

*5/31/72
Callie's Pet Shop
V. L. P. 1000
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April 13, 1972

New Mexico Oil Conservation Commission
P. O. Box 2035
Santa Fe, New Mexico 87501

Re: Request for Examiner Hearing
Application for Multiple Completion
C. H. Lockhart (HCT-1) No. 3
Blincry-Paddock and Tubb Pools
Lea County, New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

It is requested that an examiner hearing be scheduled to consider TEXACO's application to dually complete the C. H. Lockhart (HCT-1) No. 3. Attached for your information is a Form C-107 with pertinent well data, a plat of area, and a schematic diagram of equipment in the subject well.

All offset operators are being notified of the requested hearing by copy of this letter. Your cooperation in this matter will be appreciated.

Yours very truly,

(Sgd.) J. V. GANNON

J. V. Cannon
District Superintendent

CPC-JBS/cr

cc: NAS, Mr.
HAGCC-Mobbs
All Offset Operators

1000

THEORY

The theory of the present experiment is based on the fact that the rate of reaction between a substance and a reagent is proportional to the concentration of the substance.

The rate of reaction is measured by the time taken for a certain amount of the substance to react with the reagent. This time is called the "reaction time".

The reaction time is measured by a stop watch. The reaction time is recorded for each concentration of the substance.

The reaction time is then plotted against the concentration of the substance. The resulting graph is a straight line passing through the origin. The slope of this line is a measure of the rate of reaction.

The rate of reaction is then calculated from the slope of the line. The rate of reaction is found to be proportional to the concentration of the substance.

Experiment No. 1

EXPERIMENTAL PROCEDURE

The experiment was carried out in a laboratory setting. The following steps were followed:

1. Preparation of standard solutions of the substance.

2. Measurement of the reaction time for each concentration.

3. Plotting of the reaction time against concentration.

4. Calculation of the rate of reaction from the slope of the line.

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
APPLICATION FOR MULTIPLE COMPLETION

Form C-107
5-1-61

Operator TEXACO Inc.		County Lea		Date April 18, 1972
Address F. O. Box 722, Hobbs, N.M. 88240		Lease C.H. Lockhart (NCT-1)		Well No. 3
Location of Well	Unit 0	Section 10	Township 22-S	Range 30-E

1. Has the New Mexico Oil Conservation Commission heretofore authorized the multiple completion of a well in these same pools or in the same zones within one mile of the subject well? YES _____ NO X
2. If answer is yes, identify one such instance: Order No. _____; Operator Lease, and Well No.: _____

3. The following facts are submitted:	* Upper Zone	* Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Paddock	Blinberry	Hubb
b. Top and Bottom of Pay Section (Perforations)	5144' to 5177'	5589' to 5677'	6098' to 6261'
c. Type of production (Oil or Gas)	Oil	Oil	Gas
d. Method of Production (Flowing or Artificial Lift)	Pump	Pump	Flow

4. The following are attached. (Please check YES or NO) ***Upper and Intermediate zones are currently downhole consingled.**

Yes	No	
☒	☐	a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
☒	☐	b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
☒	☐	c. Waivers consenting to such multiple completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.*
☐	☐	d. Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

5. List all offset operators to the lease on which this well is located together with their correct mailing address.

Texas Pacific Oil Co., P. O. Box 4067, Midland, Texas 79701
Wabco Petroleum Corp., 201 1st Savings Building, Midland, Texas 79701
Gulf Oil Corp., P. O. Box 670, Hobbs, New Mexico 88240

Mark Production Co., 1198 Simons Bldg., Dallas, Texas 75201

American Petrofina Co. of Texas, P. O. Box 1311, Mid Spring, Texas 79720

Schlo Petroleum Co., P. O. Box 3167, Midland, Texas 79701

Amble Oil & Refining Co., P. O. Box 1600, Midland, Texas 79701

6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES X NO _____. If answer is yes, give date of such notification **April 18, 1972**.

