SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS

SCHLUMBERGER

Induction-Electrical Log

COUNTY SAN JUAN, NEW MEX.
FIELD or LOCATION WEST GALLEGOS DAK.
WELL JONES # 1
COMPANY BENSON-MONTIN & GREER

COMPANY BENSON-MONTIN & GREER

WELL JONES # 1

FIELD WEST GALLEGOS DAKOTA

LOCATION SEC. 17-28N-13W

COUNTY SAN JUAN

STATE NEW MEXICO

Other Surveys

NONE

Location of Well

790' FR S/L
790' FR E/L
SEC. 17-28N-13W

Elevation: D.F.: 6024
K.B.: 6026
or G.L.: 6012

FILING No. _____

RUN No.	ONE				
Date	6-20-59				
First Reading	6344				
Last Reading	212				
Feet Measured	6132				
Csg. Schlum.	212				
Csg. Driller	212				
Depth Reached	6350				
Bottom Driller	6358				
Depth Datum	KB				
Mud Nat.	GEL CHEM OIL				
Dens. | Visc.	9.1 | 67				
Mud Resist.	2.9 @ 79°F	@ °F	@ °F	@ °F	@ °F
" Res. BHT	1.6 @ 147°F	@ °F	@ °F	@ °F	@ °F
Rmf	1.35 @ 147°F	@ °F	@ °F	@ °F	@ °F
Rmc	1.4 @ 147°F	@ °F	@ °F	@ °F	@ °F
" pH	8.0 @ °F	@ °F	@ °F	@ °F	@ °F
" Wtr. Loss	4.4 CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.	CC 30 min.
Bit Size	7 7/8"				
Spcgs.—AM	16"				
MN	-				
IND.	40"				
Opr. Rig Time	2 1/2 HRS.				
Truck No.	2515 FARM.				
Recorded By	PARSLOW				
Witness	MR. LILLY & MR. GREER				

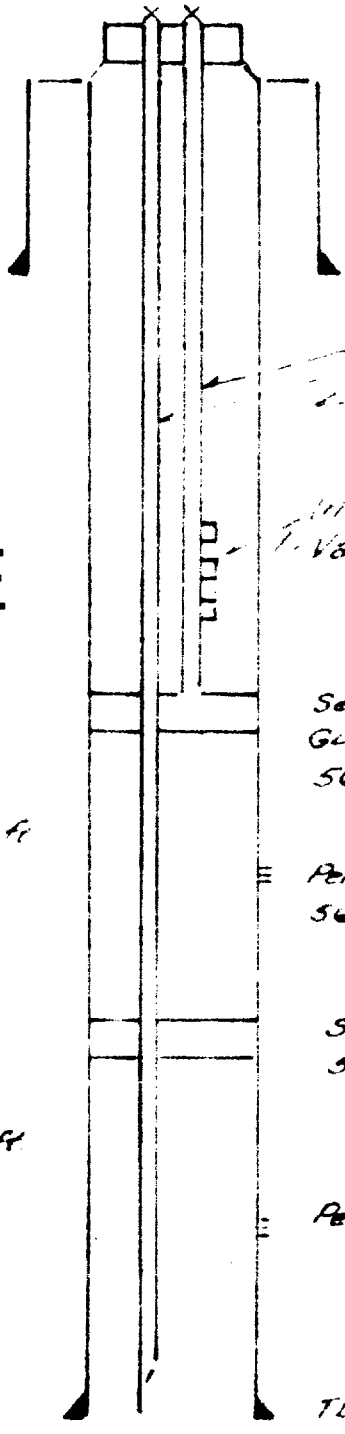
BENSON-MONTIN-GREER DRLG. CORP.

Jones #1

790/S - 790E Sec 17-28N-13W

San Juan County - New Mexico

Case 2038



Dual Surface Equipment

Set 200' - 8 5/8 - 24# J 55 csg cemented w/ 150 sx.

Two (2) strings - 1 1/2 OD - 1.90 # Non upset Tubing.

Install - three (3) Merla Gas Lift Valves - (future artificial lift)

ILLEGIBLE

Set 5 1/2" x 1 1/2" x 1 1/2" Type RDC Guiberson Dual Packer @ 5625'

