

CASE 3809: Application of SOLAR
OIL COMPANY FOR A DUAL COMPLETION
LEA COUNTY, NEW MEXICO.

Case Number

3809

Application
Transcripts.

Small Exhibits

ETC.

GOVERNOR
DAVID F. CARGO
CHAIRMAN

State of New Mexico
Oil Conservation Commission



LAND COMMISSIONER
GUYTON B. HAYS
MEMBER

STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY - DIRECTOR

P. O. BOX 2088
SANTA FE

August 1, 1968

Mr. Jason Kellahin
Kellahin & Fox
Attorneys at Law
Post Office Box 1769
Santa Fe, New Mexico

Re: Case No. 3809
Order No. 3810
Applicant:
Solar Oil & Bronco Oil

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

A. L. Porter, Jr.
A. L. PORTER, Jr.
Secretary-Director

ALP/ir

Carbon copy of order also sent to:

Hobbs OCC X

Artesia OCC

Aztec OCC

Other _____

BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 3809
Order No. R-3457

APPLICATION OF SOLAR OIL COMPANY
FOR A DUAL COMPLETION, LEA COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on July 24, 1968,
at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 1st day of August, 1968, the Commission, a
quorum being present, having considered the testimony, the record,
and the recommendations of the Examiner, and being fully advised
in the premises,

FINDS:

(1) That due public notice having been given as required by
law, the Commission has jurisdiction of this cause and the subject
matter thereof.

(2) That the applicant, Solar Oil Company, seeks authority
to complete its Travis Well No. 2, located in Unit J of Section
21, Township 23 South, Range 37 East, NMPM, Lea County, New
Mexico, as a dual completion (conventional) to produce oil from
the Teague-Blinbry Pool and an undesignated Tubb-Drinkard pool
through parallel strings of 2 3/8-inch tubing, with separation
of zones by a packer set at approximately 5978 feet.

(3) That the mechanics of the proposed dual completion are
feasible and in accord with good conservation practices.

(4) That approval of the subject application will prevent
waste and protect correlative rights.

-2-

CASE No. 3809
Order No. R-3457

IT IS THEREFORE ORDERED:

(1) That the applicant, Solar Oil Company, is hereby authorized to complete its Travis Well No. 2, located in Unit J of Section 21, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico, as a dual completion (conventional) to produce oil from the Teague-Blinbry Pool and an undesignated Tubb-Drinkard pool through parallel strings of 2 3/8-inch tubing, with separation of zones by a packer set at approximately 5978 feet;

PROVIDED HOWEVER, that the applicant shall complete, operate, and produce said well in accordance with the provisions of Rule 112-A of the Commission Rules and Regulations insofar as said rule is not inconsistent with this order;

PROVIDED FURTHER, that the applicant shall take packer-leakage tests upon completion and annually thereafter during the Annual Gas-Oil Ratio Test Period for the undesignated Tubb-Drinkard pool.

(2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION


DAVID F. CARGO, Chairman


GULTON B. HAYS, Member


A. L. PORTER, Jr., Member & Secretary


esr/

DOCKET: EXAMINER HEARING - WEDNESDAY - JULY 24, 1968

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM,
STATE LAND OFFICE BUILDING, SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or
A. L. Porter, Jr., Alternate Examiner:

CASE 3809: Application of Solar Oil Company for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Travis Well No. 2 located in Unit J of Section 21, Township 23 South, Range 37 East, Lea County, New Mexico, to produce oil from the Teague-Blinebry and undesignated Tubb-Drinkard pools through parallel strings of tubing.

CASE 3810: Application of Bronco Oil Corporation for a dual completion, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the dual completion (conventional) of its Saltmount Well No. 2 located in Unit O of Section 21, Township 23 South, Range 37 East, Lea County, New Mexico, to produce oil from the Teague-Blinebry and undesignated Tubb-Drinkard pools through parallel strings of tubing.

CASE 3811: Application of Charles B. Read for an unorthodox oil well location, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to drill his Marathon State Well No. 1 at a location 1980 feet from the South line and 660 feet from the West line of Section 7, Township 19 South, Range 35 East, Scharb-Bone Springs Pool, Lea County, New Mexico, in exception to the pool rules which require the first well drilled on a unit to be located in the NE/4 or the SW/4 of the quarter section.

CASE 3812: Application of Tenneco Oil Company for a unit agreement, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval of the Southwest Henshaw (Premier) Unit Area comprising 1720 acres, more or less, of Federal lands in Township 16 South, Range 30 East, West Henshaw-Grayburg Pool, Eddy County, New Mexico.

CASE 3813: Application of Tenneco Oil Company for a waterflood project, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to institute a waterflood project in its Southwest Henshaw (Premier) Unit Area by the injection of water into the Premier sand through nine injection wells in Sections 7, 8, 17, 18 and 19, Township 16 South, Range 30 East, West Henshaw-Grayburg Pool, Eddy County, New Mexico.

- CASE 3814: Application of Humble Oil & Refining Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Penrose zone of the Queen formation in the perforated interval from 3018 feet to 3838 feet in its New Mexico "G" State Well No. 17 located 330 feet from the South line and 1850 feet from the West line of Section 23, Township 21 South, Range 36 East, Eumont Gas Pool, Lea County, New Mexico. If said Penrose zone does not prove satisfactory, then the applicant proposes to deepen said well and dispose into the San Andres formation.
- CASE 3815: Application of Humble Oil & Refining Company for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Abo formation in the interval from 5670 feet to 6030 feet in its Chalk Bluff Draw Unit (A) Well No. 19 located 990 feet from the South line and 1650 feet from the West line of Section 16, Township 18 South, Range 27 East, Empire Abo Pool, Eddy County, New Mexico.
- CASE 3816: Application of Humble Oil & Refining Company for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Wolfcamp formation in the interval from 10,199 feet to 10,530 feet in its H. A. Townsend Well No. 6 located 1980 feet from the North and East lines of Section 9, Township 16 South, Range 35 East, Townsend Wolfcamp Pool, Lea County, New Mexico.
- CASE 3817: Application of Continental Oil Company for reinstatement of cancelled underproduction, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the general rules and regulations for prorated gas pools of Southeastern New Mexico promulgated by Order No. R-1670, as amended, to permit the reinstatement of underproduction accumulated by its Stevens A-35 Well No. 2 located in Unit J of Section 35, Township 23 South, Range 36 East, Jalmat Gas Pool, Lea County, New Mexico, cancelled December 31, 1967. Applicant requests that its Stevens A-35 Well No. 1 located in Unit L and its Stevens A-35 Well No. 2 located in Unit J, both in the aforesaid Section 35 and dedicated to the same non-standard gas proration unit, be permitted to produce the aforesaid cancelled underproduction.

CASE 3818: Application of Continental Oil Company for an exception to Rule 506, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an exception to the statewide limiting gas-oil ratio of 2,000 feet of gas per barrel of oil as promulgated by Commission Rule 506 for its Warren Unit Well No. 11, located in Unit A of Section 35, Township 20 South, Range 38 East, Warren-Drinkard Pool, Lea County, New Mexico.

CASE 3819: Application of Cities Service Oil Company for the institution of gas prorationing in the Buffalo Valley-Pennsylvanian Gas Pool, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks the limitation of gas production from the Buffalo Valley-Pennsylvanian Gas Pool in Chaves County, New Mexico, to reasonable market demand and to the capacity of gas transportation facilities, and that the subject pool be governed by the general rules and regulations for the prorated gas pools of Southeastern New Mexico insofar as said general rules and regulations are not inconsistent with the special rules and regulations governing the subject pool. Further, the applicant proposes that the allowable production from the pool be allocated among the wells in the pool on a 100% surface acreage basis.