CERTIFICATE: I, the undersigned, state that I am the **District Superintendent** of **NE** **TEXACO Inc.** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

****Log submitted when well was initially dualled.**

Signature

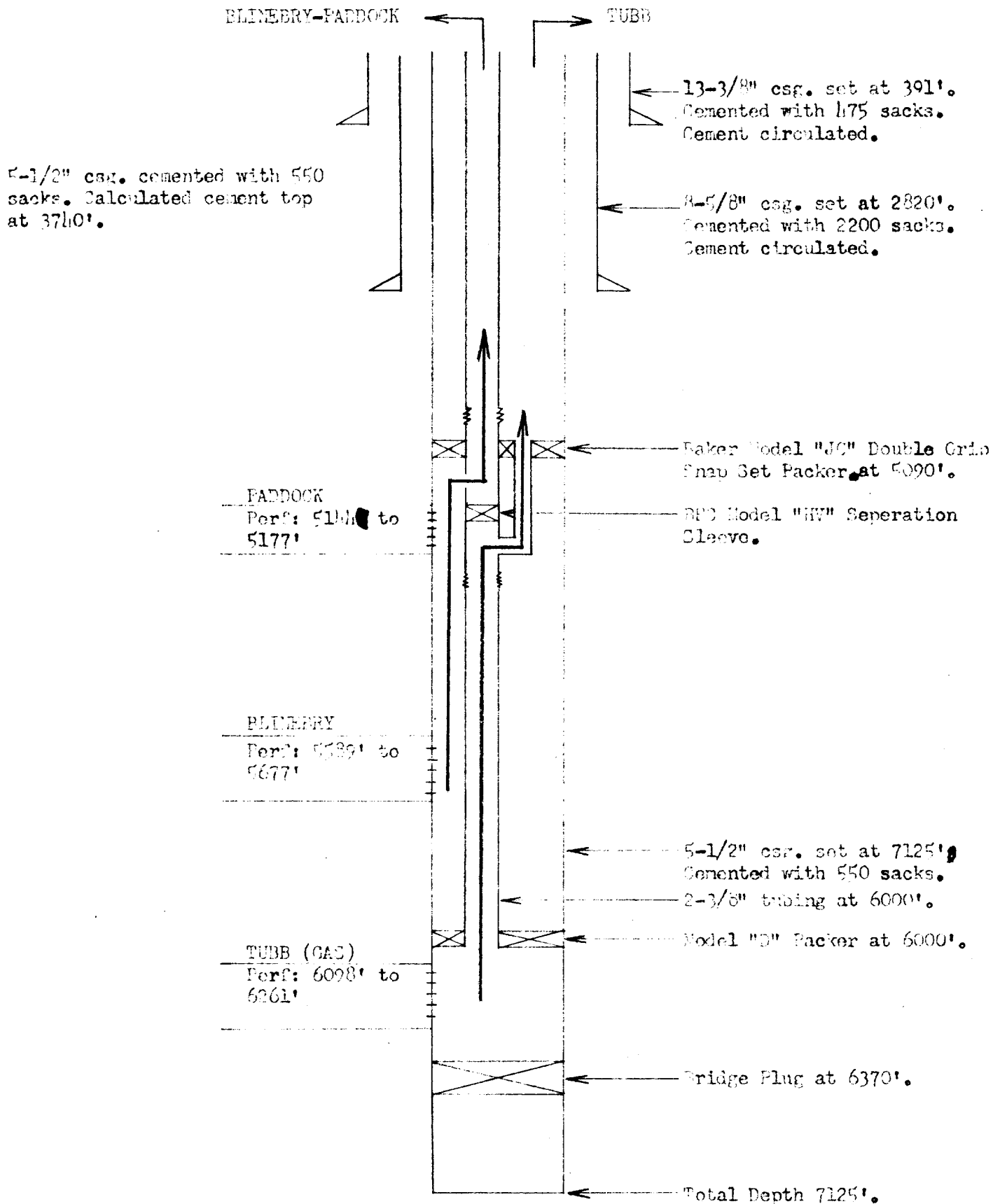
*Should waivers from all offset operators not accompany an application for administrative approval, the New Mexico Oil Conservation Commission will hold the application for a period of twenty (20) days from date of receipt by the Commission's Santa Fe office. If, after said twenty-day period, no protest nor request for hearing is received by the Santa Fe office, the application will then be processed.

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

U.S. DEPARTMENT OF AGRICULTURE
WASHINGTON, D. C.

