

SUBMIT IN TRIPLICATE\*  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires December 31, 1991

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>SF- 078764</b>	
1b. TYPE OF WELL <b>OIL</b> <input type="checkbox"/> <b>GAS</b> <input checked="" type="checkbox"/> <b>OTHER</b> <input type="checkbox"/> <b>SINGLE</b> <input type="checkbox"/> <b>MULTIPLE</b> <input checked="" type="checkbox"/> <b>WELL</b> <input type="checkbox"/> <b>WELL</b> <input checked="" type="checkbox"/> <b>ZONE</b> <input type="checkbox"/> <b>ZONE</b> <input checked="" type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR <b>Williams Production Company</b>		7. UNIT AGREEMENT NAME <b>Rosa Unit</b>	
3. ADDRESS OF OPERATOR <b>c/o Walsh Engineering 7415 E. Main St., Farmington, NM 87402 (505) 327-4892</b>		8. FARM OR LEASE NAME, WELL NO. <b>85 B</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) <b>At Surface 10' FNL and 10' FWL</b> <b>At proposed Prod. Zone</b>		9. API WELL NO. <b>30-039-26947</b>	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 20, T31N, R5W</b>		10. FIELD AND POOL OR WILDCAT <b>Blanco Mesa Verde/DK</b>	
12. COUNTY OR PARISH <b>Rio Arriba</b>		13. STATE <b>NM</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>26 miles NE of Blanco, NM</b>		17. NO. OF ACRES ASSIGNED TO THIS WELL <b>320</b>	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) <b>10'</b>		16. NO. OF ACRES IN LEASE <b>2502.30</b>	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR ON THIS LEASE, FT. <b>1700'</b>		19. PROPOSED DEPTH <b>8222'</b>	
21. ELEVATIONS (Show whether DF, RT, OR, etc.) <b>6415' GR</b>		20. ROTARY OR CABLE TOOLS <b>DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS" April 15, 2002</b>	

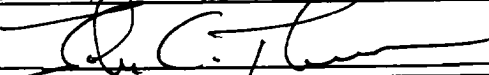
23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT/FOOT	SETTING DEPTH	QUANTITY OF CEMENT
14-3/4"	10-3/4"	32.75#	+/- 250'	~313 cu.ft. Type III w/ 2% CaCl <sub>2</sub>
9-7/8"	7-5/8"	26.4#	+/- 3797'	~1311 cu.ft. 65/35 poz & ~320 cu.ft. Type
6-3/4"	5-1/2"	17.0#	+/- 8222'	~566 cu.ft. Prem. Lite HS w/ additives

Williams Production Company proposes to drill a vertical well to develop the Mesa Verde and Dakota formations at the above described location in accordance with the attached drilling and surface use plans.

This location has been archaeologically surveyed by Independent Contract Archaeology. Copies of their report have been submitted directly to your office.

This APD also is serving as an application to obtain BLM road and pipeline right-of-ways. This well will require ~200' of new access road (see Pipeline & Well Plats #3 & #4). The well will be accessed by utilizing an existing road that runs in the through the SE/SE of section 18, SW/SW, NW/SW, SW/NW and NW/NW of section 17, T31N, R5W where it joins the main "Rosa Road".

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED 		TITLE <b>John C. Thompson, Agent</b>		DATE <b>3/6/02</b>	
(This space for Federal or State office use)					
PERMIT NO.		APPROVAL DATE <b>4/5/02</b>			
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.					
CONDITIONS OF APPROVAL, IF ANY:					
APPROVED BY <b>/s/ David J. Mankiewicz</b>		TITLE <b>AFM</b>		DATE <b>4/5/02</b>	

**\*See Instructions On Reverse Side**

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.