CASE 3820: Application of El Paso Natural Gas Company for an unorthodox gas well location, Rio Arriba County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Harvey "A" Well No. 3 at a point 890 feet from the South line and 1650 feet from the East line of Section 32, Township 27 North, Range 7 West, Blanco-Mesaverde Pool, Rio Arriba County, New Mexico, in exception to the pool rules which require locations to be in either the Northeast or Southwest quarter of the section.

CASE 3821: Application of Marathon Oil Company for compulsory pooling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Wolfcamp formation underlying the SE/4 of Section 22, Township 20 South, Range 35 East, Lea County, New Mexico. Said acreage to be dedicated to a well to be drilled 660 feet from the South and East lines of said Section 22, and within one mile of the Southeast Lea-Wolfcamp Gas Pool.

Examiner Hearing - July 24, 1968

Docket No. 22-68

Case 3822: Application of Aztec Oil & Gas Company for commingling, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to commingle San Andres production from its State "AJ" lease comprising the SW/4 and the W/2 NE/4 of Section 1 and its Amerada State lease comprising the N/2 NW/4 of Section 12, all in Township 18 South, Range 36 East, Arkansas Junction-San Andres Pool, Lea County, New Mexico, allocating production to each lease on the basis of periodic well tests.

CASE 3805: CONTINUED FROM THE JULY 10, 1968, EXAMINER HEARING

Application of Benson-Montin-Greer Drilling Corporation and Lloyd B. Taylor for Pressure Interference Tests and Back Allowable, San Juan County, New Mexico. Applicants, in the above-styled cause, seek authority to extend for an additional 60-day period from July 8, 1968, the shut-in test period authorized for one well in the La Plata Gallup Oil Pool, San Juan County, New Mexico, by Commission Order No. R-3399 and to also extend the back allowable make-up period for said well. Applicants further seek authority to drill three additional La Plata oil wells in Section 6 of Township 31 North, Range 13 West, and Sections 31 and 32, Township 32 North, Range 13 West, and to shut said wells in immediately after recovery of load oil and the establishment of initial potentials, for a period of up to 180 days for the purpose of conducting pressure interference tests, and to make-up the production lost during said test period at a later date. Applicants further seek a provision for administrative extension of the shut-in test period and the make-up period.

OIL CONSERVATION COMMISSION
I DISTRICT

Case 3809

OIL CONSERVATION COMMISSION
BOX 871
SANTA FE, NEW MEXICO

DATE June 27, 1968

Re: Proposed NSP _____
Proposed Triple _____
Proposed NSL _____
Proposed NFO _____
Proposed DC X

Gentlemen:

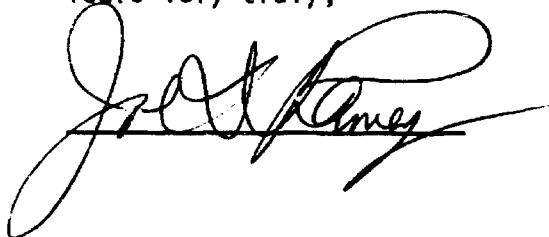
I have examined the application dated 6/25/68

for the Solar Oil Co., Inc. Travis #2-J 21-23-37
Operator Lease and Well No. S-T-R

and my recommendations are as follows:

O.K.---J.D.R.

Yours very truly,



MAIN OFFICE

'68 JUL 1 AM 8

dearnley-meier reporting service, inc.

SPECIALIZING IN: DEPOSITIONS, HEARINGS, STATEMENTS, EXPERT TESTIMONY, DAILY COPY, CONVENTIONS

1120 SIMMS BLDG. • P. O. BOX 1092 • PHONE 243-4491 • ALBUQUERQUE, NEW MEXICO

BEFORE: Daniel S. Nutter
Examiner

TRANSCRIPT OF HEARING

BEFORE THE
NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico
July 24, 1968

EXAMINER HEARING

IN THE MATTER OF:

Application of Solar Oil Company for a
dual completion, Lea County, New Mexico.)

Application of Bronco Oil Corporation
for a dual completion, Lea County,
New Mexico.)

Case No. 3809

Case No. 3810

DIRECT EXAMINATION

BY MR. KELLAHIN:

Q Would you state your name, please?

A My name is Max E. Curry.

Q By whom are you employed and in what position,

Mr. Curry?

A I am representing Solar Oil Company in Case 3809 and Bronco Oil Corporation in 3810. I'm an independent oil producer and consulting engineer. I represent Bronco Oil Corporation in the capacity of Executive Vice-President and Solar Oil Company in the capacity of President.

Bronco Oil Corporation is a Nevada corporation. Solar is a Texas corporation. Both are approved to do business in the State of New Mexico and have their principal offices in Midland, Texas.

I'm a petroleum engineer registered in the State of Texas and have appeared before this Commission many times as an expert witness. I have personally completed both of the wells subject to these requests for dual completion. In each of the cases, I am familiar with the equipment and the completion procedures used.

MR. KELLAHIN: Are the witness's qualifications acceptable?

MR. NUTTER: They are.

Q Mr. Curry, would you briefly summarize the history of the Teague Pool?

A The Teague Field was discovered in 1948 by Gulf Oil Corporation when their Liminian Number 6 Well was completed in the McKee Formation. The Ellenburger Pay Horizon was discovered when Gulf drilled their Liminian B Well Number 11, and the Devonian production was discovered when Hamon-Carter-Hill B Number 1 was completed in that horizon in 1952. These horizons were depleted and the wells plugged and abandoned on several leases in 1966. Bronco and Solar acquired several leases and re-entered several wells, completing them in either the Tubb Drinkard or Blinebry Formations.

In December of 1967, we completed the first well that would permit us to run a seven-inch OD casing, which is the Saltmount Number 2, which we were able to dual complete in the Blinebry and the Tubb Formations. The well was completed by selectively perforating and treating each of the producing horizons, the Tubb Drinkard and the Blinebry, separately; an Otis permanent type packer set at the top of the Tubb Formation, separate strings of tubing were run to complete the well. Packer leakage tests were run and separate allowables were requested by filing all of the proper State forms to this Commission.

Q Now, both of these wells have been completed, I take it.

A Yes, they have.

Q Is the completion that has been made on these wells a conventional type of completion that has been approved by this Commission?

A These are conventional procedures. Each zone is segregated by an approved type packer and each is produced through separate tubing strings. Each is equipped so it may be pumped in its later life and produced to economic limit.

Q Now, is this type of completion to the prevention of waste?

A Yes, it is. The Tubb Drinkard Formation in this area produces at relatively low rates and separate wells would probably not be drilled to this formation.

Q Now, can you support this contention with some information on the reserves and the costs involved?

A Yes. Although the Blinberry Formation is recognized as an economic producer in this area, the Tubb Drinkard is expected to recover no more than fifty to 75,000 barrels of oil in the best wells. The cost to develop this formation as a single zone producer is approximately \$87,000.00 which is obviously not an attractive objective for a single zone development. The additional cost of developing the Tubb Drinkard as a dual

well with the Blinebry is about \$35,000.00.

Q Do you believe the operators in this area would develop the Tubb Drinkard Formation under single zone completions?

A I do not believe that a single zone well can be justified under any circumstances other than a salvage operation. If the development were dependent upon the Tubb Drinkard Formation, no further wells would be drilled; indeed, very few existing wells would have been drilled.