1938

RECEIVED



TEXACO INC.
 PROPOSED MULTIPLE COMPLETION
 C.E. LOCKHART (DOT-1) WELL NO. 3
 BLINBERRY-PADDOCK & TUBB POOLS
 LEA COUNTY, NEW MEXICO



GW - GRANITE WASH (UNDESIGNATED)
LM7RQ - LANGLEY MATTIX 7 RIVERS QUEEN
Pd - PADDOCK
Ps - PENROSE SKELLY GRAYBURG
SA - SANTA ROSA (UNDESIGNATED)
T - TUBB

TEXACO INC.
MIDLAND DIVISION
BLINEBRY FIELD AREA
S. E. LEA COUNTY, NEW MEXICO

SCALE: 0' 1000' 2000'

N MEXICO OIL CONSERVATION COMMISSION
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator <u>Texaco Inc.</u>			Lease <u>C.H. Lockhart Fed. NCT-1</u>			Well No. <u>3</u>	
Location of Well		Unit <u>0</u>	Sec <u>18</u>	Twp <u>22</u>	Rge <u>38</u>	County <u>Lea</u>	
Name of Reservoir or Pool			Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)	Choke Size	
Upper Compl <u>Paddock - Blinberry</u>			<u>Oil</u>	<u>* Shut. in</u>	<u>Csg.</u>	<u>-</u>	
Lower Compl <u>Tubb</u>			<u>Oil</u>	<u>Flow</u>	<u>Tbg.</u>	<u>2 3/4</u>	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 10:30 AM 6-26-72

Well opened at (hour, date): 10:30 AM 6-27-72 Upper Completion Lower Completion

Indicate by (X) the zone producing..... X

Pressure at beginning of test..... psi. 180 700

Stabilized? (Yes or No)..... No No

Maximum pressure during test..... psi. 210 700

Minimum pressure during test..... psi. 180 30

Pressure at conclusion of test..... psi. 210 180

Pressure change during test (Maximum minus Minimum) psi. 30 670

Was pressure change an increase or a decrease?..... increase decrease

Well closed at (hour, date): 9:00 AM 6-28-72 Total Time On Production 22 hrs. 30 min.

Oil Production Gas Production

During Test: 32 bbls; Grav. 38.8 ; During Test 223 MCF; GOR 6969

Remarks * Paddock - Blinberry (DHC) is temporarily abandoned

FLOW TEST NO. 2

Well opened at (hour, date): _____ Upper Completion Lower Completion

Indicate by (X) the zone producing..... _____

Pressure at beginning of test..... _____

Stabilized? (Yes or No)..... _____

Maximum pressure during test..... _____

Minimum pressure during test..... _____

Pressure at conclusion of test..... _____

Pressure change during test (Maximum minus Minimum)..... _____

Was pressure change an increase or a decrease?..... _____

Well closed at (hour, date) _____ Total time on Production _____

Oil Production Gas Production

During Test: _____ bbls; Grav. _____ ; During Test _____ MCF; GOR _____

Remarks Test after recompletion - Annual Zone Segregation Test

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

JUL 7 1972

Approved _____ 19 _____
New Mexico Oil Conservation Commission

By John W. Runyan
Title Geologist

Operator TEXACO Inc.
By [Signature]
Title Asst. Dist. Supt.
Date June 29, 1972

5. Following completion of Flow Test No. 1, the well shall again be shut in in accordance with paragraph 3 above.

1. A packer leakage test shall be commenced on a multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Commission.

2. At least 72 hours prior to the commencement of any packer leakage test the operator shall notify the Commission in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.

3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized and for a minimum of two hours thereafter, provided however, that they need not remain shut-in more than 24 hours.

4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued until the flowing wellhead pressure has become stabilized and for a minimum of two hours thereafter, provided however, that the flow test need not continue for more than 24 hours.

6. Flow Test No. 2 shall be conducted even though a leak was detected during Flow Test No. 1. Procedure for Flow Test No. 2 is the same as for Flow Test No. 1 except that the previously shut-in zone shall remain shut-in while the previously shut-in zone is produced.

7. All pressures throughout the entire test shall be continuously measured and recorded with recording pressure gauges; the accuracy of which must be checked with a deadweight tester at least twice, at the beginning and once at the end, of each flow test.

8. The results of the above-described tests shall be filed in the appropriate window 15 days after completion of the test. Tests shall be filed with the appropriate District Office of the New Mexico Oil Conservation Commission on Southeast New Mexico Packer Leakage Test Form Revision 1-1-68, together with the original pressure recording gauge charts and the deadweight pressures which were taken indicated thereon. In completing the aforesaid charts, the operator may construct a pressure-time curve for each zone, indicating the indicated pressure and the gauge readings which may be reflected by the gauge charts as well as the deadweight pressure readings which were taken. If the pressure chart is submitted, the original chart must be permanently filed in the office of the District Office. The original chart shall also accompany the Packer Leakage Test Form when the test period coincides with a gas-oil ratio test period.

[illegible]