OIL CONSERVATION DIVISION
P. O. Box 2088
SANTA FE, NEW MEXICO
87501

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

ADMINISTRATIVE ORDER
NFL #81

INFILL DRILLING FINDINGS PURSUANT TO
SECTION 271.305(b) OF THE FEDERAL ENERGY REGULATORY
COMMISSION REGULATIONS, NATURAL GAS POLICY ACT OF 1978
AND OIL CONSERVATION DIVISION ORDER NO. R-6013-A

I.

Operator Doyle Hartman Well Name and No. Lankford Well No. 2

Location: Unit G Sec. 25 Twp. 23-S Rng. 36-E Cty. Lea

II.

THE DIVISION FINDS:

(1) That Section 271.305(b) of the Federal Energy Regulatory Commission Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for an infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find that the infill well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit.

(2) That by Order No. R-6013-A, dated February 8, 1980, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) That the well for which a finding is sought is completed in the Jalmat (Gas) Pool, and the standard spacing unit in said pool is 640 acres.

(4) That a 120 -acre proration unit comprising the S/2 NE/4 and NW/4 NE/4 of Sec. 25, Twp. 23 South, Rng. 36 East, is currently dedicated to the Lankford Well No. 1 located in Unit G of said section.

(5) That this proration unit is ( ) standard (X) nonstandard; if nonstandard, said unit was previously approved by Order No. R-520.

(6) That said proration unit is not being effectively and efficiently drained by the existing well(s) on the unit.

(7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 300,000 MCF of gas from the proration unit which would not otherwise be recovered.

(8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(9) That in order to permit effective and efficient drainage of said proration unit, the subject application should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant is hereby authorized to drill the well described in Section I above as an infill well on the existing proration unit described in Section II(4) above. The authorization for infill drilling granted by this order is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

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

DONE at Santa Fe, New Mexico, on this 19th day of April, 1984.

DIVISION DIRECTOR _____ EXAMINER _____

Application Rec'd 1/27/84
Sundence Date: Immediately

ATE OF NEW MEXICO
AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. Box 2088
SANTA FE, NEW MEXICO
87501

ADMINISTRATIVE ORDER

NFL #81

INFILL DRILLING FINDINGS PURSUANT TO
SECTION 271.305(b) OF THE FEDERAL ENERGY REGULATORY
COMMISSION REGULATIONS, NATURAL GAS POLICY ACT OF 1978
AND OIL CONSERVATION DIVISION ORDER NO. R-6013-A

I.

Operator Doyle Hartman Well Name and No. Lankford Well No. 2

Location: Unit G Sec. 25 Twp. 23-South Rng. 36-East Cty. Lea

II.

THE DIVISION FINDS:

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(4) That a 120 -acre proration unit comprising the S/2 NE/4 and NW/4 NE/4 of Sec. 25, Twp. 23 South, Rng. 36 East, is currently dedicated to the Lankford Well No. 1 located in Unit G of said section.

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(7) That the drilling and completion of the well for which a finding is sought should result in the production of an additional 300,000 MCF of gas from the proration unit which would not otherwise be recovered.

(8) That all the requirements of Order No. R-6013-A have been complied with, and that the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

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IT IS THEREFORE ORDERED:

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

DONE at Santa Fe, New Mexico, on this _____ day of _____, 19_____.

DIVISION DIRECTOR ___ EXAMINER ___

DOYLE HARTMAN
Oil Operator
500 N. MAIN
P. O. BOX 10426
MIDLAND, TEXAS 79702

(915) 684-4011

March 16, 1984

State of New Mexico
Energy & Minerals Department
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Michael Stogner

Re: Infill Finding
Lankford No. 2
1980 FNL & 1980 FEL (G)
Section 25, T-23-S, R-36-E
Lea County, New Mexico

Gentlemen:

By letter dated January 25, 1984 (received by the Commission on January 25, 1984,) we requested administrative approval of our Lankford No. 2 as an infill well on the 120-acre Jalmat (Gas) proration unit consisting of NW/4 NE/4 and S/2 NE/4 Section 25, T-23-S, R-36-E, Lea County, New Mexico.

Inasmuch as we have not yet received a finding with regard to our administrative request, please let us know if we can furnish any further information to expedite the finding.

We appreciate your prompt attention to this matter.

Very truly yours,

DOYLE HARTMAN

Michelle Hembree

Michelle Hembree
Administrative Assistant

MH/dm

cc: Campbell, Byrd & Black
P. O. Box 2208
Santa Fe, New Mexico 87501

Attention: Mr. William F. Carr

DOYLE HARTMAN
Oil Operator
500 N. MAIN
P. O. BOX 10426
MIDLAND, TEXAS 79702

(915) 684-4011

January 25, 1984

RECEIVED
JAN 27 1984
OIL CONSERVATION DIVISION
SANTA FE

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Michael Stogner

Re: Administrative Procedure
Infill Finding
Lankford No. 2
1980 FNL & 1980 FEL (G)
Section 25, T-23-S, R-36-E
Lea County, New Mexico

Gentlemen:

Pursuant to Section 271.305 of the Final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978, and to Order R-6013-A of the New Mexico Oil Conservation Division, we hereby request an infill finding (NFL) for the above captioned Lankford No. 2 located 1980 FNL & 1980 FEL (G) Section 25, T-23-S, R-36-E, Lea County, New Mexico.

With regard to our request, and in accordance with Order R-6013-A, we submit the following:

Rule 5 — A copy of approved Form C-101 for the infill well and Form C-102 showing the proration unit dedicated to the well are enclosed.

Rule 6 — The name of the pool in which the infill well has been drilled is Jalmat (Gas) Pool, and the standard spacing unit therefor is 640 acres.

X Rule 7 — The number of the Administrative Order approving the simultaneous dedication and 120-acre non-standard proration unit dedicated to the well is SD-84-1.

Rule 8 — Table 1 attached to William P. Aycock's letter dated January 20, 1984 shows the following:

a. Lease name and well location;
b. Spud date;
c. completion date;

d. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
e. the current rate of production;
f. date of plug and abandonment, if any, and;
g. a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the proration.

Rule 9 Letter dated January 20, 1984 from William P. Aycock submits geological and engineering information sufficient to support a finding as to the necessity for an infill well including:

a. formation structure map;

b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined;

c. any other supporting data which the applicant deems to be relevant which may include:

1. porosity and permeability factors
2. Production/pressure decline curve
3. effects of secondary recovery or pressure maintenance operations
4. C-104 and C-105 (including Inclination Report)
5. Scout Ticket and Well Log Summary for Doyle Hartman's Lankford No. 2 (Infill Jalmat (Gas) Well)
6. Scout Ticket and Well Log Summary for Doyle Hartman's Lankford No. 1.

Rule 10 This application for infill finding is being filed in duplicate with the Santa Fe office of the Oil Conservation Division.

Rule 11 All operators of proration or spacing units offsetting the unit for which this infill finding is sought have been notified of this application by certified or registered mail.

We respectfully request that the Commission grant our request for an infill finding pursuant to Order R-6013-A.

Very truly yours,

DOYLE HARTMAN

Michelle Hembree

Michelle Hembree
Administrative Assistant

/mh

Enclosures as above

cc: Mr. William F. Carr
Campbell, Byrd and Black, P.A.
Post Office Box 2208
Santa Fe, New Mexico 87501

WILLIAM P. AYCOCK & ASSOCIATES, INC.
Petroleum Engineering Consultants
308 WALL TOWERS WEST
MIDLAND, TEXAS 79701
PHONE 915/683-5721

January 20, 1984

New Mexico Department of Energy and Minerals,
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Subject: Administrative Application for Infill Well Findings for Doyle Hartman's Lankford No. 2 Well, Section 25, Township 23 South, Range 36 East, Jalmat Pool, Lea County, New Mexico

Gentlemen:

Application is hereby made for an administrative infill well finding effective with initial gas deliveries for the described well. In accordance with Exhibit "A", Order R-6013-A, the following are furnished:

Rule 5: Attached are copies of the Forms C-101 and C-102 for the application well.

Rule 6: The name of the pool in which the infill well has been drilled is the Jalmat Pool, and the standard spacing therefore is 640 acres per well.

Rule 7: The non-standard proration unit and unorthodox well location and simultaneous dedication were approved administratively by Order SD-84-1 dated October 17, 1983, a copy of which is attached hereto.

Rule 8: Sections "a." through "f." are included on the attached "Summary of Required Information, Rule 8, Exhibit "A", Order No. R-6013-A.

Section "g." requires "...a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the proration unit." The Jalmat Pool reserviors beneath the described proration unit were (Prior to the drilling and completion of the "application well") assigned to the Doyle Hartman (Petroleum Corporation of Texas) Lankford No. 1 well, located in Unit G of Section 25, Twp. 23 South, Range 36 East @1650' FS&EL. This well was originally completed December 24, 1949, from Langlie-Mattix Pool open hole between depths of 3485 feet and 3635 feet; the well was dually completed with the Jalmat Pool, between depths of 2955 and 3190 feet, in February, 1950. The Jalmat Pool completion had an absolute potential of 13,700 MCF/D. The last production from the Langlie-Mattix Pool interval was in May, 1959; This well has been a singly completed Jalmat Pool gas well since that time. As of January 1, 1984, the Jalmat Pool completion had produced an accumulated gas volume of 5626.4 MMCF and was producing at a rate of approximately 35 MCF per day.

The observed wellhead shut-in pressures from the pre-existing well and the application well indicate that the pre-existing well was not effectively and efficiently draining the 120-acre proration unit simultaneously dedicated to the pre-existing and application wells; because of both the variation in effective permeability and the length of time the Jalmat Pool Yates and Seven Rivers geologic intervals have been produced in the vicinity of the application well, the interpretation of observed static pressures is not straight forward. Doyle Hartman's considerable experience in the Jalmat Pool under contemporary conditions is that, depending upon the degree of formation damage existing subsequent to drilling a well and setting and cementing casing in the well, the most representative initial shut-in wellhead pressures may be observed either immediately after clean up of the initial acid breakdown or after hydraulic fracture treatment. Further, apparent cross flow of gas from less depleted to more depleted intervals within the Jalmat Pool occurs at the same time, and such cross flow effectively substantially reduces the observed pressure. Accordingly, the following pressures were observed for the pre-existing and application wells.

WELL	DATE	OBSERVED SHUT-IN WELLHEAD PRESSURE, PSIA
Lankford 1	July 13, 1982	97.2
Lankford 1*	December 31, 1983	84.4
Lankford 2	January 3, 1984	104.2
Lankford 2**	January 17, 1984	208.2
Lankford 2	January 18, 1984	121.2

*Estimated from prior BHP/Z as function of cumulative gas.

**Peak flowing casing pressure subsequent to unloading fluid after formation gas was produced subsequent to hydraulic fracture treatment. The actual shut-in could be equal to or greater than the observed 208.2 psia

Therefore the wellhead pressures observed while completing the Lankford No. 2 are between 20.0 psia and 123.8 psia greater than the estimated shut-in wellhead pressure at December 31, 1983 for the Lankford No. 1, indicating ineffective and inefficient drainage from the 120-acre proration unit assigned simultaneously to the Lankford No. 1 and the Lankford No. 2.

Rule 9:

Section "a." requires that a formation structure map be submitted; attached is a Yates formation structure map of that portion of the Jalmat Pool including and immediately surrounding NW/4 NE/4 and S/2 NE/4 Section 25, Twp. 23 South, Range 36 East.

Section "b." requires that the "volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined " be submitted. The estimated ultimate gas recovery for the Doyle Hartman Lankford No. 2 well is at least 127 MMCF and could be equal to or greater than 456 MMCF. The estimates of increased ultimate recovery for the application wells were accomplished as follows:

(1) Well logs for the Hartman Lankford No. 2 were analyzed, with results summarized as follows:

Mean Porosity, Fraction of Bulk Volume	0.173
Mean Connate Water Saturation, Fraction of Net Effective Pore Volume	0.243
Net Effective Pay Thickness, Feet	86.

The gross pay interval consistent with the above is 156', so the ratio of net effective pay to gross pay is 86 divided by 156 or about 55 percent.

(2) The production tests for the Hartman Lankford No. 2 dated January 19 & 20, 1984, were analyzed, with results summarized as follows:

Stabilized Deliverability Coefficient, MCF/day per psia/2	0.126896	0.0214076
Initial Stabilized Well-head Shut-in Pressure (Pc), psia	121.2	208.2
Initial Gas Formation Volume Factor, scf/rcf	8.103	14.149

(3) The results of steps (1) and (2) were then combined, resulting in the following:

Original Gas-in-place		
MMCF/Acre	3.98	6.95
MMCF/120 Acres	478	834
Est. Gas Rec. Factor, Fcn. of O.G.I.P.	0.631	0.756
Est. Ult. Recovery, MMCF per 120 Acres	302	631

The estimated increased gas recovery is then the difference in these estimated remaining gas recovery for the Lankford No. 1 at December 31, 1983 of 174.8 MMCF:

302	631
-175	-175
127MMCF	456MMCF

The economic limit of production based on Doyle Hartman's experience in the Jalmat Pool is about 500 MCF per month.

Section "c." other supporting data submitted include the following:

Gas Production History Tabulation and Graph for both Doyle Hartman (Petroleum Corporation of Texas) Lankford No. 2, (the pre-existing well), and the Conoco Lynn "B"-25 No. 1 located in unit (J) 25-23S, 36E (the nearby key well).

Complete New Mexico Oil Conservation Division (NMOCD) forms on file for both the pre-existing and application wells.

New Mexico Oil Conservation Division Order No. SD-84-1

Daily drilling reports for the period January 18-20, 1984.

We believe that this information adequately documents this application; however, we should be pleased to supply you anything else that you might require in this connection.

Very truly yours,

Wm. P. Aycock, P. E.

WPA/vkf
Attachments

TABLE NO. 1

SUMMARY OF REQUIRED INFORMATION, RULE 8, EXHIBIT "A", ORDER R-6013-A,
(Sections "a." through "f.")
NATURAL GAS POLICY ACT INFILL FINDINGS, ADMINISTRATIVE PROCEDURE

SECTION OF RULE 8	RULE 8 REQUIREMENT	PRE-EXISTING WELL DOYLE HARTMAN, OPERATOR*	INFILL APPLICATION WELL DOYLE HARTMAN, OPERATOR
a.	Lease Name and Well Location	Lankford No. 1 1650' FNL & 1650' FEL 25-23S-36E	Lankford No. 2 1980' FNL & 1980' FEL 25-23S-36E
b.	Spud Date	October 21, 1949	December 17, 1983
c.	Completion Date	December 24, 1949	January 3, 1984
d.	Mechanical Problems	None	None
e.	Current Rate of Production	Approx. 35 MCF/D	Production Test subsequent to fracture treatment: 386 to 738 MCF/D

Originally completed by Culbertson/White Sand; Petroleum Corporation of Texas prior to operations assumed by Doyle Hartman.

30-025-28431

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LAND OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease: STATE [ ] FEE [X]

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well: OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. Unit Agreement Name

8. Farm or Lease Name: Lankford

2. Name of Operator: Doyle Hartman

9. Well No.: 2

3. Address of Operator: Post Office Box 10426, Midland, Texas 79702

10. Field and Pool, or Wildcat: Jalmat (Gas)

4. Location of Well: UNIT LETTER G LOCATED 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE OF SEC. 25 TWP. 23S RGE. 36E NMPM

12. County: Lea

RECEIVED JAN 27 1984 OIL CONSERVATION DIVISION SANTA FE

19. Proposed Depth	19A. Formation	20. Rotary or C.T.
3700	Yates-Seven Rivers	Rotary

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
3348.5 G.L.	Multi-Well Approved	Not Selected	November, 1983

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	9 5/8	36.0	400	500	Surface
8 3/4	7	23.0	3700	800	Surface

The proposed well will be drilled to a total depth of 3700 feet and will be completed as a Jalmat (Yates-Seven Rivers) Gas producer. From the base of the surface pipe through the running of the production casing, the well will be equipped with a 3000-psi double ram BOP system.

NOTE: Any gas produced from the proposed well has previously been dedicated to El Paso Natural Gas Company.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 4/26/84
UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Larry A. Nemo Title Engineer Date October 11, 1983

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE OCT 27 1983

CONDITIONS OF APPROVAL, IF ANY:

OCT 28 1983

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
DOYLE HARTMAN	LANKFORD	2

Unit Letter	Section	Township	Range	County
G	25	23 SOUTH	36 EAST	LEA

Actual Footage Location of Well:
1980 feet from the NORTH line and 1980 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3348.5	Yates-Seven Rivers	Jalmat (Gas)	120 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

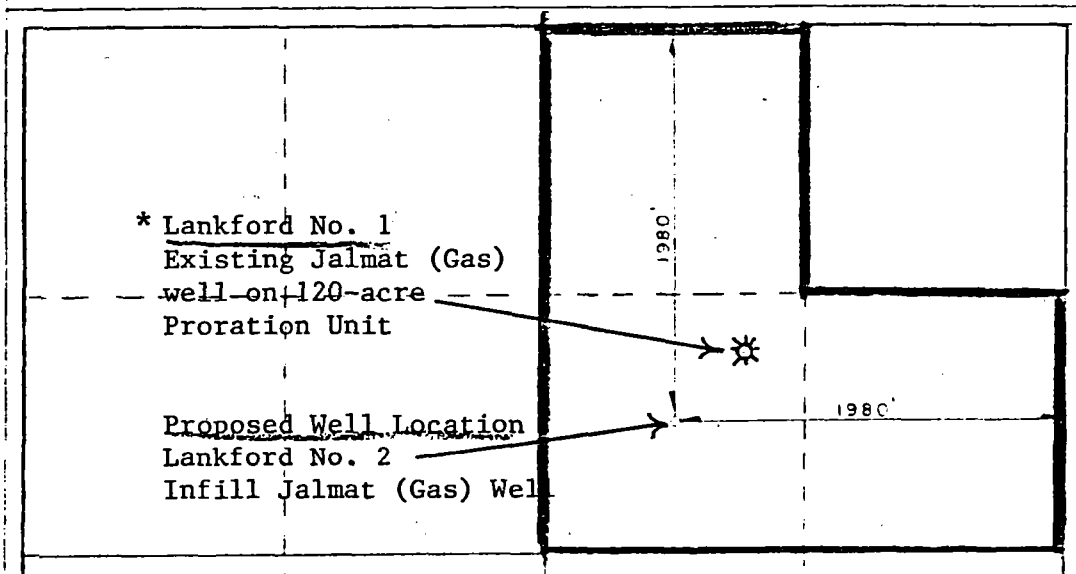
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling. etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



*NOTE: A study is presently being performed to determine the feasibility of recompleting the Lankford No. 1 to the Langlie Mattix interval.

RECEIVED
JAN 17 1984
OIL CONSERVATION DIVISION
SANTA FE

PROFESSIONAL ENGINEER & LAND SURVEYOR
STATE OF NEW MEXICO
JOHN W. WEST

CERTIFICATION

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

Name: Larry A. Nermyr

Signature: Larry A. Nermyr

Position: Engineer

Company: Doyle Hartman

Date: October 12, 1983

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: OCTOBER 4, 1983

Registered Professional Engineer and/or Land Surveyor

Certificate No. 676

STATE OF NEW MEXICO

ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

October 17, 1983

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Doyle Hartman
P. O. Box 10426
Midland, Texas 79702

Attention: Michelle Hembree

Administrative Order SD-84-1

Gentlemen:

You are hereby authorized to simultaneously dedicate an existing 120-acre non-standard proration unit comprising the NW/4 NE/4 and S/2 NE/4 of Section 25, Township 23 South, Range 36 East, NMPM, Lea County, to your Lankford Well No. 1 located at a point 1650 feet from the North line and 1650 feet from the East line of said Section 25, and your Lankford Well No. 2 to be located 1980 feet from the North line and 1980 feet from the East line of said Section 25, both in Township 23 South, Range 36 East, NMPM, Jalmat Gas Pool, Lea County, New Mexico.

Further, you are hereby permitted to produce the allowable from any of the wells on the proration unit in any proportion.

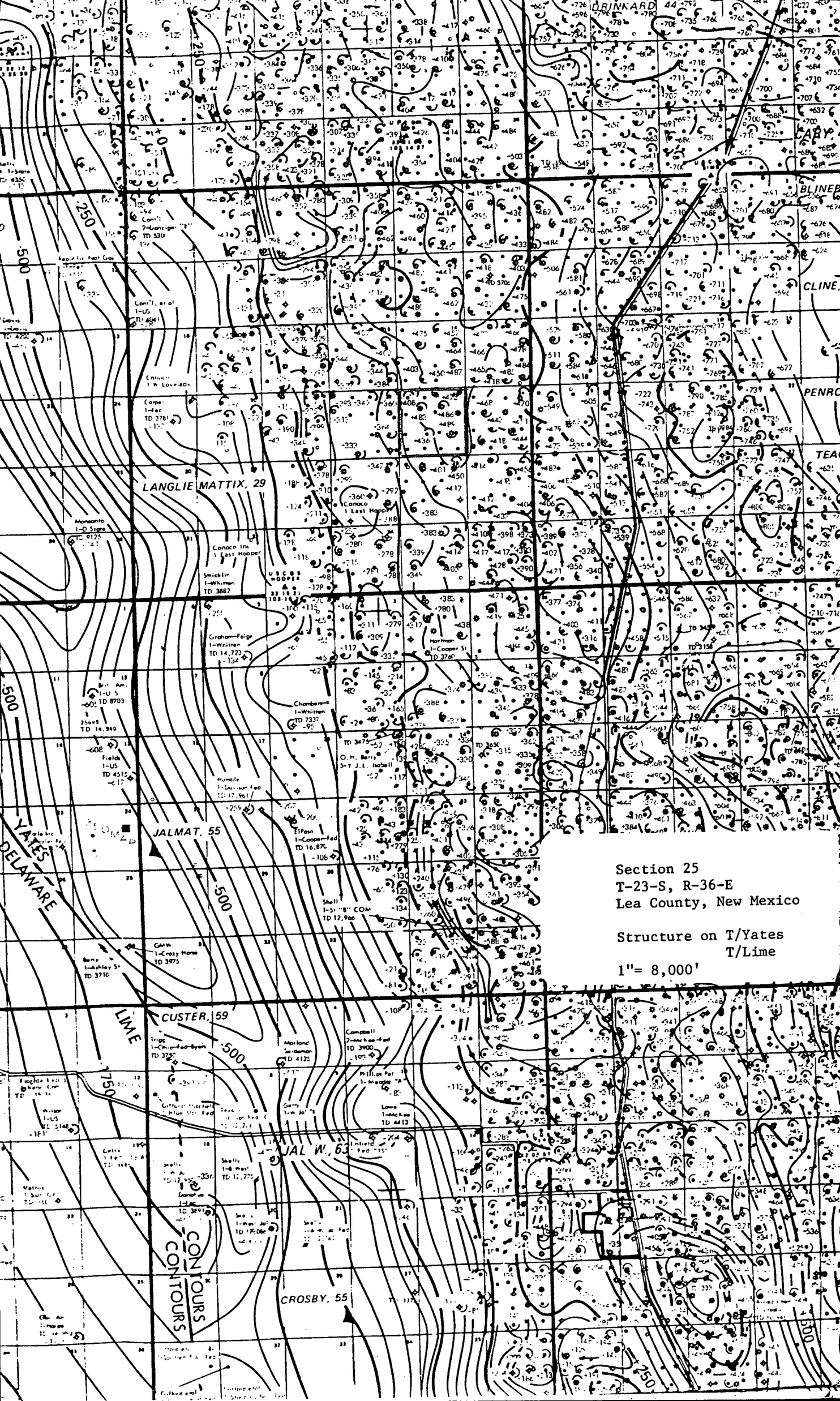
Sincerely,

JOE D. RAMEY,
Director

dr/

cc: Oil Conservation Division - Hobbs
Oil and Gas Engineering Committee - Hobbs
Bureau of Land Management - Hobbs

OCT 20 1983


DRINKARD
LANGLIE MATTIX, 29
JALMAT, 55
CUSTER, 59
JAL W., 63
CROSBY, 55
YATES
DELAWARE
LIME
CONTOURS
CONTOURS
Section 25
T-23-S, R-36-E
Lea County, New Mexico
Structure on T/Yates
T/Lime
1"= 8,000'

FER

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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-
Effective 1-1-65

I.

Operator: Doyle Hartman

Address: Post Office Box 10426, Midland, Texas 79702

Reason(s) for filing (Check proper box)

New Well [X]
Recompletion [ ]
Change in Ownership [ ]

Change in Transporter of:
Oil [ ] Dry Gas [ ]
Casinghead Gas [ ] Condensate [ ]

Other (Please explain)

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

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Lankford	2	Jalmat (Gas) Yates-7 Rivers	State, Federal or Fee: Fee	

Location

Unit Letter: G ; 1980 Feet From The North Line and 1980 Feet From The East

Line of Section 25 Township 23S Range 36E , NMPM, Lea County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil [ ] or Condensate [ ] — Address (Give address to which approved copy of this form is to be sent)

Name of Authorized Transporter of Casinghead Gas [ ] or Dry Gas [X] — Address (Give address to which approved copy of this form is to be sent)

El Paso Natural Gas Company — Two Petroleum Center, Suite 200, Midland, TX 79705

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
					No	ASAP

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	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
12-17-83	1-3-84	3700	3697
Elevations (DF, RKB, RT, GR, etc.)	**Name of Producing Formation**	**Top Oil/Gas Pay**	**Tubing Depth**
3348.5 G.L.	Yates-Seven Rivers	2962	3080

Perforations	Depth Casing Shoe
2962-3239 w/22 holes (Yates-Seven Rivers)	3700

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12-1/4	9-5/8	400	250 (circ)
8-3/4	7	3700	850 (circ)

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)

OIL WELL

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
58	24 hours	----	----
Testing Method (pitot, back pr.)	**Tubing Pressure (Shut-in)**	**Casing Pressure (Shut-in)**	**Choke Size**
Orifice Tester	SITP= 91, FTP= 60	SICP= 91, FCP= 60	12/64

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.

Michelle Hembree
(Signature)

Administrative Assistant
(Title)

January 4, 1984
(Date)

OIL CONSERVATION COMMISSION

APPROVED _____, 19 _____

BY _____

TITLE _____

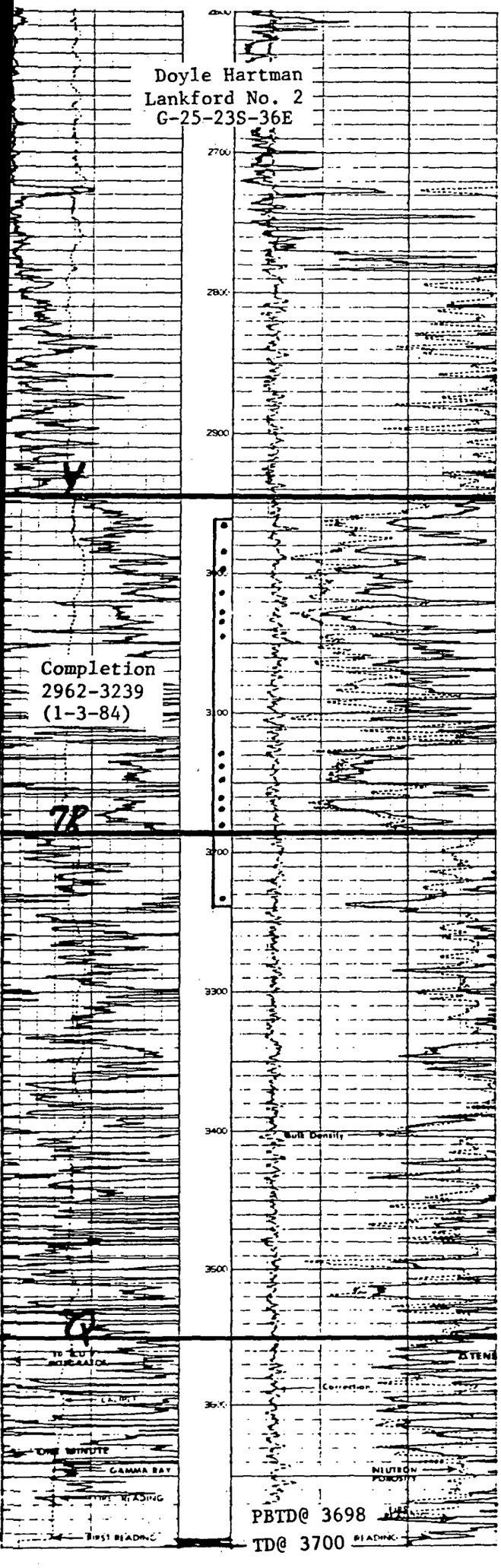
This form is to be filed in compliance with RULE 1104.

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.



G-25-23S-36E

COMPANY	Doyle Hartman
WELL	Lankford No. 2
FIELD	Jalmat (Gas)
LOCATION	1980 FNL & 1980 FEL (G)
	Section 25, T-23-S, R-36-E
	(23-36-25-G)
COUNTY	Lea
STATE	New Mexico
ELEVATIONS:	KB
	DF
	GL 3348.5

COMPLETION RECORD

SPUD DATE	12-17-83	COMP. DATE	1-3-84
TD	3700	PBTD	3697
CASING RECORD	9-5/8 @ 400 w/250		
	7 @ 3700 w/850		
PERFORATING RECORD	Perf: 2962-3239 w/22		
STIMULATION	A/6000		
IP	IPF= 58 MCFPD		
GOR		GR	
TP	60	CP	60
CHOKE	12/64"	TUBING	2-3/8 @ 3080

REMARKS

1-18-84: SF/110,950 + 253,000. F/406 MCFPD.

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LAND OFFICE	
OPERATOR	

Form C-105
Revised 10-1-78

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [ ] Fee [X]

5b. State Oil & Gas Lease No.

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] DRY [ ] OTHER

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ]

RECEIVED JAN 27 1984 OIL CONSERVATION DIVISION SANTA FE

7. Unit Agreement Name

8. Farm or Lease Name: Lankford

2. Name of Operator: Doyle Hartman

9. Well No.: 2

3. Address of Operator: Post Office Box 10426, Midland, Texas 79702

10. Field and Pool, or Wildcat: Jalmat (Gas)

4. Location of Well

UNIT LETTER G LOCATED 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE OF SEC. 25 TWP. 23S RGE. 36E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
12-17-83	12-23-83	1-3-84	3348.5 G.L.	3348

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
3700	3697	---	→	0-3700	----

24. Producing Interval(s), of this completion — Top, Bottom, Name: 2962-3239 (Yates-Seven Rivers)

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: CDD-SNL, Guard-Forxo

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8	36	400	12-1/4	250 (circ)	None
7	23	3700 RKB	8-3/4	850 (circ)	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8	3080	None

31. Perforation Record (Interval, size and number)

22 shots with one shot each at:
2962, 2965, 2982, 2984, 2997, 2999, 3014, 3027, 3030, 3033, 3045, 3127, 3129, 3138, 3145, 3148, 3163, 3166, 3169, 3181, 3237, 3239

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
2962-3239	A/6000 gals 15% MCA

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
1-3-84	Pumping	Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
1-3-84	24	12/64	→	---	58	----	----

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
60	60	→	----	58	----	----

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Vented

Test Witnessed By: L. Nermyr

35. List of Attachments: Inclination Report, C-104

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Michelle Nemyer TITLE Administrative Assistant DATE Jan. 4, 1984

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radioactivity logs on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy	1183	T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt	1280	T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt	2785	T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates	2946	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers	3186	T. Devonian		T. Menefee		T. Madison	
T. Queen	3550	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta		T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo		T. Bone Springs		T. Wingate		T.	
T. Wolfcamp		T.		T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T. Cisco (Bough C)		T.		T. Penn. "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from 2962 to 3239 No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

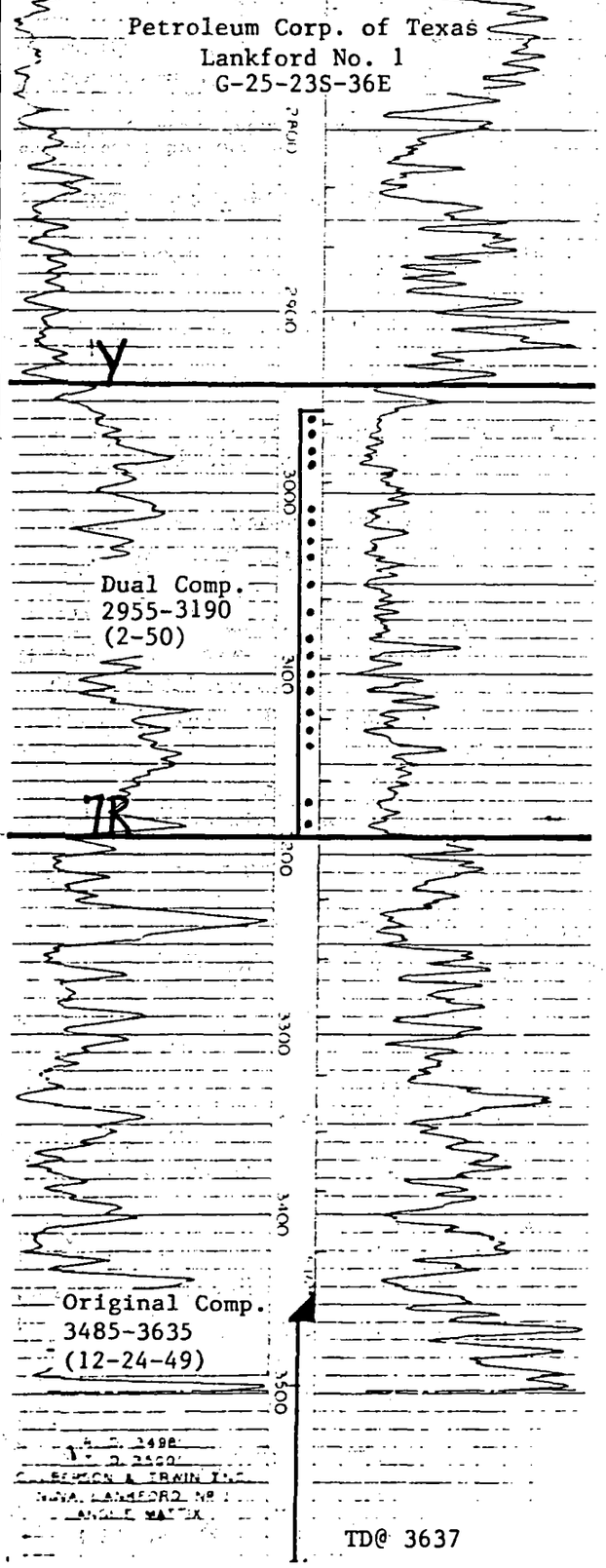
No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1183	1280	97	Rustler (Anhydrite)				
1280	2785	1505	Salado Salt (Salt & Anhydrite)				
2785	2946	161	Tansill (Dolomite & Anhydrite)				
2946	3186	240	Yates (Dolomite & Sandstone)				
3186	3550	364	Seven Rivers (Dolomite & Sandstone)				
3550	3662	112	Queen (Dolomite & Sandstone)				
3662	3700	38	Penrose (Dolomite & Sandstone)				



COMPANY	Petroleum Corp. of Texas (Culbertson/White Sand)
WELL	Lankford No. 1
FIELD	Langlie-Mattix & Jalmat
LOCATION	1650 FNL & 1650 FEL (G) Section 25, T-23-S, R-36-E (23-36-25-G)
COUNTY	Lea
STATE	New Mexico
ELEVATIONS:	KB
	DF 3354
3-28-83	GL

COMPLETION RECORD

SPUD DATE	10-21-49	COMP. DATE	12-24-49
TD	3637	PBTD	
CASING RECORD	13 @ 60 w/75		
	8 5/8 @ 1215 w/700		
	5 1/2 @ 3460 w/250		
PERFORATING RECORD	OH: 3485-3635		
STIMULATION	Natural		
IP	IPF=30 BOPD		
GOR		GR	34
TP	150	CP	400
CHOKE	TUBING 2		@ 3600
REMARKS	2-50: Dual. Perf 2955-3190. CAOF 13200 MCF.		