Top Gallup Pay 5652 ft

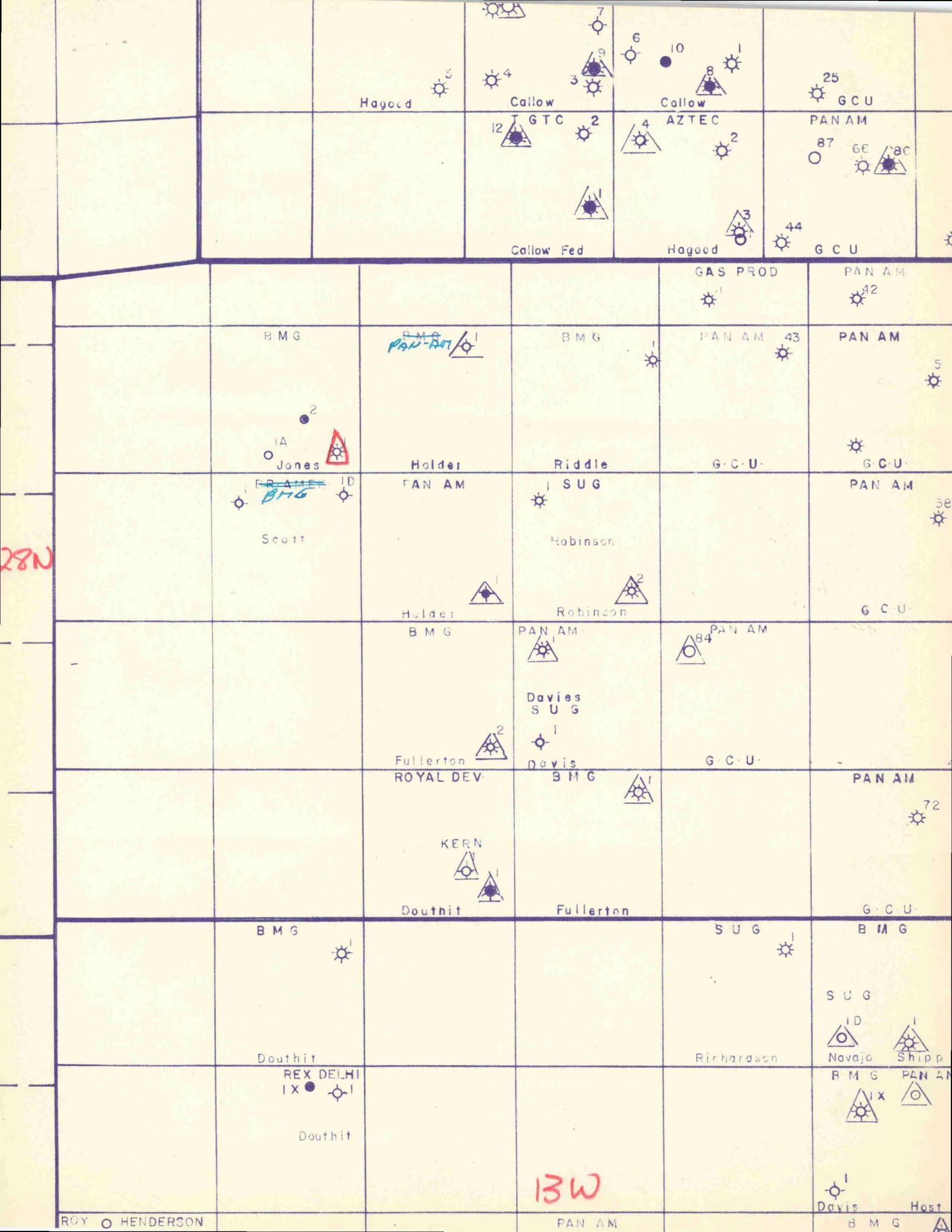
Perforate - Abrasive Jet 5635 - 5660 & 5669

Set Baker Model "D" Packer @ 5700 ft.

Top Dakota 6214 ft

Perforate 6234 - 6244 & 6304 - 6318

TD 6358 - 5 1/2" OD N80 - 17# Csg. Set @ 6356 cemented w/ 375 sx.


Hagood
Callow
Callow
GCU
GTC
AZTEC
PAN AM
Callow Fed
Hagood
GCU
GAS PROD
PAN AM
BMG
Jones
Holder
BMG
Riddle
PAN AM
GCU
PAN AM
GCU
BMG
Scott
PAN AM
Holder
SUG
Robinson
PAN AM
GCU
BMG
Fullerton
PAN AM
Davies
SUG
Davis
PAN AM
GCU
ROYAL DEV
KERN
Douthit
BMG
Fullerton
PAN AM
GCU
BMG
Douthit
SUG
Richardson
BMG
SUG
Navajo
Shipp
REX DELHI
Douthit
BMG
PAN AM
Davis
Host
ROY O HENDERSON
PAN AM
BMG
28N
13W

Case 2038

MAIN OFFICE OCC
1960 JUL 5 AM 9:33

OIL CONSERVATION COMMISSION
1000 Rio Brazos Rd.
Aztec, New Mexico

DATE June 30, 1960

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

RE: Proposed NSP _____
Proposed NSL _____
Proposed NFO _____
Proposed DC ✓

Gentlemen:

I have examined the application dated June 24, 1960

for the Pan Am Mesa Grande Jones #1 12-17-23N-12W
Operator Lease and Well No. S-T-R

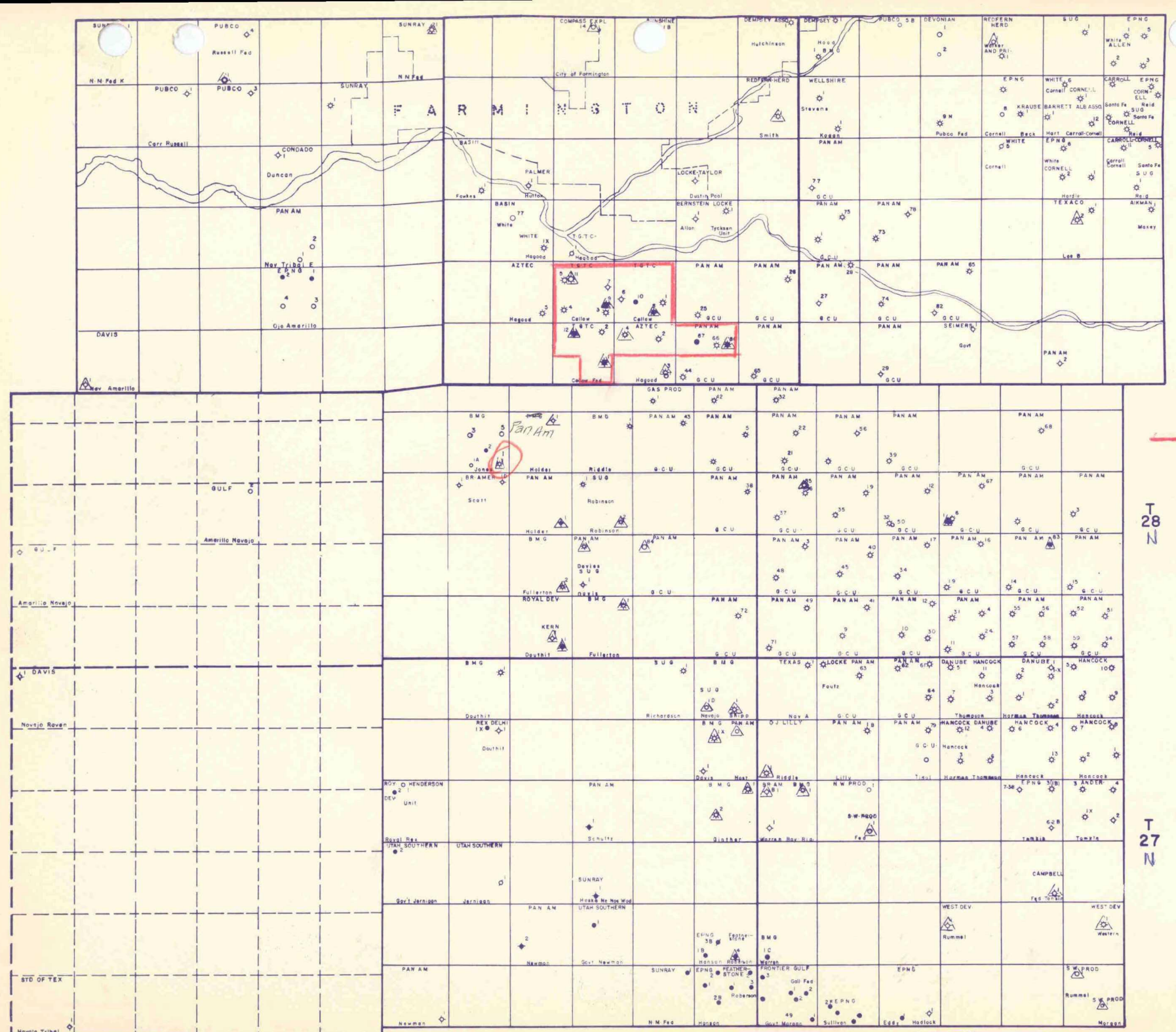
and my recommendations are as follows:

No objection to approval after hearing.

Yours very truly,

OIL CONSERVATION COMMISSION

A. R. Kendrick



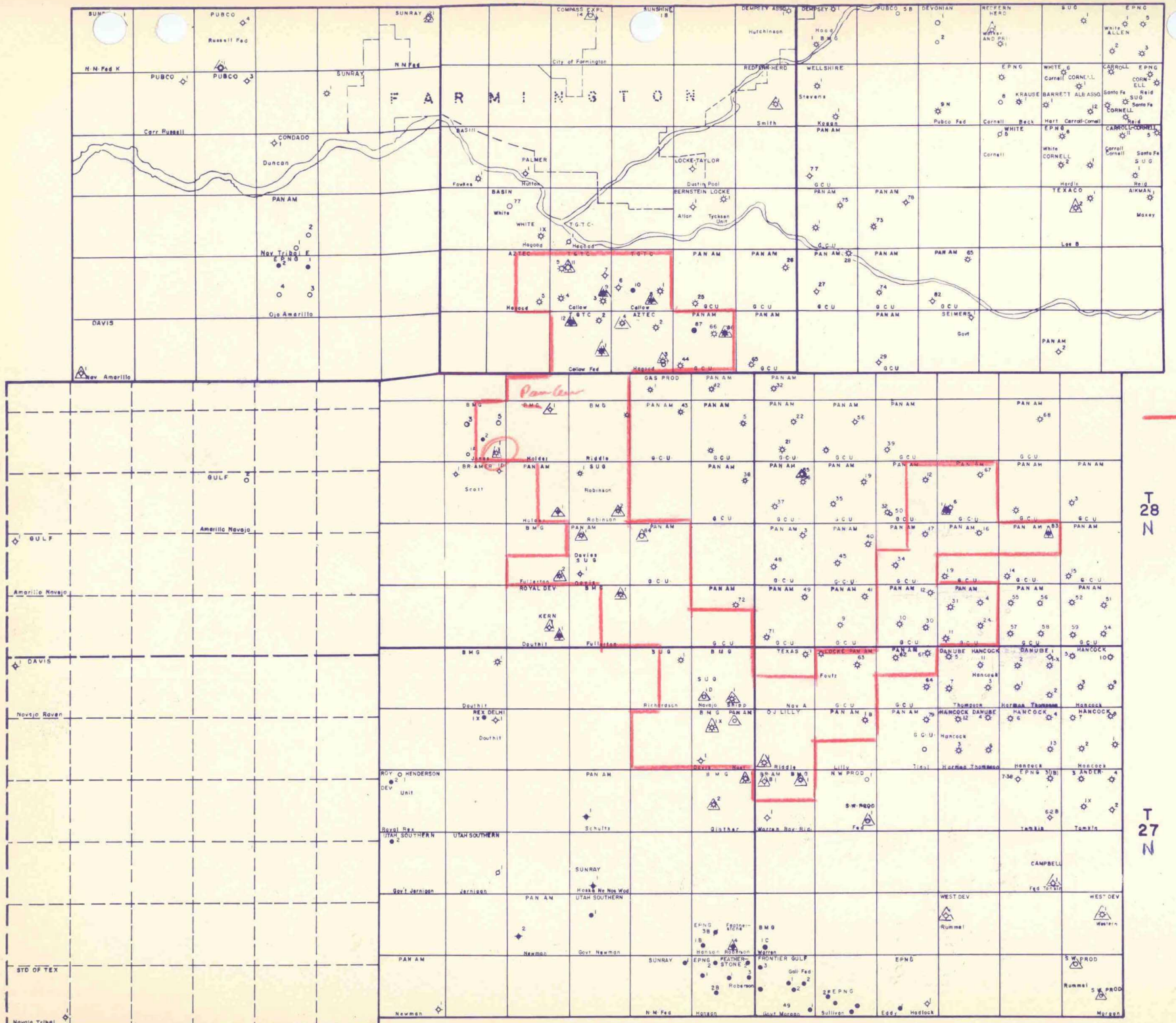
BENSON MONTIN GREER DRLG. CORP.

PORTION OF

SAN JUAN BASIN

SAN JUAN CO. NEW MEXICO

REVISION							
Date	By	Date	By	Date	By	Date	By
4/1/60	Stanley						



BENSON MONTIN GREER DRLG. CORP.