HOLD COPY FOR **Dakota NSL**

**NMOCD**

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District I  
PO Box 1980, Hobbs, NM 88241-1980

State of New Mexico  
Energy, Minerals & Natural Resources Department

Form C-102

Revised February 21, 1994

District II  
PO Drawer DD, Artesia, NM 88211-0719

Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number <b>30-039-26947</b>		*Pool Code 72319 - 71599	*Pool Name Blanco Mesaverde - Basin Dakota
*Property Code 17033	*Property Name ROSA UNIT		*Well Number 858
*OGRID No. 120782	*Operator Name WILLIAMS PRODUCTION COMPANY		*Elevation 6415'

<sup>10</sup> Surface Location

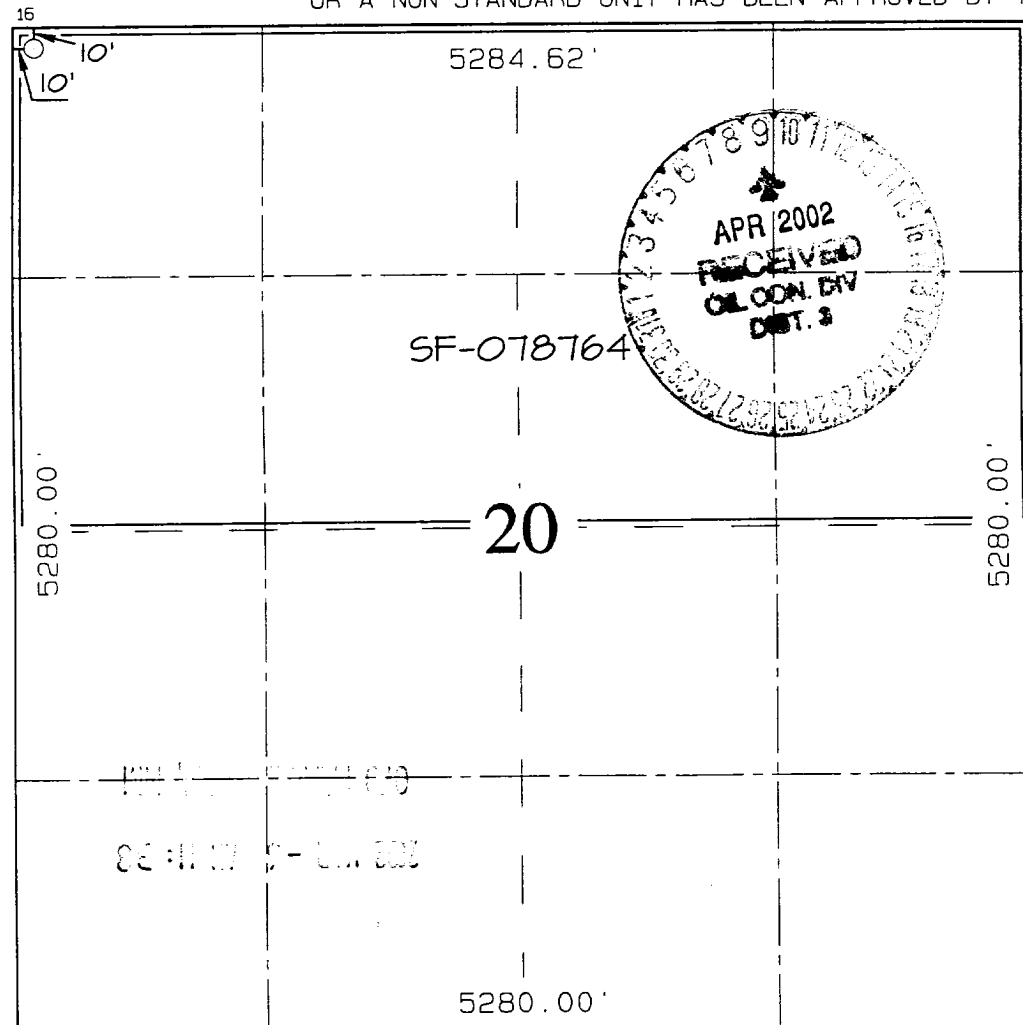
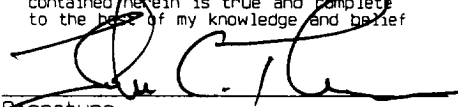
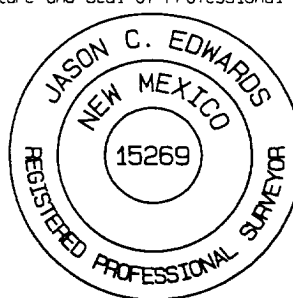
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	20	31N	5W		10	NORTH	10	WEST	RIO ARriba

