



# CONTINENTAL OIL COMPANY

P. O. Box 460

HOBBS, NEW MEXICO 88240

PRODUCTION DEPARTMENT

HOBBS DIVISION

L. P. THOMPSON

*Division Manager*

G. C. JAMIESON

*Assistant Division Manager*

September 1, 1967

272 1001 NORTH TURNER  
TELEPHONE 393-4141

✓ New Mexico Oil Conservation Commission

P. O. Box 2088

Santa Fe, New Mexico

Attention of Mr. A. L. Porter, Jr., Secretary-Director

1967 SEP 5 11 0 10

Re: Application for Authority to  
Inject Water into SEMU Well No.  
49-E-20-20-38, Lea County, New  
Mexico

Gentlemen:

Forwarded herewith is our application for permission to inject water into our SEMU Well No. 49. Copies of this application are being furnished to the offset operators and the State Engineer by certified mail.

Your further handling and approval of this application will be sincerely appreciated.

Yours very truly,

GCJ-JS

cc RLA GW JWK  
State Engineer (Certified)  
Capitol Building  
Santa Fe, New Mexico

Amerada Petroleum Corporation (Certified)  
P. O. Box 668  
Hobbs, New Mexico

C O N T I N E N T A L O I L C O M P A N Y

P. O. Box 460  
Hobbs, New Mexico  
September 1, 1967

✓ New Mexico Oil Conservation Commission (3)  
P. O. Box 2088  
Santa Fe, New Mexico

Attention of Mr. A. L. Porter, Jr., Secretary-Director

Re: Application of Continental Oil  
Company for Authority to Inject  
Water into SEMU Well No. 49 in  
Section 20, Township 20 South,  
Range 38 East, Lea County, New  
Mexico

Gentlemen:

Order No. R-1710 authorized a pilot waterflood in the Skaggs Grayburg Pool within the Southeast Monument Unit. Order No. R-2940 authorized expansion of this waterflood project to full scale. Recently an injectivity test was conducted on SEMU No. 49, located 1980' FNL and 660' FWL, Section 20, T-20S, R-38E, Lea County, New Mexico. This well had been abandoned as nonproductive in the Skaggs Pool but the injectivity test indicated that the well is capable of receiving satisfactory quantities of water to make it useful for water injection in the Skaggs Grayburg Waterflood project.

Continental Oil Company hereby requests permission to inject water into said SEMU Well No. 49 and in support thereof the following exhibits are attached hereto.

1. A plat showing the location of SEMU No. 49 and all wells within a radius of two miles, the formation from which they produce, and the ownership thereof to the best of our knowledge and belief.
2. A log of the proposed injection well.

3. A diagrammatic sketch of the proposed injection well including casing setting depth, cement tops, producing intervals and proposed tubing and packer setting depths.
4. A C-116 showing substantial response in Well No. 39 located in Unit H-19-20-38, a direct offset well.

It is anticipated that 400 barrels of water per day will be injected into the well, said water being produced from the Cass Pennsylvania Pool.

In view of the facts set out above, it is respectfully requested that the Commission authorize the injection of water into SEMU Well No. 49 as described above.

Respectfully submitted,



G. C. JAMIESON  
Asst. Division Manager

ILLEGIBLE

CONTINENTAL OIL COMPANY

SENU Permian No. 49  
1980' FNL & 660' FWL  
Sec. 20, T-20S, R-38E

Type log for proposed Skaggs Pool  
Waterflood, Skaggs Grayburg Pool,  
Lea County, New Mexico