5-59 Last Langlie Mattix (Oil) Production - Cum Prod: 12.3 MBO.

1982 Jalmat Cum: 5579 MMCF

1982 Jalmat Avg. Prod: 157 MCFPD

G-25-23S-36E

Form C-104
Supersedes Old C-104 and C-105
Effective 1-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

REQUEST FOR ALLOWABLE

AND

AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

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

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JAN 27 1984
OIL CONSERVATION DIVISION
SANTA FE

Operator: Doyle Hartman

Address: Post Office Box 10426, Midland, Texas 79702

Reason(s) for filing (Check proper box)

- New Well
- Recompletion
- Change in Transporter of:
  - Oil
  - Dry Gas
  - Casinghead Gas
  - Condensate
- Other (Please explain)

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old C-102 and C-103
Effective 1-1-65

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 Well [X] Gas Well [ ] Other [ ]
2. Name of Operator: Petroleum Corporation of Texas
3. Address of Operator: Box 511, Breckenridge, Texas 76024
4. Location of Well: Unit Letter G, 1650 Feet From The North Line and 1550 Feet From The East Line, Section 25, Township 23S, Range 36E, NMPM.
5. State Oil & Gas Lease No.
6. Lease Name: Lankford
7. Unit Agreement Name
8. Well No.: 1
9. Pool Name, or Wildcat: Jamie Mattix (Q11)
10. Elevation (Show whether DF, RT, GR, etc.): 3334'
11. County: Lea

State [ ] Fee [X]

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

NOTICE OF INTENTION TO:

- Perform Remedial Work [ ]
- Temporarily Abandon [X]
- Pull or Alter Casing [ ]
- Plug and Abandon [ ]
- Change Plans [ ]
- Other: [ ]

SUBSEQUENT REPORT OF:

- Remedial Work [ ]
- Commence Drilling Opns. [ ]
- Casing Test and Cement Job [ ]
- Other: [ ]
- Altering Casing [ ]
- Plug and Abandonment [ ]
- [ ]

12. 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 well is temporarily abandoned due to the fact that it will not produce into Pan's main line at their existing line pressure. We plan to attempt to produce the Jamie Mattix again in this well when the other zone in this dually completed well is depleted. The other side of this dual is producing from the Jalmat (Gas) Field.

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SANTA FE

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

Signature: Thomas D. Stanley
Title: Production Clerk
Date: 1/27/85

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LAND OFFICE		
TRANSPORTER OIL		
TRANSPORTER 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-1
Effective 1-1-65

SEP 7 10 39 AM '65

RECEIVED
JAN 27 1984
OIL CONSERVATION DIVISION
SANTA FE

Operator: Petroleum Corporation of Texas

Address: P. O. Box 752, Breckenridge, Texas 76024

Reason(s) for filing *(Check proper box)*

New Well [ ]
Recompletion [ ]
Change in Ownership [X]

Change in Transporter of:
Oil [ ] Dry Gas [ ]
Casinghead Gas [ ] Condensate [ ]

Other *(Please explain)*
To change operating name from White Sands Oil & Gas Corporation.
Effective August 1, 1965.

If change of ownership give name and address of previous owner: White Sands Oil & Gas Corporation, 516 Commercial Bank Tower, Midland, T

DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease
Lankford	1	Jalmat	State, Federal or Fee: Fee

Location: Unit Letter G ; 1650 Feet From The North Line and 1650 Feet From The East

Line of Section 25 Township 23S Range 36E , NMPM, Lea County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil [ ] or Condensate [ ]	Address *(Give address to which approved copy of this form is to be sent)*
Name of Authorized Transporter of Casinghead Gas [ ] or Dry Gas [X]: El Paso Natural Gas Company	Address *(Give address to which approved copy of this form is to be sent)*: Box 1492, El Paso, Texas

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
					Yes	

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

COMPLETION DATA

Designate Type of Completion – (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
Pool	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Perforations			Depth Casing Shoe

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

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)

OIL WELL

Date First New Oil Run To Tanks	Date of Test	Producing Method *(Flow, pump, gas lift, etc.)*	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

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

I. 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.

Charles W. Smith
(Signature)

Office Manager
(Title)

September 2, 1965
(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 deepene well, this form must be accompanied by a tabulation of the deviatio tests taken on the well in accordance with RULE 111.

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

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

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

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LAND OFFICE		
TRANSPORTER OIL / GAS		
PRORATION OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

FORM C-110
(Rev. 7-60)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

OCT 11 10 43 AM '63

FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE

Company or Operator	Lease	Well No.
WHITE SANDS OIL & GAS CORPORATION ~~Haynes & V. T. Drilling Company~~	Lankford	1

Unit Letter	Section	Township	Range	County
G	25	23S	36E	Lea

Pool	Kind of Lease (State, Fed, Fee)
~~Southeast Gas By-Pools~~ Wildcat	Fee

If well produces oil or condensate give location of tanks	Unit Letter	Section	Township	Range

Authorized transporter of oil ☐ or condensate ☐	Address (give address to which approved copy of this form is to be sent)

Is Gas Actually Connected? Yes X No ____

Authorized transporter of casing head gas ☐ or dry gas X	Date Connected	Address (give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company		El Paso, Texas

If gas is not being sold, give reasons and also explain its present disposition:

REASON(S) FOR FILING (please check proper box)

New Well ..... ☐
Change in Transporter (check one)
Oil ..... ☐ Dry Gas .... ☐
Casing head gas . ☐ Condensate.. ☐

Change in Ownership ..... ☒
Other (explain below)

RECEIVED
JAN 27 1964
OIL CONSERVATION DIVISION
SANTA FE

Remarks

Formerly Haynes & V. T. Drilling Co.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 11th day of September, 19 63

OIL CONSERVATION COMMISSION	By
Approved by	Manager
	Title: White Sands Oil & Gas Corporation
Title	Company: 300 First National Bank Building
Date: OCT 29 1963	Address: Odessa, Texas

This form is not to be used for reporting packer leakage tests in Northwest New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator	Lease	Well No.
Haynes & V-T Drilling Company	Lankford	1

Location of Well	Unit	Sec	Twp	Rge	County
	C	25	23	36	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	Jalmat	Gas	Flow	Casing	--------
Lower Compl	Langlie-Mattix Oil	Oil	Flow	Tubing	18/64

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 10:15; 5-3-1960

	Upper Completion	Lower Completion
Well opened at (hour, date): 08:00 5-7-1960		
Indicate by (X) the zone producing	X	
Pressure at beginning of test	754	2
Stabilized? (Yes or No)	Yes	Yes
Maximum pressure during test	754	2
Minimum pressure during test	673	2
Pressure at conclusion of test	673	2
Pressure change during test (Maximum minus Minimum)	—81	None
Was pressure change an increase or a decrease?	Decrease	None

Well closed at (hour, date): 08:00 5-8-1960 Total Time On Production 24 Hours

Oil Production During Test: None bbls; Grav. -------; Gas Production During Test 3,265 MCF; GOR Dry

Remarks

FLOW TEST NO. 2

	Upper Completion	Lower Completion
Well opened at (hour, date): 08:00 5-9-1960		
Indicate by (X) the zone producing		X
Pressure at beginning of test	752	2
Stabilized? (Yes or No)	Yes	Yes
Maximum pressure during test	752	2
Minimum pressure during test	752	2
Pressure at conclusion of test	752	2
Pressure change during test (Maximum minus Minimum)	None	None
Was pressure change an increase or a decrease?	None	None

Well closed at (hour, date) 08:00 5-10-1960 Total time on Production 24 Hours

Oil Production During Test: None bbls; Grav. -------; Gas Production During Test None MCF; GOR None

Remarks This Zone is Dead.

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

Operator Haynes & V-T Drilling Company

Approved _____ 19____
New Mexico Oil Conservation Commission

By G. I. Young

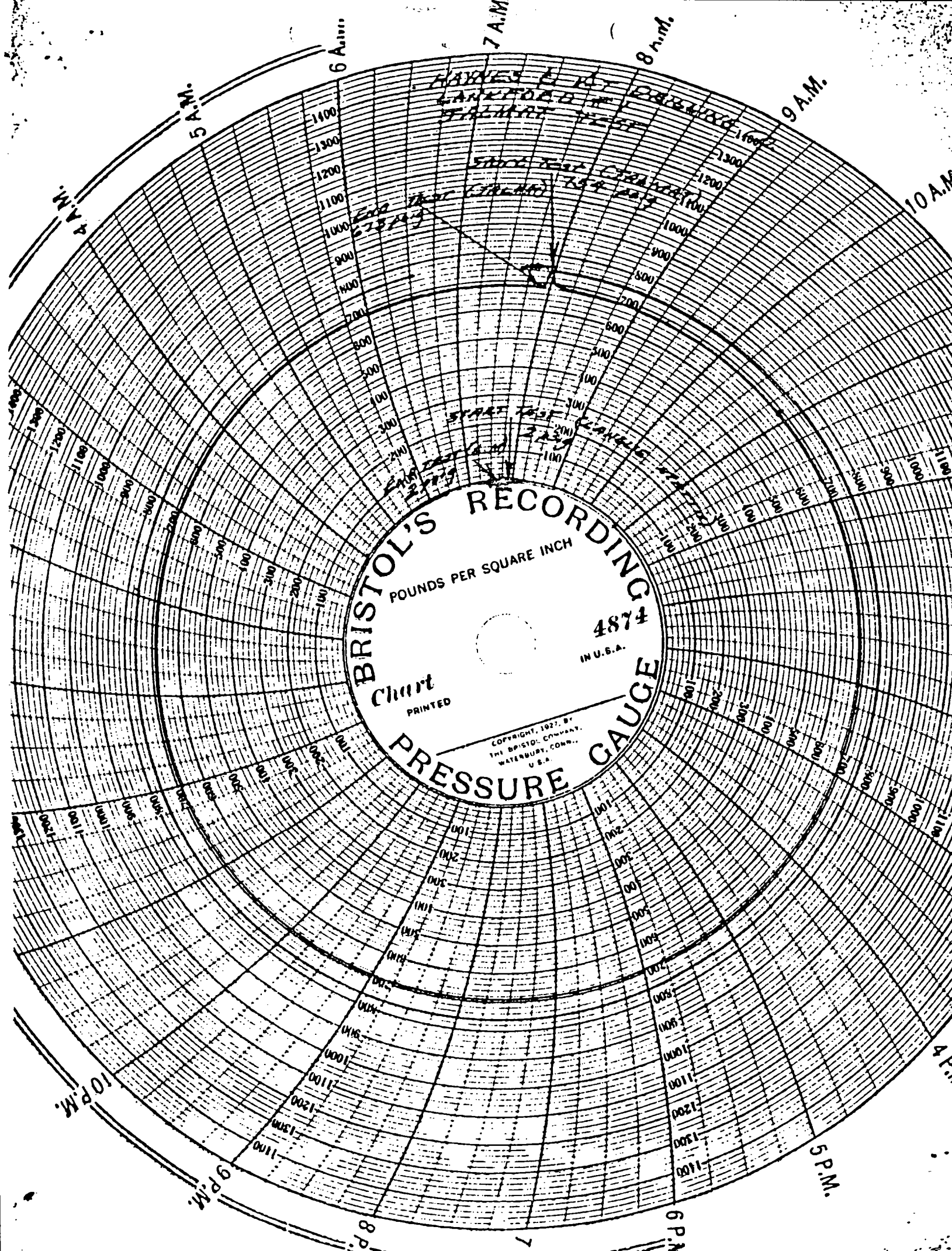
Title G. I. Young
Office Manager

By _____

Title _____

Date 5-16-1960

BRISTOL'S RECORDING PRESSURE GAUGE
POUNDS PER SQUARE INCH
4874
IN U.S.A.
Chart
PRINTED
COPYRIGHT, 1927, BY THE BRISTOL COMPANY, WATERBURY, CONN., U.S.A.
5 P.M.
6 P.M.
7 P.
8 P.
9 P.M.
10 P.M.
11 P.M.
4 A.M.
5 A.M.
6 A.M.
7 A.
8 A.
9 A.M.
10 A.M.


BRISTOL'S RECORDING
PRESSURE GAUGE
POUNDS PER SQUARE INCH
4874
IN U.S.A.
Chart
PRINTED
COPYRIGHT, 1927, BY
THE BRISTOL COMPANY,
WATERBURY, CONN.,
U.S.A.
4 A.M.
5 A.M.
6 A.M.
7 A.M.
8 A.M.
9 A.M.
10 A.M.
4 P.M.
5 P.M.
6 P.M.
7
8 P.M.
9 P.M.
10 P.M.

OIL CONSERVATION COMMISSION

HOBBS, NEW MEXICO

COPY

April 20, 1960

Haynes & V. T. Drilling Co.
1725 N. Grant St.
Odessa, Texas

Gentlemen:

We are returning the enclosed Packer Leakage Test Form, and request that the well be retested. Also, when the forms are resubmitted, please clarify the lease name and well number.

We wish to call to your attention that a Dual Pen Recorder must be used at the well head and that all pressures must be submitted. Further, the El Paso Natural Gas Co. charts are not acceptable charts for the packer leakage test.

We believe that a careful reading of the instructions on the back of the Southeast Packer Leakage Test Form will enable you to properly conduct the test and complete the form.

Yours very truly,

OIL CONSERVATION COMMISSION

Eric F. Engbrecht
Engineer, District 1

mc
encl.

NEW M[illegible] CO OIL CONSERVATION CO[illegible] ISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Haynes & V. T. Drilling Company Lease Lankford

Well No. 1 (Dual) Unit Letter O S 25 T 23 R 36 Pool Langlie-Mattix

County Lea Kind of Lease (State, Fed. or Patented) Pat.

If well produces oil or condensate, give location of tanks: Unit O S 25 T 23 R 36

Authorized Transporter of Oil or Condensate Texas-New Mexico Pipe Line Company

Address P. O. Box 1510 Midland, Texas
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas El Paso Natural Gas Company

Address P. O. Box 1384 Jal, New Mexico
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well ( )

Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate ( )

Change in Ownership ( ) Other CHANGE OF OPERATOR (X)

Remarks: (Give explanation below)

To record change of operator from Southern California Petroleum Corporation to Haynes & V. T. Drilling Company, effective July 1, 1959.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 7th day of July 1959

By [illegible]

Approved 19

Title Office Manager

OIL CONSERVATION COMMISSION

Company Haynes & V. T. Drilling Co.

By

Address 1725 North Grant St.

Title

Odessa, Texas

NEW ME CO OIL CONSERVATION COM SSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Haynes & V. T. Drilling Company Lease Lankford

Well No. 1 (Dual) Unit Letter Q S 25 T 23 R 36 Pool Jalmat

County Lea Kind of Lease (State, Fed. or Patented) Pat.

If well produces oil or condensate, give location of tanks: Unit ____ S ____ T ____ R ____

Authorized Transporter of Oil or Condensate None (Dry gas well)

Address _____
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas El Paso Natural Gas Company

Address P. O. Box 1384 Jal, New Mexico
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

_____

_____

_____

Reasons for Filing: (Please check proper box) New Well ____ ( )

Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate ( )

Change in Ownership ____ ( ) Other CHANGE OF OPERATOR (X)

Remarks: (Give explanation below)

To record change of operator from Southern California Petroleum Corporation to Haynes & V. T. Drilling Company, effective July 1, 1959.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 7th day of July 1959

By [signature]

Title Office Manager

Company Haynes & V. T. Drilling Co.

Address 1725 North Grant St.

Odessa, Texas

Approved _____ 19 ____

OIL CONSERVATION COMMISSION

By [signature]

Title _____

This form is not to be used for reporting packer leakage tests in Northwest New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator	Lease	Well No.
Southern California Petroleum Corp.	LANKFORD	1

Location of Well	Unit	Sec	Twp	Rge	County
	G	25	23 S	36 E; NMPM	Lea 07

	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	YATES - Jalmat	GAS	FLOW	CSG	~~1~~ 3/8"
Lower Compl	QUEEN - LM	OIL	FLOW	TBG	3/4"

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 10:00 AM 4-10-59

Well opened at (hour, date): 9:30 AM 4-12-59

	Upper Completion	Lower Completion
Indicate by (X) the zone producing	X	
Pressure at beginning of test ... Shut in	823	40
Stabilized? (Yes or No)	Yes	Yes
Maximum pressure during test	790	40
Minimum pressure during test	780	36
Pressure at conclusion of test	780	40
Pressure change during test (Maximum minus Minimum)	10	4
Was pressure change an increase or a decrease?	DECR.	DECR.

Well closed at (hour, date): 8:30 AM 4-20-59 Total Time On Production 191 hrs.

Oil Production During Test: 0 bbls; Grav. -- ; Gas Production During Test 11004 MCF; GOR --

Remarks

FLOW TEST NO. 2

Well opened at (hour, date): 3:00 PM 4-21-59

	Upper Completion	Lower Completion
Indicate by (X) the zone producing		X
Pressure at beginning of test ... Shut in	820	44
Stabilized? (Yes or No)	Yes	Yes
Maximum pressure during test	820	76
Minimum pressure during test	820	44
Pressure at conclusion of test	820	44
Pressure change during test (Maximum minus Minimum)	0	32
Was pressure change an increase or a decrease?	--	DECR.

Well closed at (hour, date) Left open - dead Total time on Production 24 hrs.

Oil Production During Test: 1.5 bbls; Grav. 30.4 ; Gas Production During Test 48 MCF; GOR 32,100

Remarks Tubing dead after SI. Swabbed off for Flow Test No. 2; swabbed 4 bbls. and well flowed 1.5 bbls. and died.

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

Operator So.Calif.Petr. Corp.

By [signature]

Title Division Engineer

Date May 22, 1959

Approved _____ 19 _____
New Mexico Oil Conservation Commission

By _____

Title _____

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC

HOBBS OFFICE OCC

1957 DEC 15 AM 8:46

1957 DEC 15 AM 2:08

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Jalmat Formation Yates County Lea

Initial ____ Annual ____ Special X Date of Test 12-3 to 12-7 195

Company Southern California Petr. Lease Lankford Well No. 1

Unit O Sec. 25 Twp. 23 S Rge. 36 E Purchaser El Paso Natural Gas Company

Casing 5 1/2" Wt. 14 I.D. 5.012 Set at 3460 Perf. 2955 To 3190

Tubing 2" Wt. 4.7 I.D. 1.995 Set at 3612 Perf. 3577 To 3580

Gas Pay: From 2955 To 3190 L 2955 xG .650 -GL 1921 Bar.Press. 13.2

Producing Thru: Casing X Tubing ____ Type Well G. O. Dual

Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: 2-6-50 Packer 3378 Reservoir Temp. ____

OBSERVED DATA

Tested Through (~~XXXXX~~) ~~XXXXXX~~ (Meter) Type Taps ____

No.	Flow Data (~~XXXXX~~) (Line) Size	(~~XXXX~~) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI								914		72
1.	4	1.000	893	13.69	85			893		24
2.	4	1.000	881	33.06	82			882		24
3.	4	1.000	869	61.62	79			870		24
4.	4	1.000	857	93.12	77			859 *		24
5.										

* Not enough draw down - orifice too small.

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	6.135	111.37		.9768	.9608	1.083	694
2.	6.135	171.93		.9795	.9608	1.083	1075
3.	6.135	233.13		.9822	.9608	1.088	1469
4.	6.135	284.64		.9840	.9608	1.088	1796
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl. Specific Gravity Separator Gas ____

Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____

F: 1.793 $(1-e^{-s})$ .124 P_c 927.2 P_c^2 859.7

No.	~~P_c~~ P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	906.2	821.1	1.24	1.54	.19	821.3	38.4		
2.	895.2	801.4	1.93	3.72	.46	801.9	57.8		
3.	883.2	780.0	2.63	6.92	.86	780.9	78.8		
4.	872.2	760.7	3.22	10.37	1.29	761.9	97.8		
5.									

Absolute Potential: 13,800 MCFPD; n .939

COMPANY Southern California Petroleum Corporation

ADDRESS Box 1071, Midland, Texas

AGENT and TITLE Joe A. Coleman, P.E., New Mexico, Cert. No. 2208

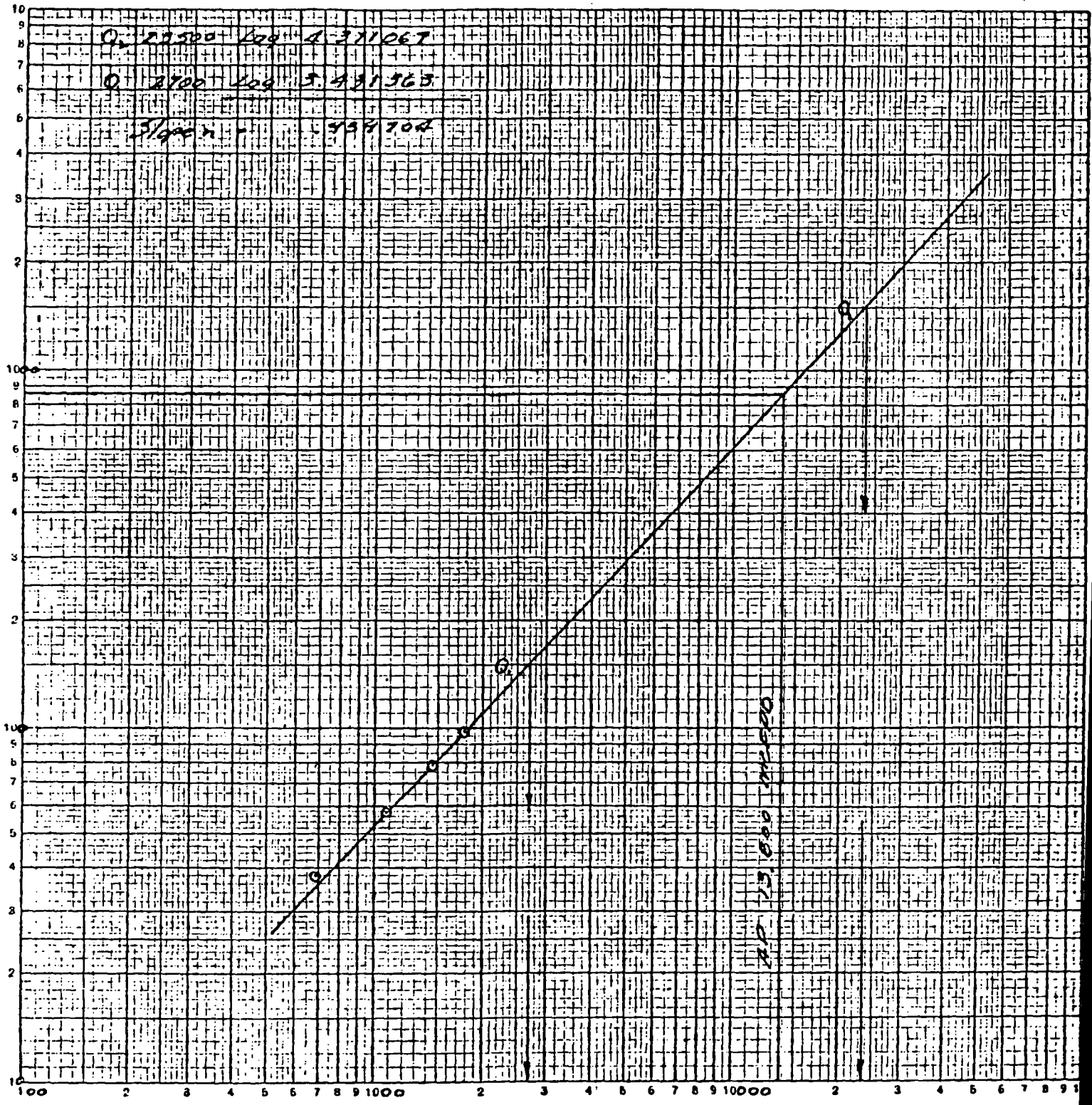
WITNESSED Well tested by El Paso Natural Gas Company

COMPANY Beal-Coleman Engineering Company

REMARKS

Note: Hayes and Drilling Co

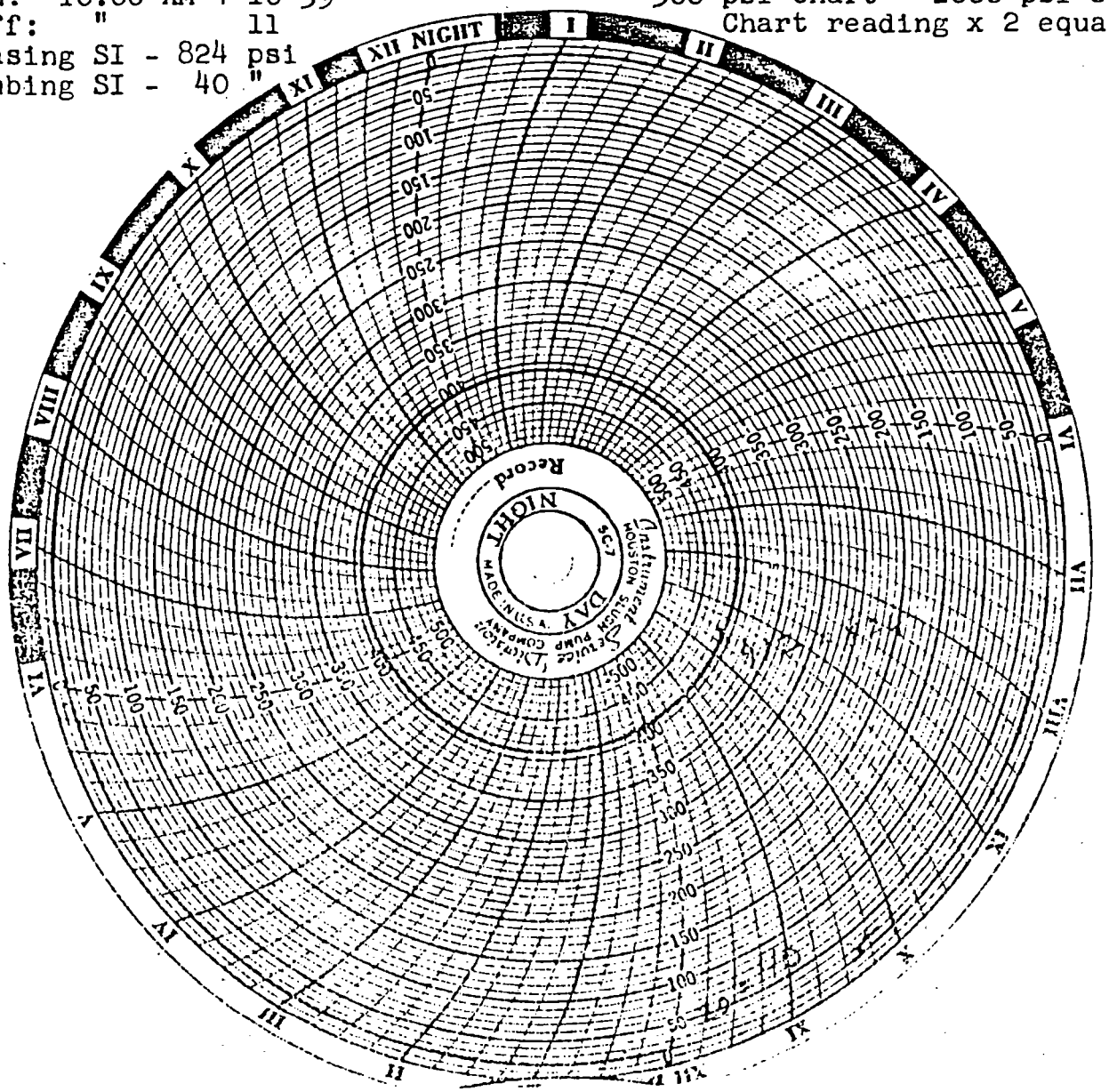
SOUTHERN CALIF. PET. CO.
Lankford #1
Sec 25-T23S-R36E - Lea, N.M.
12-7-56



SOUTHERN CALIF... PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

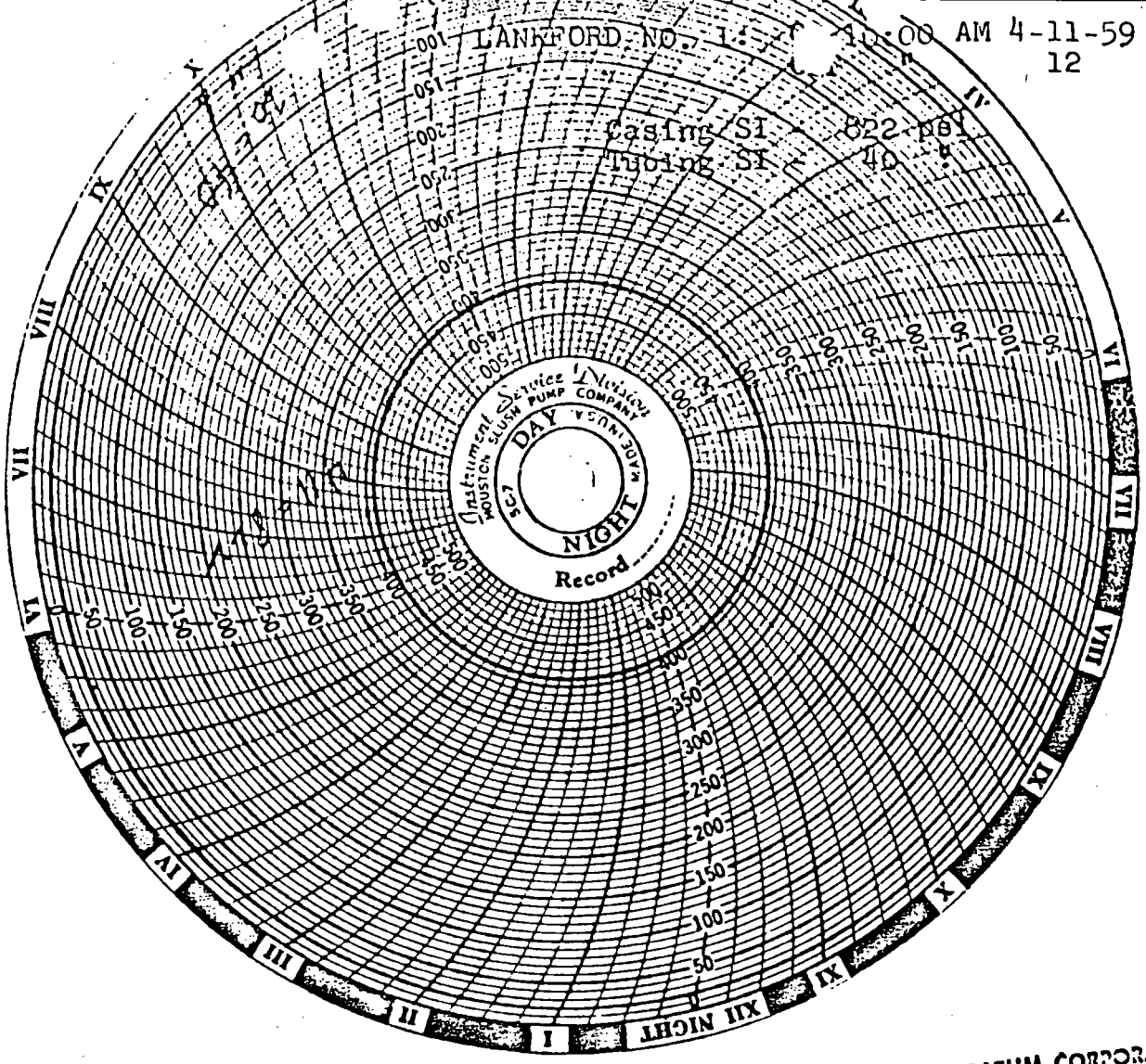
LANKFORD NO. 1
On: 10:00 AM 4-10-59
Off: " 11
Casing SI - 824 psi
Tubing SI - 40 "

500 psi chart - 3000 psi element
Chart reading x 2 equals press.