PORTION OF

SAN JUAN BASIN

SAN JUAN CO. NEW MEXICO

REVISION

Date	By	Date	By	Date	By	Date	By
6/1/60	SFG/DV						

ILLEGIBLE

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO 7-3-58

APPLICATION FOR DUAL COMPLETION

Name [redacted]		County SAN JUAN	Date June 24, 1960
Operator [redacted]		Lease JONES	Well No. 1
Location of Well: Unit P	Section 17	Township 28N	Range 12W

1. Has the New Mexico Oil Conservation Commission heretofore authorized the dual 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	Lower Zone
a. Name of reservoir	Gallup	Dakota
b. Top and Bottom of Pay Section (Perforations)	5665, 5680, 5695	6304-6310 6324-6334
c. Type of production (Oil or Gas)	Oil	Gas
d. Method of Production (Flowing or Artificial Lift)	* Flow	Flow

4. The following are attached. (Please mark YES or NO)

Yes a. Diagrammatic Sketch of the Dual Completion, showing all casing strings, including size and setting, 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.

Yes 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.

Yes c. Waivers consenting to such dual completion from each offset operator, or in lieu thereof, evidence that said offset operators have been furnished copies of the application.* See copy of letter attached.

_____ 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.

Pan-American Petroleum Corp., Box 487, Farmington, New Mexico

ILLEGIBLE

* Well is equipped with 3 gas lift valves for future artificial lift.

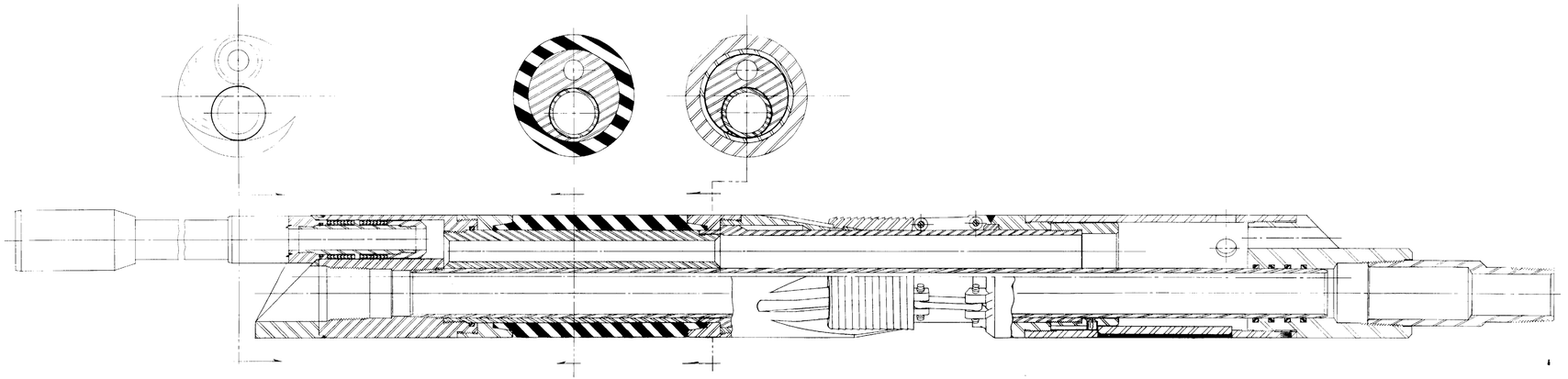
6. Were all operators listed in Item 5 above notified and furnished a copy of this application? YES _____ NO _____. If answer is yes, give date of such notification June 24, 1960

CERTIFICATE: I, the undersigned, state that I am the Vice-President of the Benson-Montin-Greer Drilling Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared by me or under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

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 granted.

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



"BD" Packer Assembly
7"28-32 #2 J2
No. 302TE

BAKER MODEL "D" RETAINER PRODUCTION PACKER

Product No. 415-D

USE: The Baker Model "D" Retainer Production Packer is the most widely used, most versatile, high-performance, drillable production packer available. Reference to the application section Pages 494 through 498 will disclose that it has been used successfully in nearly every conceivable production application from simple single-zone, permanent-type completions throughout dual- and multiple-zone installations, including complex multiple-string applications. In conjunction with many of its numerous production applications it is frequently used as a high-performance squeeze or testing packer or as a permanent or temporary bridge plug.

ADVANTAGES: The Model "D" Retainer Production Packer offers all of the advantages and features described in Pages 501 through 503, plus one great advantage: its proven performance. This packer offers proven reliability based on thousands of successful applications under the most rigorous of high-pressure and temperature conditions over the past 16 years. Many of the first production models of this packer are still providing excellent service.

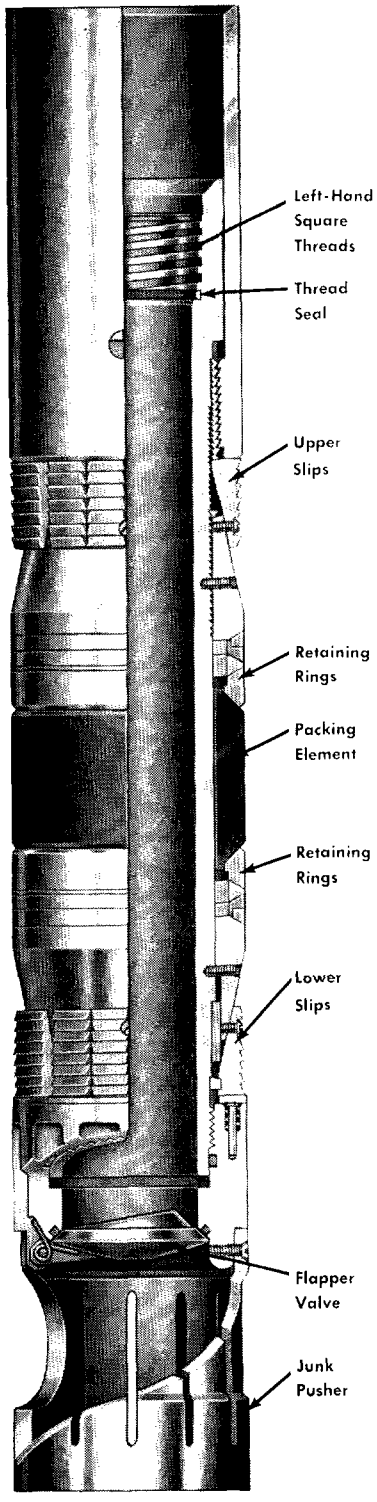
CHARACTERISTIC CONSTRUCTION FEATURES: (Refer to Fig. H-184). The Model "D" Retainer Production Packer contains two sets of opposed slips, a packing element confined by metal retaining rings, features that are characteristic of all Baker Retainer Production Packers. The characteristic feature of this packer is its smooth continuous I.D. sealing bore that contains a flapper-type back-pressure valve at its lower end. In most instances the packer is available with different sealing bore sizes for a given O.D. and weight range of casing (see specification guide Pages 518 and 519).

