

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-078766

6 IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

RECEIVED

2 NAME OF OPERATOR

WILLIAMS PRODUCTION COMPANY

NOV 06 2009

3 ADDRESS AND TELEPHONE NO

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

Bureau of Land Management
Farmington Field Office

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

At Surface: 1140' FSL & 1400' FWL, sec 25, T31N, R6W

At top production interval reported below: 631' FSL & 679' FWL, sec 25, T31N, R6W

At total depth: Same

7 UNIT AGREEMENT NAME

Rosa Unit

Report to lease

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #160D

9. API WELL NO

30-039-30689-0001

10 FIELD AND POOL, OR WILDCAT
Basin Dakota

11. SEC, T, R, M, OR BLOCK AND
SURVEY OR AREA
Sec 25, T31N, R6W

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR

13 STATE

Rio Arriba

New Mexico

15 DATE
SPUDDED
8-9-09

16 DATE T D
REACHED
8-20-09

17 DATE COMPLETED (READY TO PRODUCE)
11-5-09

18 ELEVATIONS (DK, RKB, RT, GR, ETC)*
6392' GR

19. ELEVATION CASINGHEAD

20 TOTAL DEPTH, MD & TVD
8115' MD / 7976' TVD

21. PLUG, BACK T.D., MD & TVD
8107' MD / 7968' 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: 7996'-8096' MD

26 TYPE ELECTRIC AND OTHER LOGS RUN

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

25 WAS DIRECTIONAL SURVEY MADE
YES

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#	322'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26 4#	3853'	9-7/8"	585 SX - SURFACE	
5-1/2", N-80	17 0#	8114'	6-3/4"	355 SX - 3500' (CBL)	

29 LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	30 TUBING RECORD SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2.375", 4 #, J-55 & N-80EUE 8rd	7978'	none

31 PERFORATION RECORD (Interval, size, and number)

Dakota: Total of 63, 0 34" holes ✓

32 ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC

DEPTH INTERVAL
(MD)

AMOUNT AND KIND OF MATERIAL USED

7996'-8096'

Fraced with 5372# 100 mesh BASF followed with 87,518# 40/70
mesh BASF

RCVD NOV 13 '09

OIL CONS. DIV.

33 PRODUCTION Commingled with MV & MC per AZT-3254 NSL-6015

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
11-2-09 ✓

TESTED
2 hr

CHOKE SIZE
1/2"

PROD'N FOR TEST
PERIOD

OIL - BBL

GAS - MCF

WATER - BBL

GAS-OIL RATIO

FLOW TBG PRESS
0

CASING PRESSURE
300 lb

CALCULATED 24-HOUR RATE

OIL - BBL

GAS - MCF
431 mcf/d ✓

WATER - BBL

OIL GRAVITY-API (CORR)

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc) non flaring

TEST WITNESSED BY Weldon Higgins

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

Weldon Higgins

TITLE Drlg COM

DATE 11-6-09

NMOCD

ACCEPTED FOR RECORD

NOV 12 2009

FARMINGTON FIELD OFFICE
BY *T. Salpers*

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
						LEWIS	3378'	3640'
						CLIFFHOUSE	5495'	5356'
						POINT LOOKOUT	5810'	5671'
						MANCOS	6262'	6123'
						GRANEROS	7869'	7730'
						DAKOTA	7995'	7856'

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-078766

6 IF INDIAN, ALLOTTEE OR

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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: 1140' FSL & 1400' FWL, sec 25, T31N, R6W

At top production interval reported below: 631' FSL & 679' FWL, sec 25, T31N, R6W

At total depth: Same

7 UNIT AGREEMENT NAME

Rosa Unit

8 FARM OR LEASE NAME, WELL NO.

Rosa Unit #160D

9 API WELL NO.

30-039-30689-0003

10. FIELD AND POOL, OR WILDCAT

Blanco Mesaverde

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

SURVEY OR AREA

Sec 25, T31N, R6W

12 COUNTY OR

Rio Arriba

13. STATE

New Mexico

19 ELEVATION CASINGHEAD

15 DATE

SPUDDED
8-9-09

16 DATE T D

REACHED
8-20-09

17 DATE COMPLETED (READY TO PRODUCE)

11-5-09

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

6392' GR

20 TOTAL DEPTH, MD & TVD

8115' MD / 7976' TVD

21 PLUG BACK T D, MD & TVD

8107' MD / 7968' 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)*

BLANCO MESAVERDE 5520'-6032' MD

26 TYPE ELECTRIC AND OTHER LOGS RUN

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

25. WAS DIRECTIONAL SURVEY MADE

YES

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#	322'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3853'	9-7/8"	585 SX - SURFACE	
5-1/2", N-80	17.0#	8114'	6-3/4"	355 SX - 3500' (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	7978'	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 53, 0 34" holes

