



TCNEY ANAYA  
GOVERNOR

STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
OIL CONSERVATION DIVISION  
ARTESIA DISTRICT OFFICE

May 4, 1984

P.O. DRAWER 00  
ARTESIA, NEW MEXICO 88210  
(505) 748-1283

Perry,

Attached are the letter and proposals filed by Mr. McPhaul with Burnett Oil Company.

Les talked to Bob Pitscre with the BLM in Carlsbad, and he is in agreement with us concerning the repairs on this well.

It is my recommendation to:

- (1) Verify TOC behind 4 1/2" casing with a CBL.
- (2) If cement below BX perforate and bring cement up to at least the BX.
- (3) Run tracer survey down 8 5/8" X 4 1/2" annulus to show that cement will go below the 8 5/8" casing shoe.
- (4) If cement will go below 8 5/8" casing shoe, pump cement, 8 5/8" X 4 1/2" annulus capacity + 50%.
- (5) If tracer survey shows fluid will not go below 8 5/8" shoe, perforate 4 1/2" casing @ 500 + and circulate cement.

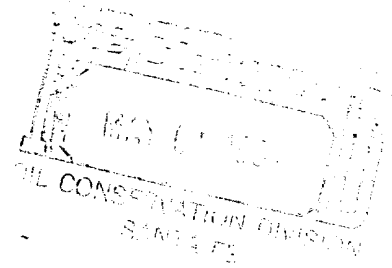
**BURNETT OIL CO., INC.**

1500 INTERFIRST TOWER

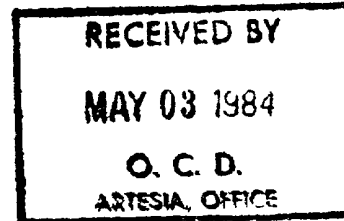
801 CHERRY STREET

**FORT WORTH, TEXAS 76102**

(817) 332-5108



May 1, 1984



New Mexico Oil Conservation Commission  
P. O. Drawer DD  
Artesia, New Mexico 88210

Attention: Mr. M. B. Williams

Re: Isolation of salt zones  
Jackson "B" #30  
Square Lake Field  
Eddy Co., New Mexico

Gentlemen:

Attached for your consideration is a Sundry Notice to isolate the open salt section from the surface in the above referenced well. We hope it meets with your approval.

The purpose of this letter is to object to the apparently arbitrary and cursory method whereby you order an active and important injection well shut in immediately, thereby disrupting a pressure bank which would result in the recovery of thousands of barrels of crude oil that will now be impossible to recover with conventional secondary recovery methods. You are aware, I am sure, that there is no mechanical failure downhole or on the surface that will result in either downhole or surface pollution from this well. The fact that the salt sections in this area are pressurized and charged is attributable to indiscriminate water flooding practices and haphazard regulation for the last 20 years. We have spent thousands of dollars to insure that our water injection is confined to the strata to which it was intended. We continue to cooperate in any reasonable way with regulatory agencies in combatting both surface and underground pollution, the same as we have been doing for almost 50 years; however, we must ask that your implementation of pollution abatement statutes be less arbitrary and more cognizant of our responsibility as operators.

Yours truly,

John C. McPhaul  
PRODUCTION SUPERINTENDENT

JCM: jlm

cc: Rayford Starkey

John Mason

Bureau of Land Management

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

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LAND OFFICE	
OPERATOR	

OIL CONSERVATION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87504  
**RECEIVED BON**  
**MAY 03 1984**  
**O. C. D.**  
**ARTESIA, OFFICE**

Form C-103  
Revised 10-1-78

5a. Indicate Type of Lease  
State ☐ FEDERAL ☐ ☐ ☐

5b. State Oil & Gas Lease No.  
NM-2747

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.)

1. OIL <input type="checkbox"/> GAS <input type="checkbox"/> OTHER- <u>Water Injection</u>	7. Unit Agreement Name
2. Name of Operator <u>Burnett Oil Co., Inc.</u>	8. Farm or Lease Name <u>Jackson B</u>
3. Address of Operator <u>1500 InterFirst Tower</u> <u>Fort Worth, Texas 76102</u>	9. Well No. <u>30</u>
4. Location of Well UNIT LETTER <u>N</u> , <u>660</u> FEET FROM THE <u>South</u> LINE AND <u>1980</u> FEET FROM THE <u>West</u> LINE, SECTION <u>1</u> TOWNSHIP <u>17</u> RANGE <u>30E</u> NMPM.	10. Field and Pool, or Wildcat <u>Square Lake</u>
15. Elevation (Show whether DF, RT, GR, etc.) <u>3717 DF</u>	12. County <u>Eddy</u>