Although the Models "DA", "F", and "FA" Retainer Production Packers contain larger bores for an equivalent casing O.D. and weight range, their use in normal production hookups is not warranted unless a larger bore is mandatory.

SETTING METHODS: All Model "D" Retainer Production Packers can be set on wire line (Pages 504, and 542) or tubing or drill pipe (Page 514).

ACCESSORIES

The typical accessories for use with the Model "D" Retainer Production Packer are illustrated and briefly described on the opposite page. Refer to specification guide on Pages 518 and 519 for partial specifications. These accessories can be used with the Baker Model "H" Retainer Production Packer, once the setting-seal mandrel has been removed.



Product No. 415-D

Fig. H-184

Baker Model "D" Retainer Production Packer

HOW TO DRILL OUT BAKER RETAINER PRODUCTION PACKERS

The recommendations listed below should be used as a guide only. Past experience and common sense should govern the drilling-out operation.

With Rotary Rig:
BAKER PACKER MILLING TOOL
Product No. 747

The Packer Milling Tool normally mills over a Baker Retainer Production Packer in 2 to 4 hours. After the upper outside portion of the packer is milled up, the balance of the packer is retrieved in over 90% of the jobs.

This new Packer Milling Tool can be run on drill pipe or tubing. It is recommended, however, that a Baker Junk Basket and at least one drill collar be run between the Packer Milling Tool and the drill string, refer to Fig. H-183-A, View I.

Both the milling shoe and the bottom sub of the Milling Tool are dressed with hundreds of crushed tungsten carbide chips for fast milling. All connections are threaded (right-hand thread) and locked with set screws. The tool itself will withstand a 50,000-lb. pull.

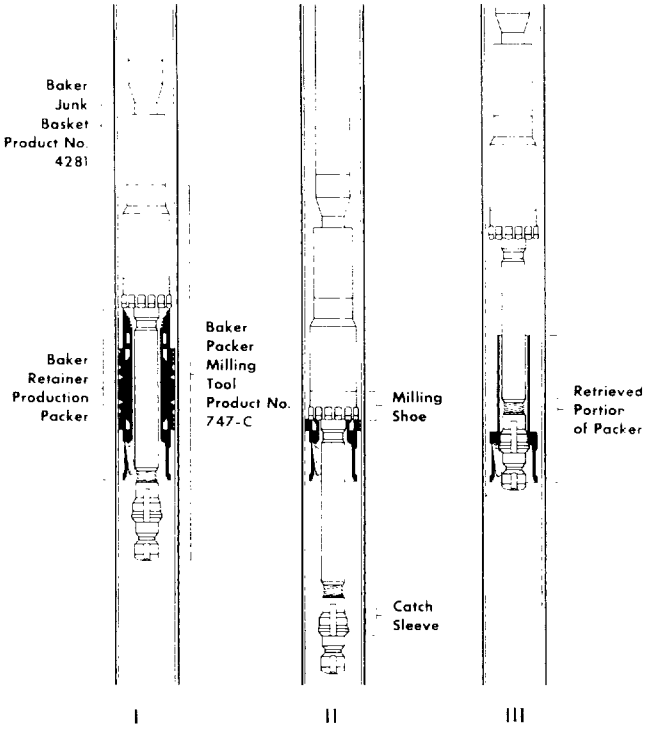


FIG. NO. 183-A—OPERATIONAL VIEWS

With pump on, run in and tag packer lightly. Set down with about 5,000 lbs., then take a 15,000-lb. strain to check operation of catch sleeve. Milling operation is normally achieved with full circulation, from 5,000 to 10,000 lbs. of weight on drill string, and rotary set at 50 to 75 r.p.m.

View II illustrates the position of the Milling Tool as it mills over the top outside portion of the packer. Note that only the outside of the packer is milled, and that the Milling Tool is stabilized in the casing by the lower part of the Milling Tool which rotates inside the packer body.

After the packer is milled over and freed, the catch sleeve retrieves the body, guide and junk pusher of the packer, see View III. The Milling Tool is designed to mill over a packer and retrieve it in one round trip.

In case of an emergency, the Packer Milling Tool can be released from the packer by holding a 5,000 to 10,000-lb. strain on the drill string and rotating to the right until the catch sleeve collapses.

The Baker Packer Milling Tool, Product No. 747, is available to mill over and retrieve most sizes of Baker Models "D," "DA," "F" and "FA" Retainer Production Packers.

Rock Bits

The average time required to drill out a Baker Retainer Production Packer with rock bits usually ranges from 8 to 16 hours.

A Baker Junk Basket and at least one Drill Collar should be run between the rock bit and the drill string.

A new, high quality, hard formation rock bit with medium to short, regularly spaced teeth should be run. Select a bit that will not "track," and of a size that will give minimum clearance between the bit and the casing. It is recommended that a bit without "wings" between the outer teeth be used.

When feeling for the packer, try to avoid any impact which might break some of the teeth on the bit.

Experience has shown that rotary speeds between 50 and 75 r.p.m. will give the best results under normal conditions.

Weight should be gradually increased on the packer until there is as much weight on it as is safe for the bit and/or the drill pipe. From 14,000 to 15,000 lbs. has proved to be an efficient weight when using drill pipe. Care must be taken, when using tubing, not to apply excessive weight

With Cable Tools:

Use conventional cable tools with either bevel or star bit. Dump about two barrels of heavy mud on top of the packer.