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

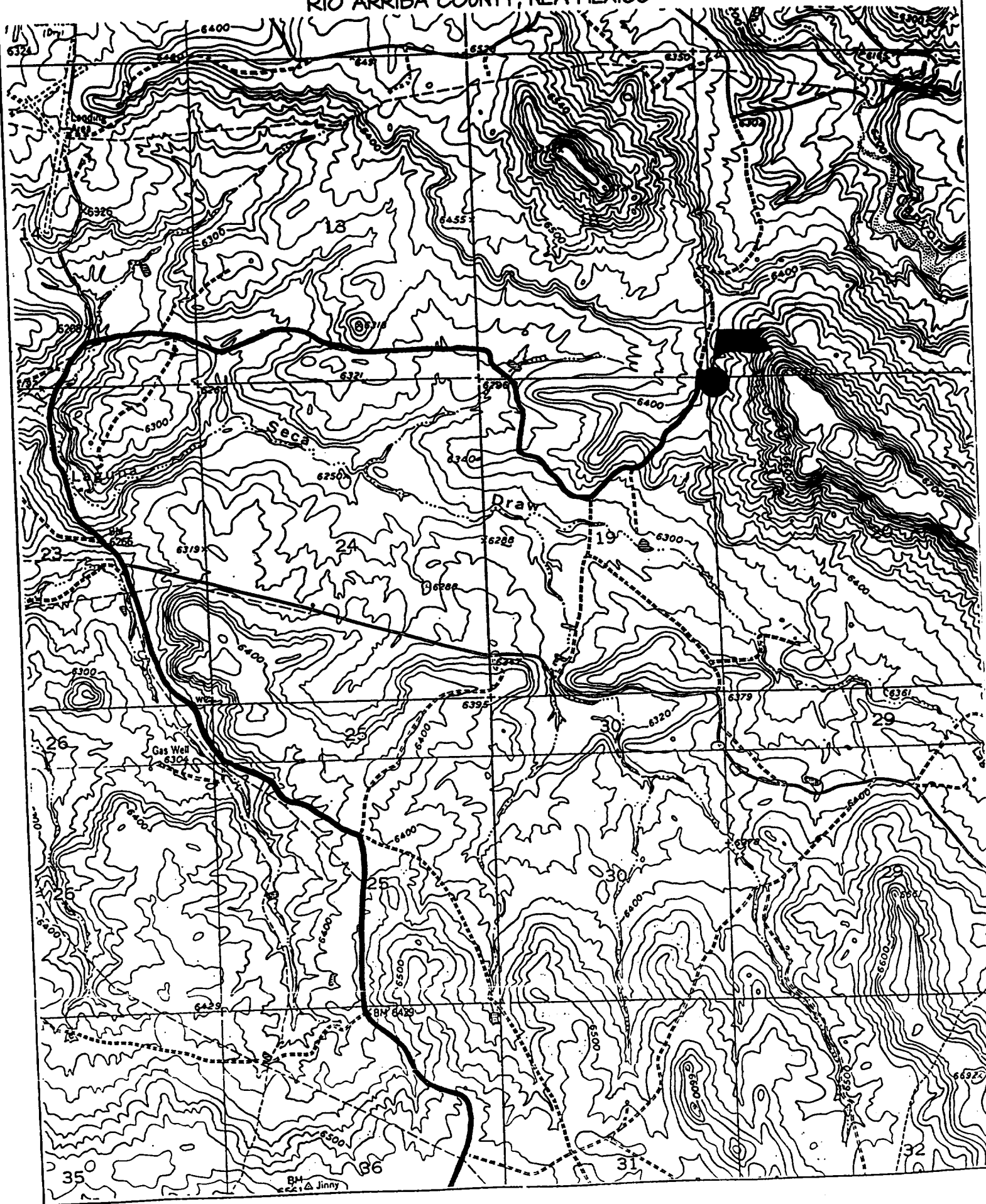
<sup>12</sup> Dedicated Acres 320.0 Acres - (N/2)	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<sup>16</sup> 		<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature John C. Thompson Printed Name Agent/Engineer Title 3/1/02 Date
<sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Revised: FEBRUARY 26, 2002 Survey Date: OCTOBER 23, 2000 Signature and Seal of Professional Surveyor  <b>JASON C. EDWARDS</b> Certificate Number 15269		

