

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

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.

Farmington Field Office
P.O. Box 640, Aztec, NM 87410 (505) 634-4208 Bureau of Land Management

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

At Surface: 935' FSL & 2200' FEL, sec 30, T31N, R5W
At top production interval reported below : Same
At total depth: Same

15. DATE
SPUDDED
5-8-09

16. DATE T.D.
REACHED
5-16-09

17. DATE COMPLETED (READY TO PRODUCE)
8-17-10

14. PERMIT NO.

DATE ISSUED

18. ELEVATIONS (DK, RKB, RT, GR, ETC.)*
6432' GR

12. COUNTY OR
Rio Arriba

13. STATE
New Mexico

19. ELEVATION CASINGHEAD

RCVD SEP 24 '10

20. TOTAL DEPTH, MD & TVD
8044'

21. PLUG, BACK T.D., MD & TVD
8037' MD

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 6835'-7340' MD - commingled with MV & DK per AZT-3182 -

26. TYPE ELECTRIC AND OTHER LOGS RUN

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

25. WAS DIRECTIONAL SURVEY MADE

No DIST. 3

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", J-55	26.4#	3750'	9-7/8"	630 SX - SURFACE	
5-1/2", N-80	17.0#	8044'	6-3/4"	335 SX - 3756' (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, EUE 8rd	7987	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: 6835'-7035' Total of 48, 0.34" holes ✓

6835'-7035' Fraced 15,243# 100 mesh Ottawa sand followed with 41,732# 30/50 mesh Ottawa sand w/gel followed with 91,209# 20/40 mesh Ottawa sand w/X-link

Lower MC: 7180'-7340' Total of 45, 0.34" holes ✓

7180'-7340' Fraced with 15,600# 100mesh Ottawa sand followed with 48,800# 30/50mesh Ottawa sand w/gel followed with 94,000# 20/40 mesh Ottawa sand w/X-link

33. PRODUCTION NOTE: Mesa Verde to be commingled with Dakota - AZT-3182

DATE OF FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping-size and type of pump)				WELL STATUS (PRODUCING OR SI)	
7-15-10 (Green Completion)		Commingled with MV & Dakota per AZT-3182 ✓				Flowing	
DATE OF TEST	TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL - BBL.	GAS - MCF	WATER - BBL.	GAS-OIL RATIO
FLOW TBG PRESS	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL - BBL.	GAS - MCF	WATER - BBL.	OIL GRAVITY-API (CORR.)

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

TEST WITNESSED BY:

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 Permit Supervisor

DATE 8-24-10

NMOCD

ACCEPTED FOR RECORD

SEP 14 2010

FARMINGTON FIELD OFFICE
BY *J. Salazar*

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	3266'	
					CLIFFHOUSE	5443'	
					MENEPEE	5495'	
					POINT LOOKOUT	5669'	
					MANCOS	6160'	
					DAKOTA	7918'	

ROSA UNIT #162C
BLANCO MV/BASIN MANCOS/BASIN DK

Location: 935' FSL & 2200' FEL
 SW/4 SE/4 Section 30 (O), T31N, R05W
 Rio Arriba Co., NM

Elevation: 6432' GR
API #: 30-039-30719

Spud Date 5-8-09
 MV Completed 7-10-09
 MC Completed 8-17-10
 DK Completed 7-10-09

<u>Tops</u>	<u>Depth</u>
Kirtland	2664'
Pictured Cliffs	3266'
Cliff House	5443'
Menefee	5495'
Point Lookout	5669'
Mancos	6160'
Dakota	7918'

