

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN
DUPLICATE

(See other instructions on
reverse side)

FORM APPROVED
OMB NO 1004-0137
Expires February 28, 1995

5 LEASE DESIGNATION AND LEASE NO
NMSF-078769 71

6 IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

7. UNIT AGREEMENT NAME

Rosa Unit

1a TYPE OF WELL ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b TYPE OF COMPLETION
☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

2 NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #009C

3 ADDRESS AND TELEPHONE NO
P.O. Box 640, Aztec, NM 87410 (505) 634-4208

9 API WELL NO
30-039-30179

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface 380' FSL & 1135' FWL, sec 11, T31N, R6W
At top production interval reported below : 402' FSL & 438' FWL, sec 11, T31N, R6W
At total depth: Same

10 FIELD AND POOL, OR WILDCAT
BASIN MANCOS

11 SEC., T., R., M., OR BLOCK AND
SURVEY OR AREA
SW/4 SW/4, Sec 11, T31N, R6W

14 PERMIT NO.

DATE ISSUED

12 COUNTY OR

13 STATE

Rio Arriba

New Mexico

15 DATE
SPUDDED
10/28/08

16 DATE T.D.
REACHED
11/21/08

17 DATE COMPLETED (READY TO PRODUCE)
10/6/09

18 ELEVATIONS (DK, RKB, RT, GR, ETC)*
6386' GR

19 ELEVATION CASINGHEAD

20 TOTAL DEPTH, MD & TVD
8266' MD / 8138' TVD

21 PLUG, BACK T.D., MD & TVD
8215' MD / 8087' TVD

22 IF MULTICOMP,
HOW MANY
3*

23 INTERVALS
DRILLED BY

ROTARY TOOLS
x

CABLE TOOLS

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BASIN MANCOS 6965'-7430'

25 WAS DIRECTIONAL SURVEY MADE
YES

26 TYPE ELECTRIC AND OTHER LOGS RUN
Array Induction, Gamma Ray-Density-Neutron, Compensated Dual Neutron, Cement Bond Log

27 WAS WELL CORED
No

28 CASING REPORT (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB/FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
10-3/4", K-55	40 5#	324'	14-3/4"	250 SX - SURFACE	
7-5/8", J-55	26.4#	3818'	9-7/8"	580 SX - SURFACE	
5-1/2", N-80	17#	8265'	6-3/4"	495 SX -- 4350' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4 7#, J-55 & N-80EUE 8rd	8170'	none

31 PERFORATION RECORD (Interval, size, and number)

Upper Mancos: Total of 51, 0 34" holes

Lower Mancos: Total of 51, 0.34" holes

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6965'-7190'	Fraced with 5000# 100 mesh BASF, followed w/104,000# 40/70 BASF RCVD OCT 21 '09
7270'-7430'	Fraced with 5000# 100 mesh BASF followed with 97,300# 40/70 BASF OIL CONS. DIV.

33 PRODUCTION Commingled with Mesa Verde and Dakota per AZT-3246

DIST. 3

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
10-4-09	2 0 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	400 lb				926 p/day		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TO BE SOLD

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Larry Higgins TITLE Drilling COM

DATE 10-12-09

NMOCD

FARMINGTON FIELD OFFICE

37 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)					38 GEOLOGIC MARKERS Will remediate prior to completing the MV			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC		NAME	TOP		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						PICTURED CLIFFS	3334'	3209'
						LEWIS	3628'	3502'
						CLIFFHOUSE	5530'	5404'
						MENEFEE	5574'	5448'
						POINT LOOKOUT	5813'	5687'
						MANCOS	6232'	6106'
						DAKOTA	8006'	7878'

In Lieu of
Form 3160-4
(July 1992)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN
DUPLICATE

(See other instructions on
reverse side)

