:	_____	
Cement Retainer: 2	1800	13600 :	_____	0
		:	_____	

SPECIAL SERVICES-----

Perforating	1500	1500 :	_____	
		:	_____	

MATERIALS-----

Drilling Mud and Chemicals	2300	:	_____	
Water	1000	:	_____	
Tank Rental	1500	:	_____	
Hauling	1800	:	_____	
Tubular Inspection	3000			
Miscellaneous: Pipe dope, Stripping rubbers, etc.	500	7100 :	_____	0

ACCESS and LOCATION and CLEANUP-----

	2000	2000 :	_____	
SUPERVISION, LEGAL etc.-----	1350	1350 :	_____	

TOTAL INTANGIBLE COST

	35550 :	0
--	---------	---

Total Direct Cost	18550 :	0
Plus 5% Contingency	928 :	
Total Cost	19478 :	
Total WPC Cost	0 :	0

WORKING INTEREST-----

Williams Production Company	--0%--	ESTIMATED COSTS ONLY--Each participating Owner to Pay Proportionate Share of Actual Well Cost Subject to Operating Agreement
Others _____	-----	

Date	-----08/14/92-----	Partner's Approval	
Prepared By	Mark McCallister	Date	_____
Approved By	_____	By	_____

DATA SHEET

WELLNAME: Rosa unit #105 GL/DK

FIELD: Und. GL/Basin DK

LOCATION: SE/4 SE/4 Sec. 22, T31N R04W

ELEVATION: 7212'GR KB = 13'

COUNTY: Rio Arriba STATE: New Mexico

TOTAL DEPTH: 8950' PBTD = 9050'

DATE COMPLETED: 03/08/85

CASING RECORD	:	CASING SIZE	:	WT. & GRADE	:	DEPTH SET	:	CEMENT	:	TOP CEMENT	:
Surface	:	13-3/8"	:	54.50# K-55	:	433'	:	350 sx	:	SURFACE	:
Production	:	4-1/2"	:	11.6# N-80	:	9049'	:	2050 sx	:	SURFACE	:

WELLHEAD EQUIPMENT Casinghead: 11" 5000# WKM
Pool:

Tubinghead: 11" 5000# X 6" 5000#
Bonnett: 6" 5000# X 2-3/8"EUE

TUBING EQUIPMENT: 272 Joints of 2-3/8" 4.7# J-55 @ 8844' KB. Baker R-3 Packer @ 8233'
Baker sliding sleeve @ 8230' (on top of pkr). Seating nipple on
bottom of bottom joint.

FORMATION TOPS	Ojo Alamo	3419'	Menefee	6318'
	Kirtland	3652'	Point Lookout	6677'
	Fruitland	3840'	Gallup	7368'
	Pictured Cliffs	4059'	Greenhorn	8532'
	Lewis	4170'	Graneros	8606'
	Cliff House	6020'	Dakota	8728'

LOGGING RECORD: GR/DIL & CDL/CNL

PERFORATIONS: DK: 8730' to 8750', 8768' to 8798', 8804' to 8836' w/ 2spf.
GL: 7738' to 7858', 7926' to 8182' w/ 1spf.

STIMULATION: DK: 195,000# 20/40 in 50# X-LNK GEL
GL: 195,000# 20/40 in 50# GEL

PRODUCTION HISTORY: This well has never been turned over to WPX or tied in to the
pipeline. There is no production history. Amoco reported a gauge
of 2141 MCF/D for the Gallup and no flow from the Dakota.

file:#105data

AUGUST 5, 1992

WELLBORE DIAGRAM

ROSA UNIT #105 GL/DK

SE/4 SE/4 SEC. 22, T31N, R04W
RIO ARriba CO., NM
ELEV. = 7212' GR.
KB = 13'

CASINGHEAD: 11" 5000#
TUBINGHEAD: 11"5000 X 6" 5000#
BONNETT: 6" 5000# X 2-3/8"

TOPS:

OJO ALAMO: 3419'
KIRTLAND: 3652'
FRUITLAND: 3840'
PICTURED CLIFFS: 4059'
LEWIS: 4170'
CLIFF HOUSE: 6020'
MENEFEE: 6318'
POINT LOOKOUT: 6677'
MANCOS: 7016'
GALLUP: 7368'
GREENHORN: 8532'
GRANEROS: 8606'
DAKOTA: 8728'
MORRISON: 8984'