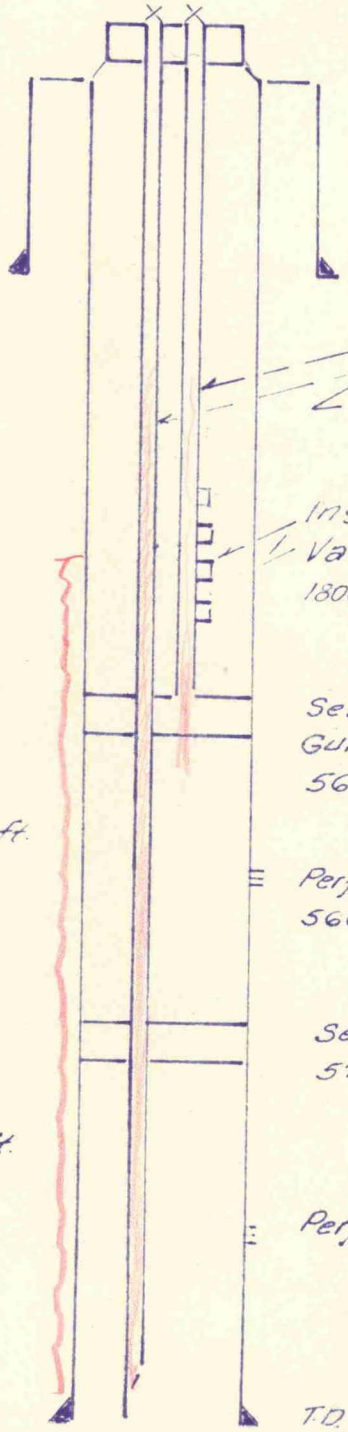
Drill in the usual manner. Run sand pump or hydrostatic bailer for clean out between drilling runs. Spot fresh mud and continue drilling. When the section of the packer that contains the packing element is reached the drilling efficiency can be increased considerably by dropping broken bottle glass on top of the packer.

BENSON-MONTIN-GREER DRLG. CORP.

Jones #1

790/S - 790 E Sec 17-28N-13W

San Juan County - New Mexico



Dual Surface Equipment

Set 200' - 8 5/8 - 24# J 55 csg cemented w/ 150 sx.

Two (2) strings - 1½" OD - 1.90 Non Upset Tubing.

Install - three (~~3~~ 4) Merla Gas Lift Valves - (future artificial lift) 1800 - 3250 4530 - 5600

Set 5½" x 1½" x 1½" Type RDL Guiberson Dual Packer @ 5625'

Top Gallup Pay 5652 ft.

Perforate - Abrasive Jet 5655 - 5660 5665

Set Baker Model "D" Packer @ 5700 ft.

Top Dakota 6214 ft.

Perforate 6234 - 6244 & 6304 - 6318

T.D. 6358 - 5½" OD - N80 - 17# csg. Set @ 6356 cemented w/ 375 sx.

top cmt 4500

P8

JGS

[illegible] Petroleum Center Building
Farmington, New Mexico
July 16th, 1957

[illegible]
[illegible]
[illegible]

Attention: Mr. [illegible]

ILLEGIBLE

Re: [illegible]

Gentlemen:

We propose to conduct bleeder test on the aforesaid well in accordance with the following schedule:

1. Shut in Gallup formation July 16th at 6:00 P.M. The Dakota formation has been shut in for a period in excess of 7 days, and will continue to be shut in until tested as set out below.

2. After being shut in 14 hours, which will be 6:00 AM on July 17th, the Gallup formation will be produced for 24 hours.

3. Deadweight tests will be taken of the Dakota pressure every day (except Sunday) commencing July 18th.

4. Measurement of Gallup shut-in pressure one morning of July 20th, to compare to previous pressures. This will indicate whether a leak exists from the Dakota to the Gallup.

5. The Gallup formation will be shut in from 6:00 PM on July 20th to 6:00 AM July 23rd.

6. Deadweight pressures will be taken of the Gallup formation on the morning of July 21st, and July 23rd.

7. The Dakota formation will be opened and produced on standard potential test for three hours, and deadweight pressures of the Gallup will be taken during this time.

8. Comparison of deadweight pressures taken on the Gallup while the Dakota is being flowed will indicate the presence or absence of leak from the Gallup to the Dakota.

We trust this method of packer test meets with your approval, and will be pleased to have a Commission representative witness any or all parts of the test.

Yours very truly,

MENSON-MONTIN-GREER DRILLING CORP.

