

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-078765

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

3. ADDRESS AND TELEPHONE NO

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

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

At Surface: 1965' FNL & 5' FEL, sec 8, T31N, R6W

At top production interval reported below : 2452' FSL & 683' FEL, sec 8, T31N, R6W

At total depth. Same

8 FARM OR LEASE NAME, WELL NO

Rosa Unit #167D

9 API WELL NO.

30-045-34985-0002

10. FIELD AND POOL, OR WILDCAT

Basin Mancos

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

Sec 8, T31N, R6W

12 COUNTY OR

San Juan

13 STATE

New Mexico

15 DATE
SPUDDED
7-18-09

16 DATE T D
REACHED
7-30-09

17 DATE COMPLETED (READY TO PRODUCE)
10-14-09

14 PERMIT NO

DATE ISSUED

18 ELEVATIONS (DK, RKB, RT, GR, ETC)*
6262' GR

19. ELEVATION CASINGHEAD

RCVD OCT 21 '09

20 TOTAL DEPTH, MD & TVD
8116' MD / 7903' TVD

21 PLUG, BACK T D, MD & TVD
8111' MD / 7898' 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)*

BASIN MANCOS 6930'-7356' MD

25 WAS DIRECTIONAL SURVEY MADE

YES DIST. 3

26 TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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", J-55	40.5#	319'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3746'	9-7/8"	580 SX - SURFACE	
5-1/2", N-80	17.0#	8116'	6-3/4"	360 SX - 4936' (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-80 EUE 8rd	8056'	none

30 TUBING RECORD

31 PERFORATION RECORD (Interval, size, and number)

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL
(MD)

AMOUNT AND KIND OF MATERIAL USED

Upper Mancos: Total of 69, 0.34" holes

6930'-7150'

Fraced with 5187# 100 mesh sand followed with 112,267# 40/70 mesh sand

Lower Mancos: Total of 63, 0.34" holes

7214'-7356'

Fraced with 4992# 100 mesh sand followed with 120,267# 40/70 mesh sand

33. PRODUCTION Commingled with Mesaverde and Dakota per AZT-3245

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
10-12-09	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	450 lb				999 mcf/d		

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

TEST WITNESSED BY: Craig Ward

35 LIST OF ATTACHMENTS

SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM, Directional EOW report

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

SIGNED

Larry Higgins

TITLE Drlg COM

DATE 10-15-09

NMOCB

ACCEPTED FOR RECORD

OCT 19 2009

FARMINGTON FIELD OFFICE
BY T. Salvers

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC		NAME	TOP		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						PICTURED CLIFFS	3274'	3064'
						LEWIS	3628'	3416'
						CLIFFHOUSE	5472'	5259'
						POINT LOOKOUT	5748'	5535'
						MANCOS	6232'	6019'
						GRANEROS	7845'	7632'
						DAKOTA	7977'	7764'

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED

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

b. TYPE OF COMPLETION
☒ NEW WELL WORKOVER DEEPEN PLUG BACK DIFF RESVR OTHER OCT 15 2009

2. NAME OF OPERATOR
WILLIAMS PRODUCTION COMPANY

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At Surface: 1965' FNL & 5' FEL, sec 8, T31N, R6W
At top production interval reported below: 2452' FSL & 683' FEL, sec 8, T31N, R6W
At total depth. Same

5. LEASE DESIGNATION AND LEASE NO
NMSF-078765

6 IF INDIAN, ALLOTTEE OR

7 UNIT AGREEMENT NAME
Rosa Unit

NMMN-78407A-MW

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #167D

9. API WELL NO
30-045-34985-0003

10. FIELD AND POOL, OR WILDCAT
Blanco Mesaverde

11 SEC, T, R, M, OR BLOCK AND
SURVEY OR AREA
Sec 8, T31N, R6W

12 COUNTY OR 13. STATE
San Juan New Mexico

19. ELEVATION CASINGHEAD
RCVD OCT 21 '09

ROTARY TOOLS CABLE TOOLS
x OIL CONS. DIV.