13-3/8" 54.50# K-55 @ 433'

DV TOOL @ 5798'

FRAC: 195,000# 20/40 Sand in 50# Gel

1 7738'

1 1spf

1 8182'

Baker Sliding Sleeve @ 8230'

XX XX Baker R-3 Packer @ 8233'

-- 272 joints of 2-3/8" 4.7# J-55
Landed @ 8844' w/ SN on Bottom

1 8750' 2spf
1 8836'

FRAC: 195,000# 20/40 Sand
in 50# X-Link Gel

PBTD @ 8960'

4-1/2" 11.6# N-80 @ 9049'

CASING STRING	HOLE SIZE	CASING SIZE	CEMENT	CEMENT VOLUME	TOP OF CEMENT
SURFACE	17-1/2"	13-3/8"	350 sx	417 cu.ft.	Surface
PRODUCTION STG 1	7-7/8"	4-1/2"	950 sx	1121 cu.ft.	5798' (DV TOOL)
PRODUCTION STG 2		DV @ 5798'	1100 sx	1298 cu.ft.	Surface

* ALL CEMENT VOLUMES ARE REDUCED BY 25% TO CALCULATE CEMENT TOPS.

IN REPLY REFER TO
(019)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: 105 Rosa Unit

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal Leases."
2. Mark Kelly with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.
3. Blowout prevention equipment is required.
4. The following modifications to your plugging program are to be made (when applicable):

spec plug from 1570-1770 + 50% excess to cover the recommended type

Office Hours: 7:45 a.m. to 4:30 p.m.

GENERAL REQUIREMENTS FOR
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES
FARMINGTON RESOURCE AREA

1. Secure prior approval either on a Sundry Notice (Form 3160-5) or verbally from the Fluids Drilling & Production Section at this office before changing the approved plugging program.

2. Plugging equipment used shall have separate mixing and displacement pumps and a calibrated tank to assure proper displacement of plugs. The Operator is responsible for providing all measuring devices needed to assure proper measurement of materials being used.

3. A proper tank or pit will be used to contain all fluids pumped from the well during plugging operations. Unattended pits are to be fenced.

4. All cement plugs are to be placed through tubing (or drillpipe) and shall be a minimum of 100 feet in length with 50% excess inside casing or 100% excess when plug is set in open hole or squeezed into perforations. 15.6#/gal slurry weight is to be used when using class B neat cement or when CaCl_2 is used. Use the recommended slurry weight of other type cements when they are used (Class C, Pozzolan etc.).

5. Any cement plugs placed when well is not full of fluid, or when well may be taking fluid, (i.e. across perms-unless bridge plug or retainer is used, across bad csg., or fresh water formations) will be tagged (touched) after cement has set to verify proper location.

5a. Testing The first plug below the surface plug shall generally be tested by either tagging the plug with the working pipe string, or pressuring to a minimum pump (surface) pressure of 1000 psig, with no more than a 10 percent drop during a 15-minute period (cased hole only). If the integrity of any other plug is questioned, it must be tested in the same manner. Also, any cement plug which is the only isolating medium for a fresh water interval or a zone containing a valuable mineral deposit should be tested by tagging with the drill string.

6. Mud must be placed between plugs. Plugging mud is to be made up with a minimum of 15 lbs/bbl of sodium bentonite, and a nonfermenting polymer. Minimum consistency of plugging mud must be 9 lbs/gal and with a minimum viscosity of 50 sec/qt. Fresh water is to be utilized for mixing mud.

7. Following the placement of a cement plug, the withdrawal rate for at least the length of the cement plug shall not exceed 30 ft/min, in order to minimize the contamination of the plug.

8. Within 30 days after plugging work is completed, file a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5), in quintuplicate with Area Manager, Bureau of Land Management, 1235 La Plata Highway, Farmington, NM 87401. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. Show date well was plugged.

9. All permanently abandoned wells are to be marked with a regulation marker (4" pipe extending 4' above the ground line) containing the information as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10. After plugging work is completed the surface is to be rehabilitated in accord with instructions from the Fluids Surface Management Section of the Farmington Resource Area Office.

All above are minimum requirements. The period of liability under the bond of record will not be terminated until the lease is inspected and surface work approved.

Please advise this office when the well location is ready for final inspection.

Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1.

You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.