LANKFORD NO. 1 10:00 AM 4-11-59
12

Casing SI 822 psi
Tubing SI 40

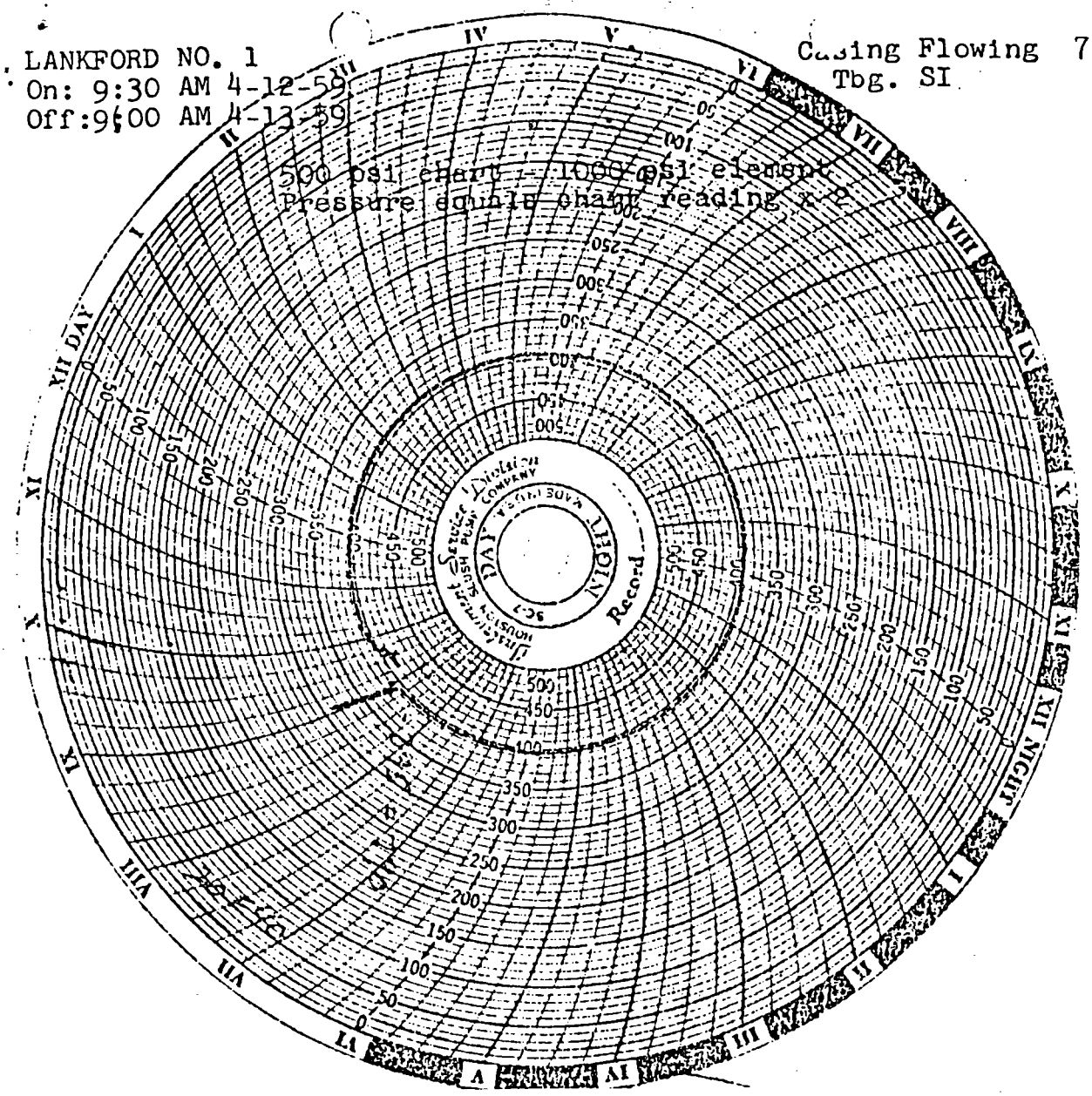


SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

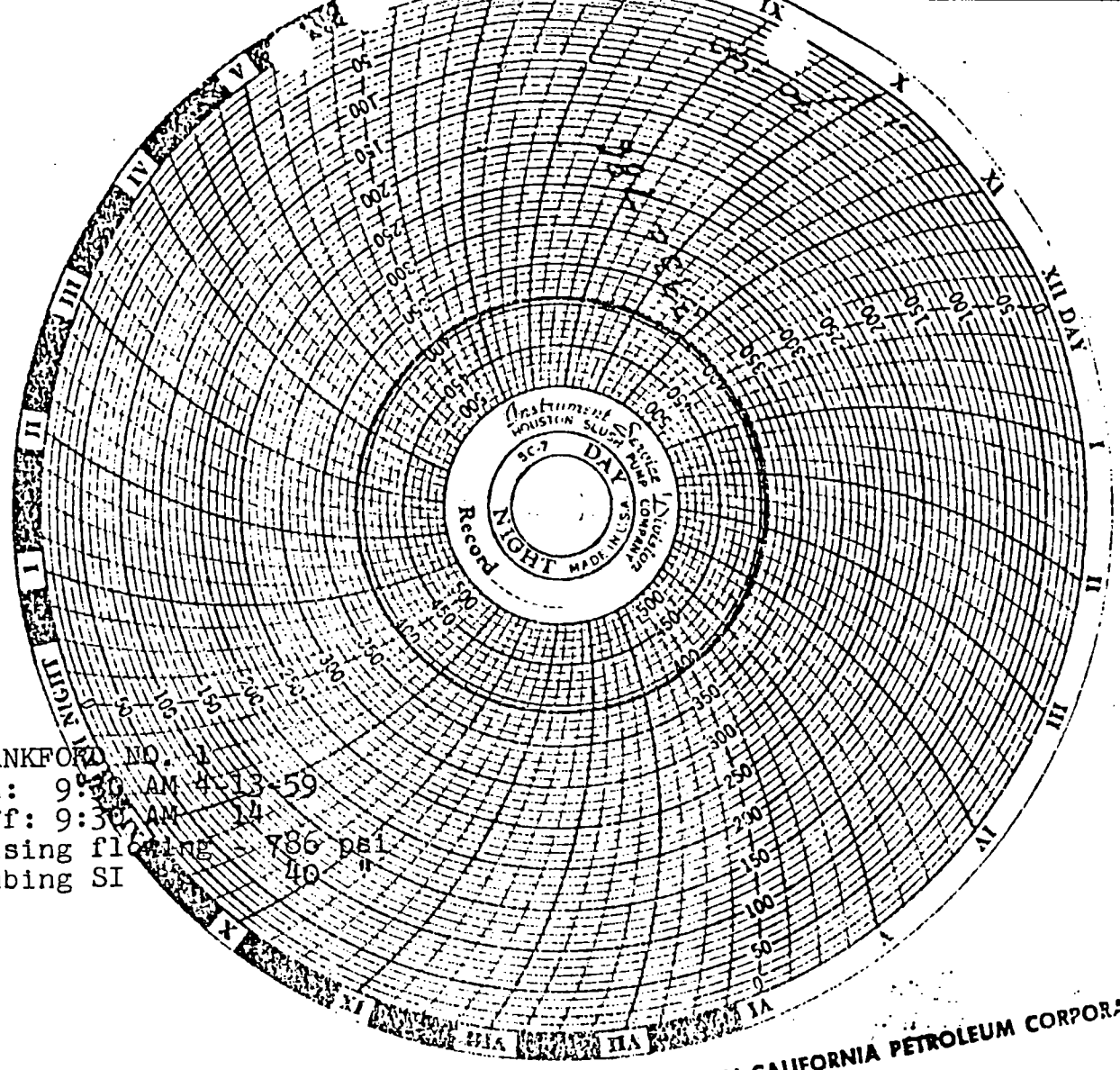
LANKFORD NO. 1
On: 9:30 AM 4-12-59
Off: 9:00 AM 4-13-59

Casing Flowing 790 psi
Tbg. SI 40 "

500 psi chart - 1000 psi element
Pressure equals chart reading x 2

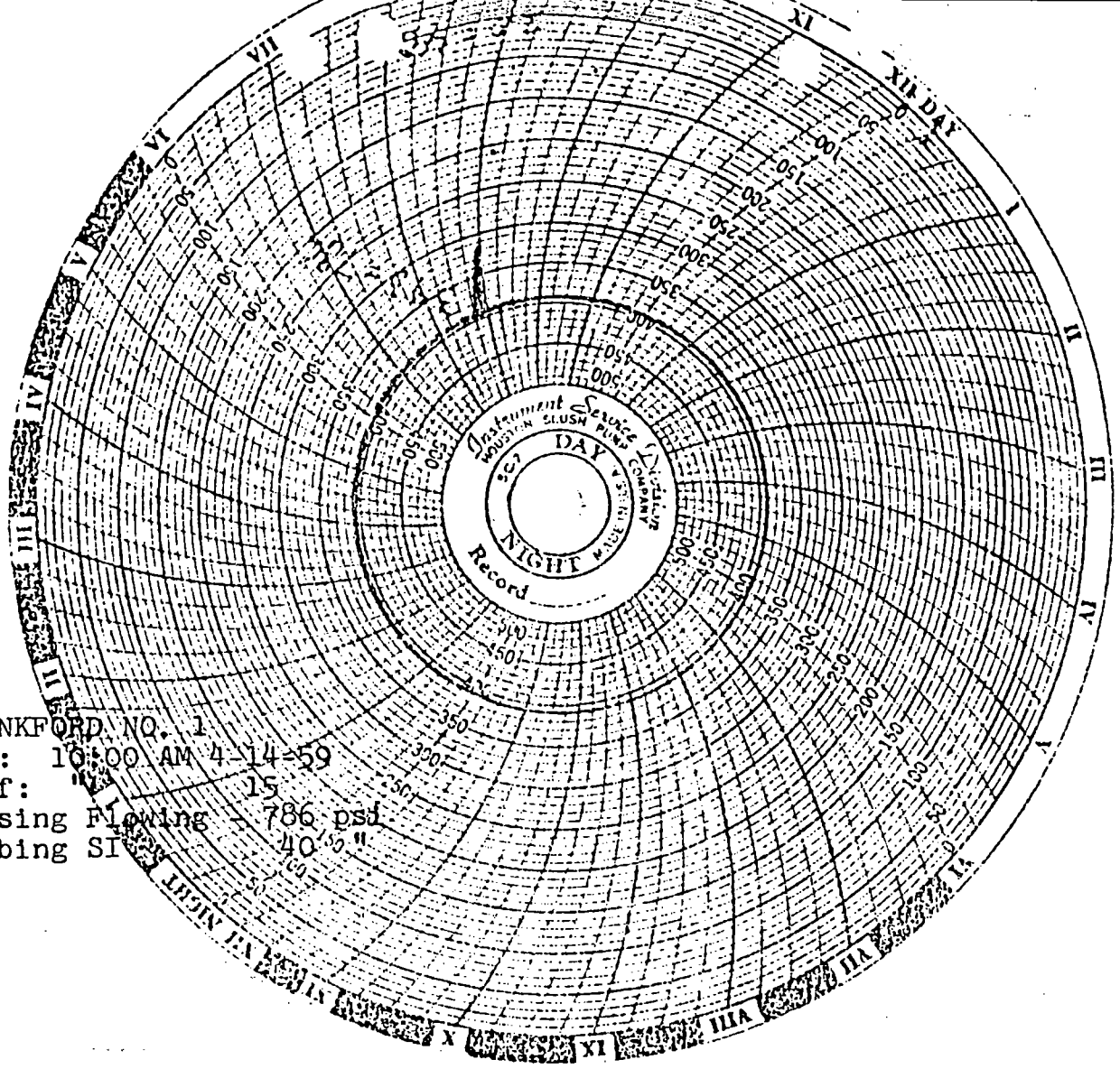


SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS



LANKFORD NO. 1
On: 9:30 AM 4-13-59
Off: 9:30 AM 14"
Casing flowing 786 psi
Tubing SI 40 "

SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

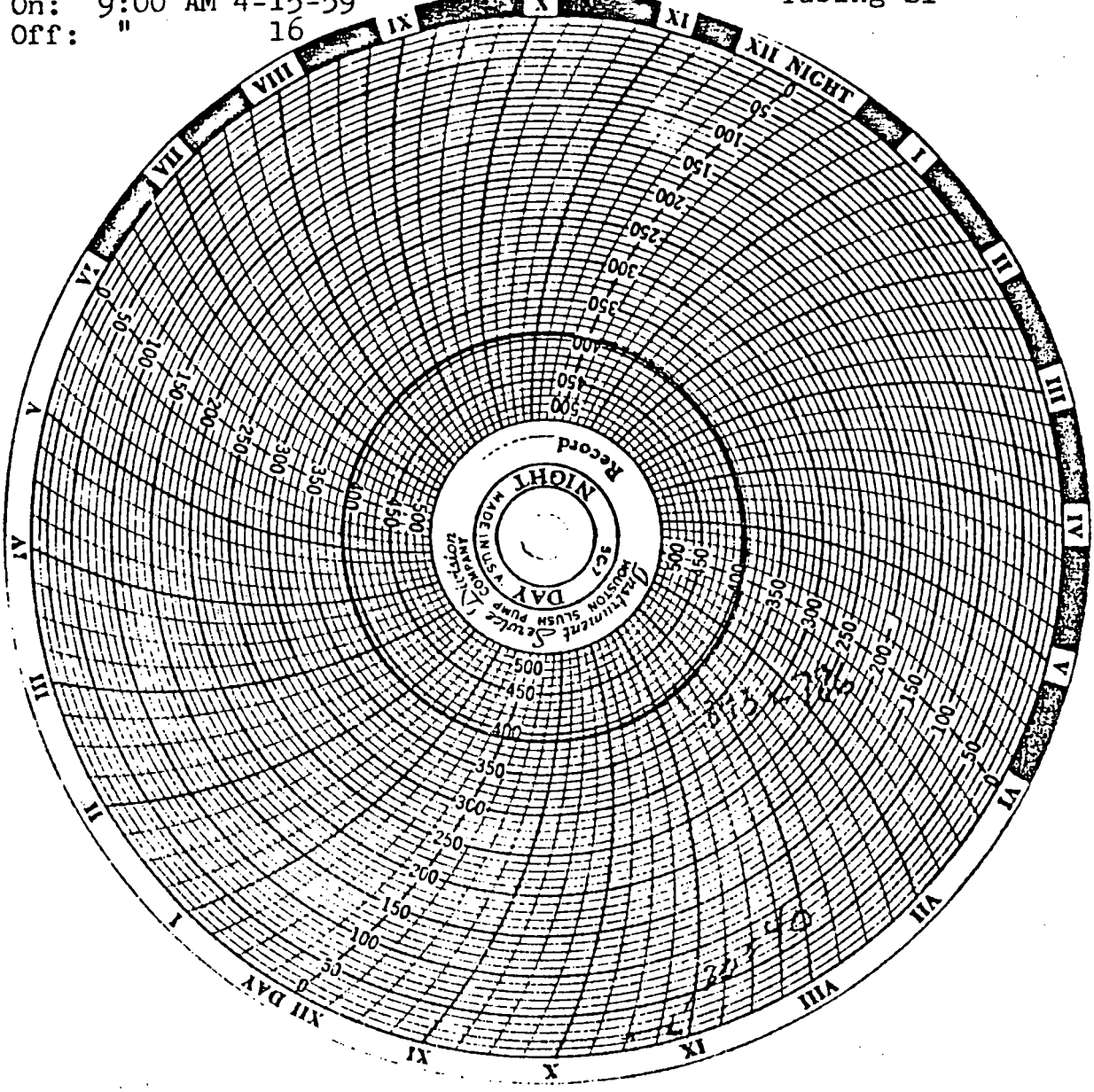


LANKFORD NO. 1
On: 10:00 AM 4-14-59
Off: " 15
Casing Flowing - 786 psi
Tubing SI - 40 "

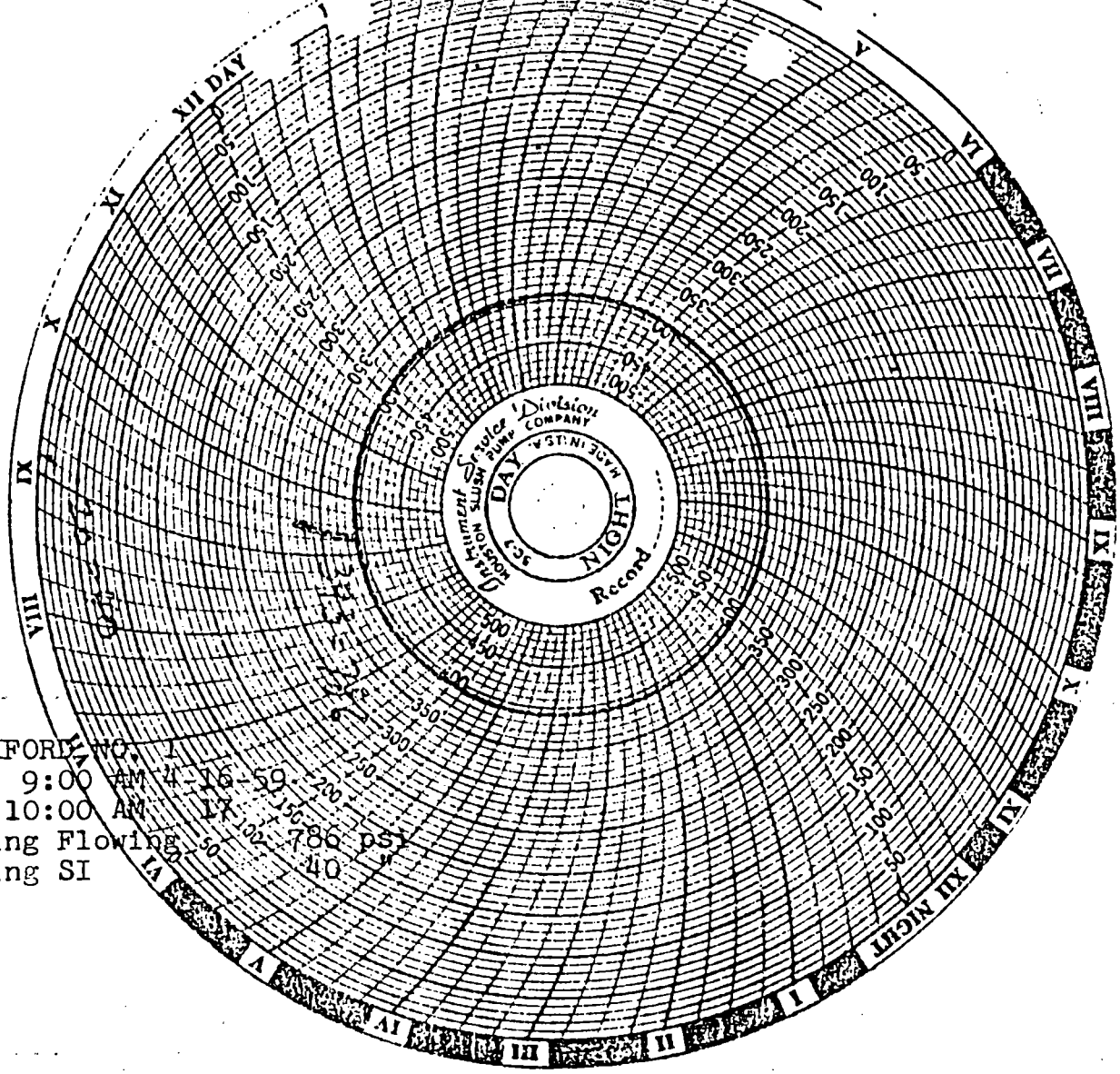
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P O BOX 1071
MIDLAND, TEXAS

LANKFORD NO. 1
On: 9:00 AM 4-15-59
Off: " 16

Casing Flowing - 786 psi
Tubing SI 40 "



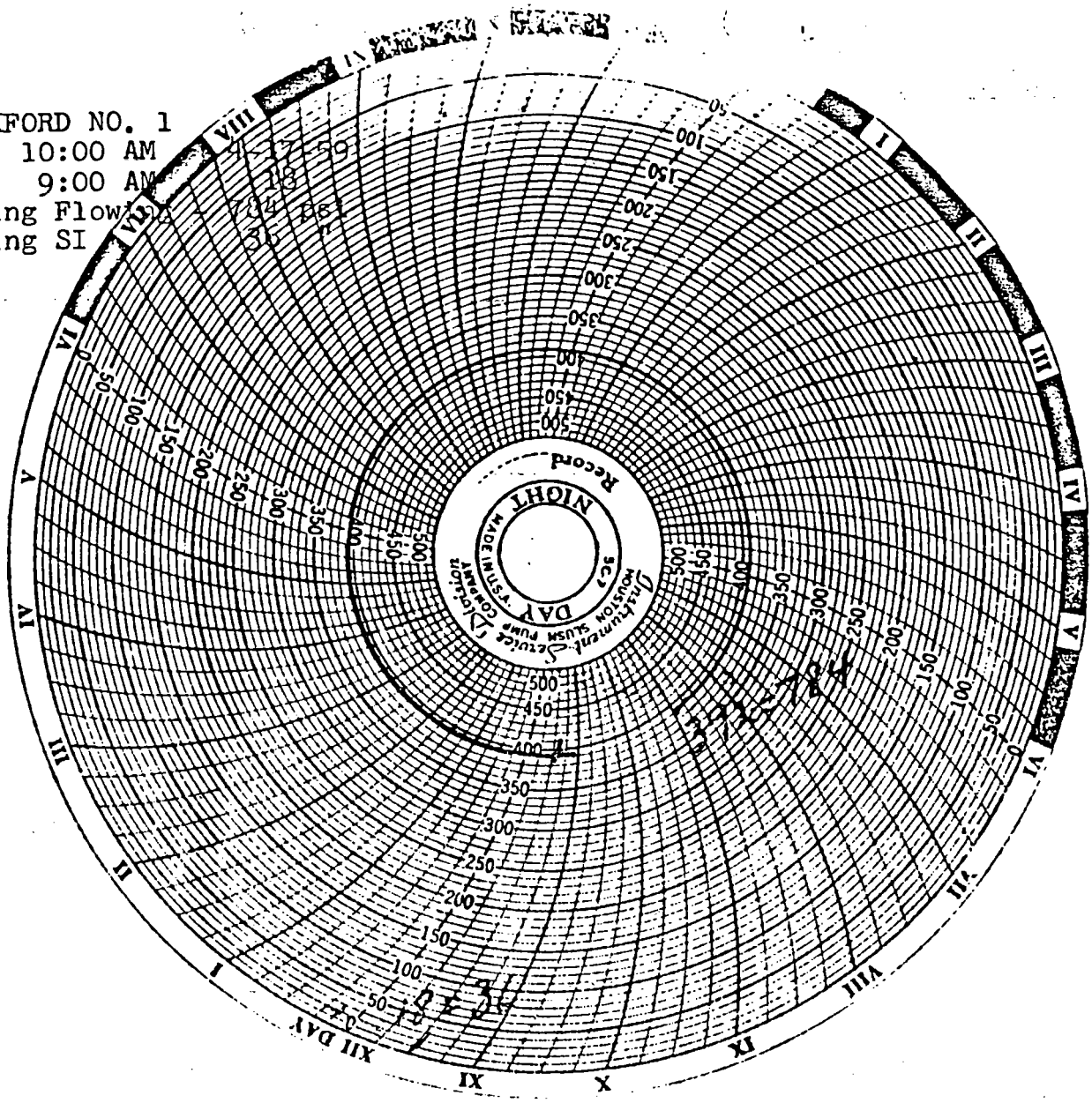
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
MIDLAND, TEXAS



LANKFORD NO. 1
On: 9:00 AM 4-16-59
Off:10:00 AM 17
Casing Flowing 102 786 psi
Tubing SI 40 "

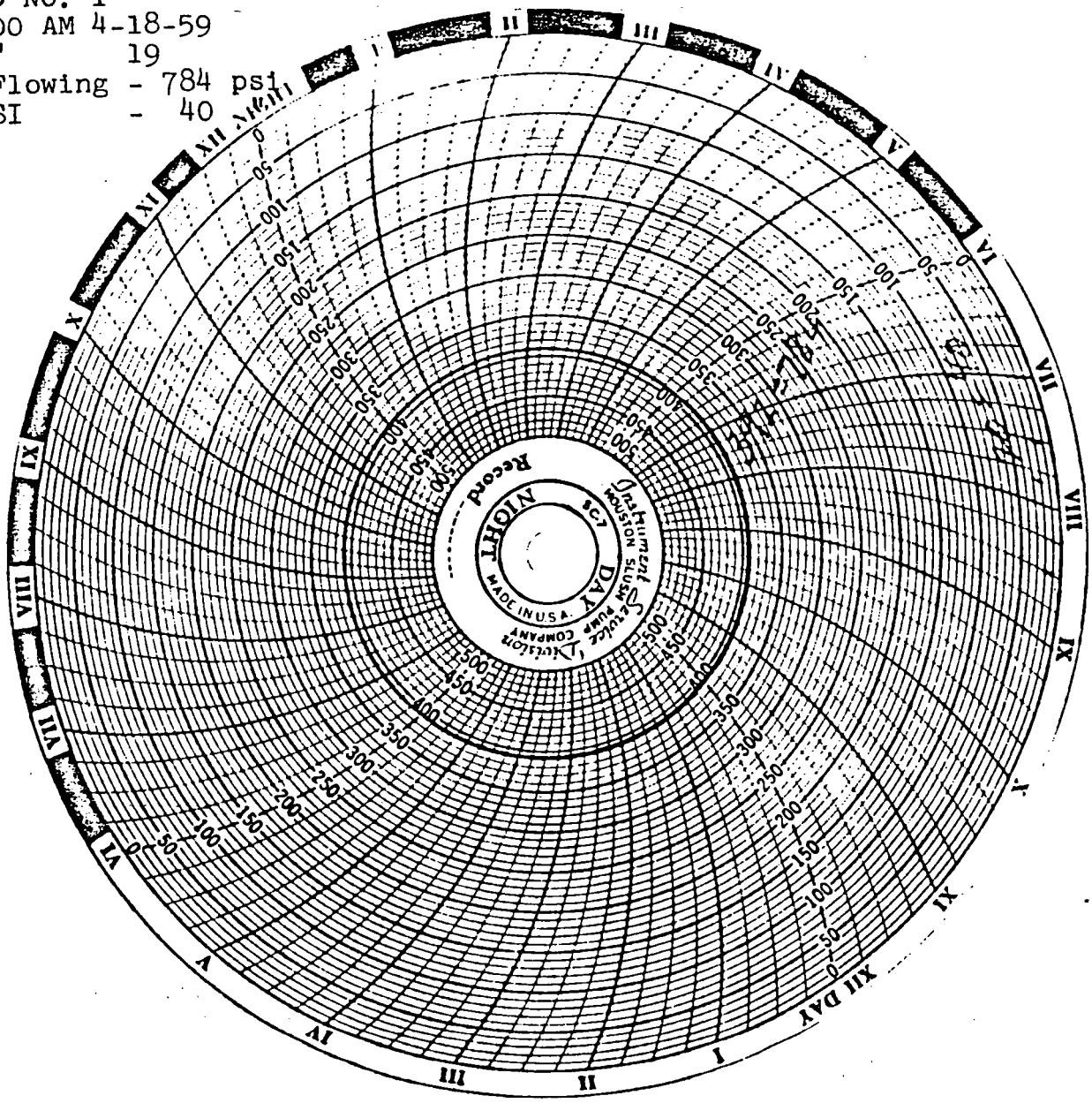
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

LANKFORD NO. 1
On: 10:00 AM 9-17-59
Off: 9:00 AM 18
Casing Flowing 704 psi
Tubing SI 36 "



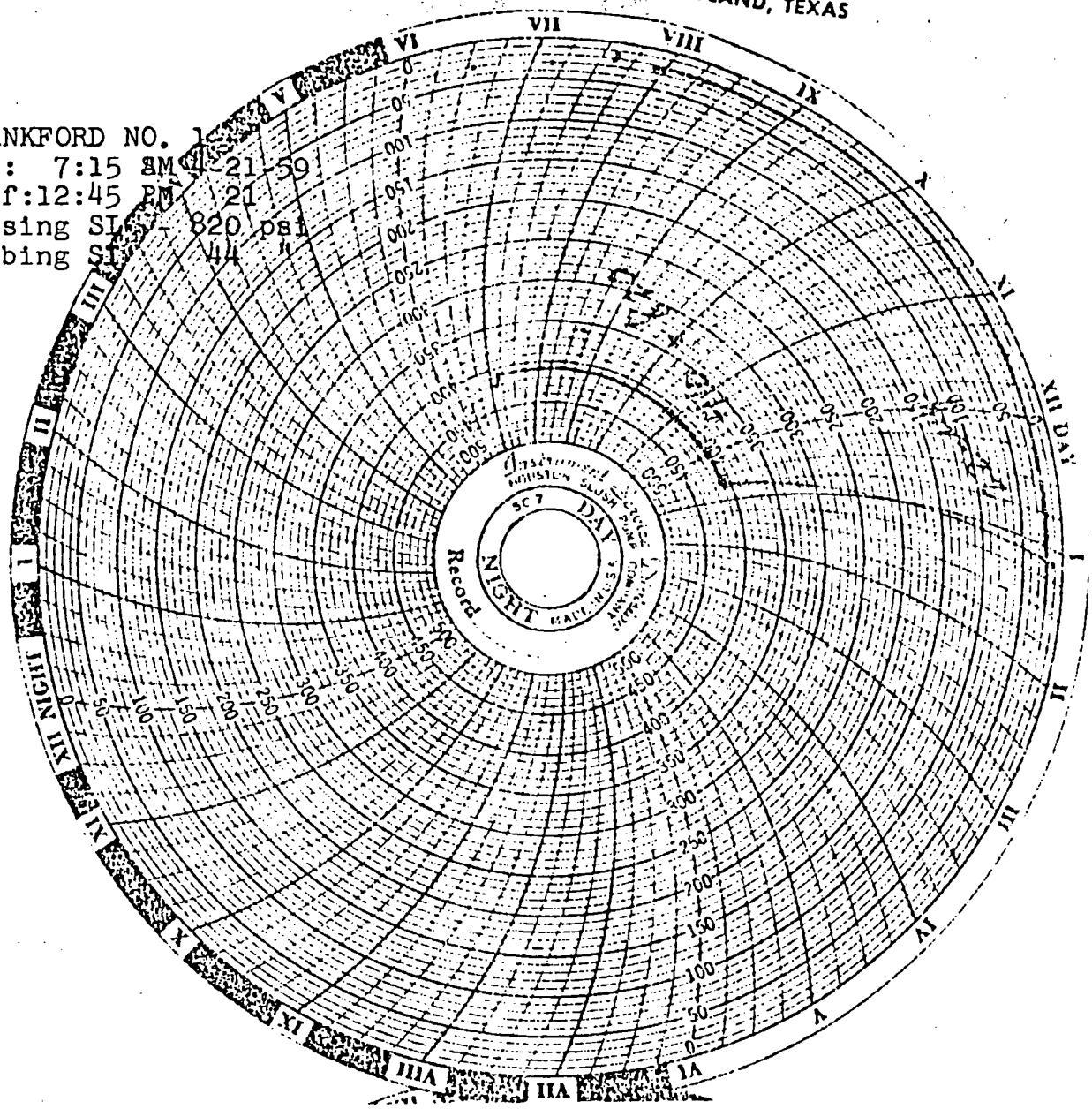
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

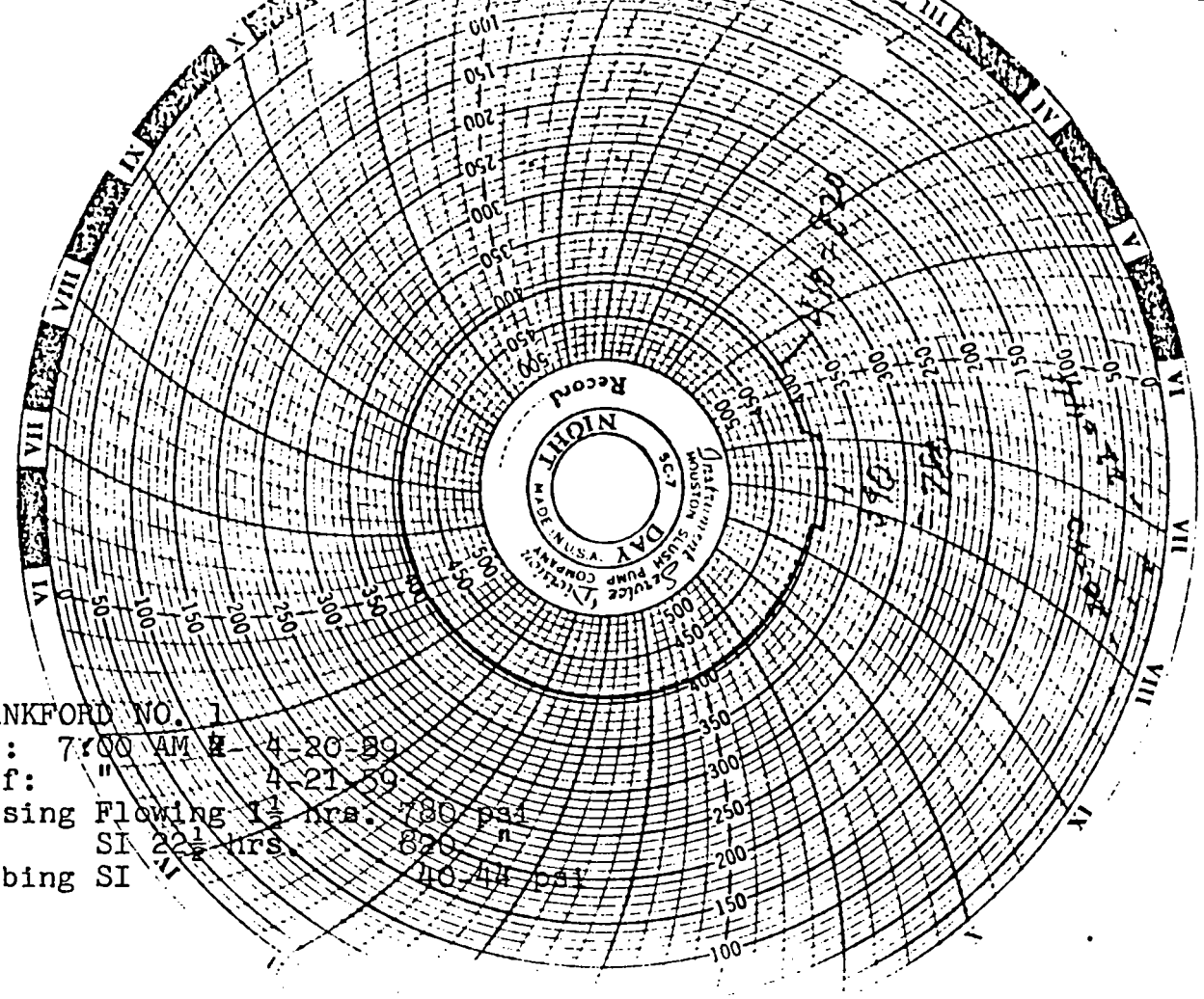
LANKFORD NO. 1
On: 7:00 AM 4-18-59
Off: " 19
Casing Flowing - 784 psi
Tubing SI - 40



SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 271
MIDLAND, TEXAS

LANKFORD NO. 1
On: 7:15 AM 4-21-59
Off:12:45 PM 4-21
Casing SI - 820 psi
Tubing SI - 44 "



