| Form.3160 DEPARTME |  | ED STATES<br>ENT OF INTERIOR<br>AND MANAGEMENT   |   | FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993   |  |  |
|--------------------|--|--|---|---|--|--|
| Do not us          | SUNDRY NOTICE AND the this form for proposals to drill or to deepen or   | reentry to a different reservoir. Use "APPLICATIO  | 5.  | Lease Designation and Serial No.<br>NMSF-078772   |  |  |
|                    | TO DRILL" for perm   | it for such proposais  | 6.  | If Indian, Allottee or Tribe Name   |  |  |
|                    | SUBMIT IN T  |  | 7.  | If Unit or CA, Agreement Designation<br>Rosa Unit   |  |  |
| 1.                 | Type of Well Oil Well Gas Well X Other   | KECEIVED   | 8.  | Well Name and No.<br>Rosa Unit 091D   |  |  |
| 2.                 | Name of Operator WILLIAMS PRODUCTION COMPANY   | SEP 08 2010  | 9.  | API Well No.<br>30-039-30763  |  |  |
| 3.                 | Address and Telephone No.<br>PO Box 640 Aztec, NM 87410-0640 634-420   | Farmington Fleig Office<br>Bureau of Land Management<br>8  | 10.   | Field and Pool, or Exploratory Area<br>BLANCO MV/BASIN DK/BASIN MC  |  |  |
| 4.                 | Location of Well (Footage, Sec., T., R., M., or 1055' FSL & 250' FEL SEC 35 32N 6W 1954' FSL & 637' FEL  | Survey Description)  | tion) 11. County or Parish, State Rio Arriba, New Mexic |   |  |  |
|                    | CHECK APPROPRIAT   | TE BOX(s) TO INDICATE NATURE OF NOTICE,  | REPORT, OR O  | OTHER DATA  |  |  |
|                    | TYPE OF SUBMISSION   | TY   | PE OF ACTIO   | N   |  |  |
|                    | Notice of Intent   | Abandonment  |   | Change of Plans   |  |  |
| , X                | Subsequent Report  | Recompletion<br>Plugging Back  |   | New Construction Non-Routine Fracturing   |  |  |
| lf .               | Final Abandonment  | Casing Repair Altering Casing X Other <u>REALLOCATION</u>  |   | Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report |  |  |
|                    | directionally drilled, give subsurface locations   | and measured and true vertical depths for all markers  | s and zones perti                                       | imated date of starting any proposed work. If well is inent to this work.)*   |  |  |
|                    | s proposes the following allocation:   |  | the Rosa On   | it #91D. Based on the results obtained,   |  |  |
|                    | After 32   | 74.  |   | RCVD SEP 14'10  |  |  |
|                    | Mesaverde  | 71%  | 842 Mcf/d   | OIL CONS. DIV.  |  |  |
|                    | Mancos   |  |   | Diet o  |  |  |
|                    | Dakota   | 91 7   |   | VISI. 3   |  |  |
|                    | Total  |  |   |   |  |  |
|                    | ~ _  | 0 2 () 2   | N 2   |   |  |  |
| 14.                | I hereby certify that the foregoing is four and co   |  | RE  |   |  |  |
|                    | Signed Accept Winters  | Abandonment Recompletion Plugging Back Casing Repair Altering Casing Mere The Proteching of Plans Proteching allocation:  Proteching allocation profiler tool for allocation purposes on the Rosa Unit #91D. Based on the results obtained, following allocation:  Proteching allocation:  Proteching allocation profiler tool for allocation purposes on the Rosa Unit #91D. Based on the results obtained, following allocation:  Proteching allocation:  Proteching allocation profiler tool for allocation purposes on the Rosa Unit #91D. Based on the results obtained, following allocation:  Proteching allocation profiler tool for allocation purposes on the Rosa Unit #91D. Based on the results obtained, following allocation purposes on the Rosa Unit #91D. Based on the results obtained, following allocation purposes on the Rosa Unit #91D. Based on the results obtained, following allocation purposes on the Rosa Unit #91D. Based on the results obtained, following allocation purposes on the Rosa Unit #91D. Based on the results obtained allocation purposes on the Rosa Unit #91D. Based on the results obtained allocation purposes on the Rosa Unit #91D. Based on the |   |   |  |  |
|                    | (This space for Federal or State office use) Approved by June Handward State of Stat | Title <b>620</b>   |   | Date 9-B-10   |  |  |
|                    | Conditions of approval, if any:  |  |   |   |  |  |

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.