Q This is an undesignated pool, is it not, Mr. Curry?

A The Blinebry Formation has been designated as producing from the Teague Blinebry Pool. The Tubb Drinkard is an undesignated pool at this time.

Q And heretofore, there has been no dual completion to prove by this Commission, is that correct?

A Not in this field.

Q Not in this field. Now, do you have exhibits which will support your position in this case, Mr. Curry?

A Yes. I have Exhibit Number 1 which is a schematic drawing showing the relative positions.

MR. KELLAHIN: Would you mark that Exhibit Number 1, please. Mark this Exhibit Number 2, also, and 3.

(Whereupon, Applicants Exhibits Numbers 1, 2 and 3 were marked for identification.)

A Exhibit Number 1, I wish to submit a schematic drawing

representing the physical equipment used in the wells in this completion and it shows its relative position to the producing horizons by incorporating a gamma ray neutron log of each of the wells on the exhibit.

Exhibit Number 2 is a set of State forms submitted on each of the subject wells relative to their respective packer leakage tests. Exhibit Number 2 represents the Travis Number 2.

Exhibit Number 3 is the same set of forms on the Saltmount Number 2 Well.

Q Now, do the information contained in these exhibits indicate that there is a complete segregation of the two producing horizons?

A Yes, it does, both by pressure and by gas-oil ratio.

Q Attached to the exhibit, is there a plat showing the location of the wells?

A Yes, and Exhibit Number 2 and Exhibit Number 3 each contain a plat showing the leases which are not only offset leases, but the wells in question are direct offsets, both completed in the same producing horizon and have comparable equipment.

Q Now, on Exhibit Number 3, does the area shown on the exhibit include other fields in which the subject producing horizons are completed in dual completions?

A Yes, it does.

Q And the same type of equipment used?

A Yes.

Q What fields would those be, Mr. Curry?

A This would be the Fowler Pool, the Blinebry Pool, the Paddock and Drinkard Pools of Lea County, New Mexico.

Q Were Exhibits 1, 2 and 3 prepared by you or under your supervision?

A Yes, they were.

MR. KELLAHIN: At this time, I offer in evidence Exhibits 1, 2 and 3.

MR. NUTTER: Applicants Exhibits 1, 2 and 3 will be admitted in these cases.

MR. KELLAHIN: That concludes the direct examination of the witness, Mr. Nutter.

CROSS EXAMINATION

BY MR. NUTTER:

Q Mr. Curry, I notice there's quite a difference in the potential as far as the two wells are concerned in the upper pool, that's the Blinebry.

A Yes.

Q What is the reason for that difference? I notice they've both got about four or 500 feet of perforations.

9

A I think the principal difference there is the amount of loader oil, the time after completing the wells, the extent to which they've been cleaned up.

Q You think that they both actually are pretty similar in productivity?

A Yes, they are.

Q Now, this would also then account for the difference in the GORs; in other words, the high GOR is on the well that made the most oil and that wouldn't account for it, would it?

A The Blinebry Formation is a rather complex thing and I'm not sure I can explain or shall I even attempt to explain this. The rate at which we flow these wells, more or less, controls the GOR and they are actually produced at a rate and in such a manner to maintain as low a GOR in actual practice as we practically can.

Q What is the GOR limit for the Teague Blinebry Pool, do you know?

A The GOR limit for the Teague Blinebry Pool at this time falls under the Statewide rules which is 2,000 to one.

Q And the Solar well has a GOR of 2,600, so it's going to be a penalized well unless that GOR is brought down.

A Yes, it is. We can intermit this well and produce it actually below the GOR set for Statewide rules at this time.

However, I'd like to point out this is the only field producing from the Blinbry Formation in the State with which I am familiar that falls under Statewide rules.

Q Now, on this packer leakage test, you didn't have a GOR on the Solar well for the Tubb Drinkard. Have you ever gotten a GOR for that one yet?

A I think this will be produced. We have potentialed the well and tested it but our tests were taken not on continuous recording instruments.

Q Now, you do have the gravity for both zones. What about bottom hole pressures for the two zones?

A We have a bottom hole pressure for each of the zones in the field. I don't have the exact figures available here right at this time. They are, I'll say, 200 to 300 pounds difference.

Q Could you furnish us with those bottom hole pressures of the two zones?

A We'll be glad to, yes.

MR. NUTTER: Are there any other questions of Mr. Curry? He may be excused. Do you have anything further, Mr. Kellahin?

MR. KELLAHIN: That's all, Mr. Nutter. Thank you.

MR. NUTTER: Does anyone have anything they wish to offer in Case Number 3809 or 3810? We'll take the cases under advisement.

I N D E XPAGEWITNESS

MAX E. CURRY

Direct Examination by Mr. Kellahin

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Cross Examination by Mr. Nutter

8

E X H I B I T SNumbers

Applicants Exhibits 1, 2 and 3

Marked for
Identification

6

Received in
Evidence

8

STATE OF NEW MEXICO)
)
 COUNTY OF BERNALILLO)

I, CHARLOTTE MACIAS, a Notary Public in and for the County of Bernalillo, State of New Mexico, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me; and that the same is a true and correct record of the said proceedings, to the best of my knowledge, skill and ability.

Charlotte Macias
 Notary Public

My Commission Expires:

February 10, 1971.

I do hereby certify that the foregoing is a complete record of the proceedings in the Examiner hearing of Case No. 3209-3810 heard by me on 7/27 19 68.

Examiner
 New Mexico Oil Conservation Commission

SOLAR OIL COMPANY

MIDLAND, TEXAS
2101 W. TEXAS AVE.
P. O. BOX 5114 AC 915 MU 2-2031

MAX E. CURRY
DAROYL R. CURRY

August 15, 1968

*File 9/10/68
Case 9/10/68*

Mr. Dan Nutter
New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Re: Bottom Hole Pressure Survey
Teague (Blinbry) Oil Pool
Lea County, New Mexico

Dear Dan:

Enclosed is a Bottom Hole Pressure Survey Report taken August 6, 1968 on Solar Oil Company's Elk State Well No. 2. The well had been shut in for a total of 144 hours and was completely stabilized. This pressure should be very close to the original bottom hole pressure as the area is newly developed and the subject well has produced less than 500 barrels of oil.

This information is submitted directly to you for your information and file in compliance with a request made during the Solar Oil Company and Bronco Oil Corporation's combined hearing relative to the dual completion order in the subject field. If you require any further information on this matter, please advise and we will be happy to supply any data that we may have.

