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811 South First, Artesia NM 88210

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State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-103
Revised 1-1-89

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" (FORM C-101) FOR SUCH PROPOSALS)		WELL API NO. 30-039-27240
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator WILLIAMS PRODUCTION COMPANY		6. State Oil & Gas Lease No.
3. Address of Operator P O BOX 3102, MS 25-4, TULSA, OK 74101		7. Lease Name or Unit Agreement Name: ROSA UNIT
4. Well Location (Surface) Unit letter <u>F</u> : 1675 feet from the <u>NORTH</u> line & 1700 feet from the <u>WEST</u> line Sec 21-31N-R6W RIO ARRIBA, NM		8. Well No. #32C
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 6331' GR		9. Pool name or Wildcat BLANCO MV/BASIN DK

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐

X OTHER: COMMINGLE

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

CASING TEST AND CEMENT JOB ☐

OTHER: _____

12. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). Data below to satisfy NM OCD Rule 303.C.3 (b) (i)-(vii)

Williams recommends commingling the Rosa Unit #32C. We recommend commingling this well for two reasons; packer repair, and production optimization. In doing so, Williams can install an artificial lift system and produce both zones effectively.

Commingling Procedure:

1. Mesa Verde tubing will be pulled
2. Dakota tubing will be pulled
3. Production packer will be removed
4. Well will be cleaned out to PBTD
5. A single string of 2-3/8" tubing will be run to ~7900'.
6. Run completion profiler for allocation purposes
7. Install plunger lift system.
8. Remove one set of wellhead facilities.
9. Return to production as DK/MV comingle.



I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Rachel Lipperd TITLE: Engineering Technician II DATE: March 23, 2010

Type or print name Rachel Lipperd Telephone No: (918) 573-3046

(This space for State use) APPROVED

BY [Signature] TITLE Deputy Oil & Gas Inspector,
Conditions of approval, if any: District #3

MAR 30 2010
DATE



EXPLORATION & PRODUCTION

COMMUNICATION REPAIR & COMINGLING PROCEDURE

ROSA #32C
T31N, R6W, SECT. 21
ELEVATION: 6331' GR
PBTD: 8341' MD

WELLBORE STATUS:

MV 2-1/16", 3.3 #/FT EUE, To 6269' MD

DK 2-1/16", 3.3 #/FT EUE, To 8247' MD

5-1/2" BAKER MODEL D PACKER @ 6390' MD

OBJECTIVE: Remove failed packer and commingle MV and DK

1. Pull Mesa Verde tubing
2. Pull Dakota tubing
3. Remove Production packer
4. Clean out to PBTD
5. Acid stimulate each formation if needed.
6. Run completion profiler for allocation purposes.
7. Complete with single string 2-3/8" tubing landed @ 8250'.
8. Install plunger lift system.
9. Remove one set of wellhead facilities
10. Return to production as DK/MV comingling

PRIOR TO PRIMARY JOB

- 1) Test rig anchors.
- 2) Verify location is OK for rig operations.
- 3) Ensure JSA, ECP's and lockout procedures are in place for the flowline and other energized piping or equipment.
- 4) Acquire 8400' of 2-3/8" N-80 or stronger work string.
- 5) Acquire ~8250' of 2-3/8", EUE, 8rd, 4.7 #/ft J-55 tubing.
- 6) Acquire wellhead and convert from dual tubing string to a single, 2-3/8" tubing string.
- 7) Acquire 2-3/8", I.D. Type X or XN type nipple.

- 8) **KCL** on location to treat kill water as needed.

SAFETY NOTICE

PERSONNEL SAFETY IS THE NUMBER ONE JOB.
NO EXCEPTIONS!!!
**PLEASE FOLLOW APPROPRIATE WILLIAMS CONTRACTOR
PROTOCOLS FOR THIS JOB PLAN**

Please see your Williams Business Representative if you have any questions; Contractor protocols can be located in the Williams E&P Contractor Guide

PRIMARY JOB

Note: Safety meetings shall be held each morning before work and subsequent "tailgate" safety meetings are to be held during the day when operation objectives shift in nature and intent (i.e. beginning/ending fishing operations, squeeze jobs, rigging down, perforating, etc.) Please ensure these are documented per section 2.2.7 of the Williams E&P Contractor Guide