ILLEGIBLE

By: _____
Albert R. Greer
Vice-President

ARG/ne

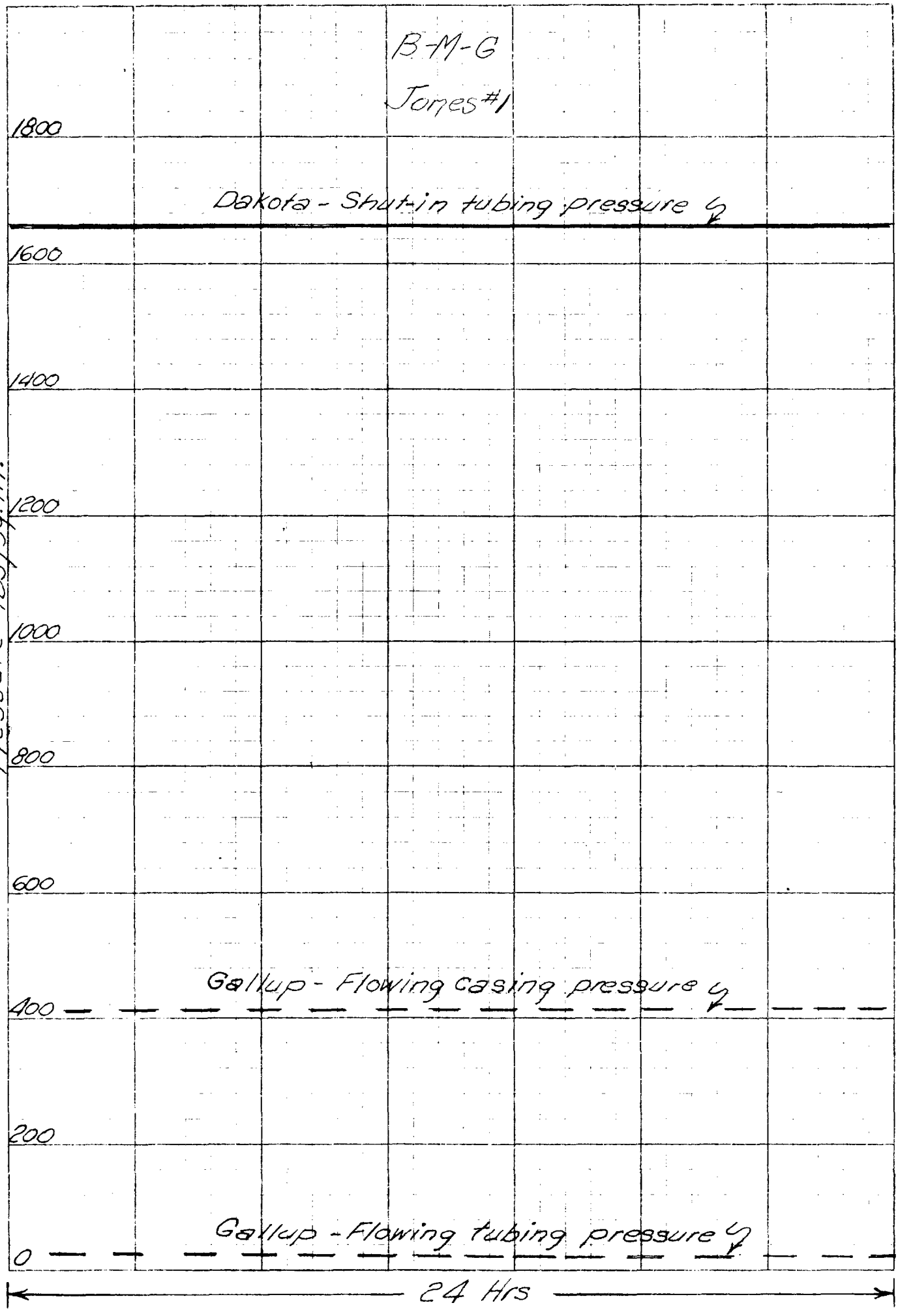
PACKER LEAKAGE TEST

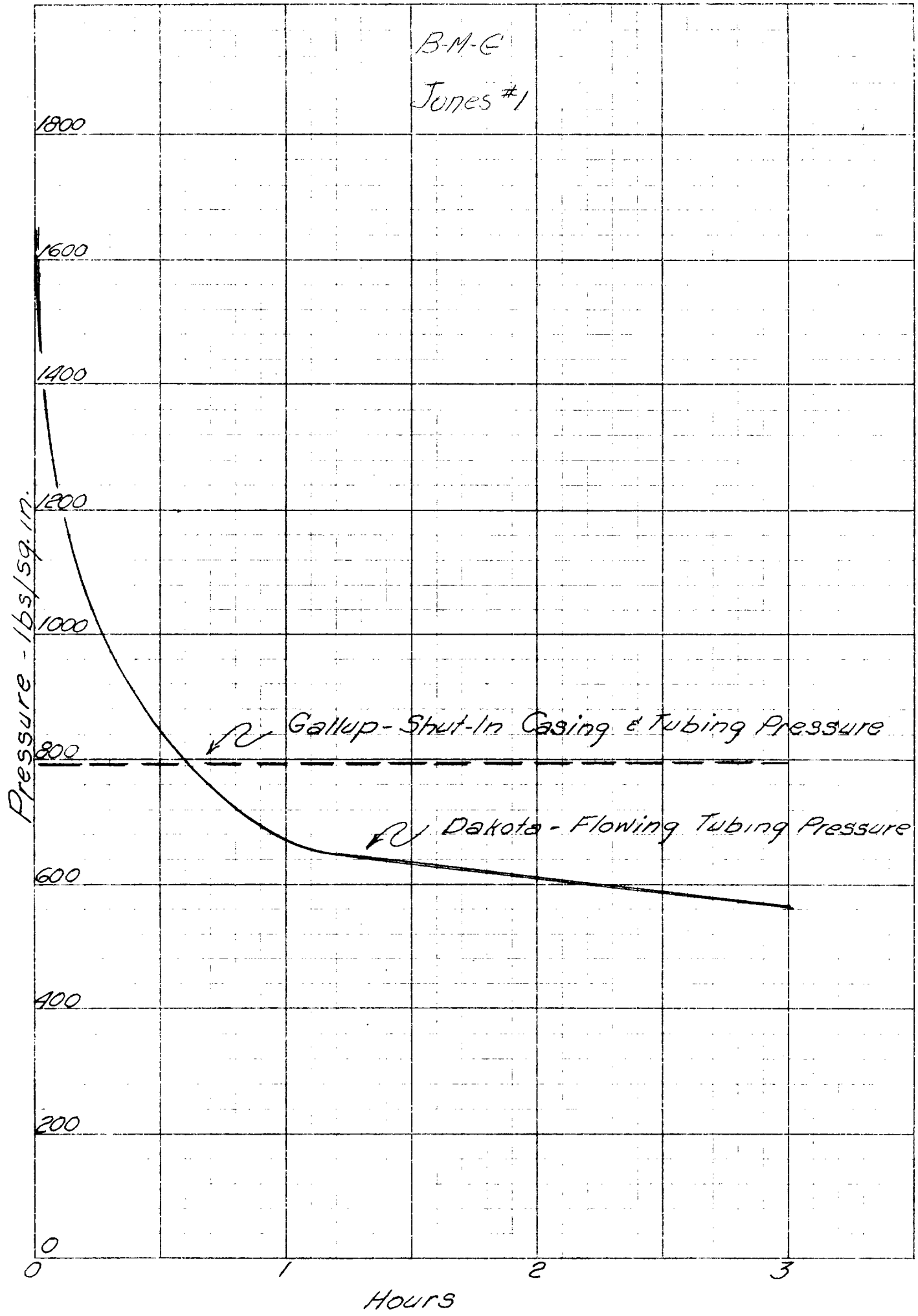
BENSON-MONTIN-GREER DRILLING CORP.