Yours very truly,

SOLAR OIL COMPANY

Max E. Curry
Max E. Curry

MEC/rw

RECEIVED
AUG 16 1968

JOHN W. WEST ENGINEERING COMPANY
412 NORTH DAL PASO, HOBBS, NEW MEXICO

TELEPHONES 3-3942
3-6770

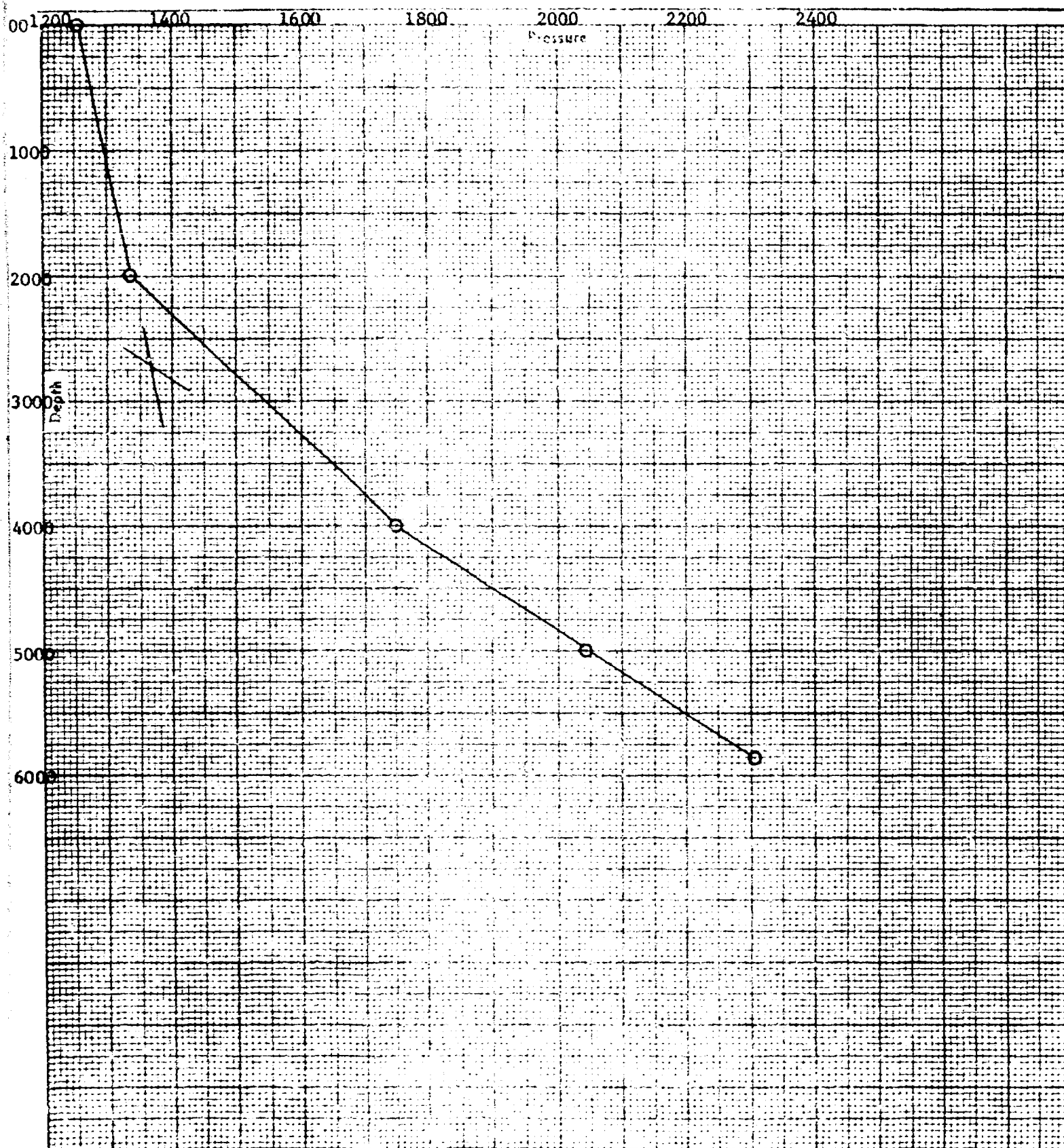
BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR SOLAR OIL COMPANY
LEASE ELK STATE 1
WELL NO. 2
FIELD
DATE 8-6-68 TIME 4:55 PM

DEPTH	PRESSURE	GRADIENT
000	1256	
2000	1334	.039
4000	1750	.208
5000	2044	.294
5856	2304	.304

STATUS Shut-in TEST DEPTH 5856'
TIME SI 144 Hours LAST TEST DATE
CAS. PRES. BHP LAST TEST
TUB. PRES. 1256 BHP CHARGE
ELEV. 3311 GR. FLUID TOP 3725'
DATUM WATER TOP
TEMP RUN BY DGT & BJT
CLOCK NO. 3130 GAUGE NO.
ELEMENT NO. 18948-N

*BHP @ 6150'
2398 psi.*



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

CASE { 3809
3810

EXHIBIT N^o2

Name Solar Oil Company		County Lea	Date 18 June 1968
Address Box 5114, Midland, Texas		Lease Travis	Well No. #2
Location of Well J	Section 21	Township 23-S	Range 37-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 _____
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	Blinebry		Tubb-Drinkard
b. Top and Bottom of Pay Section (Perforations)	5351-5804		6129-6221
c. Type of production (Oil or Gas)	Oil		Oil
d. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing

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

- | | | |
|-------------------------------------|-------------------------------------|---|
| Yes | No | |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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. |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 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.* |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> | 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.

Gulf Oil Corporation, Gulf Building, Midland, Texas

Bronco Oil Corporation, Vaughn Building, Midland, Texas

Resler & Sheldon, 801 West Texas, Artesia, New Mexico

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 _____.

CERTIFICATE: I, the undersigned, state that I am the Vice President of the Solar Oil Company (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.

(Signed) DAROYL R. CURRY

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 perforation unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRORATION OFFICE	

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

I.

Operator Solar Oil Company	
Address P. O. Box 5114, Midland, Texas	
Reason(s) for filing (Check proper box)	Other (Please explain)
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input type="checkbox"/>	Oil <input checked="" type="checkbox"/> Dry Gas <input type="checkbox"/>
Change in Ownership <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>

If change of ownership give name and address of previous owner _____

II. DESCRIPTION OF WELL AND LEASE

Lease Name G. G. Travis	Well No. 2	Pool Name, including Formation Undesignated Tubb	Kind of Lease State, Federal or Fee Fee	Lease No.
Location Unit Letter J ; 1980 Feet From The South Line and 1980 Feet From The East				
Line of Section 21 Township 23-S Range 37-E , NMPM, Lea County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input checked="" type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
Shell Pipe Line Company	Box 2099 Houston, Texas
Name of Authorized Transporter of Casinghead Gas <input checked="" type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)
El Paso Natural Gas	Box 1492 El Paso, Texas
If well produces oil or liquids, give location of tanks.	Unit Sec. Twp. Rge. Is gas actually connected? When
	J 21 23-S 37-E No

If this production is commingled with that from any other lease or pool, give commingling order number: _____

IV. COMPLETION DATA

Designate Type of Completion - (X)	Oil Well <input checked="" type="checkbox"/>	Gas Well	New Well <input checked="" type="checkbox"/>	Workover	Deepen	Plug Back	Same Res'tv.	Diff. Res'tv.
Date Spudded 11-9-67	Date Compl. Ready to Prod. 12-2-67	Total Depth 6303'		P.B.T.D. 6296'				
Elevations (DF, RKB, RT, GR, etc.) 3307 DF	Name of Producing Formation Tubb-Drinkard	Top Oil/Gas Pay 6119'		Tubing Depth 6278'				
Perforations				Depth Casing Shoe 6303'				
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE		DEPTH SET		SACKS CEMENT			
12 1/2"	9-5/8" 32#		1023'		300 SX.			
8-3/4"	7" 23# & 26#		6303'		500 SX.			
	2-3/8" EUE		5603'					
	2-3/8" EUE		6303'					

V. TEST DATA AND REQUEST FOR ALLOWABLE (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks 12-4-68	Date of Test 6-10-68	Producing Method (Flow, pump, gas lift, etc.) Flow	
Length of Test 24 hrs	Tubing Pressure 75#	Casing Pressure Pkr.	Choke Size 24/64"
Actual Prod. During Test 18	Oil-Bbls. 8	Water-Bbls. 10	Gas-MCF 7.6

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

(Signed) DAROYL R. CURRY

(Signature)

Vice President

(Title)

18 June 1968

(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY _____

TITLE _____

This form is to be filed in compliance with RULE 1104.