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

PERFORM REMEDIAL WORK <input checked="" type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOBS <input type="checkbox"/>	

17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

This active injection well currently injects 115 barrels of fresh water per day at an average pressure of 1560 psig, through 2-3/8" EUE cement lined tubing set on a tension packer @ 2840', into Square Lake intervals through perforations in 4-1/2" OD 10.5# csg. @ 2871'-75', 2903'-18' 3033'-46', and into Lovington intervals through perforations in 4-1/2" OD 10.5# casing @ 3163'-3175'. There are no mechanical deficiencies downhole. There is some intermittent pressure and intermittent gurgling of salt water from the 8-5/8" csg. when the surface valve is left open. This has been present since approved completion of the well in February, 1975, and in no way affects mechanical downhole injection integrity. As per your order to isolate the salt section from the surface, we are prepared to perform this remedial work as follows: top of cmt. outside of 4-1/2" is estimated to be @ 1300'. We propose to establish pumping rate between 8-5/8" surface csg. (512') and 4-1/2" csg.; pump 85 sacks Halliburton Lite Cmt. followed by 61 sacks Class "C" cmt. down between 4-1/2" and 8-5/8" csg. for the purpose of isolating the open salt section from the surface.

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

SIGNED John C. McPhaul TITLE PRODUCTION SUPERINTENDENT DATE May 1, 1984  
John C. McPhaul

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☐ other ☒ *Water Injection Well*  
2. NAME OF OPERATOR  
*Burnett Oil Co., Inc.* ✓  
3. ADDRESS OF OPERATOR  
*1500 InterFirst Tower, Ft. Worth, Texas*  
*76102*  
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: *660' FSL, 1980' FWL*  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

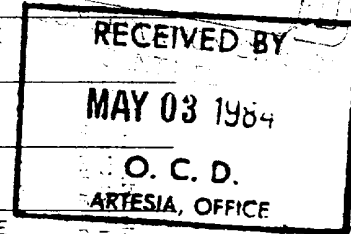
REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☒  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☐

SUBSEQUENT REPORT OF:

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☐

5. LEASE  
*NM 2747*  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
*Jackson B*  
9. WELL NO.  
*30*  
10. FIELD OR WILDCAT NAME  
*Square Lake*  
11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA  
*1-17-30E*  
12. COUNTY OR PARISH  
*Eddy Co., N.M.*  
13. STATE  
14. API NO.  
15. ELEVATIONS (SHOW DF, KDB, AND WD)  
*3717' DF*



(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

*We propose to eliminate intermittent gurgling from salt section between 4-1/2" & 8-5/8" surface casing by pumping cement down annulus. Please see Oil Conservation Division Form C-103 attached. The Oil Conservation Division has ordered us to isolate the salt section from the surface.*

Subsurface Safety Valve: Manu. and Type *NA* Set @ *NA* Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED *John C. McPhaul* TITLE *PRODUCTION SUPERINTENDENT* DATE *May 1, 1984*

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

$24^{\circ} - 28^{\circ} - 32^{\circ}$   
 12 1/4" hole 8 5/8" csq e 512' w/250 SX Calc TOC Circ  
 7 7/8" hole 4 1/2" csq e 3,220' 1st stage w/100 SX Calc TOC e 2,441'  
 DU e 2792 2nd Stage w 300 SX Calc TOC e 1,054'  
 3rd stage w 300 SX

TDC e 3,220'

Perfs 3163-75, 3033-46, 2903-18, 2871-75

BX 1250

T Queen 2325

T San Andres 3048

T Livingston Snd 3155

$$4\frac{1}{2} \times 7\frac{7}{8} = 4.3899 \text{ Cu ft per cu ft}$$

$$8\frac{5}{8} \times 12\frac{1}{4} = 2.5246 \text{ Cu ft per cu ft}$$

$$300 \times 1.32 = 396 \text{ Cu ft} = 1738 \text{ ft fill 2nd stage}$$

$$100 \times 1.32 = 132 \text{ Cu ft} = 579 \text{ ft fill 1st stage}$$

$$250 \times 1.32 = 330 \text{ Cu ft} = 833 \text{ Ft fill Sur csq}$$

1. Run CBL + find T.O.C. - Bring Cmt e least to BX
2. Run tracer survey <sup>- 8 5/8 x 4 1/2 annular</sup> to see that fluid goes to TX
3. Pump <sup>cmt-</sup> capacity of sur csq + 50%