### Completion Profile Analysis



#### Well Information

Casing: 5.5" 17.0 lb/ft surface to 8,194 ft PBTD: 8,164 ft Tubing: 2.375" 4.7 lb/ft surface to 5,064 ft Perforations: 5,314; 5,316; 5,318; 5,333; 5,335; 5,341; 5,343; 5,357; 5,369; 5,371; 5,375; 5,377; 5,397; 5,399; 5,401; 5,418; 5,420; 5,441; 5,443; 5,498; 5,500; 5,528; 5,530; 5,541; 5,543; 5,573; 5,575; 5,580; 5,582; 5,584; 5,590; 5,592; 5,594; 5,596; 5,598; 5,600; 5,602; 5,604; 5,606; 5,608; 5.610; 5.612; 5.614; 5,616; 5,638; 5,640; 5,642; 5,644; 5,650; 5,652; 5,654; 5,676; 5,678; 5,681; 5,683 ft (Stage 5 – Cliff House/Menefee) 5,777; 5,779; 5,781; 5,783; 5,785; 5,787; 5,789; 5,791; 5,793; 5,795; 5,797; 5,799; 5,801; 5,807; 5,809; 5,811; 5,813; 5,815; 5,821; 5,823; 5,825; 5,827; 5,829; 5,835; 5,837; 5,839; 5,841; 5,843; 5,845; 5,847; 5,849; 5,857; 5,859; 5,861; 5,866; 5,868; 5,870; 5,872; 5,877; 5,879; 5,881; 5,885; 5,887; 5,889; 5,891; 5,893; 5,906; 5,908; 5,912; 5,914; 5,916; 5,920; 5,922; 5,924; 5,926; 5,928; 5,930; 5,932; 5,934; 5,936; 5,938; 5,945; 5,952; 5,987; 5,997; 6,006; 6,042; 6,044; 6,046; 6,048; 6,050 ft (Stage 4 – Point Lookout) 6,976; 6,986; 6,996; 7,006; 7,016; 7,026; 7,036; 7,046; 7,056; 7,066; 7.074; 7.084; 7,090; 7,096; 7,106; 7,113; 7,120; 7,130; 7,140; 7,150; 7,158; 7,166; 7,176; 7,186; 7,196; 7,206; 7,213 ft (Stage 3 – Upper Mancos) 7,279; 7,287; 7,297; 7,305; 7,312; 7,316; 7,320; 7,325; 7,330; 7,338; 7,346; 7,354; 7,360; 7,364; 7,368; 7,376; 7,382; 7,386; 7,391; 7,398; 7,404; 7,409; 7,419; 7,430; 7,436; 7,447 ft (Stage 2 – Lower Mancos) 8,062; 8,066; 8,070; 8,074; 8,078; 8,082; 8,110; 8,114; 8,116; 8,118; 8,122; 8,126; 8,130; 8,134; 8,136; 8,138; 8,142; 8,146; 8,154; 8,156; 8,158 ft

(Stage 1 – Dakota)



# Completion Profile Analysis



Flowing tubing pressure at the time of logging: 62 psi

Daily average surface production reported at the time of logging:

gas: 480 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; Pressure/Temperature Combo; Centralizer; Induction Collar Locator; Fluid Density; Centralizer; Spinner Flowmeter.



## Completion Profile Analysis



### Results

The following table summarizes the production from each producing zone.

|                        |       |                 |                  | A TOP STORY         | R PRODUCTIO       | The second secon |                     |         |
|------------------------|-------|-----------------|------------------|---------------------|-------------------|--|---------------------|---------|
|                        |       |                 |                  | Flow,R              | lates Reported at | STP  |                     |         |
| Zone Intervals<br>feet |       | Q-Water<br>BFPD | Qp-Water<br>BFPD | Percent of<br>Total | Q-Gas<br>MCFD     | Qp-Gas<br>MCFD   | Percent of<br>Total |         |
|                        |       |                 |                  |                     |                   |  |                     | Surface |
|                        |       | Stage           | 5 - Cliff House  | <br>/Menefee        | 38 %              |  |                     | 31 %    |
| 5314                   | to    | 5683            | 2 bpd            | 1 bpd               |                   | 482 Mcf/d  | 151 Mcf/d           |         |
|                        |       | Sta             | age 4 - Point Lo | <br>okout           | 35%               |  |                     | 40 %    |
| 5777                   | to    | 6050            | 2 bpd            | 1 bpd               |                   | 332 Mcf/d  | 191 Mcf/d           |         |
|                        |       | <br>  <br>  Sta | ige 3 - Upper M  | <br>ancos           | 10 %              |  |                     | 9 %     |
| 6976                   | to    | 7213            | 1 bpd            | 0 bpd               |                   | 141 Mcf/d  | 43 Mcf/d            |         |
|                        |       | l               | ige 2 - Lower M  | <br>ancos           | 6 %               |  | PSS 4               | 5 %     |
| 7279                   | to    | 7447            | 0 bpd            | 0 bpd               |                   | 97 Mcf/d   | 24 Mcf/d            |         |
| Flow (                 | Conti | ibution fr      | om Below Log     | <br>Depth           | 12 %              |  |                     | . 15 %  |
| 7537                   | to    | Below           | 0 bpd            |                     | 12 %              | 73 Mcf/d   |                     | 15 %    |