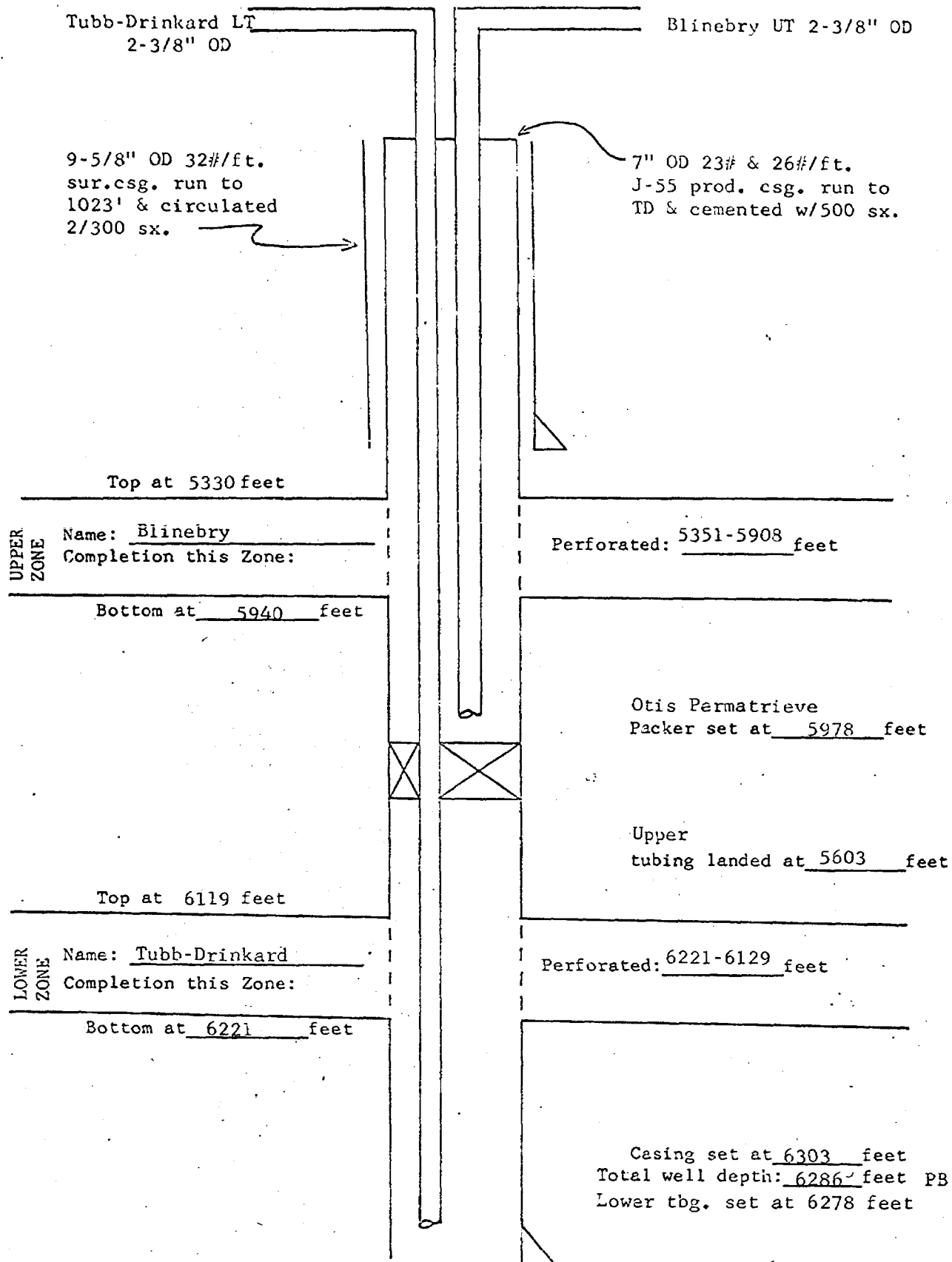
If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

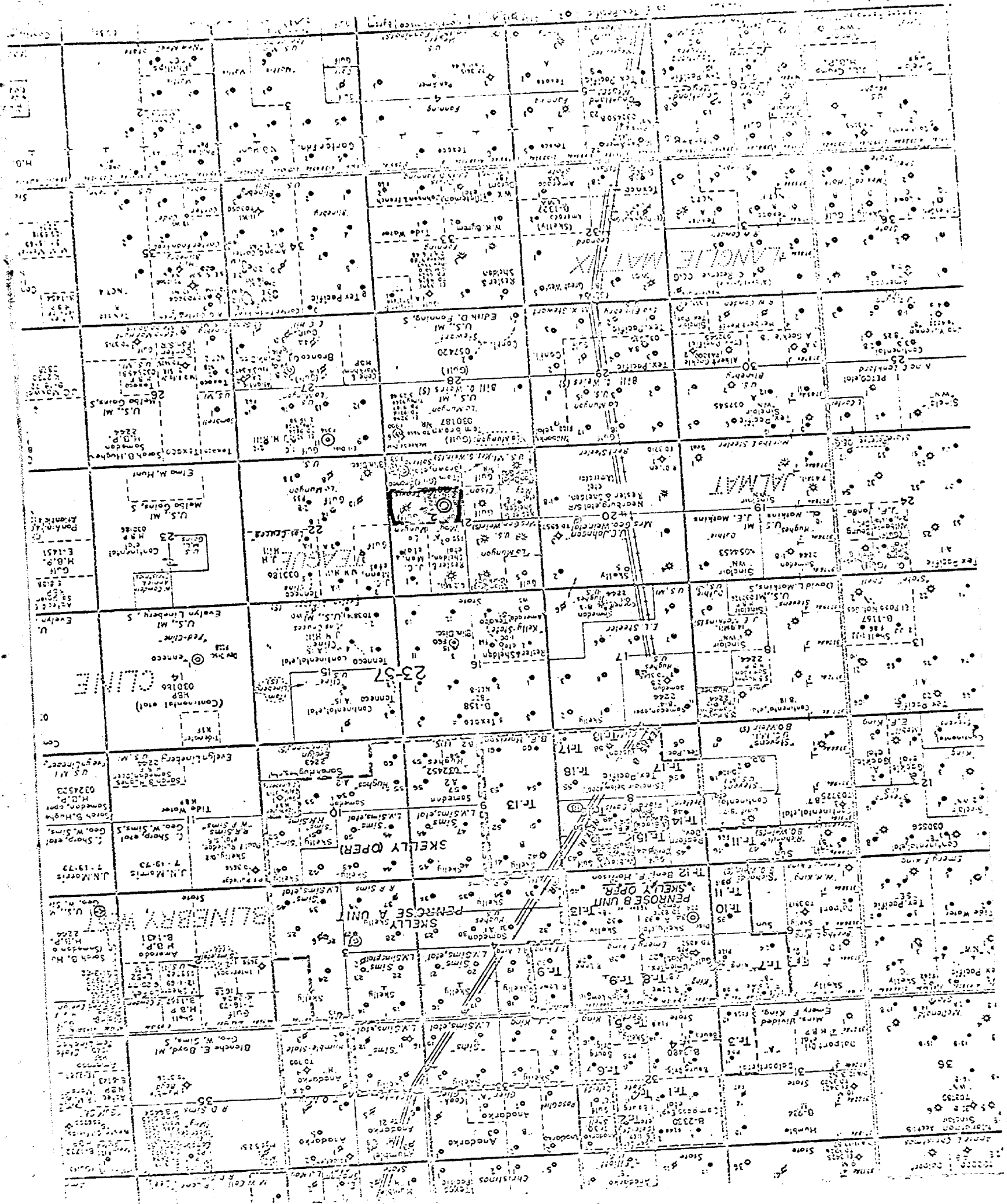
Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