Run on March 5, 1952

LANE RADIOACTIVITY LOG WELLS  
COMPANY

Location of Well	COMPANY: CONTINENTAL OIL COMPANY WELL: S.E.N.O. BURGER B-20 NO. 1 FIELD: SKAGGS COUNTY: LEA STATE: N.M. LOCATION: 1980' FNL & 660' FWL SEC. 20 - 20S - 38E	FILE NO. COUNTY: LEA LOCATION: SKAGGS STATE: N.M.
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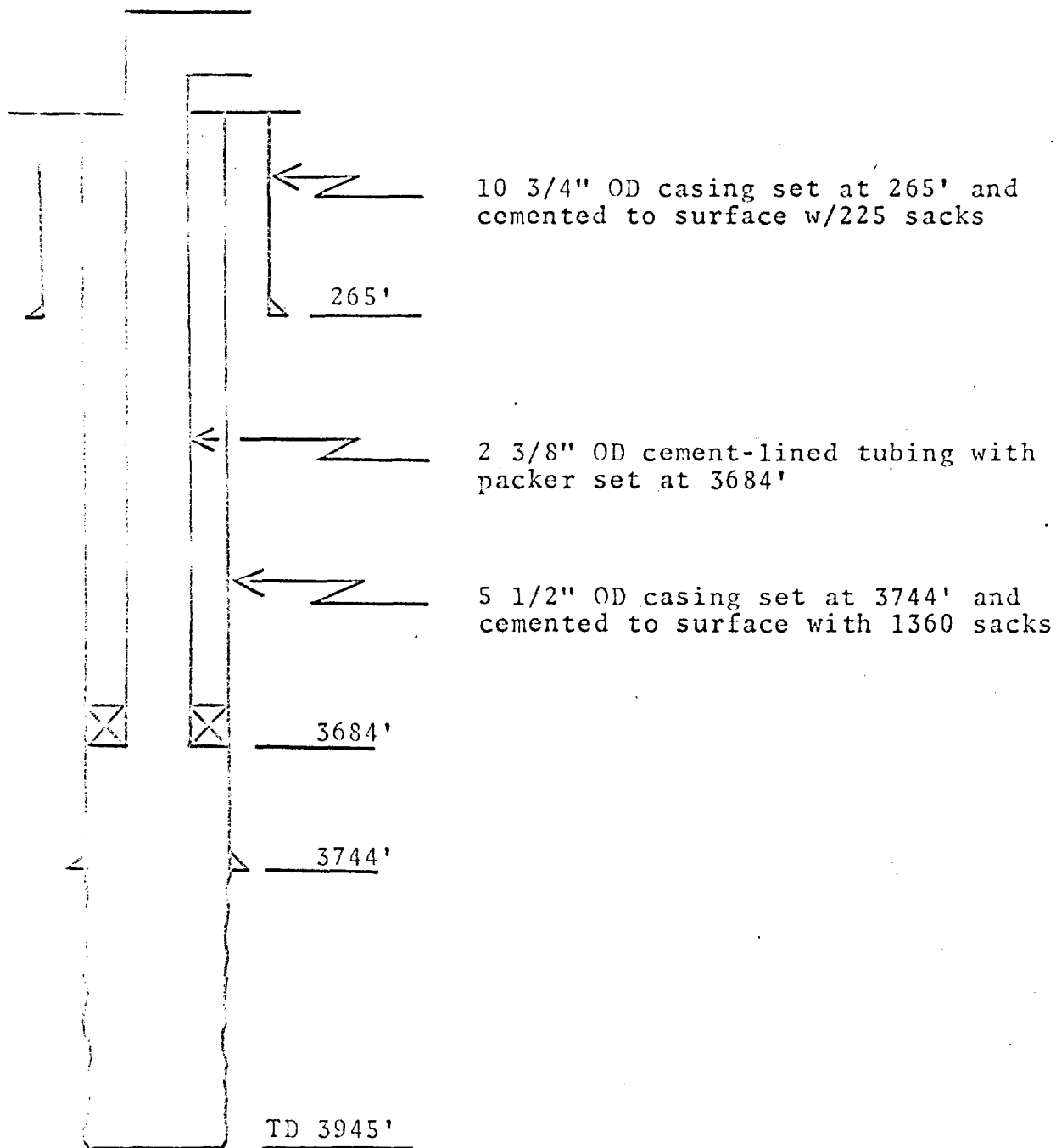
LOG MEAS. FROM KELLY DRIVE BUSHING ELEV. 3556'  
DRG. MEAS. FROM KELLY DRIVE BUSHING ELEV. 3556'  
PERM. DATUM 5 1/2" BRADEN HEAD ELEV. 3555.7'