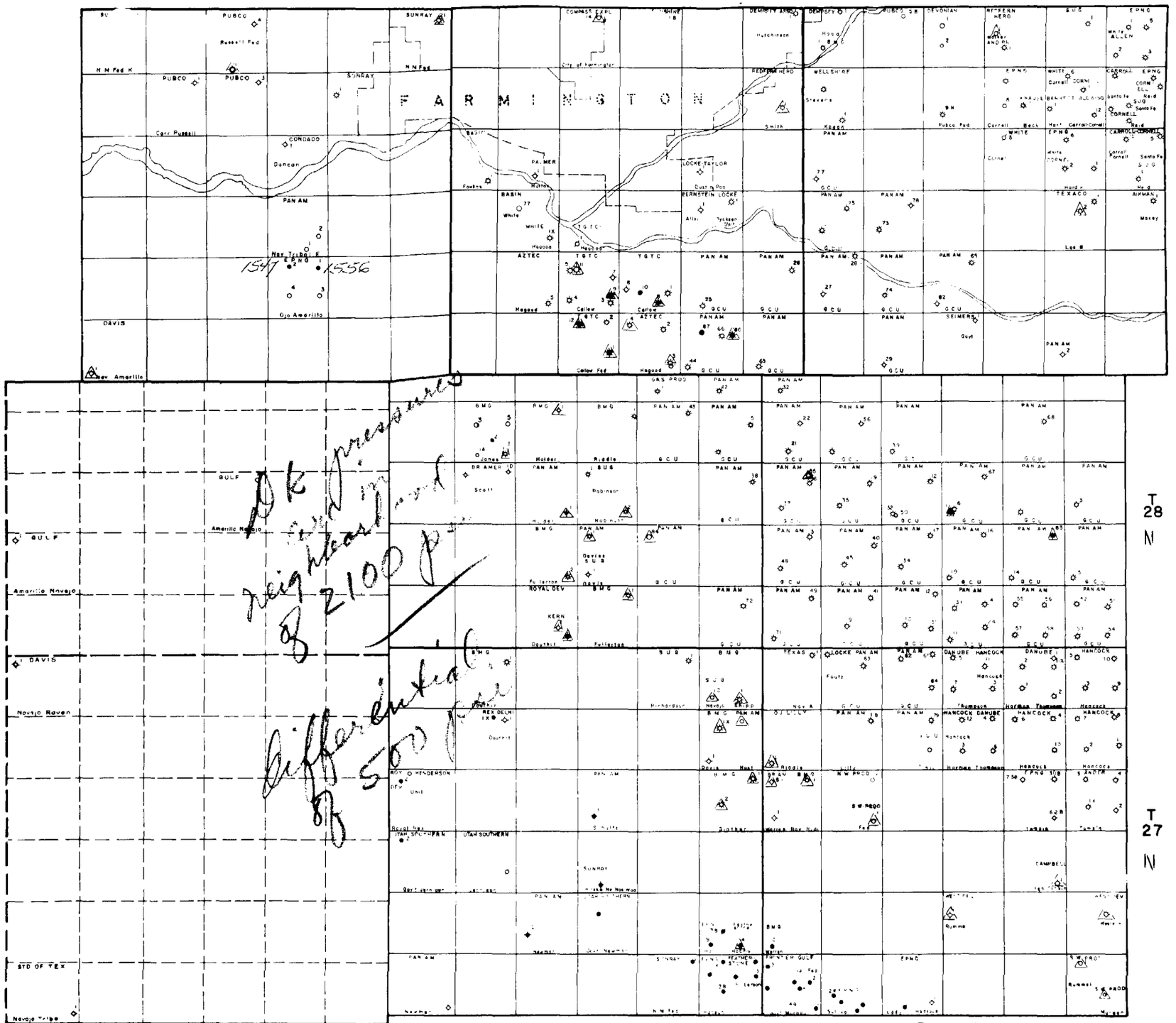
JONES #1

DATE	TIME	GALLUP PRESSURE Tbg.	GALLUP PRESSURE Csg.	DAKOTA PRESSURE	REMARKS
7-16-60	8:00 A.M.	shut-in		1661	Gallup produced 128 bbls/ 24 hrs. w/GOR of 823:1 ½" choke - Flowing csg. 400# - Flowing tbg. 25#-40#. Dakota Pressure stable at 1661#
7-17-60	8:00 A.M.			1662	
7-18-60	8:00 A.M.			1663	
7-19-60	8:00 A.M.			1667	
7-20-60	8:00 A.M.			1669	
7-21-60	8:00 A.M.	726	726	1673	
7-22-60	8:00 A.M.	766	766	1676	
7-23-60	8:00 A.M.	790	790	1678	Dakota opened to flow at 8:00 A.M. Pressure 1st hr. - 651 Pressure 2nd hr. - 626 Pressure 3rd hr. - 578 Gallup pressure stable at 790# during test

(PRESSURES RECORDED WITH DEAD WEIGHT TESTER.)







BOTTOM HOLE PRESSURES - GALLUP

ILLEGIBLE

Form C- 116
Revised (12/1/55

NEW MEXICO OIL CONSERVATION COMMISSION

GAS-OIL RATIO REPORT

OPERATOR BENSON-MONTIN-GREER DRILLING CORP. POOL Undesignated

ADDRESS 158 Petroleum Center Building Farmington, New Mexico MONTH OF July, 19 60

SCHEDULED TEST ..... COMPLETION TEST X SPECIAL TEST ..... (Check One)

(See Instructions on Reverse Side)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
Jones	1	7/16	F	1/2	21	94*	0	105 ✓	85.4	813 ✓

* Pool allowable

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 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date July 26, 1960

BENSON-MONTIN-GREER DRILLING CORP.
Company

By .....

Engineer
Title