1. MI and spot equipment to include fluid pumps and tanks.
2. MIRU.
3. ND/NU killing well with KCL water as necessary
4. Test the BOP's to 2500 psig minimum. If they fail, then rebuild and retest. If they cannot pass tests **DO NOT PROCEED** and notify Production Engineer.
5. Pick up on long string (DK) to determine if the long string will pull.
6. If long string will release, then POOH with short string (MV) and proceed to step # 7. If the long string will not release, proceed with sub-steps 6.1 through 6.3 below:
 - 6.1. POOH with short string one or two joints to confirm ability to move.
 - 6.2. Pick up additional joints of 2-1/16" pipe and wash to top of packer at 6390' using heavy air mist. Wash as necessary until returns clean up to approximately ¼ cup of sand in 5 gallons of water returns.
 - 6.3. After returns clean up, POOH with pipe laying down string.
7. Spear or screw in and POOH with 2-1/16" 3.3 #/ft long string (DK) string using straight pull to pull out of Baker Model D packer seal assembly up to 40,000 #'s.
8. POOH with lay down tubing 2-1/16" 3.3# J-55 and seal assembly.
9. NU additional pipe ram for work string or replace pipe ram with annular preventer.
10. Pick up work string.

11. Pick up Baker Model D packer millover & pulling tool, using DC's and assembly as necessary and RIH on work string to mill over Baker Model D packer @ 6390' MD and RIH on work string. If work string not inspected prior to work do not exceed 70% of joint strength of the work string pipe when pulling.
12. Millover and attempt to pluck Baker Model D packer at 6390' MD. If using 4.7 #/ft work string, weight of dry string above packer is 32.6k #s. If using 6.5 #/ft work string, dry string weight will be 41.5k #'s. When attempting to pull packer and tail pipe determine work string weight and do not pull more than 70% of joint strength.
13. POOH with packer and lay down work string, tools and packer.
14. RIH w/ work string.
15. Clean out to 8341' PBTD using a bit, scraper, and air unit package. Acid stimulate if needed.
16. TOOH w/ work string.
17. TIH with 2-3/8" production string to 5130' (+/- 150 above top MV perf @ 5380').
18. MIRU slickline
19. TIH w/ gauge ring/dummy assembly w/ to PBTD.
 - 19.1. Ensure slickline unit can run @ 30 to 150 fpm
20. Allow flow to stabilize overnight.
21. RIH w/ completion profiler and log the production intervals per ProTechnics procedures.
22. TIH w/ completion profiler and **record final wellhead pressure.**
23. TIH w/ blanking plug and set a blanking plug in the F-nipple to isolate tubing from well.
24. TOH w/ slick line and bleed tubing pressure down to zero.
25. RD slick line

Note: Only use pipe dope on the pins. Do not dope the couplings.

26. RIH w/ tubing and set @ 8250' w/ seat nipple & standing valve, testing tubing to 1000 psi every 900'. Report leaks and replace.

Note: This well should be dead and the BOP's shall be closed and locked at the end of daily operations.

27. Ensure tubing is not plugged prior to releasing the rig

28. N/D BOP's and N/U wellhead.

29. Return well to production.

30. R/D, move off location.

31. Return well to production.



Exploration & Production

Production Allocation Recommendation Rosa #32C (DK/MV)

WELLNAME: Rosa #32
LOCATION: NW/4 NW/4 Sec.21, T31N, R06W
API No.: 03-039-27240

FIELD: Rosa Blanco
COUNTY: Rio Arriba, NM
Date: March 5, 2010

Current Status: The Rosa #32C is currently a dual completion well producing from the Dakota and Mesa Verde formations. The packer assembly at 6390' has failed and repair is mandatory. Williams recommends comingling this well for two reasons; packer repair, and production optimization. In doing so, Williams can install an artificial lift system and produced both zones effectively.

Commingle Procedure:

1. Mesa Verde tubing will be pulled
2. Dakota tubing will be pulled
3. Production packer will be removed
4. Well will be cleaned out to PBTD
5. A single string of 2-3/8" tubing will be run to ~7900'.
6. Run completion profiler for allocation purposes
7. Install plunger lift system.
8. Remove one set of wellhead facilities.
9. Return to production as DK/MV comingle.

Allocation Method: Historic production data from both zones on this well was gathered and analyzed. Monthly production data from January 2005 through January 2008 was considered as this represented a time when both zones appear to be free from loading problems and each zone was producing optimally. During this time the Mesa Verde contributed approximately 71% of the total production of the well, while the Dakota accounted for the remaining 29% during the same time span. **Williams will run a completion profiler once well is comingled to re-evaluate allocation percentages.**

**ROSA UNIT #32C
BLANCO MV/BASIN DK**

Spud: 09/21/02

Completed: 11/25/02

Surface Location:

1675' FNL and 1700' FWL
SE/4 NW/4 Sec 21(F), T31N, R6W
Rio Arriba, NM

Bottom Hole Location:

