In Lieu of Form 3160 (June 1990)

Conditions of approval, if any

UNITED STATES DEPARTMENT OF INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED Budget Bureau No. 1004-0135 Expires March 31, 1993

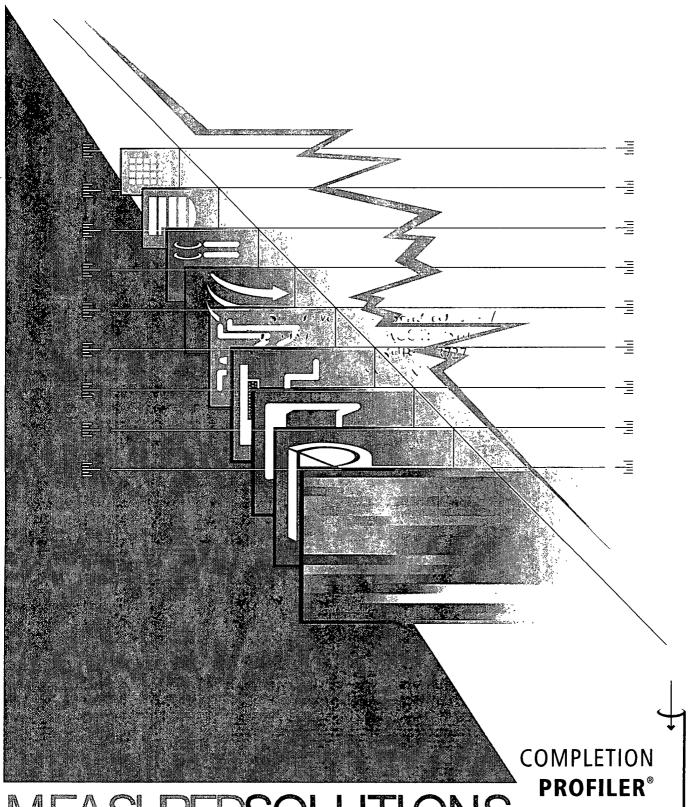
AUG 30 2011

| Do n | SUNDRY NOTICE AN ot use this form for proposals to drill or to deeper | | ELLO , | 302 тю <u>м</u> | | Lease Designation and Serial No NMSF-078767 | | |
|------|--|--|-------------------------|--------------------|--|--|--|--|
| | TO DRILL" for pe | rmit for such proposals | B urea u of La | on Fie and Ma | ld Office anageme | nif Indian, Allottee or Tribe Name | | |
| | SUBMIT II | N TRIPLICATE | | | 7. | If Unit or CA, Agreement Designation Rosa Unit | | |
| 1 | Type of Well Oil Well Gas Well X Other | is Well X Other | | | - 8. | Well Name and No. Rosa Unit 72B | | |
| 2 | Name of Operator WILLIAMS PRODUCTION COMPANY | | | | 9 | API Well No 30-039-30336 | | |
| 3. | Address and Telephone No PO Box 640 Aztec, NM 87410-0640 | | | | 10 | Field and Pool, or Exploratory Area BLANCO MV/BASIN MC/BASIN DK | | |
| 4 | Location of Well (Footage, Sec., T, R, M, At sur- 2260' FSL & 600' FEL SEC 6 T31 BH- 2126' FSL & 2306' FEL SEC 6, T31N | N,R5W | otion) 11 | | | County or Parish, State Rio Arriba, New Mexico | | |
| | CHECK APPROPR | IATE BOX(s) TO INDIC | CATE NATURE OF NOTIC | CE, REP | ORT, OR C | OTHER DATA | | |
| | TYPE OF SUBMISSION | | | TYPE | PE OF ACTION | | | |
| | Notice of Intent | Abandonment | | | Change of Plans | | | |
| | x Subsequent Report | Recompletion Subsequent Report Plugging Back | | | | New Construction Non-Routine Fracturing | | |
| | Casing Repair Final Abandonment Altering Casing | | | | Water Shut-Off Conversion to Injection | | | |
| | | | X Other Reallocation | | | Dispose Water (Note. Report results of multiple completion on Well Completion or Recompletion Report and Log form) | | |
| 13 | Describe Proposed or Completed Operations directionally drilled, give subsurface location | | | | | mated date of starting any proposed work If well inent to this work)* | | |
| | ams E&P has run Protechnic's Comple ams proposes the following allocation: | | r allocation purposes | on the | Rosa Uni | | | |
| | | | | | | 29303 7 Too | | |
| | Mesaverde | 69% | | 360 | Mcf/d | S WINE S | | |
| | Mancos | 19% | | 96 | Mcf/d | SEP 2011 | | |
| | Dakota | 12% | | 62 | Mcf/d | OIL CONS. DIV. DIST. 3 | | |
| | Total | 100% | , | 518 | Mcf/d | 2013 SEP 2013 OIL CONS. DIV. DIST. 3 | | |
| 14. | I hereby certify that the foregoing is true and | l correct | | | | | | |
| | Signed Larry Higgers Hugo | <u></u> | Title PERMIT SUPRV. | | 8/30/11 | | | |
| | (This space for Federal or State office use) Approved by Joe Hunt | | <i>r</i> | | | P => 11 | | |
| | Approved by | | Title <u>6e0</u> | | | Date F-31 -11 | | |