TYPE OF LOG	GAMMA RAY	NEUTRON		
RUN NO.	1 N.W.	1 N.W.		
DATE	3-5-52	3-5-52		
TOTAL DEPTH (DRILLER)	STRAIN	391.5'		
EFFECTIVE DEPTH (DRILLER)	391.5'	391.5'		
TOP OF LOGGED INTERVAL	21.00'	21.00'		
BOTTOM OF LOGGED INTERVAL	391.2'	391.2'		
TYPE OF FLUID IN HOLE	MUD	MUD		
FLUID LEVEL	FULL	FULL		
MAXIMUM RECORDED TEMP.		600K		
NEUTRON SOURCE STRENGTH & TYPE		8.25"		
SOURCE SPACING - IN.		9"		
LENGTH OF MEASURING DEVICE - IN.	36"	3 5/8"		
OD. OF INSTRUMENT - IN.	3 5/8"	3 5/8"		
TIME CONSTANT - SECONDS	5	2.5		
LOGGING SPEED FT./MIN.	30	30		
STATISTICAL VARIATION - IN.				
SENSITIVITY REFERENCE	274	275		
RECORDED BY	KELLY	KELLY		
WITNESSED BY	BARBER	BARBER		

CASING RECORD				INTERVAL	
RUN NO.	BIT SIZE	CASING WT.-LB.	FROM WELL RECORD	FROM R/A LOG	
2	13 1/4"	10 3/4"	SURF. TO 265'	SURF. TO 265'	
1	7 7/8"	5 1/2"	SURF. TO 3744'	SURF. TO 3744'	
1	4 3/4"		3744' TO 3915'	3744' TO 3915'	
			TO	TO	

REMARKS OR OTHER DATA  
PROPERTY OF  
CONTINENTAL OIL CO.  
ENGR. DEPT., HOBBS, N.M.

WATER INJECTION WELL DATA  
CONTINENTAL - SETU PERMIAN NO. 49  
Elev. 3556' DF



Proposed Procedure

1. Tag bottom tally out. Clean out to TD 3945'.
2. Run tubing with packer to be set at 3684'.
3. Connect up well for injection down tubing.

NEW MEXICO OIL CONSERVATION COMMISSION  
GAS-OIL RATIO TESTS

C-116  
Revised 1-1-65

Operator		Pool		County												
Continental Oil Company		Skaggs		Lea												
Address		P. O. Box 460, Hobbs, New Mexico 88240		TYPE OF TEST - (X)												
				Scheduled <input type="checkbox"/> Special <input checked="" type="checkbox"/>												
LEASE NAME	WELL NO.	LOCATION		DATE OF TEST	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	Completion <input type="checkbox"/>			GAS RATIO CU. FT.				
									Prod. During Test							
		U	S	T	R				WATER BBL'S.	GRAV. OIL	OIL BBL'S.	GAS M.C.F.				
SEMU Permian	39 39	H H	19 19	20 20	38 38	5-18-67 7-30-67	F F	Open Open	None None	18 18	24 24	57 72	36.4 36.4	17 27	None None	

No well will be assigned an allowable greater than the amount of oil produced on the official test.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15,025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission in accordance with Rule 301 of appropriate pool rules.

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

*[Signature]*  
(Signature)  
SUPERVISOR  
9-1-67  
(Date)

Form 3160-5  
(June 1990)

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

104 APR 18 AM 8 50

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well

☐ Oil Well ☐ Gas Well ☒ Other OO&GO #7 III.A

2. Name of Operator

Conoco Inc.

3. Address and Telephone No.

10 Desta Dr., Ste 100W, Midland, Tx 79705 (915) 6865438

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SWSE 19, T-20S, R-38E

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

5. Lease Designation and Serial No.

LC 031670A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

SEMU Burger

9. API Well No.

10. Field and Pool, or Exploratory Area  
Skaggs, Drinkard,  
Blinebry

11. County or Parish, State

Lea

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☒ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other Reply to OO&GO #7  
III.A
- ☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. 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.)\*

Water Producing Formation:

DHC: Skaggs, Drinkard, Blinebry

Amount of Water Produced:

19 BWPD

Current Water Analysis Attached:

Yes

How is Water Stored on Lease:

1000 Bbls Water Tank

How is Water Moved:

From separator into Central Skaggs WF Water Tank and used for WF

Disposal Facility Operator:

Conoco Inc.

Disposal Facility Well Name/#:

Skaggs Central WF/ SEMU Permian Battery

UL-K, S-19, T-20S, R-38E

NMOCD SWD Permit:

Waterflood Order #: WFX #272 and R-2940

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

Signed

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title Terri Stathem O & G Assistant

Date 3/25/94

Title

PETROLEUM ENGINEER

Date

3/30/94

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 statement or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

LARGE FORMAT  
EXHIBIT HAS  
BEEN REMOVED  
AND IS LOCATED  
IN THE NEXT FILE