DIAGRAMMATIC SKETCH SHOWING MULTIPLE COMPLETION INSTALLATION



DATE: 18 June 1968 OPERATOR: Solar Oil Company LEASE: Travis
POOL: Teague COUNTY: Lea WELL NO.: 2 J
Loc. Sec. 21, T-23-S, R-37-E



NEW MEXICO OIL CONSERVATION COMMISSION
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator Solar Oil Company			Lease Travis			Well No. 2	
Location of Well	Unit J	Sec 21	Twp 23-S	Rge 37-E	County Lea		
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	Blinebry		Oil	Flow	tbg.	15/64"	
Lower Compl	Tubbs		Oil	Flow	tbg.	28/64"	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 3-8-68 - 6:00 AM

	Upper Completion	Lower Completion
Well opened at (hour, date): 3-9-68 - 6:00 AM		
Indicate by (X) the zone producing.....	X	
Pressure at beginning of test.....	750	1420
Stabilized? (Yes or No).....	Yes	Yes
Maximum pressure during test.....	750	1420
Minimum pressure during test.....	750	1420
Pressure at conclusion of test.....	750	1420
Pressure change during test (Maximum minus Minimum).....	0	0
Was pressure change an increase or a decrease?.....	n/a	n/a
Well closed at (hour, date): 3-9-68 - 6:00 AM	Total Time On Production 24 hrs.	
Oil Production	Gas Production	
During Test: 165 bbls; Grav. 40.2 ; During Test 432 MCF/Day MCF; GOR 2618		
Remarks		

FLOW TEST NO. 2

	Upper Completion	Lower Completion
Well opened at (hour, date): 6:00 AM - 3-20-68		
Indicate by (X) the zone producing.....		X
Pressure at beginning of test.....	1075	1750
Stabilized? (Yes or No).....	Yes	Yes
Maximum pressure during test.....	1210	1750
Minimum pressure during test.....	1075	350
Pressure at conclusion of test.....	1210	350
Pressure change during test (Maximum minus Minimum).....	135	1400
Was pressure change an increase or a decrease?.....	Increase	Decrease
Well closed at (hour, date): 3-21-68 - 6:00 AM	Total time on Production 24 hrs.	
Oil Production	Gas Production	
During Test: 36 bbls; Grav. 39.6 ; During Test n/a MCF; GOR n/a		
Remarks		

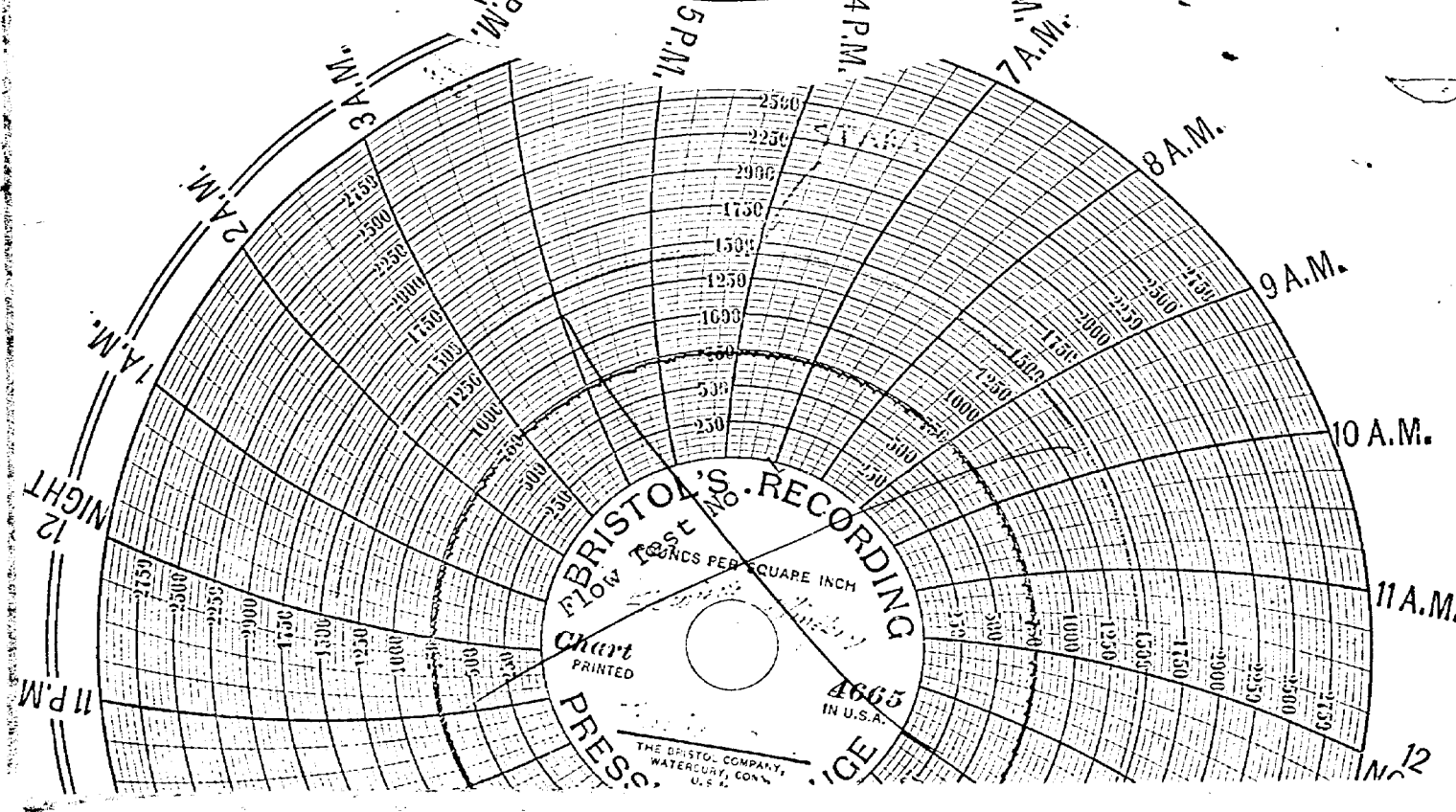
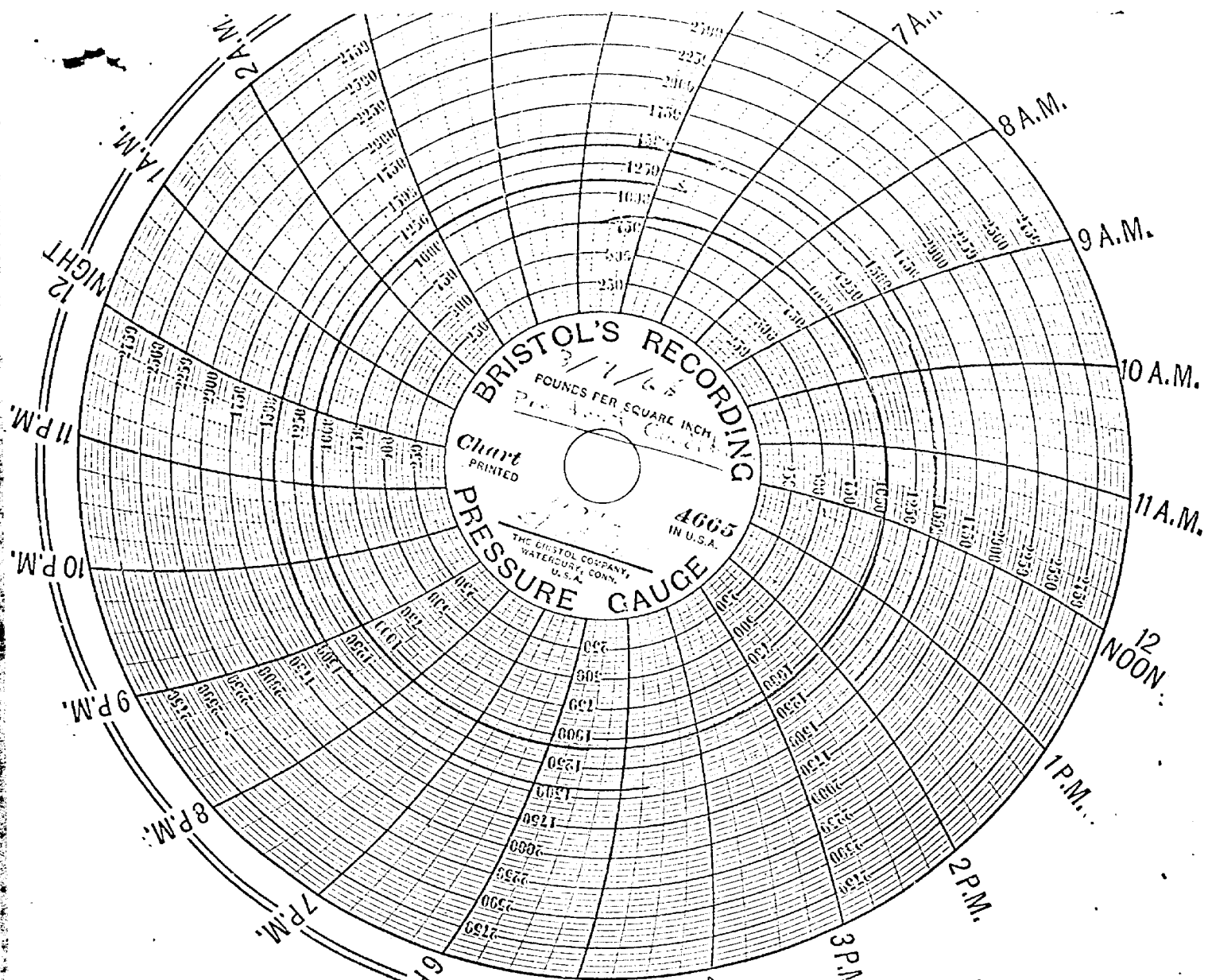
I hereby certify that the information herein contained is true and complete to the best of my knowledge.