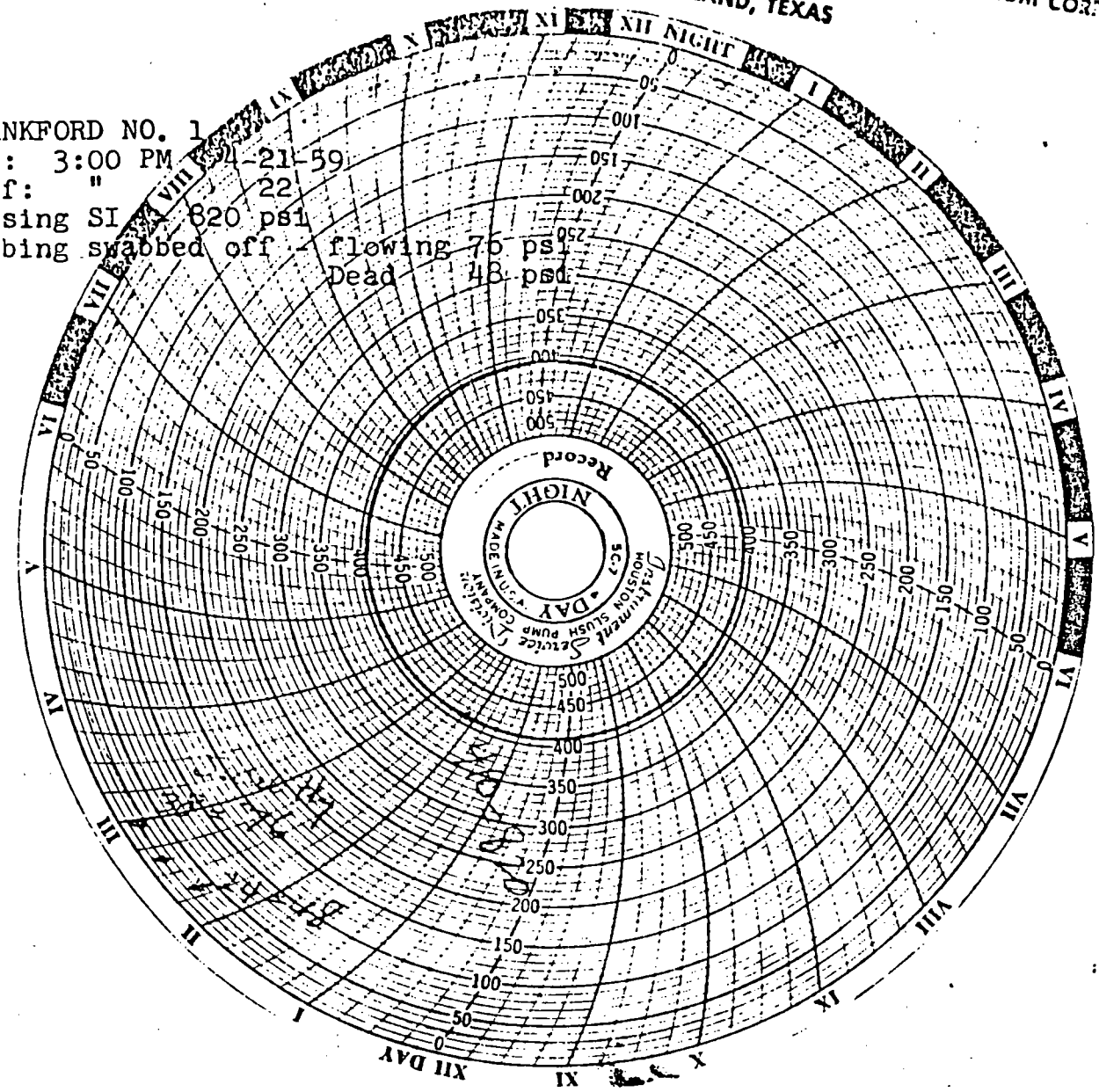


LANKFORD NO. 1
On: 7:00 AM 4-20-89
Off: " 4-21-89
Casing Flowing $1\frac{1}{2}$ hrs. 780 psi
SI $22\frac{1}{2}$ hrs. 820 "
Tubing SI 40-44 psi

SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1271
MIDLAND, TEXAS

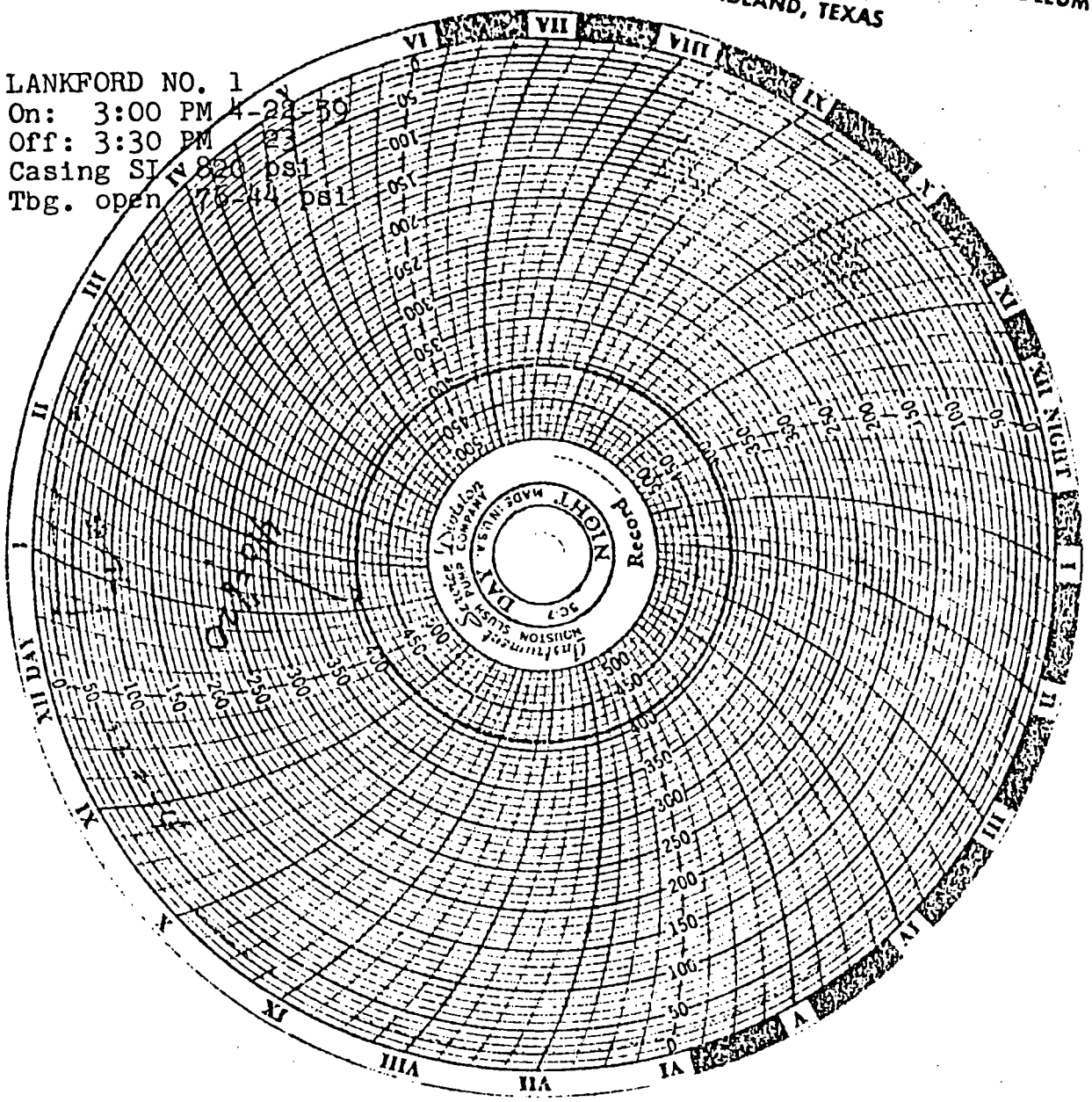
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 71
MIDLAND, TEXAS

LANKFORD NO. 1
On: 3:00 PM 4-21-59
Off: " 22
Casing SI - 820 psi
Tubing swabbed off - flowing 76 psi
Dead 48 psi



SOUTHE[illegible] CALIFORNIA PETROLEUM CORPORATION
P. O. BO[illegible] 1071
MIDLAND, TEXAS

LANKFORD NO. 1
On: 3:00 PM 4-22-59
Off: 3:30 PM 23
Casing SI 820 psi
Tbg. open 76-44 psi



NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

It is necessary that Form C-104 be approved before this form can be approved an an *initial* allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator SOUTHERN CALIFORNIA PETROLEUM CORPORATION Lease Nina Lankford

Address ..... (Local or Field Office) P.O.Box 1071, Midland, Texas (Principal Place of Business)

Unit G, Well(s) No. 1, Sec. 25, T. 23S, R. 36E, Pool Jalmat

County Lea Kind of Lease: fee

If Oil well Location of Tanks Gas well

Authorized Transporter El Paso Natural Gas Co. Address of Transporter

..... (Local or Field Office), El Paso, Texas (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported 100 Other Transporters authorized to transport Oil or Natural Gas from this unit are .....

..... %

REASON FOR FILING: (Please check proper box)

NEW WELL ☐ CHANGE IN OWNERSHIP ☐

CHANGE IN TRANSPORTER ☐ OTHER (Explain under Remarks) ☒

REMARKS:

In accordance with your Order R-520

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 31st day of August 19 54

SOUTHERN CALIFORNIA PETROLEUM CORP.

Approved ....., 19....

OIL CONSERVATION COMMISSION

By .....

Title .....

By D. Mannon

Title Petroleum Engineer

(See Instructions on Reverse Side)

(Form C-110)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

RECEIVED OFFICE OCC

It is necessary that Form C-104 be approved before this form can be approved an an *initial* allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

1954 SEP 13 AM 11:13

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator SOUTHERN CALIFORNIA PETROLEUM CORPORATION Lease Nina Lankford

Address ..... (Local or Field Office) P.O.Box 1071, Midland, Texas (Principal Place of Business)

Unit G, Well(s) No. 1, Sec. 25, T. 23S, R. 36E, Pool Langlie-Mattix

County Lea Kind of Lease: fee

If Oil well Location of Tanks On lease

Authorized Transporter Texas-New Mexico Pipe Line Co. (oil) El Paso Natural Gas Co. (gas) Address of Transporter

..... (Local or Field Office), Midland, Texas El Paso, Texas (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported 100 Other Transporters authorized to transport Oil or Natural Gas from this unit are .....

..... %

REASON FOR FILING: (Please check proper box)

NEW WELL ☐ CHANGE IN OWNERSHIP ☐

CHANGE IN TRANSPORTER ☐ OTHER (Explain under Remarks) ☒

REMARKS:

In accordance with your Order R-520

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 31st day of August 19 54

SOUTHERN CALIFORNIA PETROLEUM CORP.

Approved ....., 19.....

OIL CONSERVATION COMMISSION

By .....

Title .....

By [signature]

Title Petroleum Engineer

(See Instructions on Reverse Side)

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
BOX 2045
HOBBS, NEW MEXICO

DATE December 31, 1953

TO: Southern California Petroleum Corporation

Box 1071, Midland, Texas

GENTLEMEN:

Form C-104 for your Lankford (LEASE) 1 (WELL) 25-23-36 (S.T.R.) Langmat (POOL)

has been approved, however, since this well is:

( ) An unorthodox location,

(X) Located on an unorthodox proration unit,

( ) Outside the boundaries of a designated pool,

it will be necessary for you to;

( ) Comply with the provisions of Rule 4 of Commission Order _____

(X) Comply with the provisions of Rule 7 of Commission Order R 369 A

( ) File Form C-123

Pending further Commission action this unit will be assigned an 120 acre allowable.

Stanley J. Stanley
A. L. Porter, Jr.
Proration Manager

ALP/pb

cc/ Transporter El Paso Natural Gas Co.

(Form C-110)
(Revised 7/1/52)

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

It is necessary that Form C-104 be approved before this form can be approved an an *initial* allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

SOUTHERN CALIFORNIA PETROLEUM CORPORATION

Company or Operator ..... Lease Nina Lankford

Address ..... (Local or Field Office) Box 1071, Midland, Texas (Principal Place of Business)

Unit G, Well(s) No. 1, Sec. 25, T. 23S, R. 36E, Pool Langmat

County Lea Kind of Lease: Fee

If Oil well Location of Tanks On lease

Authorized Transporter El Paso Natural Gas Company Address of Transporter

..... (Local or Field Office), El Paso, Texas (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported 100 Other Transporters authorized to transport Oil or Natural Gas from this unit are none

..... %

REASON FOR FILING: (Please check proper box)

NEW WELL ☐ CHANGE IN OWNERSHIP ☐

CHANGE IN TRANSPORTER ☐ OTHER (Explain under Remarks) ☒

REMARKS:

In compliance with Order R-356.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 28th day of December 19 53

SOUTHERN CALIFORNIA PETROLEUM CORP.

Approved DEC 31 1953, 19

OIL CONSERVATION COMMISSION

By L. J. Stanley

Engineer District 1

Title

By H. Mannon

Title Petroleum Engineer

(See Instructions on Reverse Side)

NEW MEXICO

OIL CONSERVATION COMMISSION

Gas Well Plat

Date Dec. 28, 1953

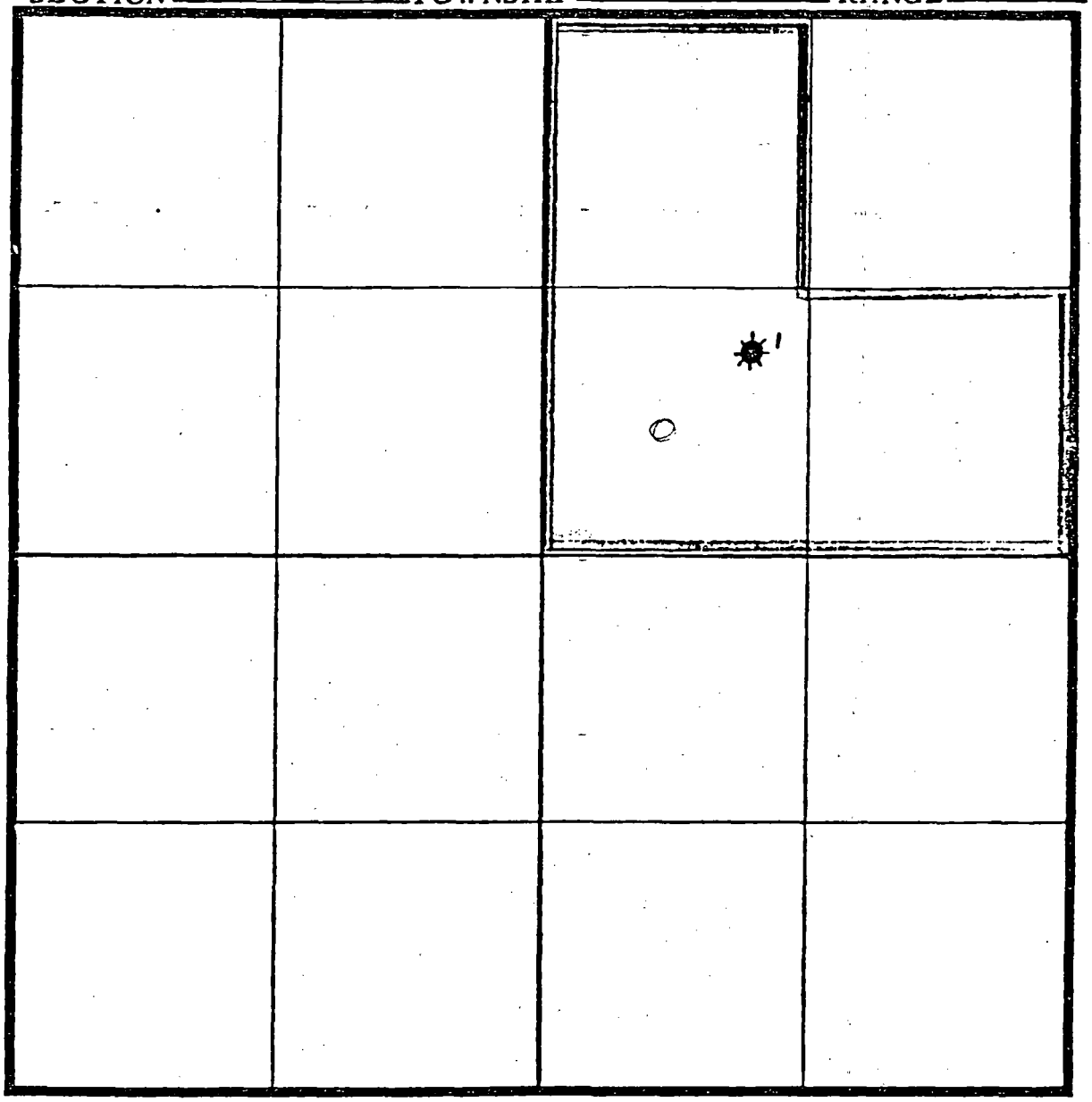
SOUTHERN CALIFORNIA PETROLEUM CORP. | Nina Lankford | 1

Operator | Lease | Well No.

Name of Producing Formation Yates Pool Langmat

No. Acres Dedicated to the Well 120

SECTION 25 TOWNSHIP 23S RANGE 36E



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

Name A Manson

Position Petroleum Engineer

Representing SO.CAL.PET.CORP.

Address Box 1071, Midland, Texas

(over)

(Form C-104)
(Revised 7/1/52)

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Midland, Texas (Place) 12/28/53 (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

SOUTHERN CALIFORNIA PETROLEUM CORP. (Company or Operator), Nina Lanford (Lease), Well No. 1, in NE ¼ NW ¼,
G (Unit), Sec. 25, T. 23S, R. 36E, NMPM., Langmat Pool
Lea County. Date Spudded 10/19/49, Date Completed 12/24/49

Please indicate location:

Elevation 3348 Total Depth 3637, P.B.

Top oil/gas pay 2955 Prod. Form Yates

Casing Perforations: 2955-3190 or

Depth to Casing shoe of Prod. String 3460

Natural Prod. Test BOPD

based on bbls. Oil in Hrs. Mins.

Test after acid or shot BOPD

Based on bbls. Oil in Hrs. Mins.

Gas Well Potential 13,200 MCFPD AOF

Size choke in inches

Date first oil run to tanks or gas to Transmission system: 5/8/50

Transporter taking Oil or Gas: El Paso Natural Gas Co.

Casing and Cementing Record

Size	Feet	Sax
13"	60	75
8 5/8	1195	700
5½"	3460	200

Remarks:

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

Approved DEC 31 1953, 19

SOUTHERN CALIFORNIA PETROLEUM CORP.
(Company or Operator)

By: A. Mannon
(Signature)

Title Petroleum Engineer

Send Communications regarding well to:

Name SOUTHERN CALIFORNIA PET. CORP.

Address Box 1071, Midland, Texas

OIL CONSERVATION COMMISSION

By: A. R. Stanley

Title Engineer District 1

R - 15

(Form C-110)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

It is necessary that Form C-104 be approved before this form can be approved an an *initial* allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator SOUTHERN CALIFORNIA PETROLEUM CORPORATION Lease Nina Lankford

Address P. O. Box 1071 (Local or Field Office) Midland, Texas (Principal Place of Business)

Unit O, Well(s) No. 1, Sec. 25, T. 23S, R. 36E, Pool Langlie-Mattix

County Lea Kind of Lease: fee

If Oil well Location of Tanks On lease

Authorized Transporter Texas-New Mexico Pipe Line Co. Address of Transporter

(Local or Field Office), Midland, Texas (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported 100 Other Transporters authorized to transport Oil or Natural Gas from this unit are

%

REASON FOR FILING: (Please check proper box)

NEW WELL ☐ CHANGE IN OWNERSHIP ☒

CHANGE IN TRANSPORTER ☐ OTHER (Explain under Remarks) ☐

REMARKS:

Culbertson & Irwin, Inc. purchased by Southern California Petroleum Corporation.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 14th day of January 19 53

SOUTHERN CALIFORNIA PETROLEUM CORP.

By Scott A. Murray

Title Manager

Approved Jan - 13, 1953

OIL CONSERVATION COMMISSION

By Roy O. Yarbrough

Title

(See Instructions on Reverse Side)

Form C-103

OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

RECEIVED OCT 23 1950

Miscellaneous Reports on Wells

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL		REPORT ON PRESSURE TEST	X

October 18, 1950 — Date

Midland, Texas — Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the Culbertson & Irwin, Inc. (Company or Operator) Nina Lankford (Lease) Well No. 1 in the NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

The dates of this work were as follows: 10-10-50

Notice of intention to do the work was (was not) submitted on Form C-102 on ..... 19.....

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

In compliance with Commission Rule 402, above well shut in for 24 hours and pressure test taken on October 10, 1950, with dead weight gauge showing 1179.3#.

Witnessed by E. H. Irwin (Name) Culbertson & Irwin, Inc. (Company) Supt. (Title)

Subscribed and sworn before me this 18th day of October, 19 50

Doreen Franklin — Notary Public

My commission expires June 1, 1951

I hereby swear or affirm that the information given above is true and correct.

Name [signature]

Position President

Representing Culbertson & Irwin, Inc. (Company or Operator)

Address Box 1071, Midland, Texas

Remarks:

APPROVED

Date OCT 23 1950

[signature]
Engineer District 1 — Name

Title

Form C-103

UPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL		REPORT ON DUAL COMPLETION	X

February 16, 1950 — Date

Midland, Texas — Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the Culbertson & Irwin, Inc. (Company or Operator) Nina Lankford (Lease) Well No. 1 in the SW/4 NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

The dates of this work were as follows: 1/27 - 2/6, 1950

Notice of intention to do the work was (~~was not~~) submitted on ~~Form C-102~~ on 1/24 1950 and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.) at hearing before Commission.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

See attached sheet

Witnessed by J. L. Brown (Name) Culbertson & Irwin, Inc. (Company) Drlg.Supt. (Title)

Subscribed and sworn before me this 16th day of February 1950

Notary Public

My commission expires June 1, 1951

I hereby swear or affirm that the information given above is true and correct.

Name [signature]

Position President

Representing Culbertson & Irwin, Inc. (Company or Operator)

Address Box 1071, Midland, Texas

Remarks:

Roy Yarbrough
OIL & GAS INSP. (Name)

Title

APPROVED

FEB 20 1950

Well was originally completed on December 24, 1949, for an initial production of 30 bbls. daily from the Queen sand. Authority to perforate and produce gas from the Yates was granted by the Oil Conservation Commission on January 24, 1950. The well was killed with mud - tubing pulled and the 5½" casing perforated as follows:

88	holes	from	2955-2998
20	"	"	3005-3015
26	"	"	3025-3038
70	"	"	3045-3080
50	"	"	3145-3170
20	"	"	3180-3190

The 2 3/8" tubing was then run back to 3612' with an American packer set at 3378-3384' and an Otis side door choke in the tubing at 3187'. The packer was set and the mud in the tubing and between the tubing and casing was circulated out and displaced with oil - the Otis choke was then closed - the tubing was swabbed and the well cleaned up and started producing oil from the Queen.

Pressure built up on the casing to 800# and the well was opened and unloaded the oil load above the packer and between the tubing and casing. The well was blown for several hours to clean up. Absolute open flow was 13,200 MCF (back pressure test).

Shut in casing pressure was 1183#.

DUPLICATE

Form C-110

OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

RECEIVED DEC 30 1949 HOBBS OFFICE

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL

Company or Operator Culbertson & Irwin, Inc. Lease Nina Lankford

Address Jal, New Mexico (Local or Field Office) Box 1071, Midland, Texas (Principal Place of Business)

Unit O Wells No. 1 Sec 25 T 23 R 36 Field Langlie-Mattix County Lea

Kind of Lease Fee Location of Tanks SW/4 NE/4 Section 25

Transporter Texas-New Mexico Pipe Line Co. Address of Transporter (Local or Field Office)

Midland, Texas (Principal Place of Business) Percent of oil to be transported 100. Other transporters authorized to transport oil from this unit are none %

REMARKS:

The undersigned certifies that the rules and regulations of the Oil Conservation Commission have been complied with except as noted above and that gathering agent is authorized to transport the percentage of oil produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Oil Conservation Commission of New Mexico.

Executed this the 28th day of December, 1949.

CULBERTSON & IRWIN, INC.
(Company or Operator)

By [signature]

Title President

State of TEXAS
County of MIDLAND } ss.

Before me, the undersigned authority, on thisday personally appeared L. A. CULBERTSON known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report it true and correct.

Subscribed and sworn to before me, this the 28th day of December, 1949

Dorene Frankein

Notary Public in and for Midland County, Texas

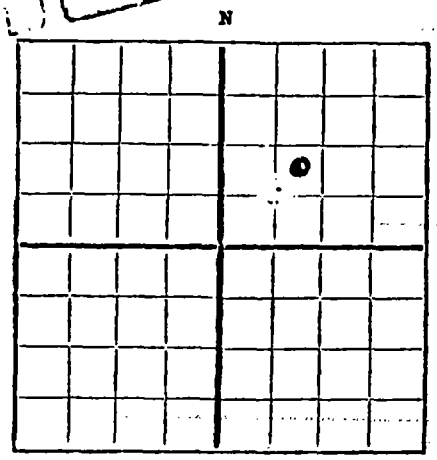
Approved: 12-29-1949
OIL CONSERVATION COMMISSION

By Roy O. Yarbrough

(See Instruction on Reverse Side)

DUPLICATE

FORM C-105



AREA 640 ACRES
LOCATE WELL CORRECTLY

RECEIVED
DEC 28 1949
HOBBS OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Culbertson & Irwin, Inc. (Company or Operator) Box 1071, Midland, Texas (Address)

Mina Lankford (Lease) Well No. 1 in SW/4 NE/4 of Sec. 25, T. 23S

R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

Well is 1650 feet south of the North line and 1650 feet west of the East line of Section 25

If State land the oil and gas lease is No. ..... Assignment No. .....

If patented land the owner is Mina Lankford, Address .....

If Government land the permittee is ....., Address .....

The Lessee is Culbertson & Irwin, Inc., Address .....

Drilling commenced Oct. 19 19 49 Drilling was completed Dec. 21 19 49

Name of drilling contractor Oil Well Remedial Service, Address Odessa, Texas

Elevation above sea level at top of casing 3348 feet.

The information given is to be kept confidential until Not confidential 19 .....

OIL SANDS OR ZONES

No. 1, from 3515 to 3525 No. 4, from 3630 to 3635

No. 2, from 3555 to 3575 No. 5, from ..... to .....

No. 3, from 3600 to 3610 No. 6, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
13	48	8	Used	60	T.P.				Conductor
8 5/8	28	8	"	1195	T.P.				Surface
5½	14	8	New	3460	Halliburton Float				Oil string

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
16"	13	60	75	Halliburton		
11"	8 5/8	1195	700	"		
8"	5½	3460	200	"		

PLUGS AND ADAPTERS

Heaving plug—Material..... Length..... Depth Set.....

Adapters — Material..... Size.....

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
3½"	Tin	Nitro	250	12/3/49	3637-3537	T.D.
					3525-3500	

Results of shooting or chemical treatment Produced 30 bbls. in 24 hrs. after shot - no natural test.

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from 0 feet to 3637 feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

PRODUCTION

Put to producing Dec. 24, 19 49

The production of the first 24 hours was 30 barrels of fluid of which 100 % was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, Be. 34

If gas well, cu. ft. per 24 hours..... Gallons gasoline per 1,000 cu. ft. of gas.....

Rock pressure, lbs. per sq. in.....

EMPLOYEES

DRILLING CONTRACTOR'S

L. B. Coon, Jr., Driller — L. L. Ballard, Driller

Jim Talifino, Driller — ....., Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 27th day of December, 1949

Darene Fraurein
Notary Public

My Commission expires June 1, 1951

Midland, Texas (Place) Dec. 27, 1949 (Date)

Name [signature]

Position President

Representing Culbertson & Irwin, Inc. (Company or Operator)

Address Box 1071, Midland, Texas

APPROVED

DEC 2 1949

Date

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	50	50	Sand & gravel
50	100	50	Red & gray shale
100	200	100	Sand & shale
200	700	500	Red & gray shale
700	750	50	Sand
750	1180	430	Red rock
1180	1285	105	Anhydrite
1285	1500	215	Salt, anhydrite & red rock
1500	1800	300	Salt & anhydrite
1800	1900	100	Anhydrite & red rock
1900	2000	100	Anhydrite
2000	2250	250	Salt
2250	2280	30	Anhydrite
2280	2350	70	Salt
2350	2380	30	Anhydrite
2380	2500	120	Salt
2500	2575	75	Salt & anhydrite
2575	2750	225	Salt
2750	2790	40	Anhydrite
2790	2930	140	Brown lime & anhydrite
2930	3000	70	Lime & sand
3000	3070	70	Lime
3070	3250	180	Lime & sand
3250	3460	210	Lime
3460	3500	40	Lime, Sand & shale
3500	3520	20	Sand & lime
3520	3550	30	Lime
3550	3575	25	Sand
3575	3600	25	Lime
3600	3637	37	Lime & sand
			T.D. 3637

Form C-103

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

November 29, 1949 — Date
Midland, Texas — Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the Culbertson & Irwin, Inc. (Company or Operator) Nina Lankford (Lease) Well No. 1 in the NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

The dates of this work were as follows: 11/25/49

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on 11/12 1949 and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

5½" casing set at 3460 and cemented on 11/11/49 with 200 sax. Plug drilled 11/25/49 and tested with 1200# pump pressure. Complete shut-off obtained and drilling resumed.

Witnessed by J. L. Brown (Name) Culbertson & Irwin, Inc. (Company) Asst. Supt. (Title)

Subscribed and sworn before me this 29th day of November 1949

Notary Public

My commission expires June 1, 1951

I hereby swear or affirm that the information given above is true and correct.

Name [signature]

Position President

Representing Culbertson & Irwin, Inc. (Company or Operator)

Address Box 1071, Midland, Texas

Remarks:

[signature] (Name)

(Title)

Form C-102

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

NOV 1 1949

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	X	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Midland, Texas (Place) November 12, 1949 (Date)

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the Culbertson & Irwin, Inc. (Company or Operator) Nina Lankford (Lease) Well No. 1 in NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field. Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

5½" 14# J-55 new seamless casing set in brown lime at 3460' with total depth of 3461', and cemented by Halliburton November 11, 1949, with 200 sacks. Will let set 60 hours, drill plug November 14 and test with 1000# pump pressure.

Approved _____, 19____
except as follows:

OIL CONSERVATION COMMISSION,

By Roy Lankford

Title _____

CULBERTSON & IRWIN, INC.
Company or Operator

By [signature]

Position President

Send communications regarding well to

Name Culbertson & Irwin, Inc.

Address Box 1071, Midland, Texas

Form C-103

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS	X	REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

November 1, 1949 — Date

Midland, Texas — Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the Culbertson & Irwin, Inc. (Company or Operator) Mina Lankford (Lease) Well No. 1 in the NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

The dates of this work were as follows: 10/19-49 and 10/30/49

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on 10/28 19 49

and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Drilling commenced 10/19/49.

60' of 13 3/8" conductor set and cemented to surface on 10/21/49. Gas pressure was encountered at 720'. 8 5/8" casing set at 1195' and cemented to surface with 700 sacks 10/28/49. Drilled plug 10/30/49 and tested with 1000# pressure. Shut off obtained and drilling resumed.

Witnessed by Jack T. Brown (Name) Culbertson & Irwin, Inc. (Company) Asst. Supt. (Title)

Subscribed and sworn before me this 1st day of November 1949

Dorene Franklin
Notary Public

My commission expires June 1, 1951

I hereby swear or affirm that the information given above is true and correct.

Name [signature]

Position President

Representing Culbertson & Irwin, Inc.
Company or Operator

Address Box 1071, Midland, Texas

Remarks:

Roy Yarbrough
Name

Title

Form C-102

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	X	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Midland, Texas (Place) October 28, 1949 (Date)

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the Culbertson & Irwin, Inc. (Company or Operator) Nina Lankford (Lease) Well No. 1 in NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

8 5/8", 32# seamless casing set at 1195' with total depth of 1200', and cemented to surface with 700 sacks by Halliburton on October 28, 1949.

Will let set 48 hours and drill plug October 30, 1949.

Will test with 1000# pump pressure.

Approved [illegible], 19____
except as follows:

OIL CONSERVATION COMMISSION,
By [illegible]
Title [illegible]

CULBERTSON & IRWIN, INC.
Company or Operator
By [signature]
Position President
Send communications regarding well to
Name Culbertson & Irwin, Inc.
Address Box 1071
Midland, Texas

NOTICE OF INTENTION TO DRILL

Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

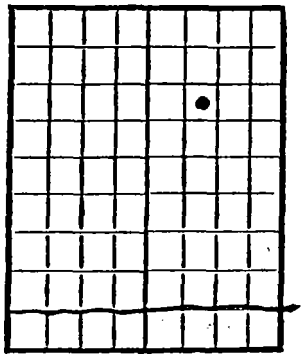
Midland, Texas. (Place) 10-14-49 (Date)

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico,

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as Culbertson & Irwin Inc. (Company or Operator) Nina Lankford Well No. 1 in SW/4 NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Lanehie Mattix Field, Lea County.

N



AREA 640 ACRES

LOCATE WELL CORRECTLY

The well is 1650 feet (N.) (S.) of the North line and 1650 feet (W.) of the East line of Section 25, 23-36

(Give location from section or other legal subdivision lines. Cross out wrong directions.)

If state land the oil and gas lease is No. ..... Assignment No. .....

If patented land the owner is Nina Lankford

Address Alpine, Texas

If government land the permittee is .....

Address .....

The lessee is .....

Address .....

We propose to drill well with drilling equipment as follows: Rotary to total depth

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: Culbertson & Irwin Inc. Blanket

We propose to use the following strings of casing and to land or cement them as indicated:

Size of Hole	Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented	Sacks Cement
16"	13"	48#	New	90'	Cemented	To surface
11"	8 5/8"	28#	"	1200'	"	" "
8"	5 1/2"	15#	"	3450'	"	200 sacks

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil or gas sand should occur at a depth of about 3150' feet.

Additional information: If commercial production is obtained in the Queen sand at approx. 3500' we will ask for approval of a dual completion; Gas from Yates thru perforations in 5 1/2" and oil from Queen thru tubing with packer set in casing between zones.

Approved ....., 19..
except as follows:

Sincerely yours,

Culbertson & Irwin Inc.
(Company or Operator)

By [signature]

Position President

Send communications regarding well to

Name Above Company

Address Box 1071 Midland, Texas

OIL CONSERVATION COMMISSION,

By [signature]

Title .....

DOYLE HARTMAN
Oil Operator
500 N. MAIN
P. O. BOX 10426
MIDLAND, TEXAS 79702

(915) 684-4011

January 25, 1984

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Michael Stogner

Re: Administrative Procedure
Infill Finding
Lankford No. 2
1980 FNL & 1980 FEL (G)
Section 25, T-23-S, R-36-E
Lea County, New Mexico

Gentlemen:

Pursuant to Section 271.305 of the Final Rules and Regulations of the Federal Energy Regulatory Commission relating to Section 103 of the Natural Gas Policy Act of 1978, and to Order R-6013-A of the New Mexico Oil Conservation Division, we hereby request an infill finding (NFL) for the above captioned Lankford No. 2 located 1980 FNL & 1980 FEL (G) Section 25, T-23-S, R-36-E, Lea County, New Mexico.

With regard to our request, and in accordance with Order R-6013-A, we submit the following:

Rule 5 — A copy of approved Form C-101 for the infill well and Form C-102 showing the proration unit dedicated to the well are enclosed.

Rule 6 — The name of the pool in which the infill well has been drilled is Jalmat (Gas) Pool, and the standard spacing unit therefor is 640 acres.

Rule 7 — The number of the Administrative Order approving the simultaneous dedication and 120-acre non-standard proration unit dedicated to the well is SD-84-1.

Rule 8 — Table 1 attached to William P. Aycock's letter dated January 20, 1984 shows the following:

a. Lease name and well location;
b. Spud date;
c. completion date;

d. a description of any mechanical problems experienced along with a summary of remedial action(s) taken and the results obtained;
e. the current rate of production;
f. date of plug and abandonment, if any, and;
g. a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the proration.