Lower MV: Total of 68, 0 34" holes

5520'-5732'

Faced with 86,481# 20/40 mesh BASF

5762'-6032'

Faced with 80,808# 20/40 mesh BASF

33 PRODUCTION

Commingled with MC & DK per AZT-3254

NSL-6015

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
11-2-09	2 hr	1/2"					
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL	GAS - MCF	WATER - BBL	OIL GRAVITY-API (CORR)
0	300 lb				701 mcf/d		

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc) non flaring

TEST WITNESSED BY Weldon Higgins

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

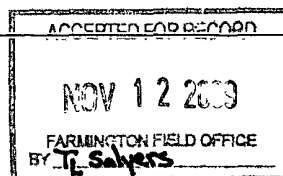
SIGNED

TITLE

DATE

11-6-09

NMOCD



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
						LEWIS	3378'	3640'
						CLIFFHOUSE	5495'	5356'
						POINT LOOKOUT	5810'	5671'
						MANCOS	6262'	6123'
						GRANEROS	7869'	7730'
						DAKOTA	7995'	7856'

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-078766

6 IF INDIAN, ALLOTTEE OR

7 UNIT AGREEMENT NAME

Rosa Unit

8 FARM OR LEASE NAME, WELL NO
Rosa Unit #160D

9. API WELL NO

30-039-30689-0002

10. FIELD AND POOL, OR WILDCAT
Basin Mancos

11 SEC, T, R, M, OR BLOCK AND
SURVEY OR AREA
Sec 25, T31N, R6W

12 COUNTY OR

Rio Arriba

13. STATE

New Mexico

19 ELEVATION CASINGHEAD

25 WAS DIRECTIONAL SURVEY MADE
YES

27 WAS WELL CORED
No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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: 1140' FSL & 1400' FWL, sec 25, T31N, R6W

At top production interval reported below: 631' FSL & 679' FWL, sec 25, T31N, R6W

At total depth: Same

14 PERMIT NO

DATE ISSUED

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

6392' GR

15 DATE
SPUDDED
8-9-09

16 DATE T D
REACHED
8-20-09

17 DATE COMPLETED (READY TO PRODUCE)
11-5-09

20 TOTAL DEPTH, MD & TVD
8115' MD / 7976' TVD

21 PLUG, BACK T D, MD & TVD
8107' MD / 7968' 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 7012'-7388' 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#	322'	14-3/4"	290 SX - SURFACE	
7-5/8", K-55	26.4#	3853'	9-7/8"	585 SX - SURFACE	
5-1/2", N-80	17.0#	8114'	6-3/4"	355 SX - 3500' (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	7978'	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 MC: Total of 66, 0.34" holes

7012'-7208'

Faced with 6933# 100 mesh BASF followed with 124,962# 40/70 mesh BASF

RCVD NOV 13 '09

Lower MC: Total of 63, 0.34" holes

7267'-7388'

Faced with 5232# 100 mesh BASF followed with 122,249# 40/70 mesh BASF

OIL CONS. DIV.

DIST. 3

33 PRODUCTION

Commingled with MV & DK per AZT-3254

NSL-6015

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

11-2-09

2 hr

1/2"

CALCULATED 24-HOUR RATE

OIL - BBL

GAS - MCF

WATER - BBL

OIL GRAVITY-API (CORR)

0

300 lb

665 mcf/d

34 DISPOSITION OF GAS (Sold, used for fuel, vented, etc) non flaring

TEST WITNESSED BY Weldon Higgins

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

TITLE

DATE

11-6-09

NMOCB

ACCEPTED FOR RECORD

NOV 12 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
						LEWIS	3378'	3640'
						CLIFFHOUSE	5495'	5356'
						POINT LOOKOUT	5810'	5671'
						MANCOS	6262'	6123'
						GRANEROS	7869'	7730'
						DAKOTA	7995'	7856'