Title 18 U S C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction



Williams Production Company Rosa Unit #72B



MEASUREDSOLUTIONS





Company | Williams Production Company

Well Name Rosa Unit #72B

Field | Blanco Mesaverde/Basin Dakota

Location | Rio Arriba County, New Mexico

Customer Name | Michael Andrews

Date of Survey | July 9, 2011

Date of Analysis | August 5, 2011

Logging Engineer | Loren Healy

Analyst | Cole Hutchings

All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful misconduct on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.





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Survey Objectives

- Identify the source of water production.
- Identify gas producing intervals.
- Quantitative production profile.

Logging Procedures

| Date | Time | Comment | | | |
|-------|-------|-----------------------------------|--|--|--|
| 07/09 | 09:00 | Arrive on location | | | |
| 07/09 | 08:00 | Gauge run start | | | |
| 07/09 | 09:00 | Gauge run stop | | | |
| 07/09 | 09:33 | Program Completion Profile String | | | |
| 07/09 | 09:39 | Start GIH pass | | | |
| 07/09 | 10:02 | Stop GIH pass | | | |
| 07/09 | 10:07 | Start logging passes | | | |
| 07/09 | 13:32 | Stop logging passes | | | |
| 07/09 | 13:37 | Start out of well pass | | | |
| 07/09 | 13:59 | Stop out of well pass | | | |
| 07/09 | 14:07 | Start download | | | |
| 07/09 | 14:30 | Stop download | | | |
| 07/09 | 14:50 | Rig down | | | |

Interval Logged: [From 5,814 to 8,490 ft.]

60 ft/min 90 ft/min 120 ft/min





Well Information

Casing: 5.5" 17.0 lb/ft surface to 8,548 ft PBTD: 8,537 ft

Tubing: 2.375" 4.7 lb/ft surface to 5,582 ft

Perforations: 5,884; 5,886; 5,888; 5,890; 5,892; 5,904; 5,906; 5,908; 5,910; 5,912;

5,930; 5,932; 5,934; 5,936; 5,938; 5,940; 5,942; 5,944; 5,946; 5,948; 5,950; 5,952; 5,954; 5,970; 5,972; 5,974; 5,976; 5,978; 5,980; 5,990; 5,994; 5,998; 6,002; 6,006; 6,022; 6,026; 6,030; 6,034; 6,048; 6,050; 6,052; 6,054; 6,056; 6,058; 6,060; 6,062; 6,064; 6,068; 6,070; 6,072;

6,074; 6,076; 6,078; 6,080 ft (Stage 5 – Cliff House/Menefee)

6,124; 6,128; 6,132; 6,136; 6,140; 6,144; 6,148; 6,152; 6,156; 6,160;

6,164; 6,168; 6,172; 6,180; 6,184; 6,188; 6,192; 6,196; 6,200; 6,204;