Rule 9 Letter dated January 20, 1984 from William P. Aycock submits geological and engineering information sufficient to support a finding as to the necessity for an infill well including:

a. formation structure map;

b. the volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined;

c. any other supporting data which the applicant deems to be relevant which may include:

1. porosity and permeability factors
2. Production/pressure decline curve
3. effects of secondary recovery or pressure maintenance operations
4. C-104 and C-105 (including Inclination Report)
5. Scout Ticket and Well Log Summary for Doyle Hartman's Lankford No. 2 (Infill Jalmat (Gas) Well)
6. Scout Ticket and Well Log Summary for Doyle Hartman's Lankford No. 1.

Rule 10 This application for infill finding is being filed in duplicate with the Santa Fe office of the Oil Conservation Division.

Rule 11 All operators of proration or spacing units offsetting the unit for which this infill finding is sought have been notified of this application by certified or registered mail.

We respectfully request that the Commission grant our request for an infill finding pursuant to Order R-6013-A.

Very truly yours,

DOYLE HARTMAN

Michelle Hembree

Michelle Hembree
Administrative Assistant

/mh

Enclosures as above

cc: Mr. William F. Carr
Campbell, Byrd and Black, P.A.
Post Office Box 2208
Santa Fe, New Mexico 87501

WILLIAM P. AYCOCK & ASSOCIATES, INC.
Petroleum Engineering Consultants
308 WALL TOWERS WEST
MIDLAND, TEXAS 79701
PHONE 915/683-5721

January 20, 1984

RECEIVED
JAN 27 1984
OIL CONSERVATION DIVISION
SANTA FE

New Mexico Department of Energy and Minerals,
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Mike Stogner

Subject: Administrative Application for Infill Well Findings for Doyle Hartman's Lankford No. 2 Well, Section 25, Township 23 South, Range 36 East, Jalmat Pool, Lea County, New Mexico

Gentlemen:

Application is hereby made for an administrative infill well finding effective with initial gas deliveries for the described well. In accordance with Exhibit "A", Order R-6013-A, the following are furnished:

Rule 5: Attached are copies of the Forms C-101 and C-102 for the application well.

Rule 6: The name of the pool in which the infill well has been drilled is the Jalmat Pool, and the standard spacing therefore is 640 acres per well.

Rule 7: The non-standard proration unit and unorthodox well location and simultaneous dedication were approved administratively by Order SD-84-1 dated October 17, 1983, a copy of which is attached hereto.

Rule 8: Sections "a." through "f." are included on the attached "Summary of Required Information, Rule 8, Exhibit "A", Order No. R-6013-A.

Section "g." requires "...a clear and concise statement indicating why the existing well(s) on the proration unit cannot effectively and efficiently drain the portion of the reservoir covered by the proration unit." The Jalmat Pool reserviors beneath the described proration unit were (Prior to the drilling and completion of the "application well") assigned to the Doyle Hartman (Petroleum Corporation of Texas) Lankford No. 1 well, located in Unit G of Section 25, Twp. 23 South, Range 36 East @1650' FS&EL. This well was originally completed December 24, 1949, from Langlie-Mattix Pool open hole between depths of 3485 feet and 3635 feet; the well was dually completed with the Jalmat Pool, between depths of 2955 and 3190 feet, in February, 1950. The Jalmat Pool completion had an absolute potential of 13,700 MCF/D. The last production from the Langlie-Mattix Pool interval was in May, 1959; This well has been a singly completed Jalmat Pool gas well since that time. As of January 1, 1984, the Jalmat Pool completion had produced an accumulated gas volume of 5626.4 MMCF and was producing at a rate of approximately 35 MCF per day.

The observed wellhead shut-in pressures from the pre-existing well and the application well indicate that the pre-existing well was not effectively and efficiently draining the 120-acre proration unit simultaneously dedicated to the pre-existing and application wells; because of both the variation in effective permeability and the length of time the Jalmat Pool Yates and Seven Rivers geologic intervals have been produced in the vicinity of the application well, the interpretation of observed static pressures is not straight forward. Doyle Hartman's considerable experience in the Jalmat Pool under contemporary conditions is that, depending upon the degree of formation damage existing subsequent to drilling a well and setting and cementing casing in the well, the most representative initial shut-in wellhead pressures may be observed either immediately after clean up of the initial acid breakdown or after hydraulic fracture treatment. Further, apparent cross flow of gas from less depleted to more depleted intervals within the Jalmat Pool occurs at the same time, and such cross flow effectively substantially reduces the observed pressure. Accordingly, the following pressures were observed for the pre-existing and application wells.

WELL	DATE	OBSERVED SHUT-IN WELLHEAD PRESSURE, PSIA
Lankford 1	July 13, 1982	97.2
Lankford 1*	December 31, 1983	84.4
Lankford 2	January 3, 1984	104.2
Lankford 2**	January 17, 1984	208.2
Lankford 2	January 18, 1984	121.2

*Estimated from prior BHP/Z as function of cumulative gas.

**Peak flowing casing pressure subsequent to unloading fluid after formation gas was produced subsequent to hydraulic fracture treatment. The actual shut-in could be equal to or greater than the observed 208.2 psia

Therefore the wellhead pressures observed while completing the Lankford No. 2 are between 20.0 psia and 123.8 psia greater than the estimated shut-in wellhead pressure at December 31, 1983 for the Lankford No. 1, indicating ineffective and inefficient drainage from the 120-acre proration unit assigned simultaneously to the Lankford No. 1 and the Lankford No. 2.

Rule 9:

Section "a." requires that a formation structure map be submitted; attached is a Yates formation structure map of that portion of the Jalmat Pool including and immediately surrounding NW/4 NE/4 and S/2 NE/4 Section 25, Twp. 23 South, Range 36 East.

Section "b." requires that the "volume of increased ultimate recovery expected to be obtained and a narrative describing how the increase was determined " be submitted. The estimated ultimate gas recovery for the Doyle Hartman Lankford No. 2 well is at least 127 MMCF and could be equal to or greater than 456 MMCF. The estimates of increased ultimate recovery for the application wells were accomplished as follows:

(1) Well logs for the Hartman Lankford No. 2 were analyzed, with results summarized as follows:

Mean Porosity, Fraction of Bulk Volume	0.173
Mean Connate Water Saturation, Fraction of Net Effective Pore Volume	0.243
Net Effective Pay Thickness, Feet	86.

The gross pay interval consistent with the above is 156', so the ratio of net effective pay to gross pay is 86 divided by 156 or about 55 percent.

(2) The production tests for the Hartman Lankford No. 2 dated January 19 & 20, 1984, were analyzed, with results summarized as follows:

Stabilized Deliverability Coefficient, MCF/day per psia/2	0.126896	0.0214076
Initial Stabilized Well-head Shut-in Pressure (Pc), psia	121.2	208.2
Initial Gas Formation Volume Factor, scf/rcf	8.103	14.149

(3) The results of steps (1) and (2) were then combined, resulting in the following:

Original Gas-in-place		
MMCF/Acre	3.98	6.95
MMCF/120 Acres	478	834
Est. Gas Rec. Factor, Fcn. of O.G.I.P.	0.631	0.756
Est. Ult. Recovery, MMCF per 120 Acres	302	631

The estimated increased gas recovery is then the difference in these estimated remaining gas recovery for the Lankford No. 1 at December 31, 1983 of 174.8 MMCF:

302	631
-175	-175
127MMCF	456MMCF

The economic limit of production based on Doyle Hartman's experience in the Jalmat Pool is about 500 MCF per month.

Section "c." other supporting data submitted include the following:

Gas Production History Tabulation and Graph for both Doyle Hartman (Petroleum Corporation of Texas) Lankford No. 2, (the pre-existing well), and the Conoco Lynn "B"-25 No. 1 located in unit (J) 25-23S, 36E (the nearby key well).

Complete New Mexico Oil Conservation Division (NMOCD) forms on file for both the pre-existing and application wells.

New Mexico Oil Conservation Division Order No. SD-84-1

Daily drilling reports for the period January 18-20, 1984.

We believe that this information adequately documents this application; however, we should be pleased to supply you anything else that you might require in this connection.

Very truly yours,

Wm. P. Aycock, P. E.

WPA/vkf
Attachments

TABLE NO. 1

SUMMARY OF REQUIRED INFORMATION, RULE 8, EXHIBIT "A", ORDER R-6013-A,
(Sections "a." through "f.")
NATURAL GAS POLICY ACT INFILL FINDINGS, ADMINISTRATIVE PROCEDURE

SECTION OF RULE 8	RULE 8 REQUIREMENT	PRE-EXISTING WELL DOYLE HARTMAN, OPERATOR*	INFILL APPLICATION WELL DOYLE HARTMAN, OPERATOR
a.	Lease Name and Well Location	Lankford No. 1 1650' FNL & 1650' FEL 25-23S-36E	Lankford No. 2 1980' FNL & 1980' FEL 25-23S-36E
b.	Spud Date	October 21, 1949	December 17, 1983
c.	Completion Date	December 24, 1949	January 3, 1984
d.	Mechanical Problems	None	None
e.	Current Rate of Production	Approx. 35 MCF/D	Production Test subsequent to fracture treatment: 386 to 738 MCF/D

Originally completed by Culbertson/White Sand; Petroleum Corporation of Texas prior to operations assumed by Doyle Hartman.

30-025-28431

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OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-101
Revised 1-1-65

5A. Indicate Type of Lease: STATE [ ] FEE [X]

5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well: OIL WELL [ ] GAS WELL [X] OTHER SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. Unit Agreement Name

8. Farm or Lease Name: Lankford

2. Name of Operator: Doyle Hartman

9. Well No.: 2

3. Address of Operator: Post Office Box 10426, Midland, Texas 79702

10. Field and Pool, or Wildcat: Jalmat (Gas)

4. Location of Well: UNIT LETTER G LOCATED 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE OF SEC. 25 TWP. 23S RGE. 36E NMPM

12. County: Lea

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18. Proposed Depth	19A. Formation	20. Rotary or C.T.
3700	Yates-Seven Rivers	Rotary

21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor	22. Approx. Date Work will start
3348.5 G.L.	Multi-Well Approved	Not Selected	November, 1983

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12 1/4	9 5/8	36.0	400	500	Surface
8 3/4	7	23.0	3700	800	Surface

The proposed well will be drilled to a total depth of 3700 feet and will be completed as a Jalmat (Yates-Seven Rivers) Gas producer. From the base of the surface pipe through the running of the production casing, the well will be equipped with a 3000-psi double ram BOP system.

NOTE: Any gas produced from the proposed well has previously been dedicated to El Paso Natural Gas Company.

APPROVAL VALID FOR 180 DAYS
PERMIT EXPIRES 4/26/84
UNLESS DRILLING UNDERWAY

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Larry A. Nemo *Title* Engineer *Date* October 11, 1983

(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

APPROVED BY _____ TITLE _____ DATE OCT 27 1983

CONDITIONS OF APPROVAL, IF ANY:

OCT 28 1983

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
DOYLE HARTMAN	LANKFORD	2

Unit Letter	Section	Township	Range	County
G	25	23 SOUTH	36 EAST	LEA

Actual Footage Location of Well: 1980 feet from the NORTH line and 1980 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
3348.5	Yates-Seven Rivers	Jalmat (Gas)	120 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

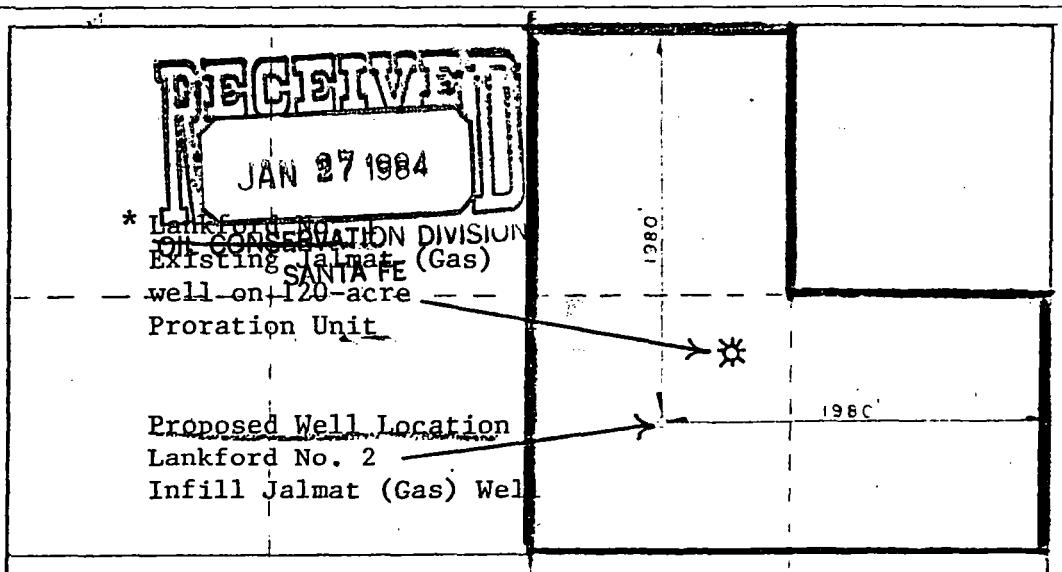
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



*NOTE: A study is presently being performed to determine the feasibility of recompleting the Lankford No. 1 to the Langlie Mattix interval

CERTIFICATION

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

Name: Larry A. Nermyr

Signature: Larry A. Nermyr

Position: Engineer

Company: Doyle Hartman

Date: October 12, 1983

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: OCTOBER 4, 1983

Registered Professional Engineer and/or Land Surveyor: JOHN W. WEST

Certificate No. 676

STATE OF NEW MEXICO PROFESSIONAL ENGINEER & LAND SURVEYOR JOHN W. WEST

330 660 90 1320 1650 1980 2310 2640 2000 1500 1000 500

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONEY ANAYA
GOVERNOR

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

October 17, 1983

Doyle Hartman
P. O. Box 10426
Midland, Texas 79702

Attention: Michelle Hembree

Administrative Order SD-84-1

Gentlemen:

You are hereby authorized to simultaneously dedicate an existing 120-acre non-standard proration unit comprising the NW/4 NE/4 and S/2 NE/4 of Section 25, Township 23 South, Range 36 East, NMPM, Lea County, to your Lankford Well No. 1 located at a point 1650 feet from the North line and 1650 feet from the East line of said Section 25, and your Lankford Well No. 2 to be located 1980 feet from the North line and 1980 feet from the East line of said Section 25, both in Township 23 South, Range 36 East, NMPM, Jalmat Gas Pool, Lea County, New Mexico.

Further, you are hereby permitted to produce the allowable from any of the wells on the proration unit in any proportion.

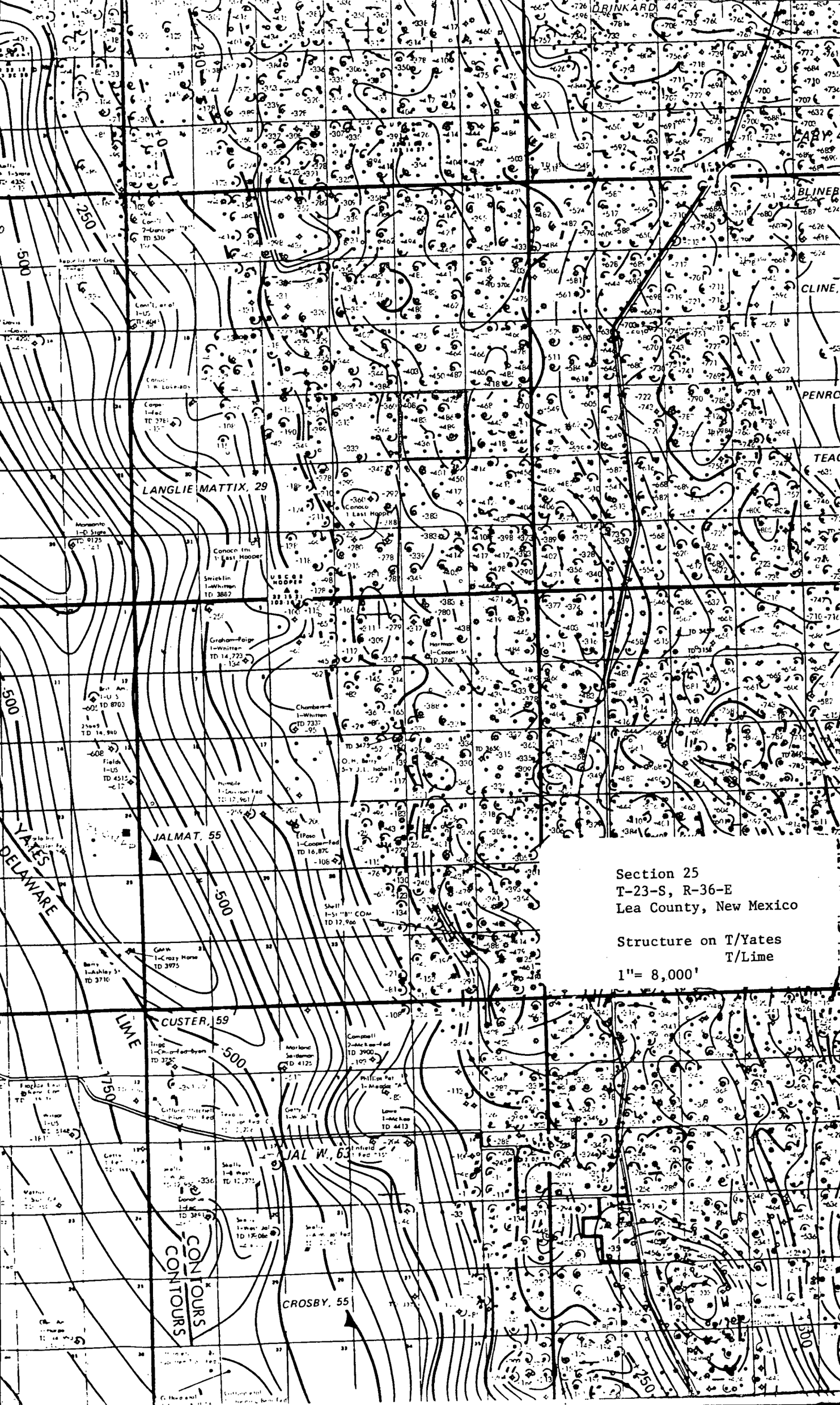
Sincerely,

JOE D. RAMEY,
Director

dr/

cc: Oil Conservation Division - Hobbs
Oil and Gas Engineering Committee - Hobbs
Bureau of Land Management - Hobbs

OCT 20 1983


DRINKARD
CLINE
PENRO
LANGLIE MATTIX, 29
JALMAT, 55
YATES
DELAWARE
LIME
CUSTER, 59
JAL W., 63
CROSBY, 55
CONTOURS
CONTOURS
Section 25
T-23-S, R-36-E
Lea County, New Mexico
Structure on T/Yates
T/Lime
1"= 8,000'

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	GAS	
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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-
Effective 1-1-65

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JAN 27 1984
OIL CONSERVATION DIVISION
SANTA FE

I. Operator: Doyle Hartman

Address: Post Office Box 10426, Midland, Texas 79702

Reason(s) for filing *(Check proper box)*

New Well [X]
Recompletion [ ]
Change in Ownership [ ]

Change in Transporter of:
Oil [ ] Dry Gas [ ]
Casinghead Gas [ ] Condensate [ ]

Other *(Please explain)*

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

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Lankford	2	Jalmat (Gas) Yates-7 Rivers	State, Federal or Fee Fee	

Location

Unit Letter: G ; 1980 Feet From The North Line and 1980 Feet From The East

Line of Section 25 Township 23S Range 36E , NMPM, Lea County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil [ ] or Condensate [ ] — Address *(Give address to which approved copy of this form is to be sent)*

Name of Authorized Transporter of Casinghead Gas [ ] or Dry Gas [X] — Address *(Give address to which approved copy of this form is to be sent)*

El Paso Natural Gas Company — Two Petroleum Center, Suite 200, Midland, TX 79705

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
					No	ASAP

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	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
		X	X					

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
12-17-83	1-3-84	3700	3697
Elevations *(DF, RKB, RT, GR, etc.)*	**Name of Producing Formation**	**Top Oil/Gas Pay**	**Tubing Depth**
3348.5 G.L.	Yates-Seven Rivers	2962	3080

Perforations: 2962-3239 w/22 holes (Yates-Seven Rivers)

Depth Casing Shoe: 3700

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12-1/4	9-5/8	400	250 (circ)
8-3/4	7	3700	850 (circ)

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)

OIL WELL

Date First New Oil Run To Tanks	Date of Test	Producing Method *(Flow, pump, gas lift, etc.)*	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
58	24 hours	----	----
Testing Method *(pitot, back pr.)*	**Tubing Pressure (Shut-in)**	**Casing Pressure (Shut-in)**	**Choke Size**
Orifice Tester	SITP= 91, FTP= 60	SICP= 91, FCP= 60	12/64

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.

Michelle Hembree
(Signature)

Administrative Assistant
(Title)

January 4, 1984
(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.

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Form C-105
Revised 10-1-78

NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Indicate Type of Lease: State [ ] Fee [X]

5. State Oil & Gas Lease No.

1a. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] DRY [ ] OTHER

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [ ] DEEPEN [ ] PLUG BACK [ ] DIFF. RESVR. [ ]

7. Unit Agreement Name

8. Farm or Lease Name: Lankford

2. Name of Operator: Doyle Hartman

9. Well No.: 2

3. Address of Operator: Post Office Box 10426, Midland, Texas 79702

10. Field and Pool, or Wildcat: Jalmat (Gas)

RECEIVED JAN 27 1984 OIL CONSERVATION DIVISION SANTA FE

4. Location of Well: UNIT LETTER G LOCATED 1980 FEET FROM THE North LINE AND 1980 FEET FROM THE East LINE OF SEC. 25 TWP. 23S RGE. 36E NMPM

12. County: Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Cashinghead
12-17-83	12-23-83	1-3-84	3348.5 G.L.	3348

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
3700	3697	---	→	0-3700	----

24. Producing Interval(s), of this completion — Top, Bottom, Name: 2962-3239 (Yates-Seven Rivers)

25. Was Directional Survey Made: No

26. Type Electric and Other Logs Run: CDD-SNL, Guard-Forxo

27. Was Well Cored: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8	36	400	12-1/4	250 (circ)	None
7	23	3700 RKB	8-3/4	850 (circ)	None

29. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN

30. TUBING RECORD

SIZE	DEPTH SET	PACKER SET
2-3/8	3080	None

31. Perforation Record (Interval, size and number)

22 shots with one shot each at:
2962, 2965, 2982, 2984, 2997, 2999, 3014, 3027, 3030, 3033, 3045, 3127, 3129, 3138, 3145, 3148, 3163, 3166, 3169, 3181, 3237, 3239

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
2962-3239	A/6000 gals 15% MCA

33. PRODUCTION

Date First Production	Production Method (Flowing, gas lift, pumping — Size and type pump)	Well Status (Prod. or Shut-in)
1-3-84	Pumping	Shut-in

Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil — Bbl.	Gas — MCF	Water — Bbl.	Gas — Oil Ratio
1-3-84	24	12/64	→	---	58	----	----

Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil — Bbl.	Gas — MCF	Water — Bbl.	Oil Gravity — API (Corr.)
60	60	→	----	58	----	----

34. Disposition of Gas (Sold, used for fuel, vented, etc.): Vented

Test Witnessed By: L. Nermyr

35. List of Attachments: Inclination Report, C-104

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.

SIGNED Michelle Nemyer TITLE Administrative Assistant DATE Jan. 4, 1984

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico				Northwestern New Mexico			
T. Anhy	1183	T. Canyon		T. Ojo Alamo		T. Penn. "B"	
T. Salt	1280	T. Strawn		T. Kirtland-Fruitland		T. Penn. "C"	
B. Salt	2785	T. Atoka		T. Pictured Cliffs		T. Penn. "D"	
T. Yates	2946	T. Miss		T. Cliff House		T. Leadville	
T. 7 Rivers	3186	T. Devonian		T. Menefee		T. Madison	
T. Queen	3550	T. Silurian		T. Point Lookout		T. Elbert	
T. Grayburg		T. Montoya		T. Mancos		T. McCracken	
T. San Andres		T. Simpson		T. Gallup		T. Ignacio Qtzte	
T. Glorieta		T. McKee		Base Greenhorn		T. Granite	
T. Paddock		T. Ellenburger		T. Dakota		T.	
T. Blinebry		T. Gr. Wash		T. Morrison		T.	
T. Tubb		T. Granite		T. Todilto		T.	
T. Drinkard		T. Delaware Sand		T. Entrada		T.	
T. Abo		T. Bone Springs		T. Wingate		T.	
T. Wolfcamp		T.		T. Chinle		T.	
T. Penn.		T.		T. Permian		T.	
T. Cisco (Bough C)		T.		T. Penn. "A"		T.	

OIL OR GAS SANDS OR ZONES

No. 1, from 2962 to 3239 No. 4, from ..... to .....

No. 2, from ..... to ..... No. 5, from ..... to .....

No. 3, from ..... to ..... No. 6, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

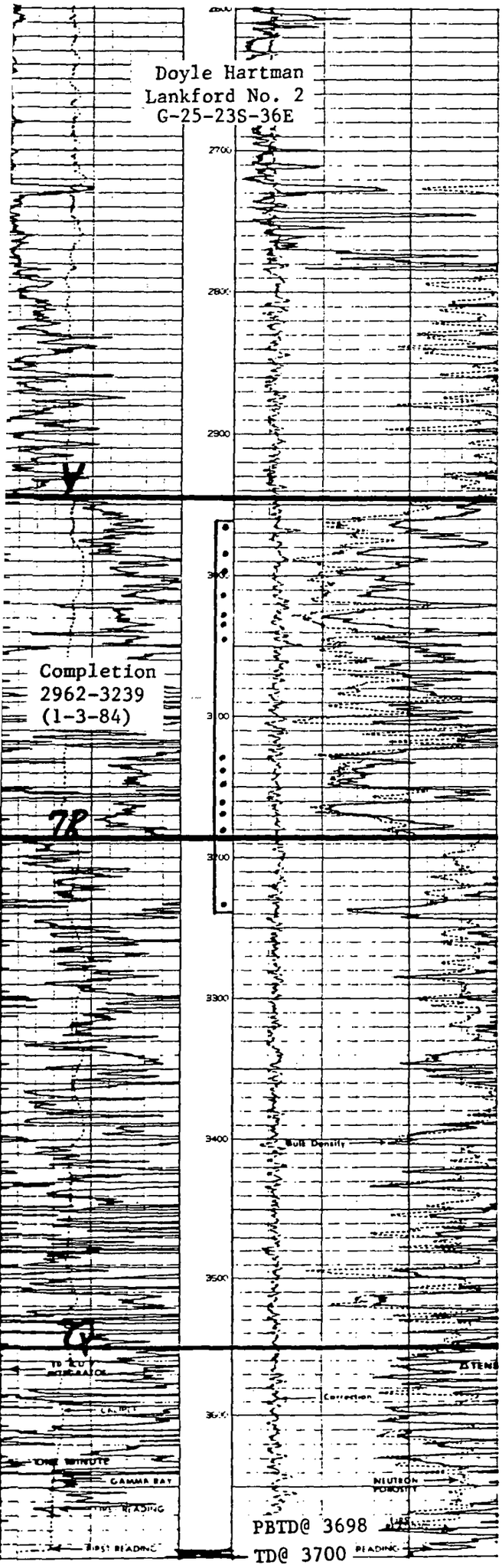
No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
1183	1280	97	Rustler (Anhydrite)				
1280	2785	1505	Salado Salt (Salt & Anhydrite)				
2785	2946	161	Tansill (Dolomite & Anhydrite)				
2946	3186	240	Yates (Dolomite & Sandstone)				
3186	3550	364	Seven Rivers (Dolomite & Sandstone)				
3550	3662	112	Queen (Dolomite & Sandstone)				
3662	3700	38	Penrose (Dolomite & Sandstone)				

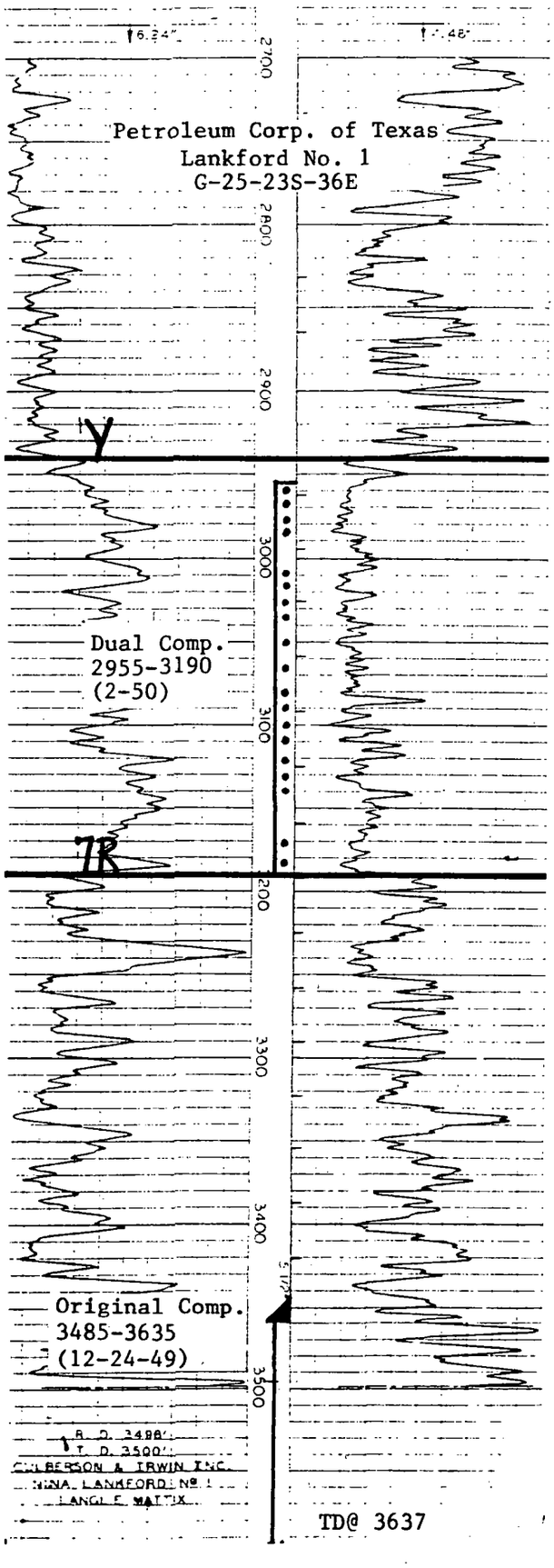


G-25-23S-36E

COMPANY	Doyle Hartman
WELL	Lankford No. 2
FIELD	Jalmat (Gas)
LOCATION	1980 FNL & 1980 FEL (G)
	Section 25, T-23-S, R-36-E
	(23-36-25-G)
COUNTY	Lea
STATE	New Mexico
ELEVATIONS:	KB
	DF
	GL 3348.5

COMPLETION RECORD

SPUD DATE	12-17-83	COMP. DATE	1-3-84
TD	3700	PBTD	3697
CASING RECORD	9-5/8 @ 400 w/250		
	7 @ 3700 w/850		
PERFORATING RECORD	Perf: 2962-3239 w/22		
STIMULATION	A/6000		
IP	IPF= 58 MCFPD		
GOR		GR	
TP	60	CP	60
CHOKE	12/64"	TUBING	2-3/8 @ 308(
REMARKS	1-18-84: SF/110,950 + 253,000. F/406 MCFPD.		



COMPANY	Petroleum Corp. of Texas
	(Culbertson/White Sand)
WELL	Lankford No. 1
FIELD	Langlie-Mattix & Jalmat
LOCATION	1650 FNL & 1650 FEL (G)
	Section 25, T-23-S, R-36-E
	(23-36-25-G)
COUNTY	Lea
STATE	New Mexico
ELEVATIONS:	KB
	DF 3354
3-28-83	GL

COMPLETION RECORD

SPUD DATE	10-21-49	COMP. DATE	12-24-49
TD	3637	PBTD	
CASING RECORD	13 @ 60 w/75		
	8 5/8 @ 1215 w/700		
	5 1/2 @ 3460 w/250		
PERFORATING RECORD	OH: 3485-3635		
STIMULATION	Natural		
IP	IPF=30 BOPD		
GOR		GR	34
TP	150	CP	400
CHOKE	TUBING	2	@ 3600
REMARKS			

2-50: Dual. Perf 2955-3190.
CAOF 13200 MCF.

5-59 Last Langlie Mattix (Oil)
Production - Cum Prod: 12.3 MBO.

1982 Jalmat Cum: 5579 MMCF

1982 Jalmat Avg. Prod: 157 MCFPD

G-25-23S-36E

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	GAS	
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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-1
Effective 1-1-65

I.

Operator: Doyle Hartman

Address: Post Office Box 10426, Midland, Texas 79702

Reason(s) for filing (Check proper box)

- New Well ☐
- Recompletion ☐
- Change in Ownership XX
- Change in Transporter of: Oil ☐ Dry Gas ☐ Casinghead Gas ☐ Condensate ☐

Other (Please explain)

If change of ownership give name and address of previous owner: Petroleum Corporation of Texas P. O. Box 911, Breckenridge, Texas 76024

II. DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease	Lease No.
Lankford	1	Jalmat (Gas)-Yates	State, Federal or Fee Fee	

Location: Unit Letter G ; 1650 Feet From The North Line and 1650 Feet From The East

Line of Section 25 Township 23S Range 36E , NMPM, Lea County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate ☐ — Address (Give address to which approved copy of this form is to be sent)

Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☒ — Address (Give address to which approved copy of this form is to be sent)

El Paso Natural Gas Company — Post Office Box 1384, Jal, New Mexico 88252

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
					Yes	May, 1950

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	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
Elevations (DF, RKB, RT, GR, etc.)	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Perforations			Depth Casing Shoe

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

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)

OIL WELL

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pitot, 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.

Michelle Hemlree
(Signature)

Administrative Assistant
(Title)

April 20, 1983, to be effective May 2, 1983
(Date)

OIL CONSERVATION COMMISSION

APPROVED APR 22 1983, 19____

BY ORIGINAL SIGNED BY JERRY SEXTON
DISTRICT I SUPERVISOR

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.

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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State [ ] Fee [X]

5. State Oil & Gas Lease No.

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.)

RECEIVED JAN 27 1984 OIL CONSERVATION DIVISION SANTA FE

1. OIL WELL [X] GAS WELL [ ] OTHER-

7. Unit Agreement Name

2. Name of Operator
Petroleum Corporation of Texas

8. Farm or Lease Name
Lankford

3. Address of Operator
Box 911, Breckenridge, Texas 76024

9. Well No.
1

4. Location of Well
UNIT LETTER G, 1650 FEET FROM THE North LINE AND 1650 FEET FROM THE East LINE, SECTION 25 TOWNSHIP 23S RANGE 36E NMPM.