615' FNL and 763' FWL
NW/4 NW/4 Sec 21(D), T31N, R6W
Rio Arriba, NM

Elevation: 6331' GR
API # 30-039-27240

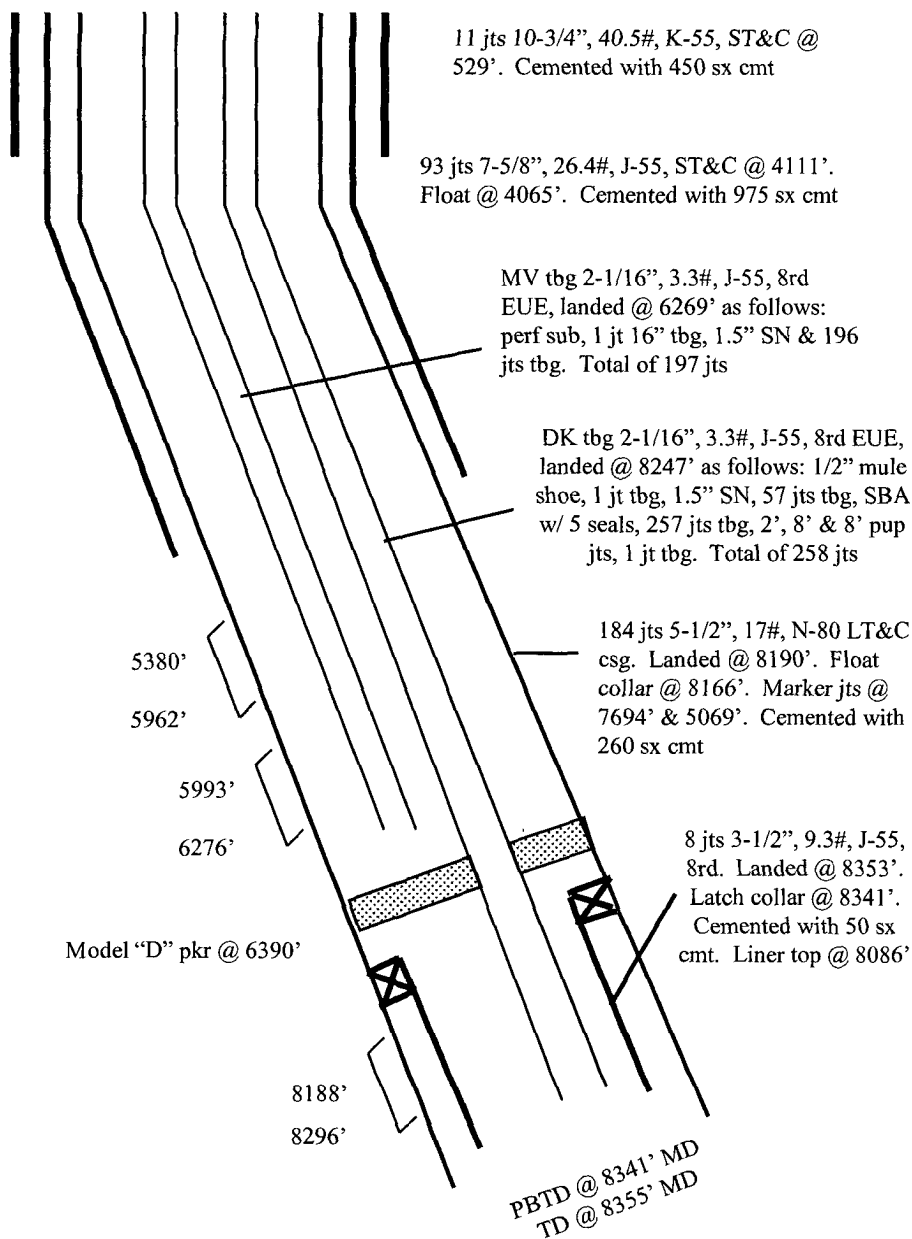
	MD
Top	Depth
Pictured Cliffs	3501'
Lewis	3809'
Cliffhouse Ss.	5681'
Menefee	5746'
Point Lookout	5990'
Mancos	6423'
Dakota	8204'

Stimulation:

Cliffhouse/Menefee: 5380' - 5962' (30, 0.33" holes) Frac with 81,200# 20/40 sand in 1878 bbls fresh water.

Point Lookout: 5993' - 6276' (26, 0.33" holes) Frac with 80,000# 20/40 sand in 1950 bbls fresh water.

Dakota: 8188' - 8296' (16, 0.33" holes) Frac with 4500# 100 Mesh sand, 90,000# 20/40 Ottawa sand & 6400# Flex sand MSE in 20Q Vistar foam.



Hole Size	Casing	Cement	Volume	Top of Cmt
14-3/4"	10-3/4", 40.5#	450 sx	635 cu. ft.	Surface
9-7/8"	7-5/8", 26.4#	975 sx	1792 cu. ft.	Surface
6-3/4"	5-1/2", 17#	260 sx	574 cu. ft.	3250'
4-3/4"	3-1/2", 9.3#	50 sx	101 cu. ft.	8086'