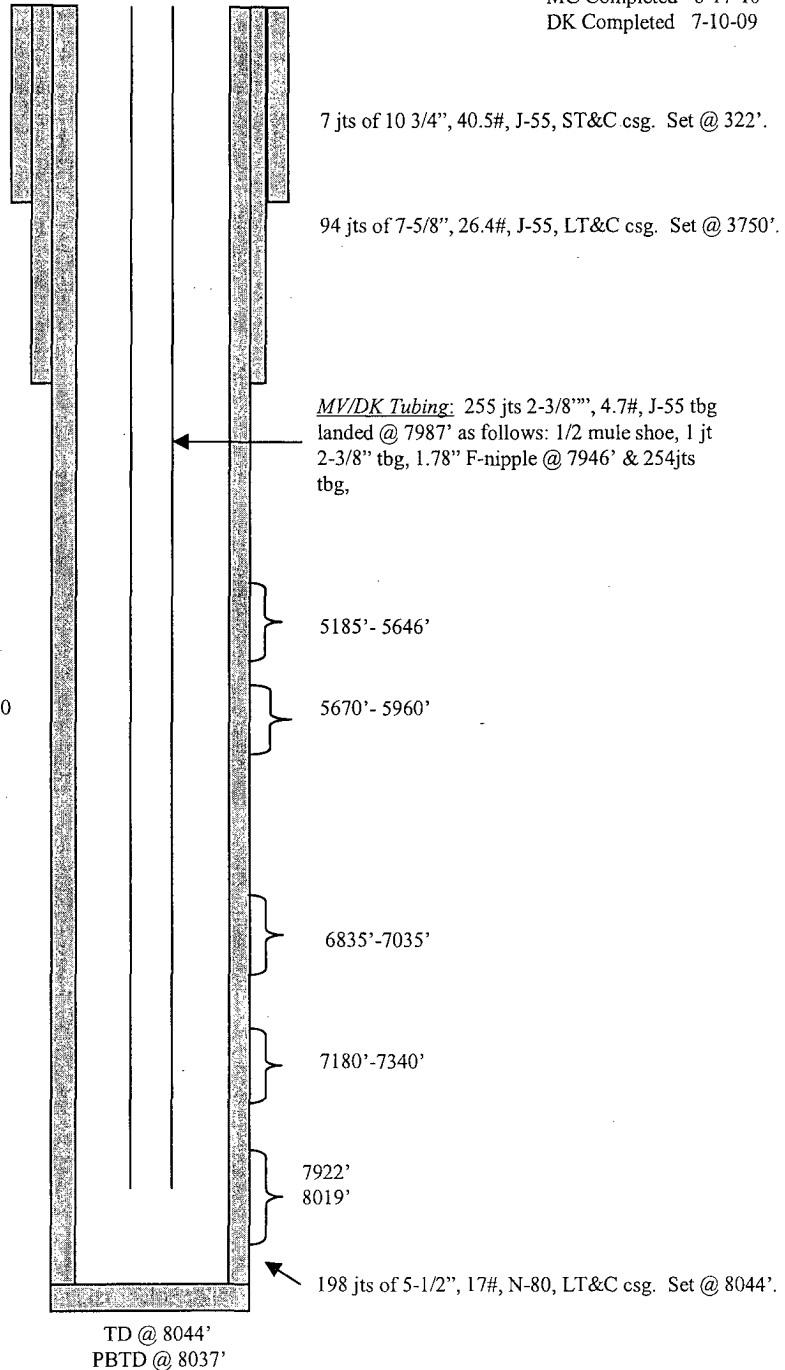
CH/MEN: 5185'-5646' (45, 0.34" holes) Frac with 6849#
 20/40 BASF followed with 57603# 20/40 BASF

PLO: 5670'-5960' (59, 0.34" holes) Frac with 6849# 20/40
 BASF followed with 101,898# 20/40 BASF

Upper Mancos: 6835'-7035' (48, 0.34" holes) Frac with
 15,243# 100 mesh Ottawa sand followed with 41,732#
 30/50 mesh Ottawa with gel followed with 91,209#
 20/40 mesh Ottawa sand with X-link

Lower Mancos: 7180'-7340' (45, 0.34" holes) Frac with
 15,600# 100 mesh Ottawa sand followed with 48,800#
 30/50 mesh Ottawa with gel followed with 94,000# 20/40
 mesh Ottawa sand with X-link

Dakota: 7922'-8019' (78, 0.34" holes) Frac w/ 5005#
 100 mesh BASF followed with 110,867# 40/70 mesh
 Ottawa sand



HOLE SIZE	CASING	CEMENT	CU. FT.	CMT TOP
14 3/4"	10 3/4", 40.5#	290 sxs	521 cu.ft.	surface
9 7/8"	7 5/8", 26.4#	630 sxs	1561 cu.ft.	surface
6 3/4"	5 1/2", 17#	335 sxs	468 cu.ft.	3756' - CBL