10. Field and Pool, or Wildcat
Langlie Mattix (Oil)

15. Elevation (Show whether DF, RT, GR, etc.)
3354'

12. County
Lea

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	[ ]	PLUG AND ABANDON	[ ]	REMEDIAL WORK	[ ]	ALTERING CASING	[ ]
TEMPORARILY ABANDON	[X]			COMMENCE DRILLING OPNS.	[ ]	PLUG AND ABANDONMENT	[ ]
PULL OR ALTER CASING	[ ]	CHANGE PLANS	[ ]	CASING TEST AND CEMENT JOB	[ ]		
OTHER	[ ]			OTHER	[ ]		

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 well is temporarily abandoned due to the fact that it will not produce into El Paso's sales line at their existing line pressure. We plan to attempt to produce the Langlie Mattix again in this well when the other zone in this dually completed well is depleted. The other side of this dual is producing from the Jalmat (Gas) Field.

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

SIGNED Mary B. Taylor TITLE Production Clerk DATE 3/24/75

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

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TRANSPORTER GAS		
OPERATOR		
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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-11
Effective 1-1-65

SEP 7 10 39 AM '65

RECEIVED
JAN 27 1984
OIL CONSERVATION DIVISION
SANTA FE

Operator: Petroleum Corporation of Texas

Address: P. O. Box 752, Breckenridge, Texas 76024

Reason(s) for filing *(Check proper box)*

- New Well [ ]
- Recompletion [ ]
- Change in Ownership [X]

Change in Transporter of:

- Oil [ ]
- Dry Gas [ ]
- Casinghead Gas [ ]
- Condensate [ ]

Other *(Please explain)*: To change operating name from White Sands Oil & Gas Corporation. Effective August 1, 1965.

If change of ownership give name and address of previous owner: White Sands Oil & Gas Corporation, 516 Commercial Bank Tower, Midland, Te

DESCRIPTION OF WELL AND LEASE

Lease Name	Well No.	Pool Name, Including Formation	Kind of Lease
Lankford	1	Jalmat	State, Federal or Fee: Fee

Location: Unit Letter G ; 1650 Feet From The North Line and 1650 Feet From The East

Line of Section 25 Township 23S Range 36E , NMPM, Lea County

DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil [ ] or Condensate [ ]	Address *(Give address to which approved copy of this form is to be sent)*
Name of Authorized Transporter of Casinghead Gas [ ] or Dry Gas [X]: El Paso Natural Gas Company	Address *(Give address to which approved copy of this form is to be sent)*: Box 1492, El Paso, Texas

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
					Yes	

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

COMPLETION DATA

Designate Type of Completion – (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
Pool	Name of Producing Formation	Top Oil/Gas Pay	Tubing Depth
Perforations			Depth Casing Shoe

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

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)

OIL WELL

Date First New Oil Run To Tanks	Date of Test	Producing Method *(Flow, pump, gas lift, etc.)*	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil-Bbls.	Water-Bbls.	Gas-MCF

GAS WELL

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

I. 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.

Charles W. Smith
(Signature) Charles W. Smith

Office Manager
(Title)

September 2, 1965
(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 Sections I, II, III, and VI only 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.

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TRANSPORTER	OIL	
	GAS	
PRORATION OFFICE		
OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

FORM C-110
(Rev. 7-60)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

OCT 11 10 43 AM '63

FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE

Company or Operator	Lease	Well No.
WHITE SANDS OIL & GAS CORPORATION ~~Haynes & V. T. Drilling Company~~	Lankford	1

Unit Letter	Section	Township	Range	County
G	25	23S	36E	Lea

Pool	Kind of Lease (State, Fed, Fee)
~~Southeast Gas By Pools~~	Fee

If well produces oil or condensate give location of tanks	Unit Letter	Section	Township	Range

Authorized transporter of oil ☐ or condensate ☐

Address (give address to which approved copy of this form is to be sent)

Is Gas Actually Connected? Yes X No ____

Authorized transporter of casing head gas ☐ or dry gas X ☐	Date Connected	Address (give address to which approved copy of this form is to be sent)
El Paso Natural Gas Company		El Paso, Texas

If gas is not being sold, give reasons and also explain its present disposition:

RECEIVED
JAN 27 1984
OIL CONSERVATION DIVISION
SANTA FE

REASON(S) FOR FILING (please check proper box)

New Well ..... ☐
Change in Transporter (check one)
Oil ..... ☐ Dry Gas .... ☐
Casing head gas . ☐ Condensate . . ☐
Change in Ownership ..... ☒
Other (explain below)

Remarks

Formerly Haynes & V. T. Drilling Co.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 11th day of ~~September~~ October, 19 63

OIL CONSERVATION COMMISSION	By
Approved by	Manager
	Title: White Sands Oil & Gas Corporation
Title	Company: 300 First National Bank Building
Date: OCT 29 1963	Address: Odessa, Texas

This form is not to be used for reporting packer leakage tests in Northwest New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator	Lease	Well No.
Haynes & V-T Drilling Company	Lankford	1

Location of Well	Unit	Sec	Twp	Rge	County
	G	25	23	36	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	Jalmat	Gas	Flow	Casing	--------
Lower Compl	Langlie-Mattix Oil	Oil	Flow	Tubing	18/64

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 10:15; 5-3-1960

Well opened at (hour, date): 08:00 5-7-1960

	Upper Completion	Lower Completion
Indicate by (X) the zone producing	X	
Pressure at beginning of test	754	2
Stabilized? (Yes or No)	Yes	Yes
Maximum pressure during test	754	2
Minimum pressure during test	673	2
Pressure at conclusion of test	673	2
Pressure change during test (Maximum minus Minimum)	—81	None
Was pressure change an increase or a decrease?	Decrease	None

Well closed at (hour, date): 08:00 5-8-1960 Total Time On Production 24 Hours

Oil Production During Test: None bbls; Grav. -------; Gas Production During Test 3,265 MCF; GOR Dry

Remarks

FLOW TEST NO. 2

Well opened at (hour, date): 08:00 5-9-1960

	Upper Completion	Lower Completion
Indicate by (X) the zone producing		X
Pressure at beginning of test	752	2
Stabilized? (Yes or No)	Yes	Yes
Maximum pressure during test	752	2
Minimum pressure during test	752	2
Pressure at conclusion of test	752	2
Pressure change during test (Maximum minus Minimum)	None	None
Was pressure change an increase or a decrease?	None	None

Well closed at (hour, date) 08:00 5-10-1960 Total time on Production 24 Hours

Oil Production During Test: None bbls; Grav. -------; Gas Production During Test None MCF; GOR None

Remarks This Zone is Dead.

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

Operator Haynes & V-T Drilling Company

Approved _____ 19____
New Mexico Oil Conservation Commission

By G. I. Young

Title Office Manager

By _____

Title _____

Date 5-16-1960

BRISTOL'S RECORDING PRESSURE GAUGE
POUNDS PER SQUARE INCH
4874
IN U.S.A.
Clark
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6 P.M.
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8
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9 A.M.
8 A.
7 A.
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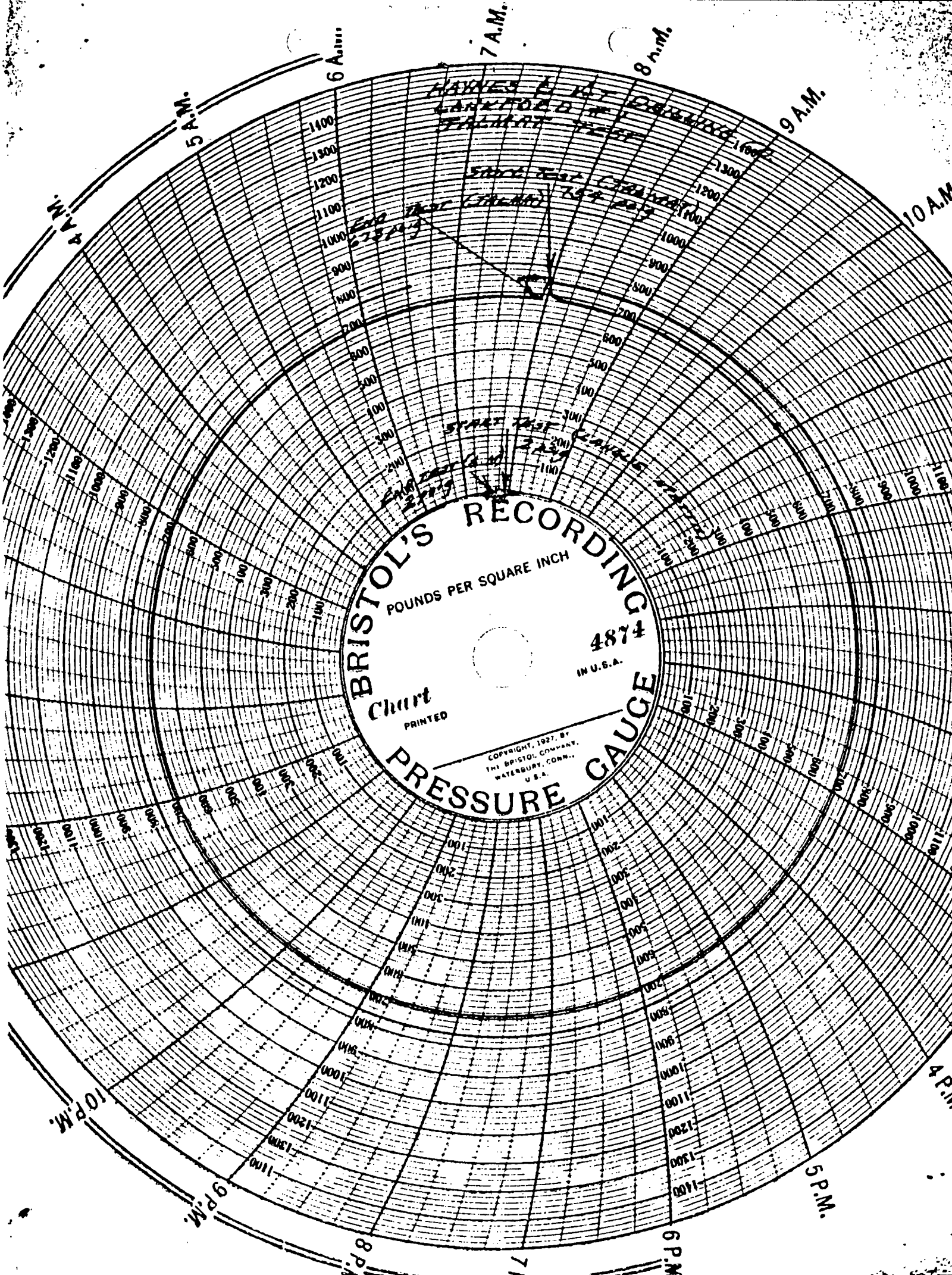
4 A.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9 P.M.
10 P.M.

OIL CONSERVATION COMMISSION

HOBBS, NEW MEXICO

April 20, 1960

COPY

Haynes & V. T. Drilling Co.
1725 N. Grant St.
Odessa, Texas

Gentlemen:

We are returning the enclosed Packer Leakage Test Form, and request that the well be retested. Also, when the forms are resubmitted, please clarify the lease name and well number.

We wish to call to your attention that a Dual Pen Recorder must be used at the well head and that all pressures must be submitted. Further, the El Paso Natural Gas Co. charts are not acceptable charts for the packer leakage test.

We believe that a careful reading of the instructions on the back of the Southeast Packer Leakage Test Form will enable you to properly conduct the test and complete the form.

Yours very truly,

OIL CONSERVATION COMMISSION

Eric F. Engbrecht
Engineer, District 1

mc
encl.

NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Haynes & V. T. Drilling Company Lease Lankford

Well No. 1 (Dual) Unit Letter G S 25 T 23 R 36 Pool Langlie-Mattix

County Lea Kind of Lease (State, Fed. or Patented) Pat.

If well produces oil or condensate, give location of tanks: Unit G S 25 T 23 R 36

Authorized Transporter of Oil or Condensate Texas-New Mexico Pipe Line Company

Address P. O. Box 1510 Midland, Texas
(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas El Paso Natural Gas Company

Address P. O. Box 1384 Jal, New Mexico
(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

Reasons for Filing: (Please check proper box) New Well ( )

Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate ( )

Change in Ownership ( ) Other CHANGE OF OPERATOR (X)

Remarks: (Give explanation below)

To record change of operator from Southern California Petroleum Corporation to Haynes & V. T. Drilling Company, effective July 1, 1959.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 7th day of July 1959

By [signature]

Title Office Manager

Company Haynes & V. T. Drilling Co.

Address 1725 North Grant St.

Odessa, Texas

Approved 19

OIL CONSERVATION COMMISSION

By

Title

NEW ME CO OIL CONSERVATION COM SSION
SANTA FE, NEW MEXICO

Form C-110
Revised 7/1/55

(File the original and 4 copies with the appropriate district office)

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Haynes & V. T. Drilling Company Lease Lankford

Well No. 1 (Dual) Unit Letter G S 25 T 23 R 36 Pool Jalmat

County Lea Kind of Lease (State, Fed. or Patented) Pat.

If well produces oil or condensate, give location of tanks: Unit ____ S ____ T ____ R ____

Authorized Transporter of Oil or Condensate None (Dry gas well)

Address _____

(Give address to which approved copy of this form is to be sent)

Authorized Transporter of Gas El Paso Natural Gas Company

Address P. O. Box 1384 Jal, New Mexico

(Give address to which approved copy of this form is to be sent)

If Gas is not being sold, give reasons and also explain its present disposition:

_____

_____

_____

Reasons for Filing: (Please check proper box) New Well _____ ( )

Change in Transporter of (Check One): Oil ( ) Dry Gas ( ) C'head ( ) Condensate ( )

Change in Ownership _____ ( ) Other CHANGE OF OPERATOR (X)

Remarks: (Give explanation below)

To record change of operator from Southern California Petroleum Corporation to Haynes & V. T. Drilling Company, effective July 1, 1959.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 7th day of July 1959

By [signature]

Title Office Manager

Company Haynes & V. T. Drilling Co.

Address 1725 North Grant St.

Odessa, Texas

Approved _____ 19___

OIL CONSERVATION COMMISSION

By [signature]

Title _____

This form is not to be used for reporting packer leakage tests in Northwest New Mexico

NEW MEXICO OIL CONSERVATION COMMISSION

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator	Lease	Well No.
Southern California Petroleum Corp.	LANKFORD	1

Location of Well	Unit	Sec	Twp	Rge	County
	G	25	23 S	36 E	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	YATES - Jalmat	GAS	FLOW	CSG	3/8"
Lower Compl	QUEEN - LM	OIL	FLOW	TBG	3/4"

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 10:00 AM 4-10-59

Well opened at (hour, date): 9:30 AM 4-12-59

	Upper Completion	Lower Completion
Indicate by (X) the zone producing	X	
Pressure at beginning of test ... Shut in	823	40
Stabilized? (Yes or No)	Yes	Yes
Maximum pressure during test	790	40
Minimum pressure during test	780	36
Pressure at conclusion of test	780	40
Pressure change during test (Maximum minus Minimum)	10	4
Was pressure change an increase or a decrease?	DECR.	DECR.

Well closed at (hour, date): 8:30 AM 4-20-59 Total Time On Production 191 hrs.

Oil Production During Test: 0 bbls; Grav. -- ; Gas Production During Test 14004 MCF; GOR --

Remarks

FLOW TEST NO. 2

Well opened at (hour, date): 3:00 PM 4-21-59

	Upper Completion	Lower Completion
Indicate by (X) the zone producing		X
Pressure at beginning of test ... Shut in	820	44
Stabilized? (Yes or No)	Yes	Yes
Maximum pressure during test	820	76
Minimum pressure during test	820	44
Pressure at conclusion of test	820	44
Pressure change during test (Maximum minus Minimum)	0	32
Was pressure change an increase or a decrease?	--	DECR.

Well closed at (hour, date) Left open - dead Total time on Production 24 hrs.

Oil Production During Test: 1.5 bbls; Grav. 30.4 ; Gas Production During Test 48 MCF; GOR 32,100

Remarks Tubing dead after SI. Swabbed off for Flow Test No. 2; swabbed 4 bbls. and well flowed 1.5 bbls. and died.

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

Operator So.Calif.Petr. Corp.

By [signature]

Title Division Engineer

Date May 22, 1959

Approved _____ 19____

New Mexico Oil Conservation Commission

By _____

Title _____

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC

HOBBS OFFICE OCC

1957 DEC 5 PM 2:08

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

DEC 15 AM 8:46

Pool Jalmat Formation Yates County Lea

Initial ____ Annual ____ Special X Date of Test 12-3 to 12-7 1956

Company Southern California Petr. Lease Lankford Well No. 1

Unit G Sec. 25 Twp. 23 S Rge. 36 E Purchaser El Paso Natural Gas Company

Casing 5 1/2" Wt. 14 I.D. 5.012 Set at 3460 Perf. 2955 To 3190

Tubing 2" Wt. 4.7 I.D. 1.995 Set at 3612 Perf. 3577 To 3580

Gas Pay: From 2955 To 3190 L 2955 xG .650 -GL 1921 Bar.Press. 13.2

Producing Thru: Casing X Tubing ____ Type Well G. O. Dual

Single-Bradenhead-G. G. or G.O. Dual

Date of Re-Completion: 2-6-50 Packer 3378 Reservoir Temp. ____

OBSERVED DATA

Tested Through ~~(Prover)~~ ~~(Choke)~~ (Meter) Type Taps ____

No.	Flow Data ~~(Prover)~~ (Line) Size	~~(Choke)~~ (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI								914		72
1.	4	1.000	893	13.69	85			893		24
2.	4	1.000	881	33.06	82			882		24
3.	4	1.000	869	61.62	79			870		24
4.	4	1.000	857	93.12	77			859 *		24
5.										

* Not enough draw down - orifice too small.

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	6.135	111.37		.9768	.9608	1.083	694
2.	6.135	171.93		.9795	.9608	1.083	1075
3.	6.135	233.13		.9822	.9608	1.088	1469
4.	6.135	284.64		.9840	.9608	1.088	1796
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl. Specific Gravity Separator Gas ____

Gravity of Liquid Hydrocarbons ____ deg. Specific Gravity Flowing Fluid ____

n 1.793 $(1-e^{-s})$ .124 P_c 927.2 P_c^2 859.7

No.	Pt (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$(F_cQ)^2 (1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	906.2	821.1	1.24	1.54	.19	821.3	38.4		
2.	895.2	801.4	1.93	3.72	.46	801.9	57.8		
3.	883.2	780.0	2.63	6.92	.86	780.9	78.8		
4.	872.2	760.7	3.22	10.37	1.29	761.9	97.8		
5.									

Absolute Potential: 13,800 MCFPD; n .939

COMPANY Southern California Petroleum Corporation

ADDRESS Box 1071, Midland, Texas

AGENT and TITLE Joe A. Coleman, P.E., New Mexico, Cert. No. 2208

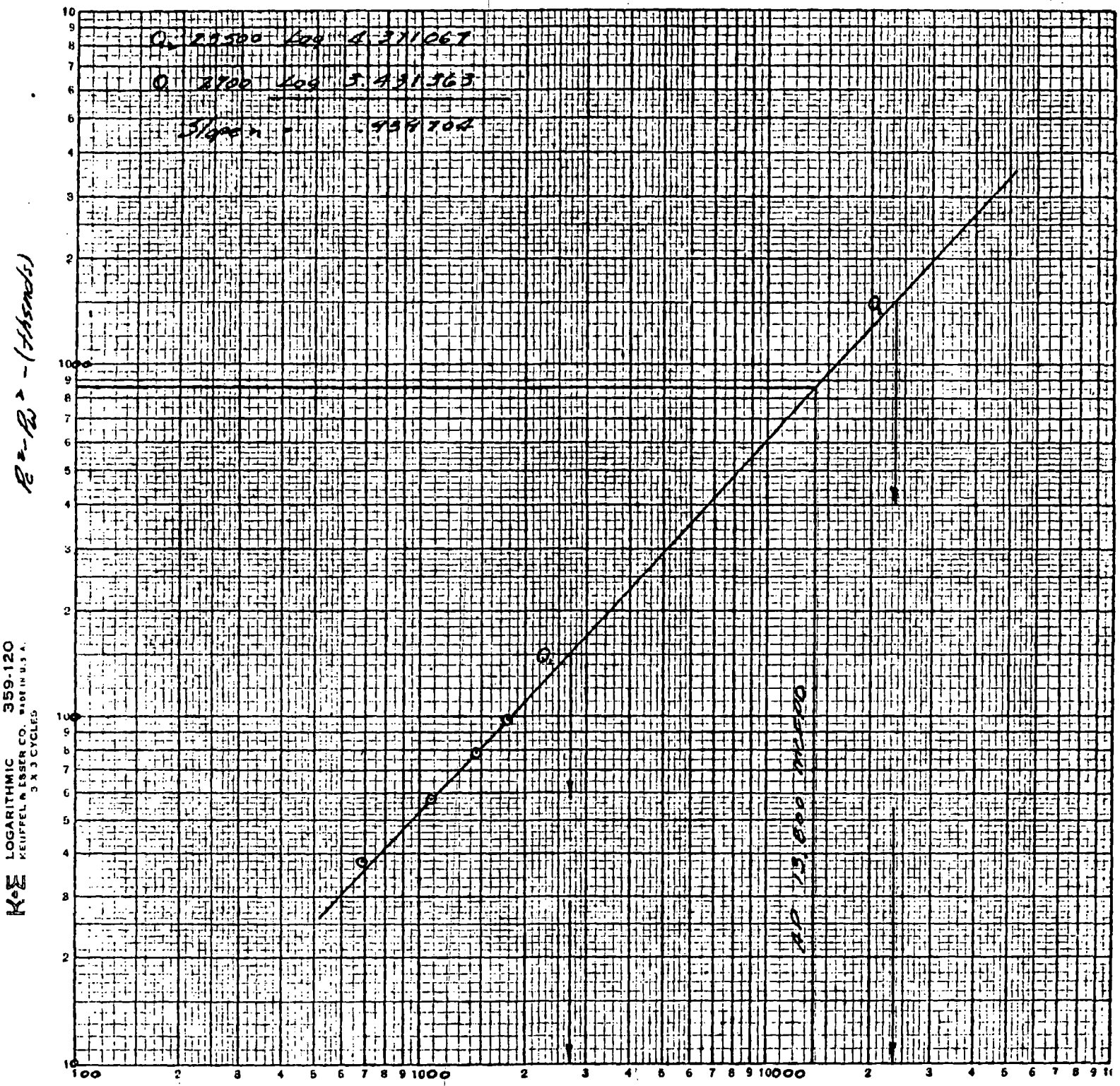
WITNESSED Well tested by El Paso Natural Gas Company

COMPANY Beal-Coleman Engineering Company

REMARKS

Note- Hagins & Vt Drilling Co

SOUTHERN CALIF. PET. CO.
Lankford #1
Sec 25-T23S-R36E - Lea, N.M.
12-7-56

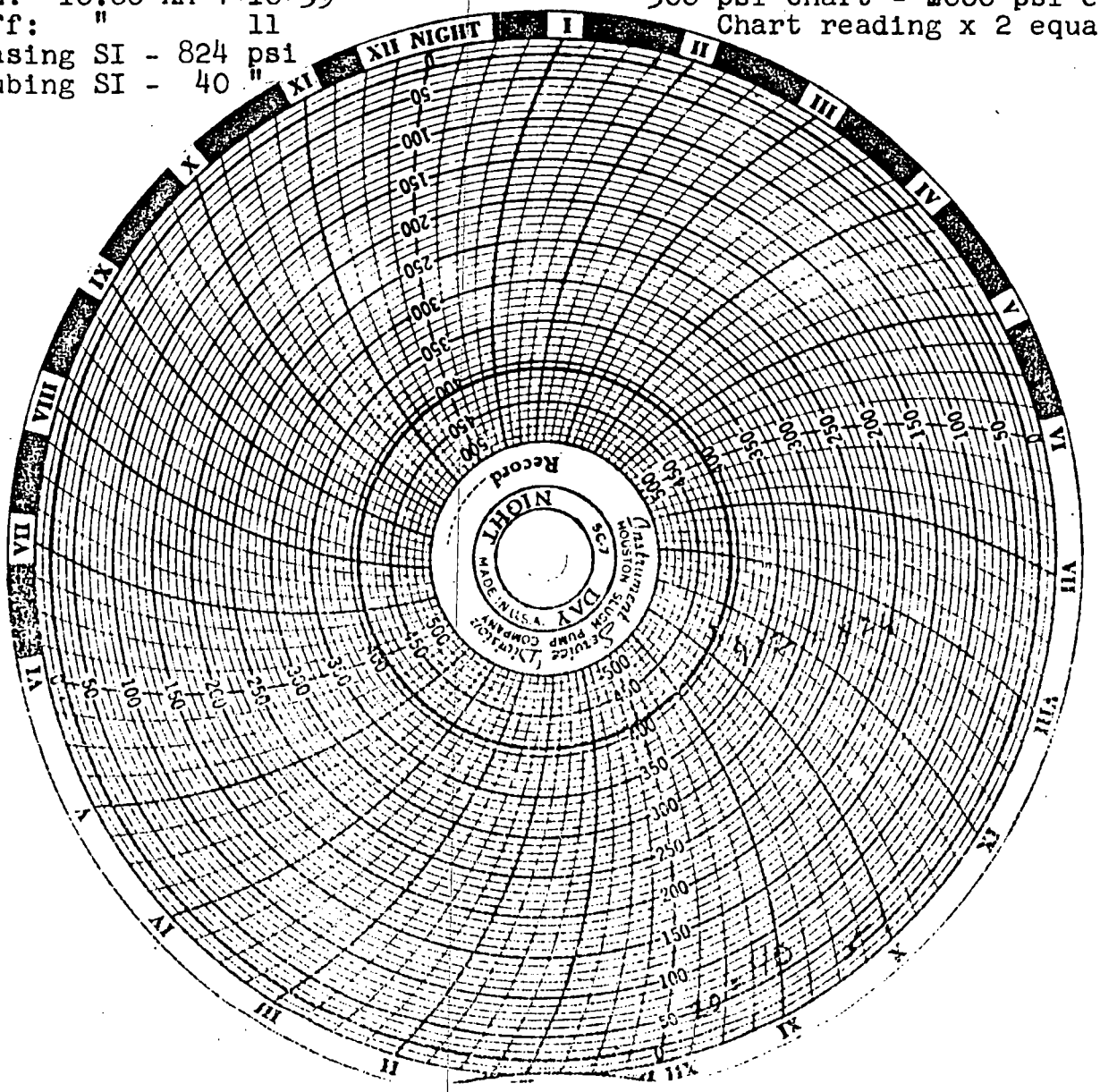


Q, MCFPD

SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

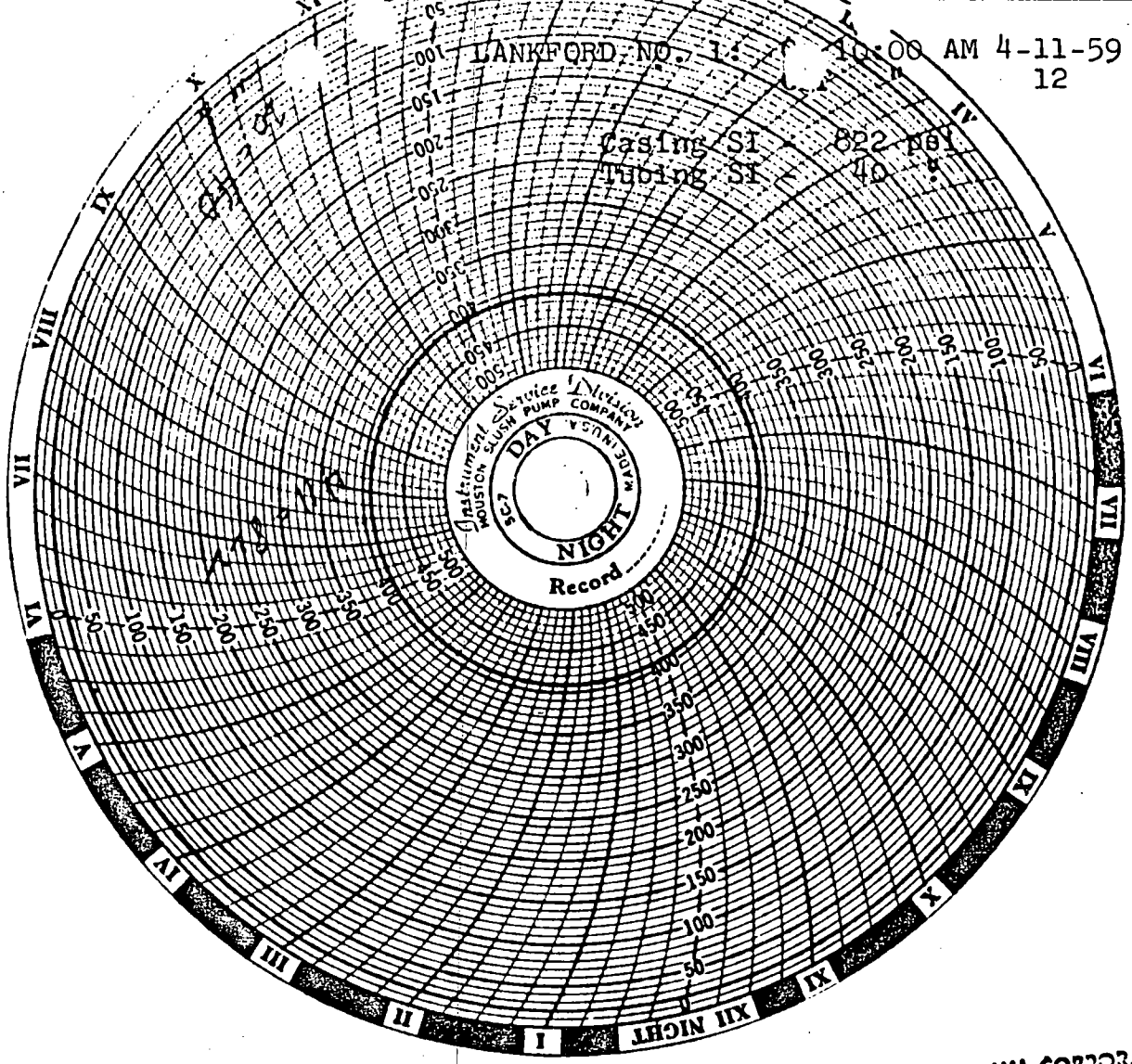
LANKFORD NO. 1
On: 10:00 AM 4-10-59
Off: " 11
Casing SI - 824 psi
Tubing SI - 40 "

500 psi chart - 1000 psi element
Chart reading x 2 equals press.