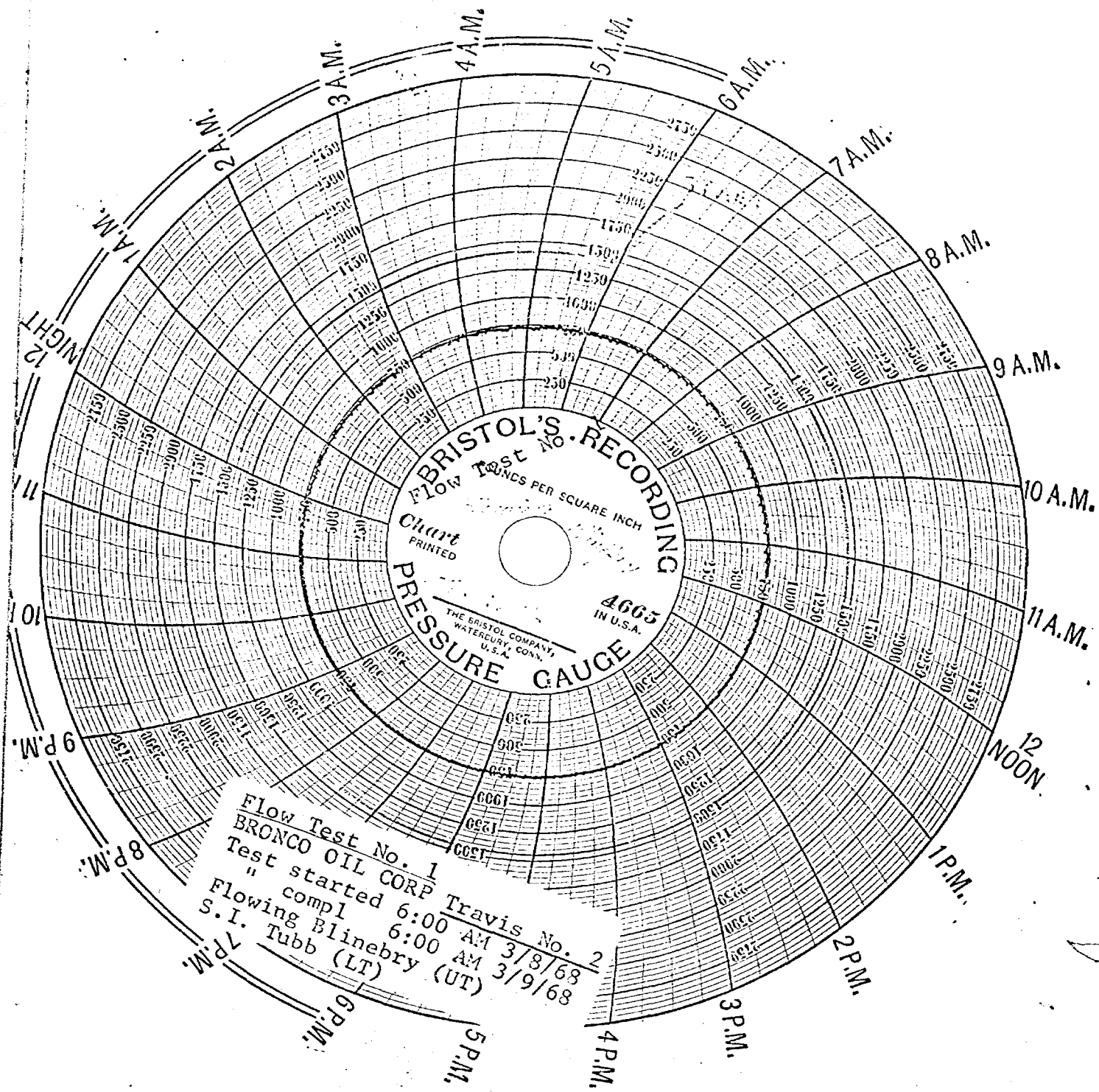
Approved _____ 19_____
New Mexico Oil Conservation Commission