25. WAS DIRECTIONAL SURVEY MADE
YES DIST. 3

27 WAS WELL CORED
No

15 DATE 16. DATE T D 17 DATE COMPLETED (READY TO PRODUCE)
SPUDDED REACHED
7-18-09 7-30-09 10-14-09

20 TOTAL DEPTH, MD & TVD 21 PLUG, BACK T.D., MD & TVD
8116' MD / 7903' TVD 8111' MD / 7898' TVD

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)*
BLANCO MESAVERDE: 5442'-6008' MD

26 TYPE ELECTRIC AND OTHER LOGS RUN
Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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", J-55	40.5#	319'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3746'	9-7/8"	580 SX - SURFACE	
5-1/2", N-80	17.0#	8116'	6-3/4"	360 SX - 4936' (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-80 EUE 8rd	8056'	none

31 PERFORATION RECORD (Interval, size, and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5442'-5722'	Fraced with 81,484# 20/40 mesh BASF
5748'-6008'	Fraced with 84,642# 20/40 mesh BASF

33 PRODUCTION Commingled with Mancos and Dakota per AZT-3245

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL	GAS-OIL RATIO
10-12-09	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	450 lb				1053 mcf/d		

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

TEST WITNESSED BY Craig Ward

35 LIST OF ATTACHMENTS SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM, Directional EOW report

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

SIGNED

Larry Higgins

TITLE

NMCO

DATE

10-15-09

ACCEPTED FOR RECORD

OCT 19 2009

FARMINGTON FIELD OFFICE
BY T. Salinas

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			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC		NAME	TOP		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						PICTURED CLIFFS	3274'	3064'
						LEWIS	3628'	3416'
						CLIFFHOUSE	5472'	5259'
						POINT LOOKOUT	5748'	5535'
						MANCOS	6232'	6019'
						GRANEROS	7845'	7632'
						DAKOTA	7977'	7764'

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

RECEIVED

OCT 15 2009

5 LEASE DESIGNATION AND LEASE NO.
NMSF-078765

6 IF INDIAN, ALLOTTEE OR

7 UNIT AGREEMENT NAME
Rosa Unit

NMMN- 78407B-DK

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #167D

9 API WELL NO
30-045-34985-0001

10. FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC, T, R, M, OR BLOCK AND
SURVEY OR AREA
Sec 8, T31N, R6W

12 COUNTY OR 13. STATE
San Juan New Mexico

19. ELEVATION CASINGHEAD

25 WAS DIRECTIONAL SURVEY MADE
YES

27 WAS WELL CORED
No

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

3. ADDRESS AND TELEPHONE NO.

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

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

At Surface: 1965' FNL & 5' FEL, sec 8, T31N, R6W

At top production interval reported below 2452' FSL & 683' FEL, sec 8, T31N, R6W

At total depth: Same

14. PERMIT NO.

DATE ISSUED

15. DATE
SPUDDED
7-18-09

16 DATE T D
REACHED
7-30-09

17 DATE COMPLETED (READY TO PRODUCE)
10-14-09

18 ELEVATIONS (DK, RKB, RT, GR, ETC)*
6262' GR

20 TOTAL DEPTH, MD & TVD
8116' MD / 7903' TVD

21 PLUG, BACK T.D., MD & TVD
8111' MD / 7898' 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 DAKOTA. 7977'-8096' MD

26 TYPE ELECTRIC AND OTHER LOGS RUN

Array Induction, Compensated Gamma Ray-Density-Neutron, Temperature, Ultra Sonic Gas Detector and CBL

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", J-55	40.5#	319'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3746'	9-7/8"	580 SX - SURFACE	
5-1/2", N-80	17.0#	8116'	6-3/4"	360 SX - 4936' (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-80 EUE 8rd	8056'	none

31. PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 72, 0.34" holes

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL
(MD)

AMOUNT AND KIND OF MATERIAL USED

7977'-8096'

Faced with 5065# 100 mesh sand followed with 66,549# 40/70 mesh sand

RCVD OCT 21 '09

OIL CONS. DIV.

33 PRODUCTION Commingled with Mesaverde and Mancos per AZT-3245

DIST. 3

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
		Flowing				SI - waiting on tie-in ✓	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL	GAS - MCF	WATER - BBL	GAS-OIL RATIO
10-12-09 ✓	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	450 lb				648 mcf/d ✓		

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

TEST WITNESSED BY: Craig Ward

35 LIST OF ATTACHMENTS: SUMMARY OF POROUS ZONES, WELLBORE DIAGRAM, Directional EOW report

ACCEPTED FOR RECORD

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

SIGNED

Larry Higgins

TITLE Drlg COM DATE 10-15-09

NMOCD 46

OCT 19 2009

FARMINGTON FIELD OFFICE
BY J. Salyers

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			
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC		NAME	TOP		
						NAME	MEASURED DEPTH	TRUE VERTICAL DEPTH
						PICTURED CLIFFS	3274'	3064'
						LEWIS	3628'	3416'
						CLIFFHOUSE	5472'	5259'
						POINT LOOKOUT	5748'	5535'
						MANCOS	6232'	6019'
						GRANEROS	7845'	7632'
						DAKOTA	7977'	7764'