LANKFORD NO. 1 10:00 AM 4-11-59
12

Casing SI - 822 psi
Tubing SI - 40 "

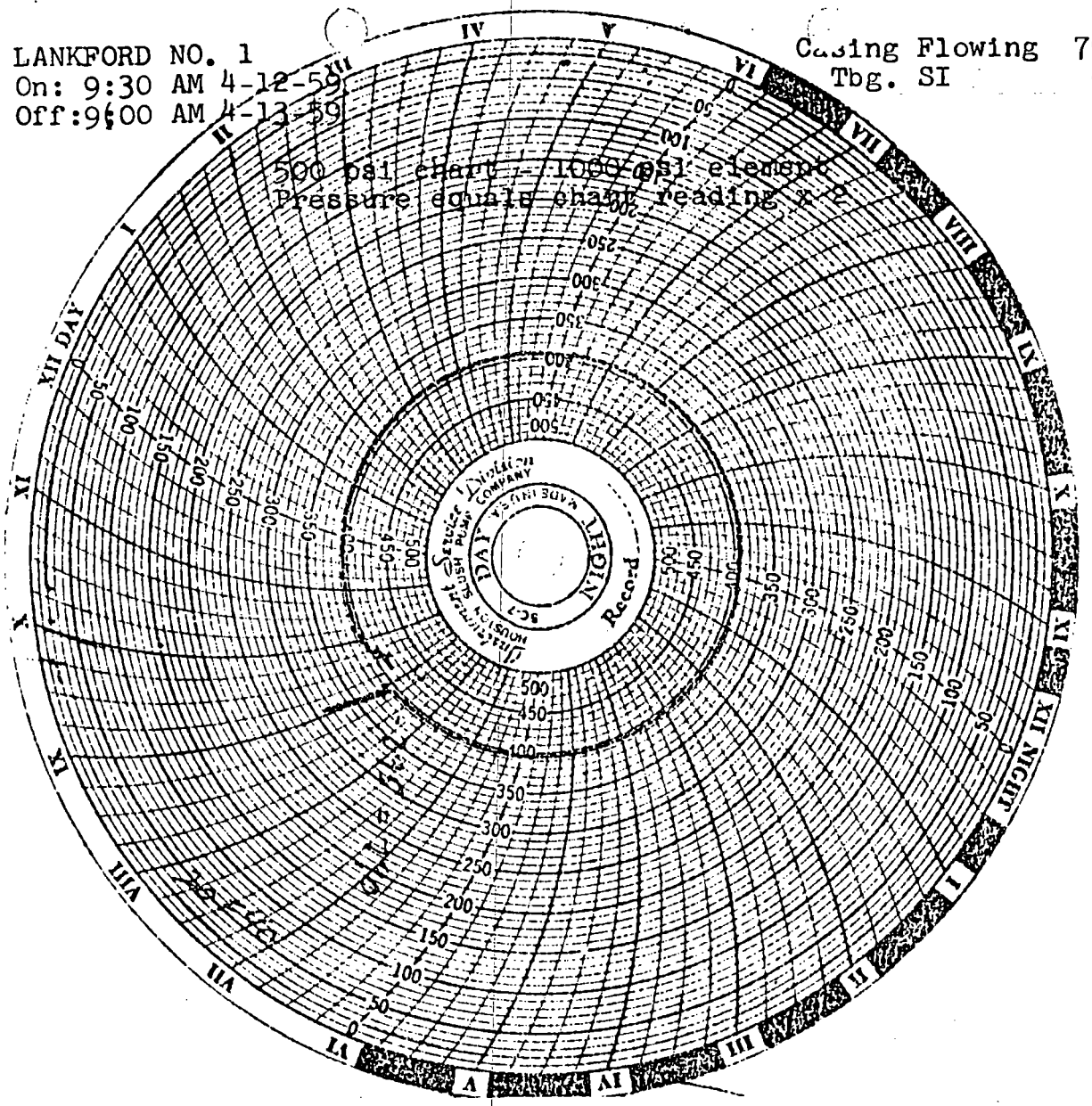


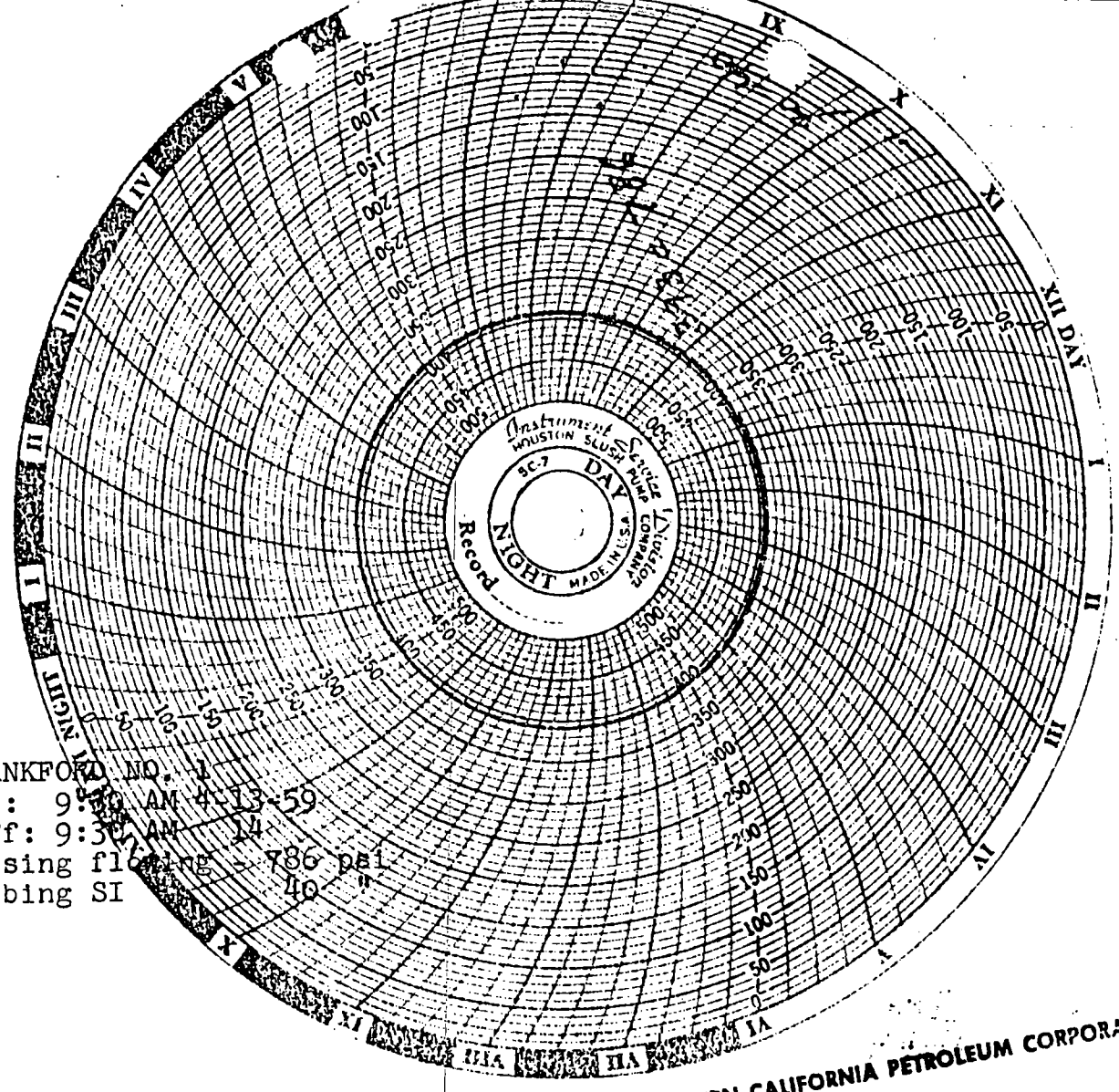
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

LANKFORD NO. 1
On: 9:30 AM 4-12-59
Off: 9:00 AM 4-13-59

Casing Flowing 790 psi
Tbg. SI 40 "

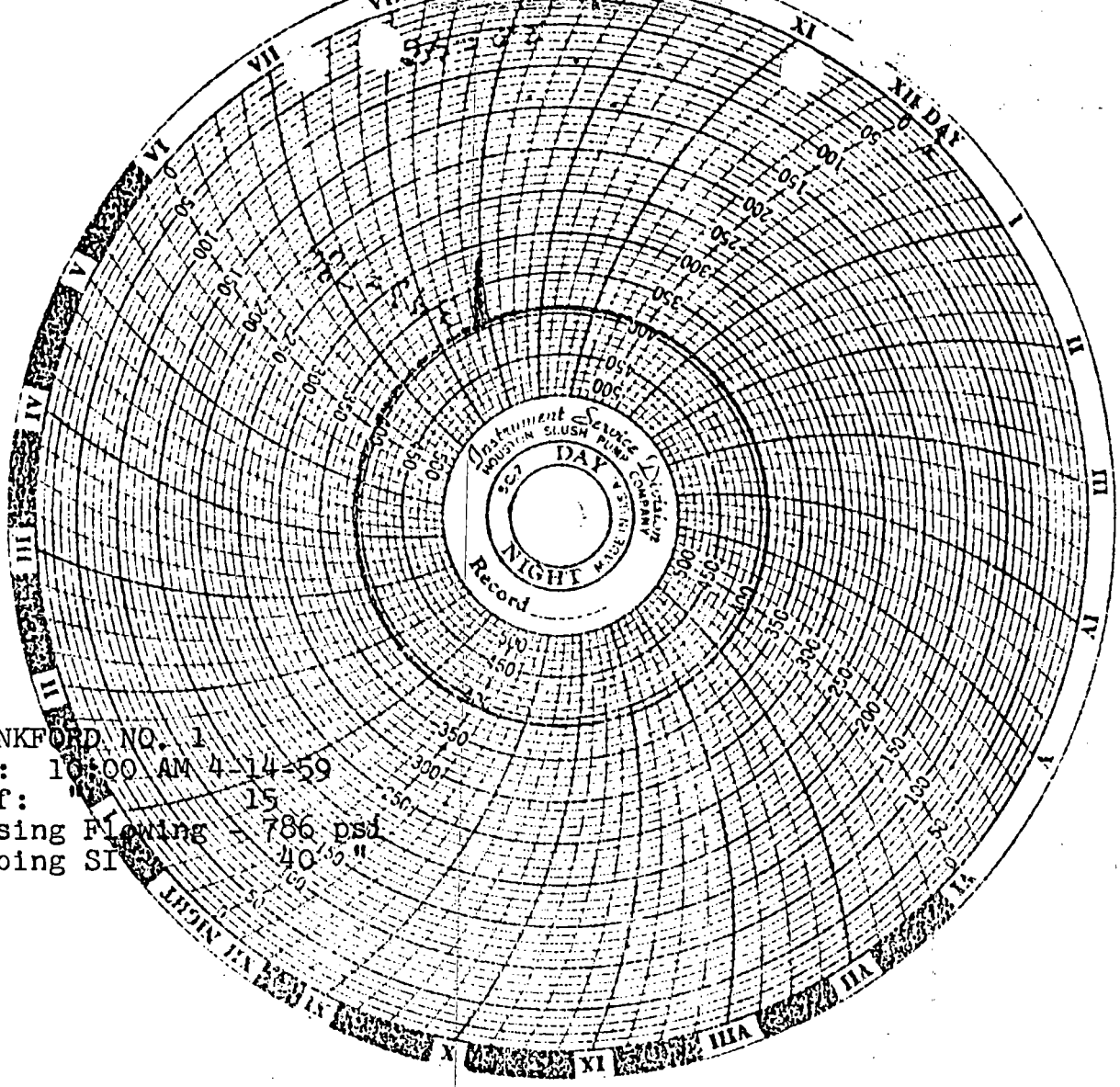
500 psi chart - 1000 psi element
Pressure equals chart reading x 2





LANKFORD NO. 1
On: 9:30 AM 4-13-59
Off: 9:30 AM " 14
Casing flowing - 486 psi
Tubing SI " 40

SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

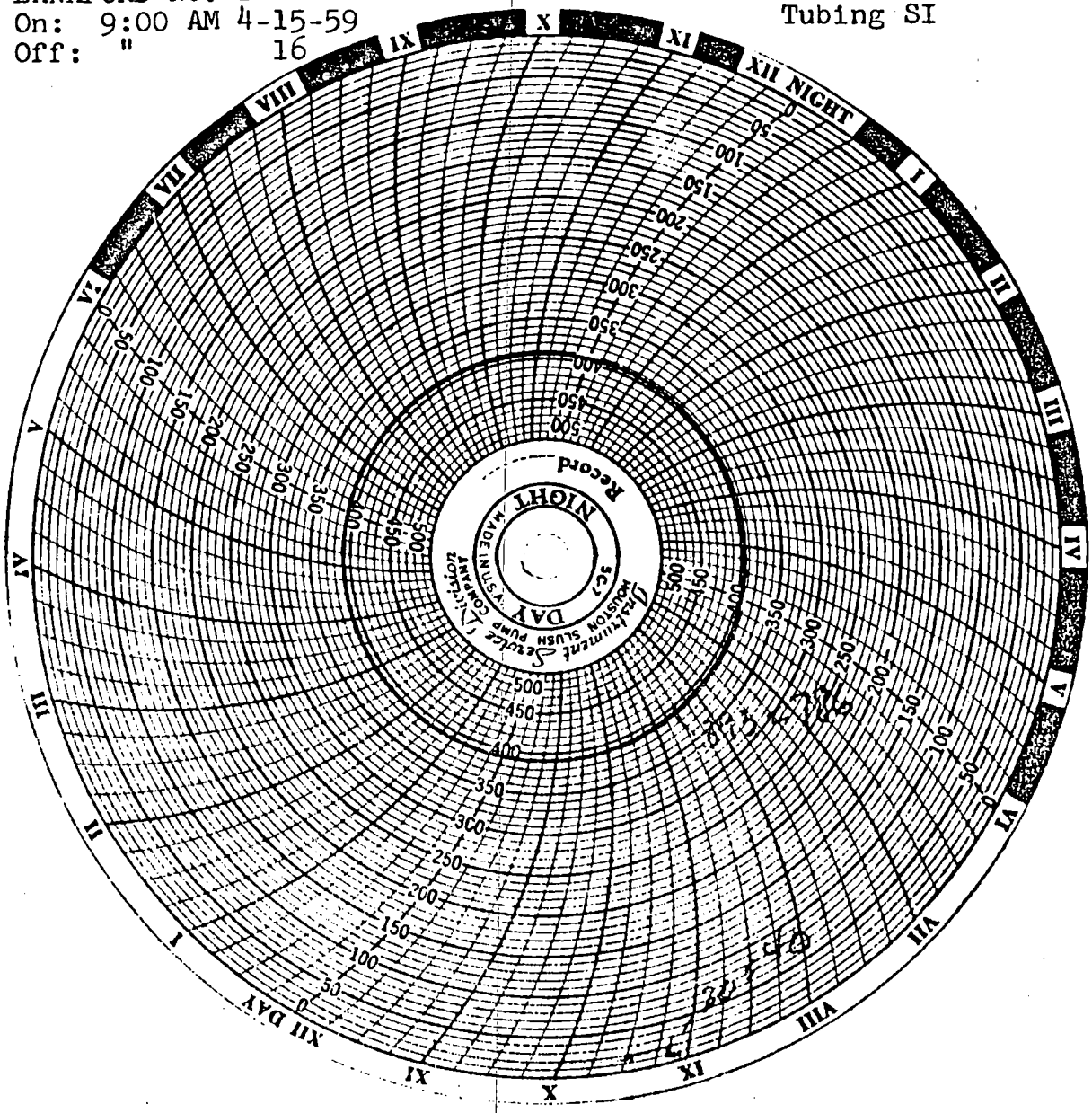


LANKFORD NO. 1
On: 10:00 AM 4-14-59
Off: " 15
Casing Flowing - 786 psi
Tubing SI - 40 "

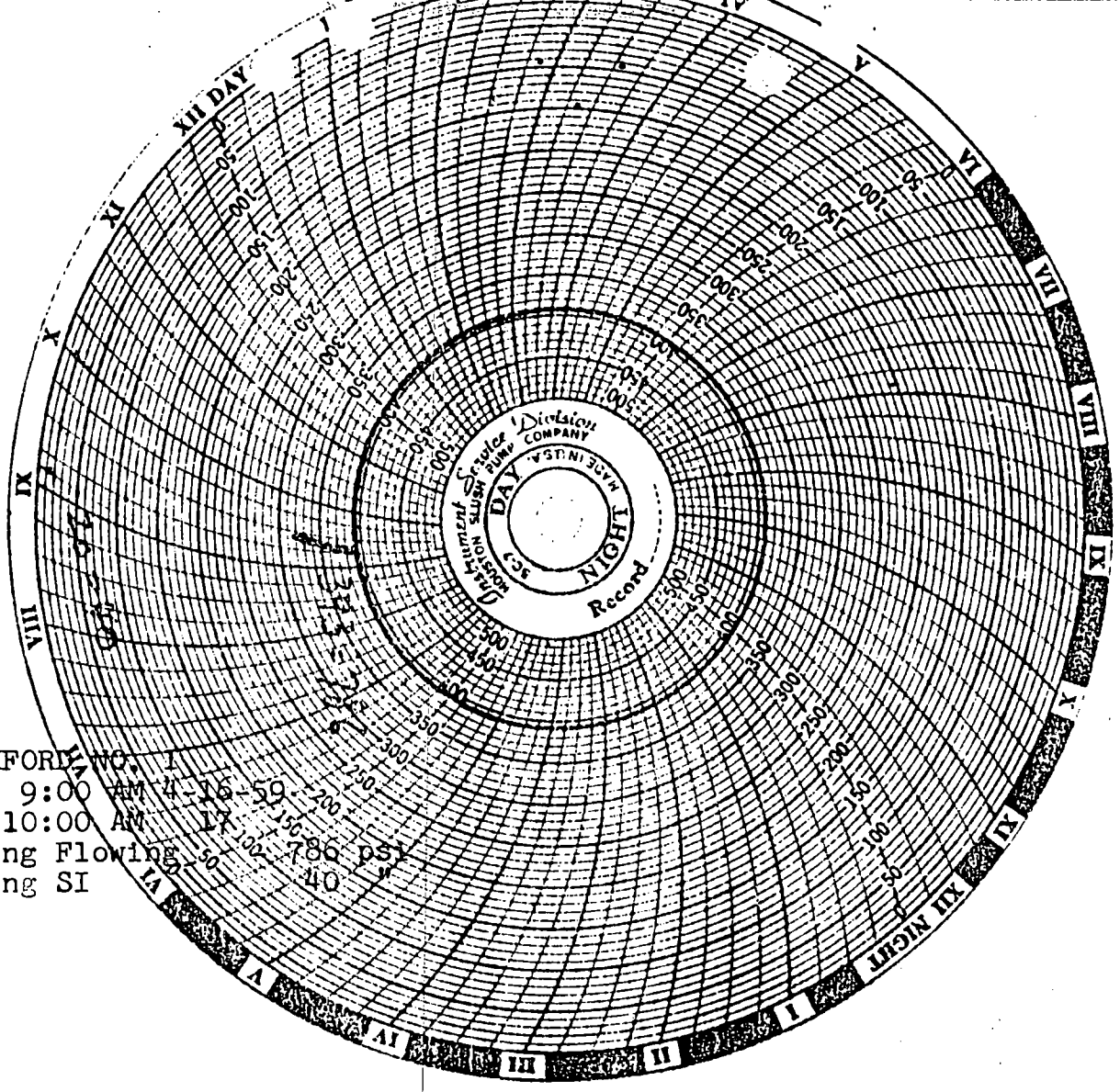
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P O BOX 1071
MIDLAND, TEXAS

LANKFORD NO. 1
On: 9:00 AM 4-15-59
Off: " 16

Casing Flowing - 786 psi
Tubing SI 40 "



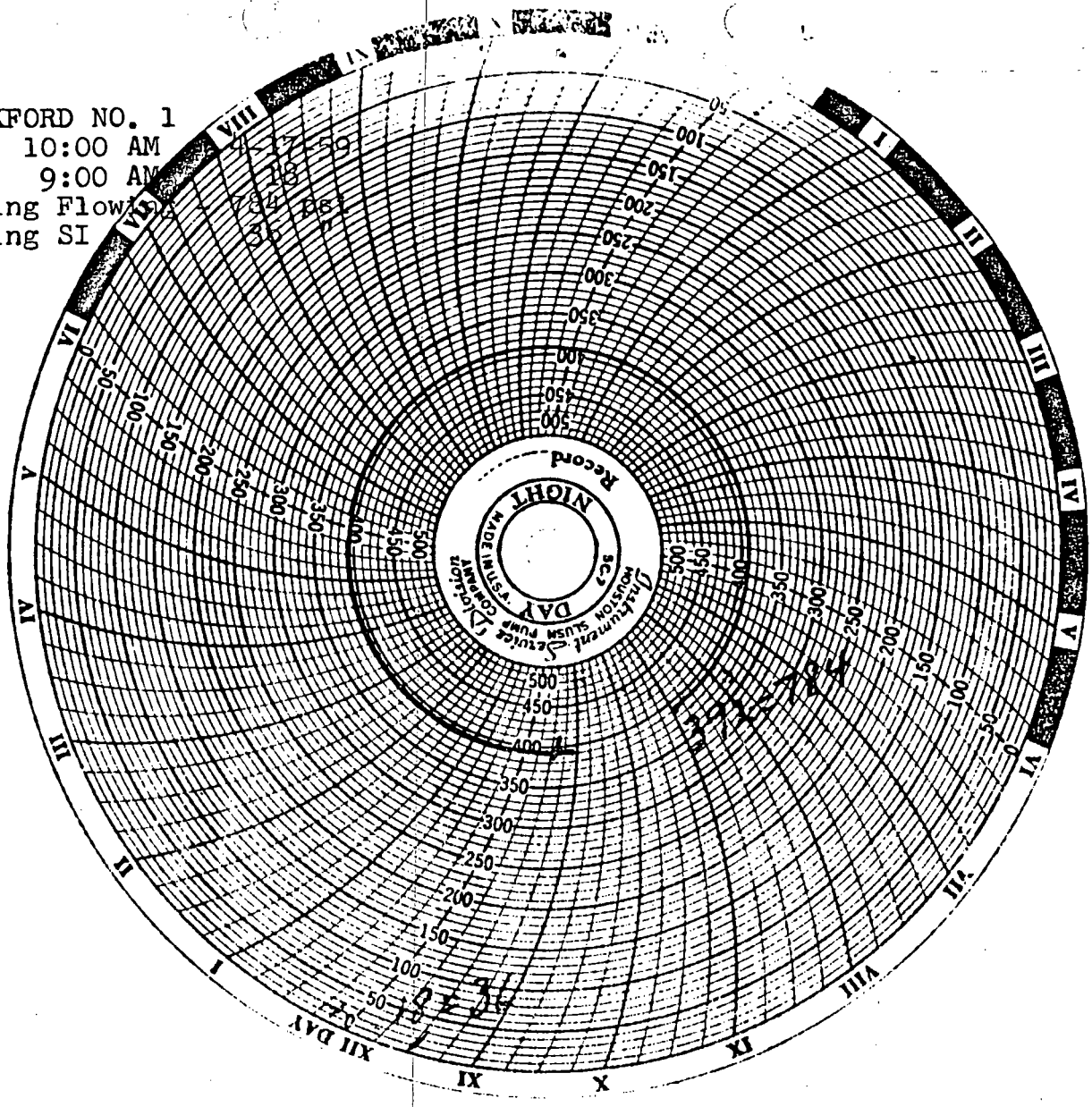
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
MIDLAND, TEXAS



LANKFORD NO. 1
On: 9:00 AM 4-16-59
Off:10:00 AM 17
Casing Flowing 786 psi
Tubing SI 40

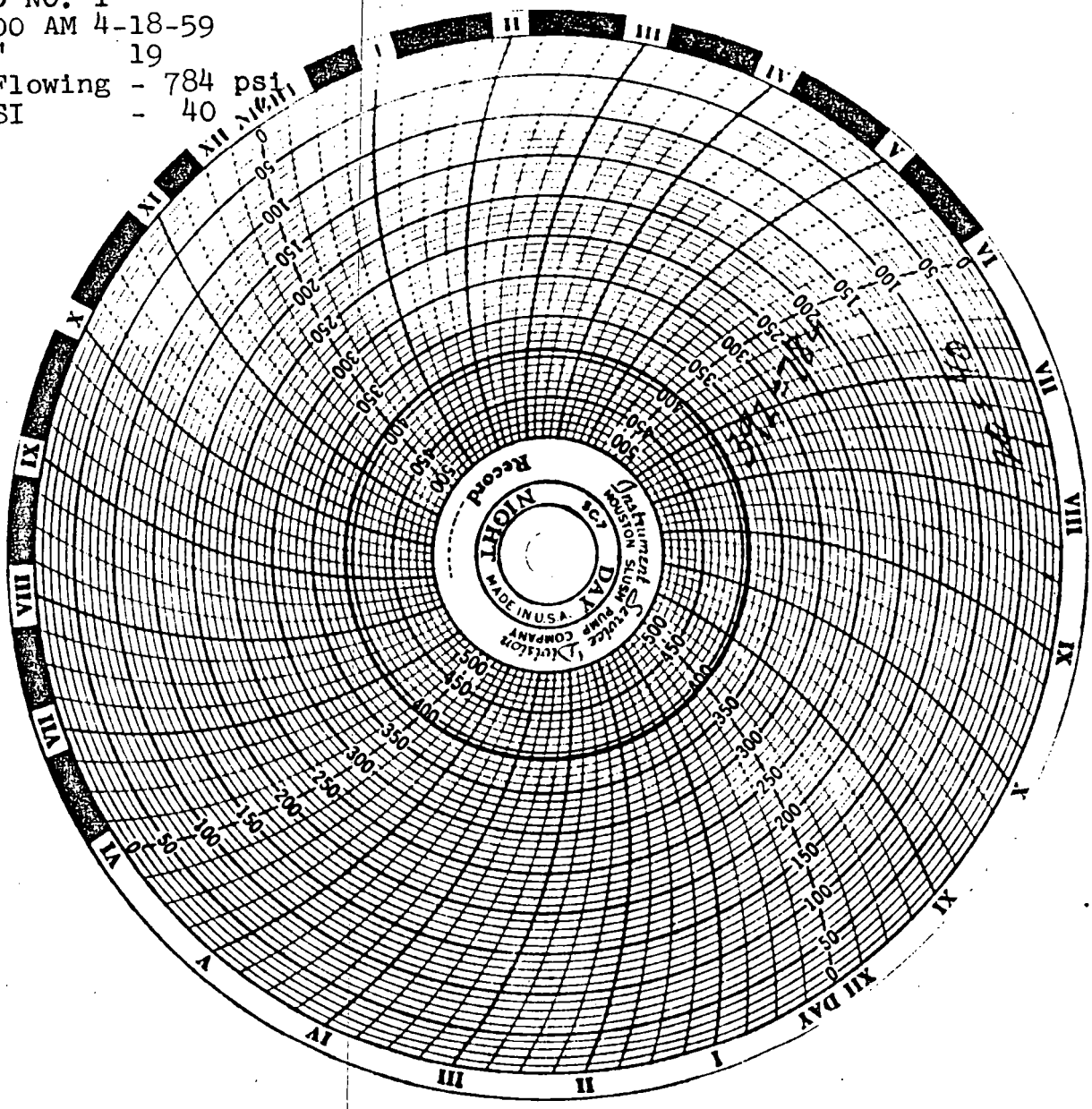
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

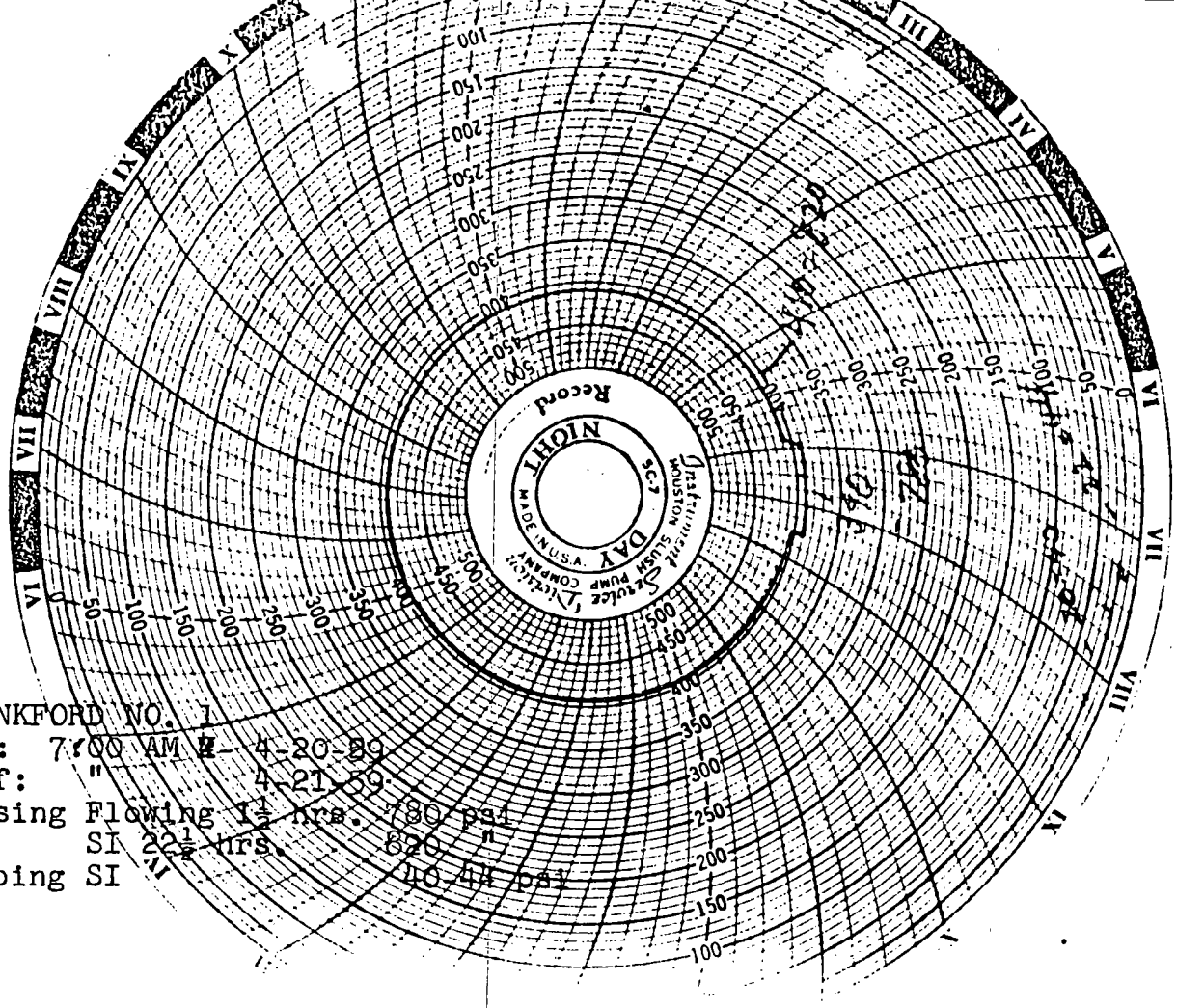
LANKFORD NO. 1
On: 10:00 AM 4-17-59
Off: 9:00 AM 4-18
Casing Flowing 784 psi
Tubing SI 36



SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

LANKFORD NO. 1
On: 7:00 AM 4-18-59
Off: " 19
Casing Flowing - 784 psi
Tubing SI - 40



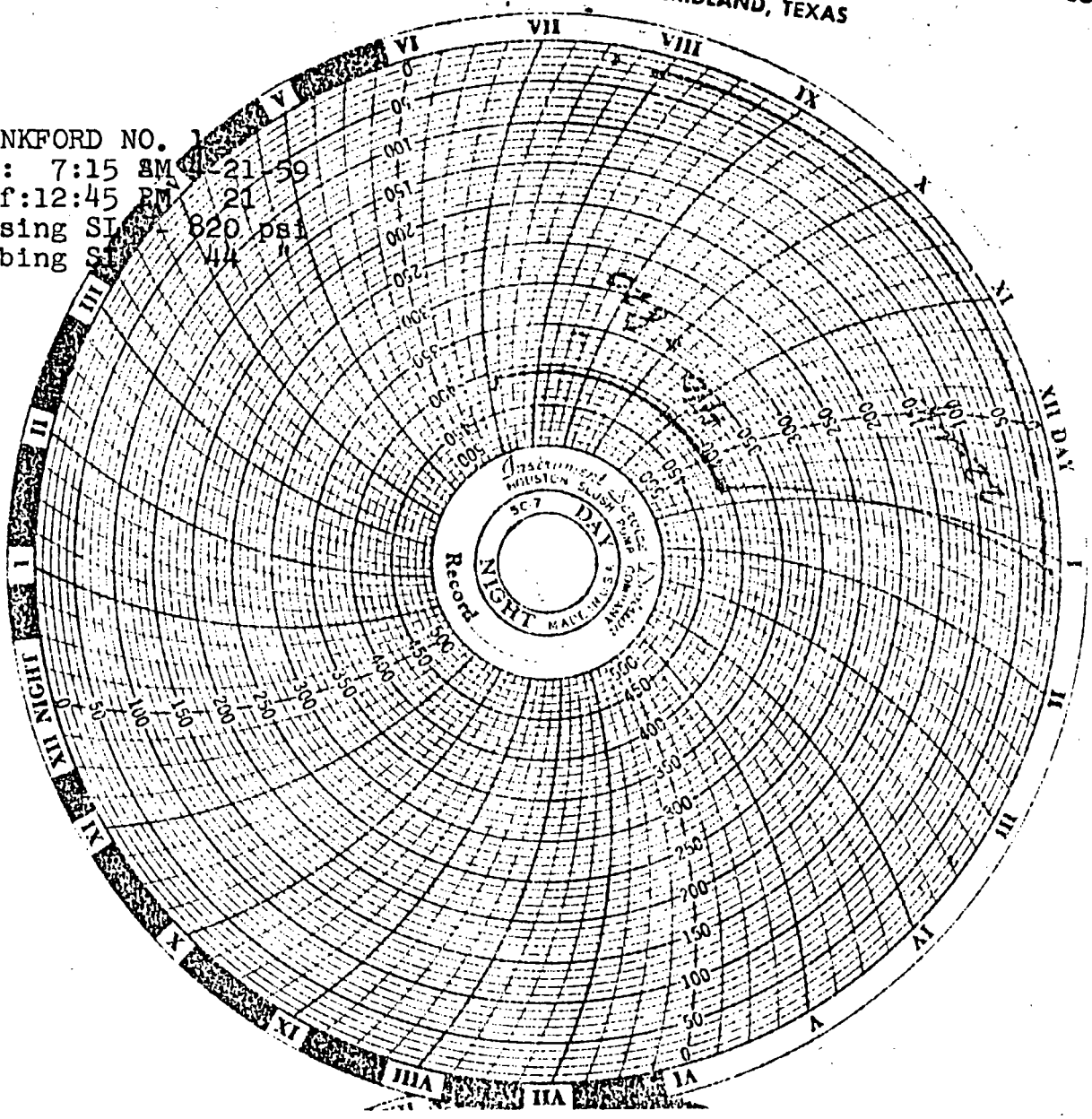


LANKFORD NO. 1
On: 7:00 AM 4-20-89
Off: " 4-21-89
Casing Flowing $1\frac{1}{2}$ hrs. 780 psi
SI $22\frac{1}{2}$ hrs. 820 "
Tubing SI 40.44 psi

SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1271
MIDLAND, TEXAS

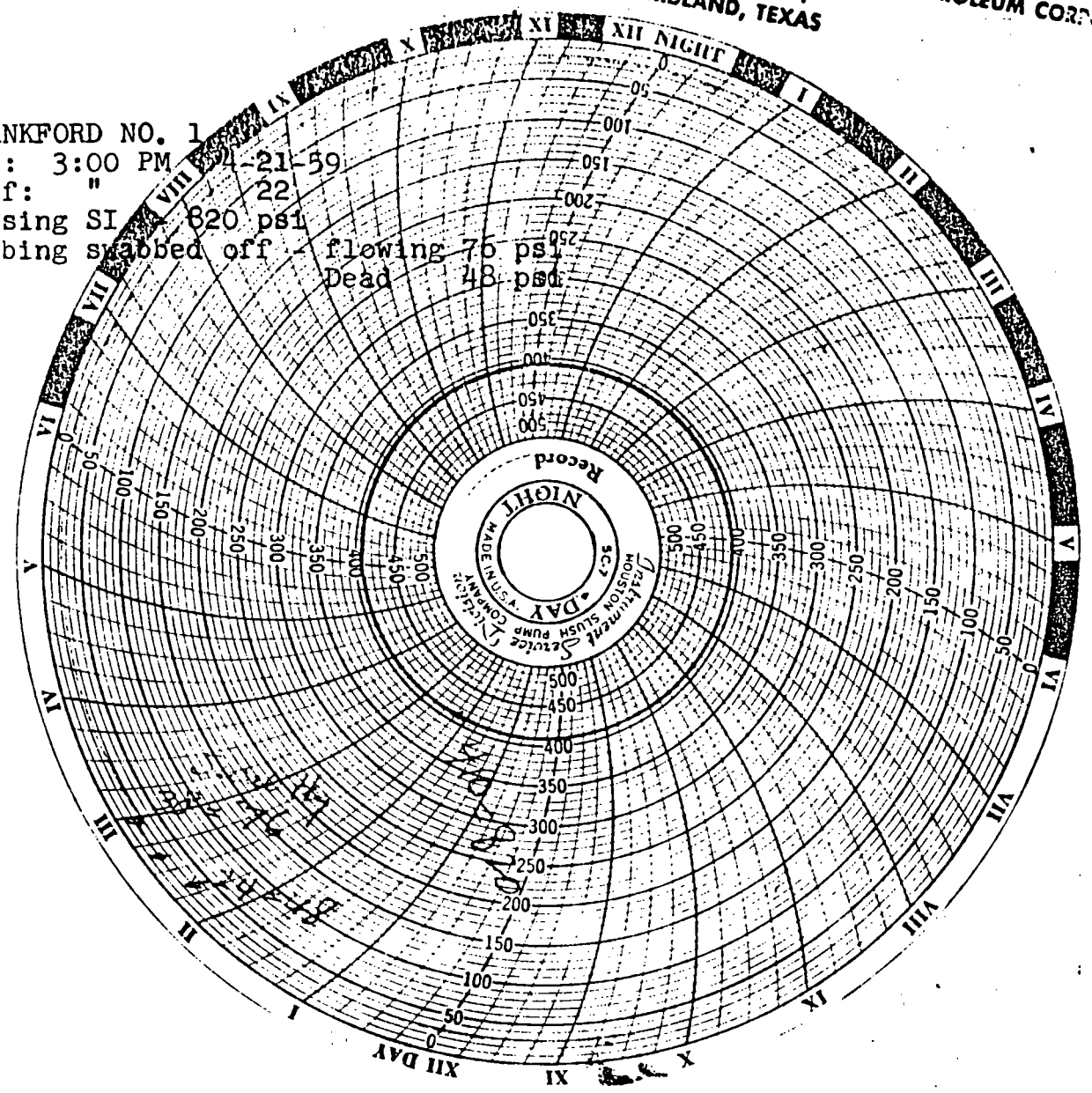
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX 1071
MIDLAND, TEXAS