Operator Solar Oil Company
By (Signed) DAROYL R. CUNRY

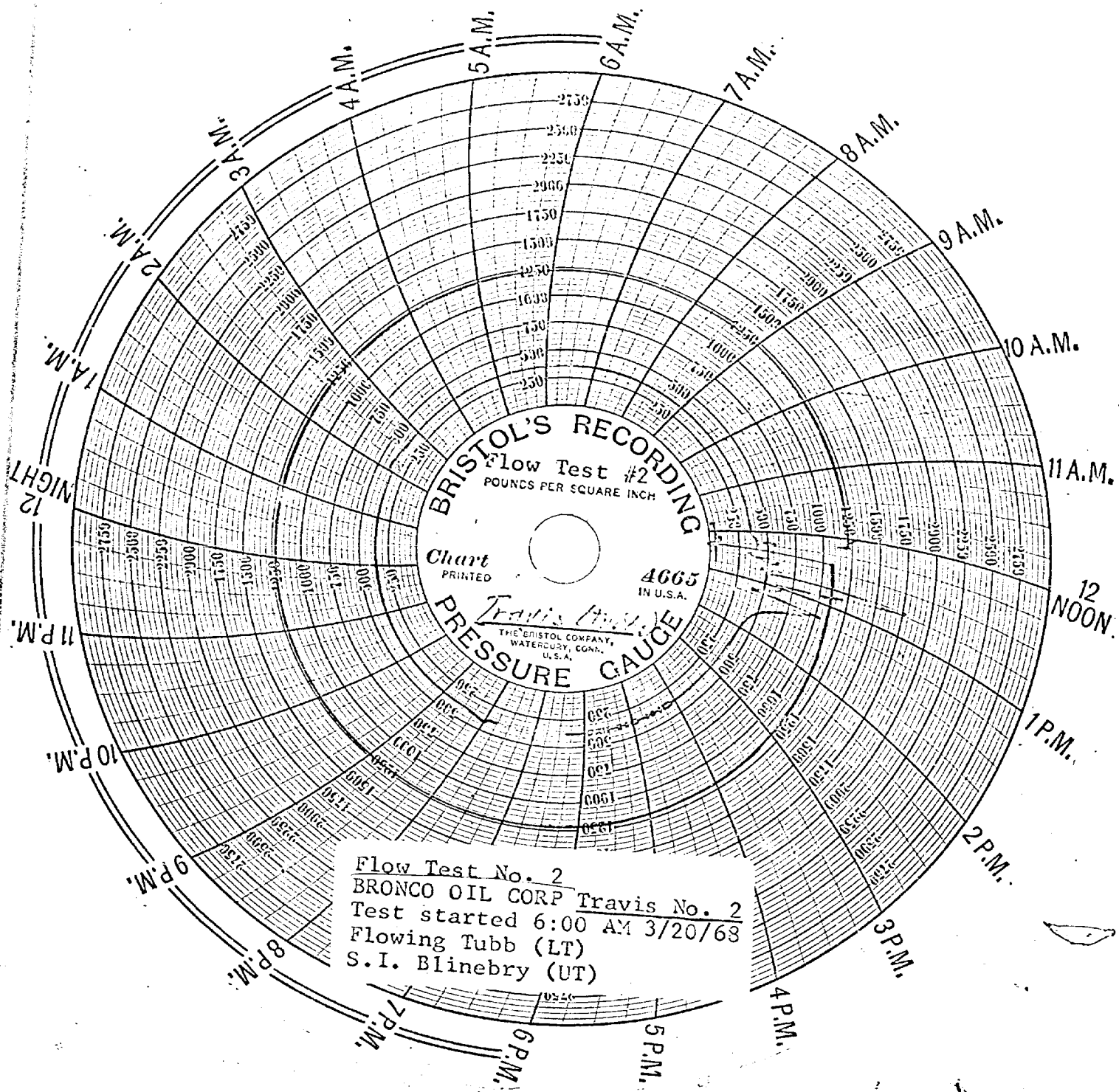
By _____
Title _____

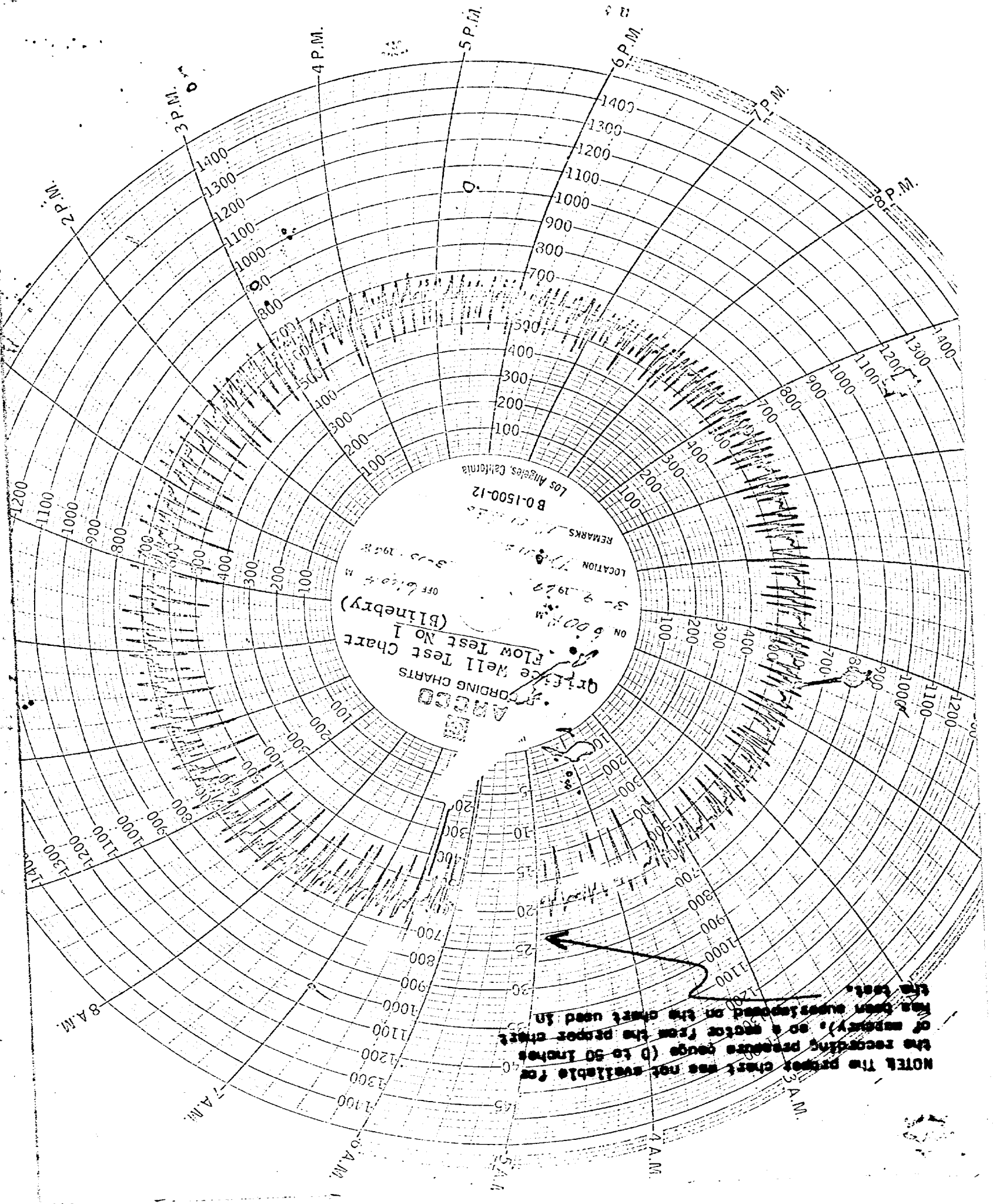
Title Vice President
Date 18 June 1968





Flow Test No. 1
BRONCO OIL CORP Travis No. 2
Test started 6:00 AM 3/8/68
" compl 6:00 AM 3/9/68
Flowing Blinebry (UT)
S.I. Tubb (LT)





NOTE: The pressure chart was not available for the recording pressure gauge (0 to 50 inches of mercury), so a sector from the paper chart has been superimposed on the chart used in the test.