FORM APPROVED
OMB NO. 1004-0137
Expires: February 28, 1995

5 LEASE DESIGNATION AND LEASE NO.

NMSF-078771

6 IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

OCT 14 2009

7 UNIT AGREEMENT NAME

Rosa Unit

1a. TYPE OF WELL ☐ OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER

b TYPE OF COMPLETION

☒ NEW WELL ☐ WORKOVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER

2 NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

8 FARM OR LEASE NAME, WELL NO

Rosa Unit #009C

3 ADDRESS AND TELEPHONE NO

P O. Box 640, Aztec, NM 87410 (505) 634-4208

9 API WELL NO

30-039-30179

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

At Surface 380' FSL & 1135' FWL, sec 11, T31N, R6W

At top production interval reported below : 402' FSL & 438' FWL, sec 11, T31N, R6W

At total depth Same

10. FIELD AND POOL, OR WILDCAT

BLANCO MESA VERDE

11. SEC., T., R., M., OR BLOCK AND

SURVEY OR AREA

SW/4 SW/4, Sec 11, T31N, R6W

14 PERMIT NO

DATE ISSUED

12. COUNTY OR

13 STATE

Rio Arriba

New Mexico

15 DATE

16 DATE T.D.

17 DATE COMPLETED (READY TO PRODUCE)

18 ELEVATIONS (DK, RKB, RT, GR, ETC)*

19 ELEVATION CASINGHEAD

SPUDDED
10/28/08

REACHED
11/21/08

10/6/09

6386' GR

RCVD OCT 21 '09

20 TOTAL DEPTH, MD & TVD

8266' MD / 8138' TVD

21 PLUG, BACK T.D., MD & TVD

8215' MD / 8087' TVD

22 IF MULTICOMP,
HOW MANY
3*

23 INTERVALS
DRILLED BY

ROTARY TOOLS

CABLE TOOLS

X OIL CONS. DIV.

24 PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*

BLANCO MESA VERDE: 5540'-5906'

25 WAS DIRECTIONAL SURVEY MADE

YES DIST. 3

26 TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Gamma Ray-Density-Neutron, Compensated Dual Neutron, Cement Bond Log

27 WAS WELL CORED

No

28 CASING REPORT (Report all strings set in well)

CASING SIZE/GRADE	WEIGHT, LB / FT	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
10-3/4", K-55	40 5#	324'	14-3/4"	250 SX - SURFACE	
7-5/8", J-55	26 4#	3818'	9-7/8"	580 SX - SURFACE	
5-1/2", N-80	17#	8265'	6-3/4"	495 SX - 4350' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 3/5", 4.7#, J-55 & N-80EUE 8rd	8170'	none

31 PERFORATION RECORD (Interval, size, and number)

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL
(MD)

AMOUNT AND KIND OF MATERIAL USED

Upper MV: Total of 49, 0 3/4" holes

5540'-5756'

Faced with 73,310# 20/40 mesh BASF

Lower MV: Total of 38, 0.34" holes

5814'-5906'

Faced with 85,308# 20/40 mesh BASF

33 PRODUCTION Commingled with Mancos and Dakota per AZT-3246

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
10-4-09	20 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	400 lb				977 p/day		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc) TO BE SOLD

TEST WITNESSED BY: Gary Spahn

35 LIST OF ATTACHMENTS

SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM

36 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

Larry Higgins

TITLE Drilling COM

DATE 10-12-09

NMOCDB

OCT 16 2009

FARMINGTON FIELD OFFICE

SA

37 SUMMARY OF POROUS ZONES (Show all important zones of porosity and contents thereof, cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries)					38 GEOLOGIC MARKERS Will remediate prior to completing the MV			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC		NAME	TOP		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						PICTURED CLIFFS	3334'	3209'
						LEWIS,	3628'	3502'
						CLIFFHOUSE	5530'	5404'
						MENEFEE	5574'	5448'
						POINT LOOKOUT	5813'	5687'
						MANCOS	6232'	6106'
						DAKOTA	8006'	7878'