LANKFORD NO. 1
On: 7:15 AM 4-21-59
Off:12:45 PM 4-21
Casing SI - 820 psi
Tubing SI - 44 "



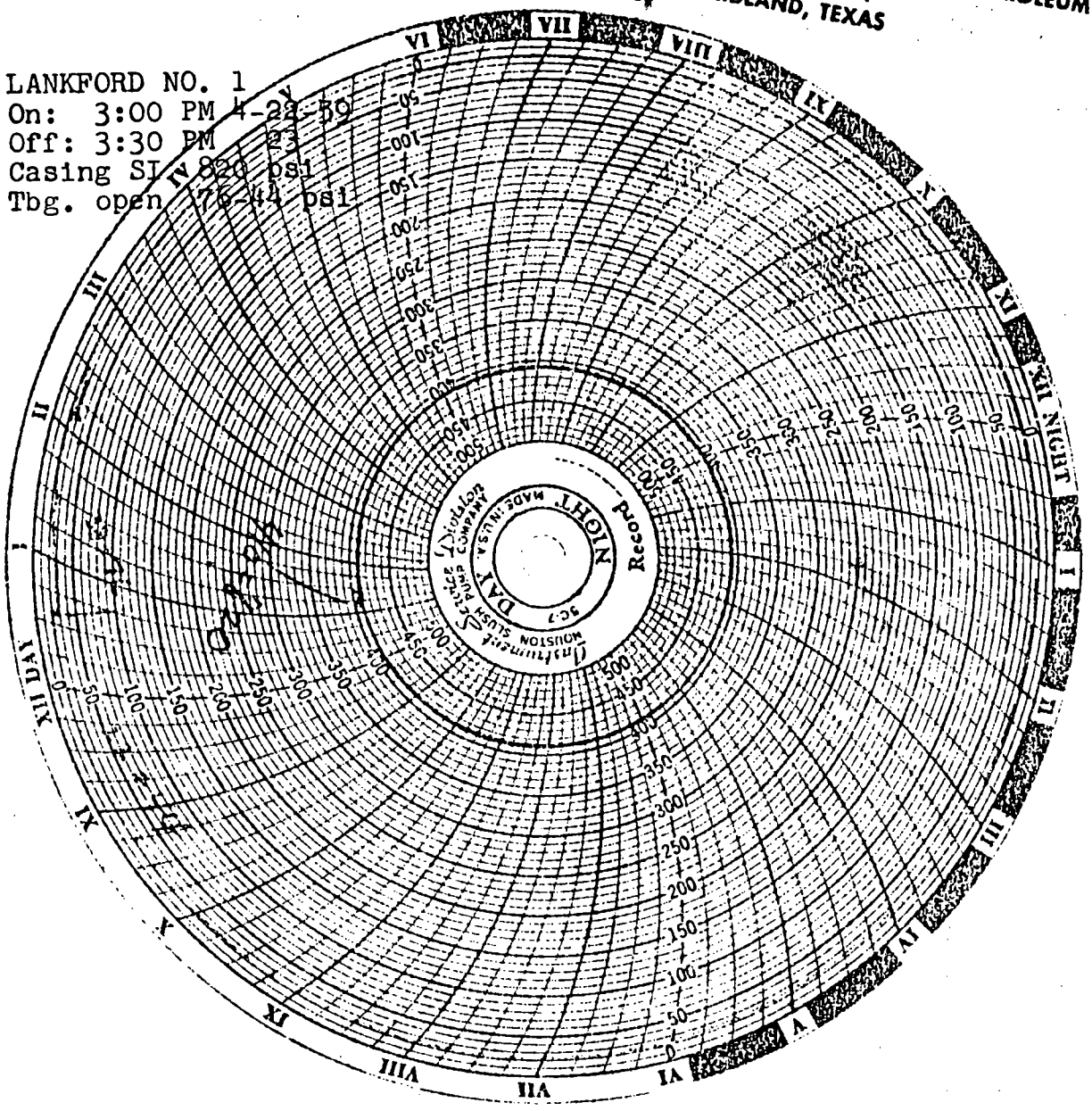
SOUTHERN CALIFORNIA PETROLEUM CORPORATION
P. O. BOX [illegible]
MIDLAND, TEXAS

LANKFORD NO. 1
On: 3:00 PM 4-21-59
Off: " 22
Casing SI - 820 psi
Tubing swabbed off - flowing 76 psi
Dead 48 psi



SOUTHE[illegible] CALIFORNIA PETROLEUM CORPORATION
P. O. B[illegible] 1071
MIDLAND, TEXAS

LANKFORD NO. 1
On: 3:00 PM 4-22-59
Off: 3:30 PM 23
Casing SI ~ 820 psi
Tbg. open 176-44 psi



NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

It is necessary that Form C-104 be approved before this form can be approved an an initial allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator SOUTHERN CALIFORNIA PETROLEUM CORPORATION Lease Nina Lankford

Address ..... (Local or Field Office) P.O.Box 1071, Midland, Texas (Principal Place of Business)

Unit G, Well(s) No. 1, Sec. 25, T. 23S, R. 36E, Pool Jalmat

County Lea Kind of Lease: fee

If Oil well Location of Tanks Gas well

Authorized Transporter El Paso Natural Gas Co. Address of Transporter

..... (Local or Field Office), El Paso, Texas (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported 100 Other Transporters authorized to transport Oil or Natural Gas from this unit are .....

..... %

REASON FOR FILING: (Please check proper box)

NEW WELL ☐ CHANGE IN OWNERSHIP ☐

CHANGE IN TRANSPORTER ☐ OTHER (Explain under Remarks) ☒

REMARKS:

In accordance with your Order R-520

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 31st day of August 19 54

SOUTHERN CALIFORNIA PETROLEUM CORP.

Approved ....., 19.....

OIL CONSERVATION COMMISSION

By .....

Title .....

By [signature]

Title Petroleum Engineer

(See Instructions on Reverse Side)

(Form C-110)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

HOBBS OFFICE OCC

It is necessary that Form C-104 be approved before this form can be approved an an *initial* allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

1954 SEP 13 AM 11:18

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator SOUTHERN CALIFORNIA PETROLEUM CORPORATION Lease Nina Lankford

Address ..... (Local or Field Office) P.O.Box 1071, Midland, Texas (Principal Place of Business)

Unit G, Well(s) No. 1, Sec. 25, T. 23S, R. 36E, Pool Langlie-Mattix

County Lea Kind of Lease: fee

If Oil well Location of Tanks On lease

Authorized Transporter Texas-New Mexico Pipe Line Co. (oil) El Paso Natural Gas Co. (gas) Address of Transporter

..... (Local or Field Office), Midland, Texas (Principal Place of Business) El Paso, Texas

Per cent of Oil or Natural Gas to be Transported 100 Other Transporters authorized to transport Oil or Natural Gas from this unit are .....

..... %

REASON FOR FILING: (Please check proper box)

NEW WELL ☐ CHANGE IN OWNERSHIP ☐

CHANGE IN TRANSPORTER ☐ OTHER (Explain under Remarks) ☒

REMARKS:

RECEIVED
JAN 27 1984
OIL CONSERVATION DIVISION
SANTA FE

In accordance with your Order R-520

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 31st day of August 19 54

SOUTHERN CALIFORNIA PETROLEUM CORP.

Approved ....., 19.....

OIL CONSERVATION COMMISSION

By .....

Title .....

By [signature]

Title Petroleum Engineer

(See Instructions on Reverse Side)

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
BOX 2045
HOBBS, NEW MEXICO

DATE December 31, 1953

TO: Southern California Petroleum Corporation

Box 1071, Midland, Texas

GENTLEMEN:

Form C-104 for your Lankford (LEASE) 1 (WELL) 25-23-36 (S.T.R.) Langmat (POOL)

has been approved, however, since this well is:

( ) An unorthodox location,

(X) Located on an unorthodox proration unit,

( ) Outside the boundaries of a designated pool,

it will be necessary for you to;

( ) Comply with the provisions of Rule 4 of Commission Order _____

(X) Comply with the provisions of Rule 7 of Commission Order R 369 A

( ) File Form C-123

Pending further Commission action this unit will be assigned an 120 acre allowable.

Stanley J. Stanley
A. L. Porter, Jr.
Proration Manager

ALP/pb

cc/ Transporter El Paso Natural Gas Co.

(Form C-110)
(Revised 7/1/52)

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

It is necessary that Form C-104 be approved before this form can be approved an an *initial* allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

SOUTHERN CALIFORNIA PETROLEUM CORPORATION

Company or Operator ..... Lease Nina Lankford

Address ..... (Local or Field Office) Box 1071, Midland, Texas (Principal Place of Business)

Unit G, Well(s) No. 1, Sec. 25, T. 23S, R. 36E, Pool Langmat

County Lea Kind of Lease: Fee

If Oil well Location of Tanks On lease

Authorized Transporter El Paso Natural Gas Company Address of Transporter

..... (Local or Field Office), El Paso, Texas (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported 100 Other Transporters authorized to transport Oil or Natural Gas from this unit are none

..... %

REASON FOR FILING: (Please check proper box)

NEW WELL ☐ CHANGE IN OWNERSHIP ☐

CHANGE IN TRANSPORTER ☐ OTHER (Explain under Remarks) ☒

REMARKS:

In compliance with Order R-356.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 28th day of December 19 53

SOUTHERN CALIFORNIA PETROLEUM CORP.

Approved DEC 31 1953, 19.....

OIL CONSERVATION COMMISSION

By L. J. Stanley

Engineer District 1

Title .....

By A. Mannon

Title Petroleum Engineer

(See Instructions on Reverse Side)

NEW MEXICO
OIL CONSERVATION COMMISSION

Gas Well Plat

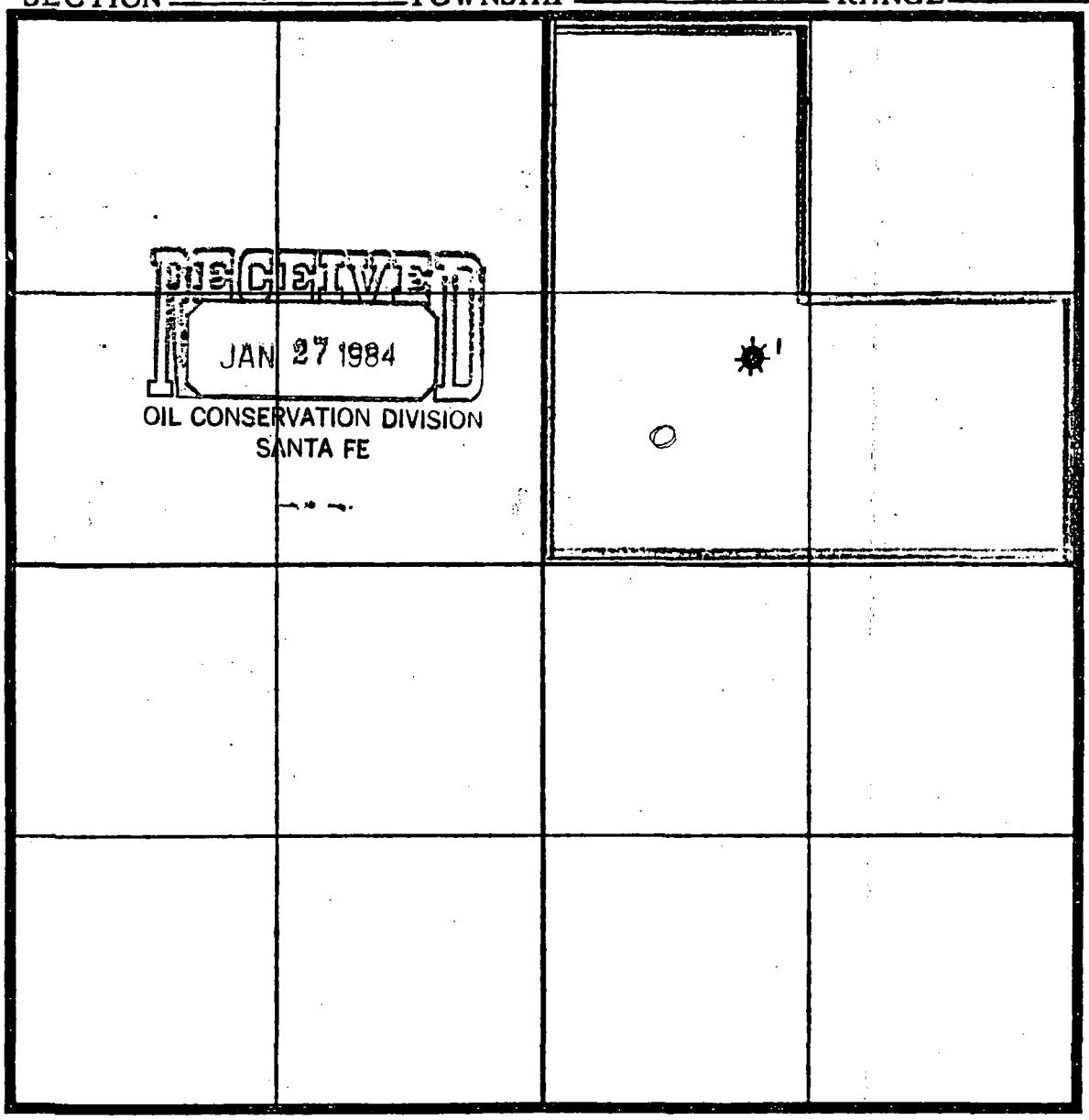
Date Dec. 28, 1953

SOUTHERN CALIFORNIA PETROLEUM CORP. — Operator
Nina Lankford — Lease
1 — Well No.

Name of Producing Formation Yates Pool Langmat

No. Acres Dedicated to the Well 120

SECTION 25 TOWNSHIP 23S RANGE 36E



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

Name [signature]
Position Petroleum Engineer
Representing SO.CAL.PET.CORP.
Address Box 1071, Midland, Texas

(over)

(Form C-104)
(Revised 7/1/52)

DUPLICATE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

REQUEST FOR (OIL) - (GAS) ALLOWABLE

New Well
Recompletion

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

Midland, Texas (Place) 12/28/53 (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:
SOUTHERN CALIFORNIA PETROLEUM CORP., Nina Lankford (Lease), Well No. 1, in NE ¼ NW ¼,
(Company or Operator)
G (Unit), Sec. 25, T. 23S, R. 36E, NMPM., Langmat Pool
Lea County. Date Spudded 10/19/49, Date Completed 12/24/49

Please indicate location:

Elevation 3348 Total Depth 3637, P.B.

Top oil/gas pay 2955 Prod. Form Yates

Casing Perforations: 2955-3190 or

Depth to Casing shoe of Prod. String 3460

Natural Prod. Test BOPD

based on bbls. Oil in Hrs. Mins.

Test after acid or shot BOPD

Based on bbls. Oil in Hrs. Mins.

Gas Well Potential 13,200 MCFPD AOF

Size choke in inches

Date first oil run to tanks or gas to Transmission system: 5/8/50

Transporter taking Oil or Gas: El Paso Natural Gas Co.

Casing and Cementing Record

Size	Feet	Sax
13"	60	75
8 5/8	1195	700
5½"	3460	200

Remarks:

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

Approved DEC 31 1953, 19 SOUTHERN CALIFORNIA PETROLEUM CORP.
(Company or Operator)

OIL CONSERVATION COMMISSION

By: A. Stanley

Title Engineer District 1

By: A. Mannon
(Signature)

Title Petroleum Engineer

Send Communications regarding well to:

Name SOUTHERN CALIFORNIA PET. CORP.

Address Box 1071, Midland, Texas

R-15

(Form C-110)
(Revised 7/1/52)

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

It is necessary that Form C-104 be approved before this form can be approved an an *initial* allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Company or Operator SOUTHERN CALIFORNIA PETROLEUM CORPORATION Lease Nina Lankford

Address P. O. Box 1071 (Local or Field Office) Midland, Texas (Principal Place of Business)

Unit G, Well(s) No. 1, Sec. 25, T. 23S, R. 36E, Pool Langlie-Mattix

County Lea Kind of Lease: fee

If Oil well Location of Tanks On lease

Authorized Transporter Texas-New Mexico Pipe Line Co. Address of Transporter

(Local or Field Office), Midland, Texas (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported 100 Other Transporters authorized to transport Oil or Natural Gas from this unit are

%

REASON FOR FILING: (Please check proper box)

NEW WELL ☐ CHANGE IN OWNERSHIP ☒

CHANGE IN TRANSPORTER ☐ OTHER (Explain under Remarks) ☐

REMARKS:

Culbertson & Irwin, Inc. purchased by Southern California Petroleum Corporation.

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the 14th day of January 19 53

SOUTHERN CALIFORNIA PETROLEUM CORP.

By Scott A. Murray

Title Manager

Approved 2-13, 1953

OIL CONSERVATION COMMISSION

By Roy O. Yarbrough

Title

(See Instructions on Reverse Side)

Form C-103

OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

RECEIVED OCT 23 1950

Miscellaneous Reports on Wells

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL		REPORT ON PRESSURE TEST	X

October 18, 1950 (Date) Midland, Texas (Place)

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO.
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the Culbertson & Irwin, Inc. (Company or Operator) Nina Lankford (Lease) Well No. 1 in the NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

The dates of this work were as follows: 10-10-50

Notice of intention to do the work was (was not) submitted on Form C-102 on ..... 19.....

and approval of the proposed plan was (was not) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

In compliance with Commission Rule 402, above well shut in for 24 hours and pressure test taken on October 10, 1950, with dead weight gauge showing 1179.3#.

Witnessed by E. H. Irwin (Name) Culbertson & Irwin, Inc. (Company) Supt. (Title)

Subscribed and sworn before me this 18th day of October, 19 50

Darene Franklin
Notary Public

My commission expires June 1, 1951

I hereby swear or affirm that the information given above is true and correct.

Name [signature]

Position President

Representing Culbertson & Irwin, Inc. (Company or Operator)

Address Box 1071, Midland, Texas

Remarks:

APPROVED

Date OCT 23 1950

[signature]
Engineer District 1 (Name)

(Title)

Form C-103

UPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL		REPORT ON DUAL COMPLETION	X

February 16, 1950 (Date) Midland, Texas (Place)

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the Culbertson & Irwin, Inc. (Company or Operator) Nina Lankford (Lease) Well No. 1 in the SW/4 NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

The dates of this work were as follows: 1/27 - 2/6, 1950

Notice of intention to do the work was (~~was not~~) submitted on ~~Form C-102~~ on 1/24 1950 and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.) at hearing before Commission.

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

See attached sheet

Witnessed by J. L. Brown (Name) Culbertson & Irwin, Inc. (Company) Drlg.Supt. (Title)

Subscribed and sworn before me this 16th day of February 1950

Dorcas Franklin
Notary Public

My commission expires June 1, 1951

I hereby swear or affirm that the information given above is true and correct.

Name [signature]

Position President

Representing Culbertson & Irwin, Inc.
Company or Operator

Address Box 1071, Midland, Texas

Remarks:

Roy Yarbrough
OIL & GAS INSP. Name

Title

APPROVED

FEB 20 1950

Well was originally completed on December 24, 1949, for an initial production of 30 bbls. daily from the Queen sand. Authority to perforate and produce gas from the Yates was granted by the Oil Conservation Commission on January 24, 1950. The well was killed with mud - tubing pulled and the 5½" casing perforated as follows:

88	holes	from	2955-2998
20	"	"	3005-3015
26	"	"	3025-3038
70	"	"	3045-3080
50	"	"	3145-3170
20	"	"	3180-3190

The 2 3/8" tubing was then run back to 3612' with an American packer set at 3378-3384' and an Otis side door choke in the tubing at 3187'. The packer was set and the mud in the tubing and between the tubing and casing was circulated out and displaced with oil - the Otis choke was then closed - the tubing was swabbed and the well cleaned up and started producing oil from the Queen.

Pressure built up on the casing to 800# and the well was opened and unloaded the oil load above the packer and between the tubing and casing. The well was blown for several hours to clean up. Absolute open flow was 13,200 MCF (back pressure test).

Shut in casing pressure was 1183#.

DUPLICATE

Form C-110

OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

RECEIVED DEC 30 1949 HOBBS OFFICE

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL

Company or Operator Culbertson & Irwin, Inc. Lease Nina Lankford

Address Jal, New Mexico (Local or Field Office) Box 1071, Midland, Texas (Principal Place of Business)

Unit O Wells No. 1 Sec 25 T 23 R 36 Field Langlie-Mattix County Lea

Kind of Lease Fee Location of Tanks SW/4 NE/4 Section 25

Transporter Texas-New Mexico Pipe Line Co. Address of Transporter (Local or Field Office)

Midland, Texas (Principal Place of Business) Percent of oil to be transported 100. Other transporters authorized to transport oil from this unit are none %

REMARKS:

The undersigned certifies that the rules and regulations of the Oil Conservation Commission have been complied with except as noted above and that gathering agent is authorized to transport the percentage of oil produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Oil Conservation Commission of New Mexico.

Executed this the 28th day of December, 1949.

CULBERTSON & IRWIN, INC.
(Company or Operator)

By [signature]

Title President

State of TEXAS
County of MIDLAND } ss.

Before me, the undersigned authority, on thisday personally appeared L. A. CULBERTSON known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report it true and correct.

Subscribed and sworn to before me, this the 28th day of December, 1949

Dorene Frankein

Notary Public in and for Midland County, Texas

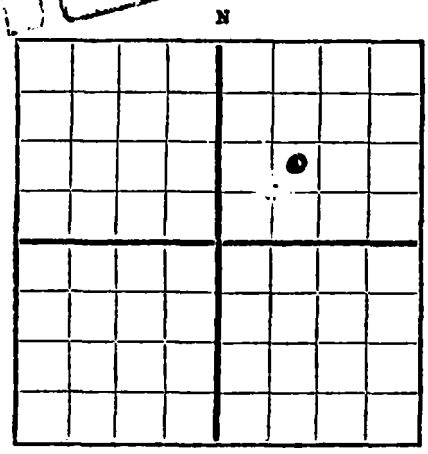
Approved: 12-29-1949
OIL CONSERVATION COMMISSION

By Roy O. Yarbrough

(See Instruction on Reverse Side)

DUPLICATE

FORM C-105



AREA 640 ACRES
LOCATE WELL CORRECTLY

RECEIVED
DEC 28 1949
HOBBS OFFICE

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Culbertson & Irwin, Inc. (Company or Operator) Box 1071, Midland, Texas (Address)

Mina Lankford (Lease) Well No. 1 in SW/4 NE/4 of Sec. 25, T. 23S

R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

Well is 1650 feet south of the North line and 1650 feet west of the East line of Section 25

If State land the oil and gas lease is No. ..... Assignment No. .....

If patented land the owner is Mina Lankford, Address .....

If Government land the permittee is ....., Address .....

The Lessee is Culbertson & Irwin, Inc., Address .....

Drilling commenced Oct. 19 19 49 Drilling was completed Dec. 21 19 49

Name of drilling contractor Oil Well Remedial Service, Address Odessa, Texas

Elevation above sea level at top of casing 3348 feet.

The information given is to be kept confidential until Not confidential 19 .....

OIL SANDS OR ZONES

No. 1, from 3515 to 3525 No. 4, from 3630 to 3635

No. 2, from 3555 to 3575 No. 5, from ..... to .....

No. 3, from 3600 to 3610 No. 6, from ..... to .....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from ..... to ..... feet. .....

No. 2, from ..... to ..... feet. .....

No. 3, from ..... to ..... feet. .....

No. 4, from ..... to ..... feet. .....

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM	PERFORATED TO	PURPOSE
13	48	8	Used	60	T.P.				Conductor
8 5/8	28	8	"	1195	T.P.				Surface
5½	14	8	New	3460	Halliburton Float				Oil string

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
16"	13	60	75	Halliburton		
11"	8 5/8	1195	700	"		
8"	5½	3460	200	"		

PLUGS AND ADAPTERS

Heaving plug—Material..... Length..... Depth Set.....

Adapters — Material..... Size.....

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
3½"	Tin	Nitro	250	12/3/49	3637-3537	T.D.
					3525-3500	

Results of shooting or chemical treatment Produced 30 bbls. in 24 hrs. after shot - no natural test.

RECORD OF DRILL-STEM AND SPECIAL TESTS

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from 0 feet to 3637 feet, and from ..... feet to ..... feet

Cable tools were used from ..... feet to ..... feet, and from ..... feet to ..... feet

PRODUCTION

Put to producing Dec. 24, 19 49

The production of the first 24 hours was 30 barrels of fluid of which 100 % was oil; ..... % emulsion; ..... % water; and ..... % sediment. Gravity, Be 34

If gas well, cu. ft. per 24 hours ..... Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. .....

EMPLOYEES

DRILLING CONTRACTOR'S

E. B. Coon, Jr., Driller L. L. Ballard, Driller

Jim Talifino, Driller ....., Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Subscribed and sworn to before me this 27th day of December, 1949

Darene Fraunlein
Notary Public

My Commission expires June 1, 1951

Midland, Texas (Place) Dec. 27, 1949 (Date)

Name [signature]

Position President

Representing Culbertson & Irwin, Inc. (Company or Operator)

Address Box 1071, Midland, Texas

APPROVED

Date DEC 2 9 1949

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	50	50	Sand & gravel
50	100	50	Red & gray shale
100	200	100	Sand & shale
200	700	500	Red & gray shale
700	750	50	Sand
750	1180	430	Red rock
1180	1285	105	Anhydrite
1285	1500	215	Salt, anhydrite & red rock
1500	1800	300	Salt & anhydrite
1800	1900	100	Anhydrite & red rock
1900	2000	100	Anhydrite
2000	2250	250	Salt
2250	2280	30	Anhydrite
2280	2350	70	Salt
2350	2380	30	Anhydrite
2380	2500	120	Salt
2500	2575	75	Salt & anhydrite
2575	2750	225	Salt
2750	2790	40	Anhydrite
2790	2930	140	Brown lime & anhydrite
2930	3000	70	Lime & sand
3000	3070	70	Lime
3070	3250	180	Lime & sand
3250	3460	210	Lime
3460	3500	40	Lime, Sand & shale
3500	3520	20	Sand & lime
3520	3550	30	Lime
3550	3575	25	Sand
3575	3600	25	Lime
3600	3637	37	Lime & sand
			T.D. 3637

Form C-103

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS		REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

November 29, 1949 — Date
Midland, Texas — Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the Culbertson & Irwin, Inc. (Company or Operator) Nina Lankford (Lease) Well No. 1 in the NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

The dates of this work were as follows: 11/25/49

Notice of intention to do the work was (~~was not~~) submitted on Form C-102 on 11/12 1949 and approval of the proposed plan was (~~was not~~) obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

5½" casing set at 3460 and cemented on 11/11/49 with 200 sax. Plug drilled 11/25/49 and tested with 1200# pump pressure. Complete shut-off obtained and drilling resumed.

Witnessed by J. L. Brown (Name) Culbertson & Irwin, Inc. (Company) Asst. Supt. (Title)

Subscribed and sworn before me this 29th day of November 1949

Dorene Franklin
Notary Public

My commission expires June 1, 1951

I hereby swear or affirm that the information given above is true and correct.

Name [signature]

Position President

Representing Culbertson & Irwin, Inc.
Company or Operator

Address Box 1071, Midland, Texas

Remarks:

Roy Lankford
Name

Title

Form C-102

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

RECEIVED NOV 1 5 1949

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	X	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Midland, Texas (Place) November 12, 1949 (Date)

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the Culbertson & Irwin, Inc. (Company or Operator) Nina Lankford (Lease) Well No. 1 in NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field. Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

5½" 14# J-55 new seamless casing set in brown lime at 3460' with total depth of 3461', and cemented by Halliburton November 11, 1949, with 200 sacks. Will let set 60 hours, drill plug November 14 and test with 1000# pump pressure.

Approved _____, 19____
except as follows:

OIL CONSERVATION COMMISSION,

By Roy Lankenau

Title

CULBERTSON & IRWIN, INC.
Company or Operator

By [signature]

Position President

Send communications regarding well to

Name Culbertson & Irwin, Inc.

Address Box 1071, Midland, Texas

Form C-103

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

MISCELLANEOUS REPORTS ON WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the work specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of report by checking below.

REPORT ON BEGINNING DRILLING OPERATIONS	X	REPORT ON REPAIRING WELL	
REPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON PULLING OR OTHERWISE ALTERING CASING	
REPORT ON RESULT OF TEST OF CASING SHUT-OFF	X	REPORT ON DEEPENING WELL	
REPORT ON RESULT OF PLUGGING OF WELL			

November 1, 1949 — Date

Midland, Texas — Place

OIL CONSERVATION COMMISSION,
SANTA FE, NEW MEXICO
Gentlemen:

Following is a report on the work done and the results obtained under the heading noted above at the Culbertson & Irwin, Inc. (Company or Operator) Mina Lankford (Lease) Well No. 1 in the NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

The dates of this work were as follows: 10/19-49 and 10/30/49

Notice of intention to do the work was ~~(was not)~~ submitted on Form C-102 on 10/28 19 49

and approval of the proposed plan was ~~(was not)~~ obtained. (Cross out incorrect words.)

DETAILED ACCOUNT OF WORK DONE AND RESULTS OBTAINED

Drilling commenced 10/19/49.

60' of 13 3/8" conductor set and cemented to surface on 10/21/49. Oil pressure was encountered at 720'. 8 5/8" casing set at 1195' and cemented to surface with 700 sacks 10/28/49. Drilled plug 10/30/49 and tested with 1000# pressure. Shut off obtained and drilling resumed.

Witnessed by Jack J. Brown (Name) Culbertson & Irwin, Inc. (Company) Asst. Supt. (Title)

Subscribed and sworn before me this 1st day of November 1949

Dorene Franklin
Notary Public

My commission expires June 1, 1951

I hereby swear or affirm that the information given above is true and correct.

Name [signature]

Position President

Representing Culbertson & Irwin, Inc.
Company or Operator

Address Box 1071, Midland, Texas

Remarks:

Roy Yarbrough
Name

Title

Form C-102

NEW MEXICO OIL CONSERVATION COMMISSION

SANTA FE, NEW MEXICO

MISCELLANEOUS NOTICES

Submit this notice in triplicate to the Oil Conservation Commission or its proper agent before the work specified is to begin. A copy will be returned to the sender on which will be given the approval, with any modifications considered advisable, or the rejection by the Commission or agent, of the plan submitted. The plan as approved should be followed, and work should not begin until approval is obtained. See additional instructions in the Rules and Regulations of the Commission.

Indicate nature of notice by checking below:

NOTICE OF INTENTION TO TEST CASING SHUT-OFF	X	NOTICE OF INTENTION TO SHOOT OR CHEMICALLY TREAT WELL	
NOTICE OF INTENTION TO CHANGE PLANS		NOTICE OF INTENTION TO PULL OR OTHERWISE ALTER CASING	
NOTICE OF INTENTION TO REPAIR WELL		NOTICE OF INTENTION TO PLUG WELL	
NOTICE OF INTENTION TO DEEPEN WELL			

Midland, Texas (Place) October 28, 1949 (Date)

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico.

Gentlemen:

Following is a notice of intention to do certain work as described below at the Culbertson & Irwin, Inc. (Company or Operator) Nina Lankford (Lease) Well No. 1 in NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M., Langlie-Mattix Field, Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK

FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS OF THE COMMISSION

8 5/8", 32# seamless casing set at 1195' with total depth of 1200', and cemented to surface with 700 sacks by Halliburton on October 28, 1949.

Will let set 48 hours and drill plug October 30, 1949.

Will test with 1000# pump pressure.

Approved [illegible], 19____
except as follows:

OIL CONSERVATION COMMISSION,
By [illegible]
Title [illegible]

CULBERTSON & IRWIN, INC.
Company or Operator
By [signature]
Position President
Send communications regarding well to
Name Culbertson & Irwin, Inc.
Address Box 1071
Midland, Texas

NOTICE OF INTENTION TO DRILL

Notice must be given to the Oil Conservation Commission or its proper agent and approval obtained before drilling begins. If changes in the proposed plan are considered advisable, a copy of this notice showing such changes will be returned to the sender. Submit this notice in triplicate. One copy will be returned following approval. See additional instructions in Rules and Regulations of the Commission.

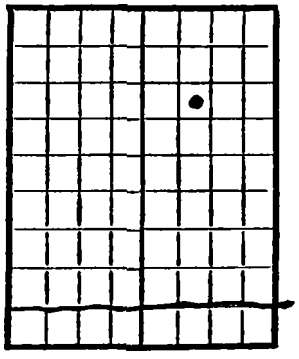
Midland, Texas. (Place) 10- 14- 49 (Date)

OIL CONSERVATION COMMISSION,
Santa Fe, New Mexico,

Gentlemen:

You are hereby notified that it is our intention to commence the drilling of a well to be known as Culbertson & Irwin Inc. (Company or Operator) Nina Lankford Well No. 1 in SW/4 NE/4 of Sec. 25, T. 23S, R. 36E, N. M. P. M. Lanehie Mattix Field, Lea County.

N



AREA 640 ACRES

LOCATE WELL CORRECTLY

The well is 1650 feet (N.) (S.) of the North line and 1650 feet (W.) of the East line of Section 25, 23-36

(Give location from section or other legal subdivision lines. Cross out wrong directions.)

If state land the oil and gas lease is No. ..... Assignment No. .....

If patented land the owner is Nina Lankford

Address Alpine, Texas

If government land the permittee is .....

Address .....

The lessee is .....

Address .....

We propose to drill well with drilling equipment as follows: Rotary to total depth

The status of a bond for this well in conformance with Rule 39 of the General Rules and Regulations of the Commission is as follows: Culbertson & Irwin Inc. Blanket

We propose to use the following strings of casing and to land or cement them as indicated:

Size of Hole	Size of Casing	Weight Per Foot	New or Second Hand	Depth	Landed or Cemented	Sacks Cement
16"	13"	48#	New	90'	Cemented	To surface
11"	8 5/8"	28#	"	1200'	"	" "
8"	5 1/2"	15#	"	3450'	"	200 sacks

If changes in the above plan become advisable we will notify you before cementing or landing casing. We estimate that the first productive oil or gas sand should occur at a depth of about 3150' feet.

Additional information: If commercial production is obtained in the Queen sand at approx. 3500' we will ask for approval of a dual completion; Gas from Yates thro perforations in 5 1/2" and oil from Queen thro tubing with packer set in casing between zones.

Approved OCT 4 1949, 19..
except as follows:

Sincerely yours,

Culbertson & Irwin Inc.
(Company or Operator)

By [signature]

Position President

Send communications regarding well to

Name Above Company

Address Box 1071 Midland, Texas

OIL CONSERVATION COMMISSION,

By [signature]

Title .....