WILLIAMS PRODUCTION COMPANY ROSA UNIT #85B

10' FNL & 10' FNL, SECTION 20, T31N, R5W, N.M.P.M.  
RIO ARriba COUNTY, NEW MEXICO



**B. BOP TESTING:** While drill pipe is in use, the pipe rams will be function tested not less than once each day. The blind rams will be function tested once each trip. The anticipated reservoir is expected to be less than 1300 psi, so the rams will be tested to 1500 psi. The drum brakes will be inspected and tested each tour. All tests, inspections and SPR's will be recorded in the tour book as to time and results.

### III. MATERIALS

#### A. CASING PROGRAM:

<u>CASING TYPE</u>	<u>HOLE SIZE</u>	<u>DEPTH</u>	<u>CASING SIZE</u>	<u>WT. &amp; GRADE</u>
Surface	14-3/4"	+/- 250'	10-3/4"	32.75# H-40
Intermediate	9-7/8"	+/-3797'	7-5/8"	26.4# K-55
Prod. Casing	6-3/4"	+/- 8222'	5-1/2"	17.0# N-80

#### B. FLOAT EQUIPMENT:

1. SURFACE CASING: 10-3/4" notched regular pattern guide shoe. Run (1) Standard centralizer on each of the bottom (3) Joints.
2. INTERMEDIATE CASING: 7-5/8" cement nose guide shoe with a self- fill insert float. Place float one (1) joint above the shoe and five (5) centralizers, spaced every other joint, starting with the float collar. Place turbulent centralizers, at 120' intervals, starting at 1500' to the surface. Total centralizers (5 regular and 13 turbulent).
3. PRODUCTION CASING: 5-1/2" whirler type cement nose guide shoe with a latch collar on top of 20' bottom joint. Place 20' marker joint on top of 10 th joint and one above 5100'.

#### C. CEMENTING:

*(Note: Volumes may be adjusted onsite due to actual conditions)*

1. SURFACE: Use 230sx (313cu.ft.) of class "Type III" with 2% CaCl<sub>2</sub> and 1/4# of cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5 #/gal.). 125% excess to circulate the surface. WOC 12 hours. Test to 1500#.
2. INTERMEDIATE: Lead: 630sx (1311cu.ft.) of class "Premium Lite" 65/35, Type III/Poz with 8% gel and 1/4# cello-flake/sk (Yield = 2.09 cu.ft./sk, Weight = 12.1 #/gal.). Tail: 230sx (320cu.ft.) of class "Type III" with 1/4# cello-flake/sk (Yield = 1.39 cu.ft./sk, Weight = 14.5#/gal.). 100% excess in lead and tail to circulate to surface. Total volume = 1631 cu.ft. WOC 12 hours. Run a temperature survey after 8 hours if cement is not circulated.
3. PRODUCTION CASING: 30 sks Scavenger of Premium Light HS + 1% FL-52 + .2% CD-32 + .25 #/sk Celloflake + 4% Phenoseal + .3% R3. (Weight = 11 #/gal.). **Cement Slurry:** 285 sx (566 ft<sup>3</sup>) of Premium Light HS + 1% FL-52 + .2% CD-32 + .25 #/sk Celloflake + 4% Phenoseal + .1% R3. (Yield = 1.99 ft<sup>3</sup>/sk, Weight = 12.5 #/gal.). Displace cement at a minimum of 8 BPM. Use 50% excess in calculation to raise cement 100' into intermediate casing. Total volume 566ft<sup>3</sup>. WOC 12 hours.