6,208; 6,220; 6,224; 6,228; 6,232; 6,236; 6,240; 6,244; 6,264; 6,268;

6,272; 6,276; 6,280; 6,284; 6,288; 6,292; 6,296; 6,300; 6,304; 6,348;

6,350; 6,352; 6,392; 6,394; 6,432; 6,434; 6,436; 6,449; 6,451; 6,511;

6,513; 6,560; 6,562; 6,596; 6,598; 6,600 ft (Stage 4 – Point Lookout)

7,390; 7,400; 7,410; 7,420; 7,430; 7,440; 7,450; 7,460; 7,470; 7,480;

7,490; 7,497; 7,503; 7,510; 7,515; 7,522; 7,530; 7,540; 7,549; 7,560;

7,570; 7,576 ft

(Stage 3 – Upper Mancos)

7,616; 7,626; 7,636; 7,646; 7,651; 7,656; 7,666; 7,676; 7,680; 7,692;

7,700; 7,710; 7,715; 7,726; 7,734; 7,752; 7,756; 7,762; 7,773; 7,783;

7,793 ft

(Stage 2 – Lower Mancos)

8,405; 8,408; 8,410; 8,413; 8,418; 8,423; 8,433; 8,442; 8,445; 8,447;

8,450; 8,454; 8,457; 8,460; 8,463; 8,466; 8,469; 8,472; 8,475; 8,478;

8,481; 8,487; 8,484; 8,499; 8,502; 8,505; 8,508; 8,511; 8,514;

8,517 ft

(Stage 1 – Dakota)

Flowing tubing pressure at the time of logging: 73 psi

Daily average surface production reported at the time of logging:

gas: 519 Mscf/d water: N/A bpd





Tool String

The 1 11/16" Completion Profiler string comprised the following sensors:

Battery housing; RS-232/CCL; Memory/CPU; Gamma Ray; Pressure/Temperature Combo; Centralizer; Induction Collar Locator; Fluid Density; Centralizer; Spinner Flowmeter.

Well Log History

| Log Date | Type of Survey |
|----------|---------------------|
| 08/26/10 | Completion Profiler |





Results

The following table summarizes the production from each producing zone.

| P | | | | | 4 A | | | |
|----------------|----------------|------------|--------------------|------------|----------------|--|----------|------------|
| | | | | Flow Rates | Reported at ST | | | |
| Zone Intervals | | rvals | Q-Gas | Qp-Gas | Percent of | Q-Water | Qp-Water | Percent of |
| feet | | | MCFD | MCFD | Total | BFPD | BFPD | Total |
| Surface | to | 5884 | 519 Mcf/d | | 100 % | 6 bpd | | 100 % |
| | | Stage 5 | - Cliff House/Mene | rfee | 30 % | 10 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | <u> </u> | 31.% |
| 5884 | to | 6080 | 519 Mcf/d | 153 Mcf/d | | 6 bpd | 2 bpd | |
| je - | - ;- | Stag | e 4 Point Lookou | <u> </u> | 40 % | | | 43 % |
| 6124 | to | 6600 | 365 Mcf/d | 207 Mcf/d | | 4 bpd | 3 bpd | |
| | | Stag | e 3:-:Upper Máncos | 3 | .11 % | 1214 | | 11,% |
| 7390 | to | 7576 | 158 Mcf/d | 55 Mcf/d | | 2 bpd | 1 bpd | |
| | , - | Stage | 2 - Lower Mancos | 3 | 8 % | | | `8% |
| 7616 | to | 7793 | 103 Mcf/d | 41 Mcf/d | | 1 bpd | 1 bpd | |
| Stage,1 - Dal | | | tage 1 - Dakota | 2× 1 1 | 8 % | 1, 1,0 | | .5% |
| 8405 | to | 8487 | 62 Mcf/d | 40 Mcf/d | | 0 bpd | 0 bpd | |
| Flow C | onti | ribution f | rom Belòw Log De | pth | 4 % | | | 2 % |
| 8490 | to | Below | 22 Mcf/d | · | 4 % | 0 bpd | | 2 % |