

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

MOBBS OFFICE OCC
1957 OCT 4 AM 9:35

COMPANY Shell Oil Company P. O. Box 1357 Hobbs, New Mexico
(Address)

LEASE Argo WELL NO. 1 UNIT M S 15 T -21-8 R -37-E
DATE WORK PERFORMED 8-24-57 POOL Tubb

This is a Report of: (Check appropriate block) ☐ Results of Test of Casing Shut-off
☐ Beginning Drilling Operations ☒ Remedial Work
☒ Plugging ☐ Other _____

Detailed account of work done, nature and quantity of materials used and results obtained.
Abandoned Trinkard oil zone and fracture treated Tubb gas zone.

1. Set CIPR @ 6300' and capped with cement.
2. Run Radioactivity Survey.
3. Treated thru casing perfor 6030' - 6240' with 30,000 gallons gelled lease crude containing 1 1/2 gal. 20-40 mesh sand and 0.1 1/2 gal. Adomite. Used 120 rubber balls and 50 PB after 1st and 2nd 10,000 gal. stages.

On absolute open flow potential test taken by El Paso well flowed at the rate of 10.2 MCFGPD.

Request cancellation of Trinkard oil allowable effective 9-1-57.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data: Trinkard 89 ROPD
Tubb 3.5 MCFGPD
DF Elev. 3446' TD 6646 PBD - Prod. Int. _____ Compl Date 9-30-47
Tbng. Dia 2" Tbng Depth 6591 Oil String Dia 5 1/2" Oil String Depth 6529'
Perf Interval (s) Tubb 6030' - 6240'
Open Hole Interval 6529' - 6646' Producing Formation (s) Tubb & Trinkard

RESULTS OF WORKOVER:

	BEFORE	AFTER
Date of Test	<u>2-12-53</u>	<u>9-20-57</u>
Oil Production, bbls. per day	<u>-</u>	<u>-</u>
Gas Production, Mcf per day	<u>-</u>	<u>-</u>
Water Production, bbls. per day	<u>-</u>	<u>-</u>
Gas-Oil Ratio, cu. ft. per bbl.	<u>-</u>	<u>-</u>
Gas Well Potential, Mcf per day	<u>3,500</u>	<u>10,200</u>
Witnessed by <u>H. T. Leach</u>	<u>Shell Oil Company</u>	

(Company)

OIL CONSERVATION COMMISSION

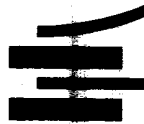
Name E. J. Fisher
Title _____
Date _____

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

Name Rex C. Cebanise
Position District Exploitation Engineer
Company Shell Oil Company



LTR



Job separation sheet

NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

1957 OCT 4 AM 9:35

Pool Tubb Gas Formation Tubb County Lea, New Mexico

Initial Annual Special X Date of Test 9-16/20-57

Company Shell Oil Company Lease Arpa Well No. 1

Unit M Sec. 15 Twp. 21-S Rge. 37-E Purchaser El Paso Natural Gas Company

Casing 5 1/2" Wt. 28.54 I.D. 4.990" Set at 6929 Perf. 6090 To 6040

Tubing 2" Wt. 4.74 I.D. - Set at 7960 Perf. - To -

Gas Pay: From 6090 To 6040 L 7960 xG 0.685 GL 4082 Bar.Press. 13.2

Producing Thru: Casing Tubing X Type Well Single

Date of Completion: 8-25-57 Packer None Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. 104° F

OBSERVED DATA

Tested Through (Meter) Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						2713		2797		72
1.	4	1.990	287	14.44	57	2809		2790		24
2.	4	1.990	288	12.49	52	2845		2720		24
3.	4	1.990	288	97.76	54	2809		2808		24
4.	4	1.990	291	100.00	54	2790		2807		24
5.										

FLOW CALCULATIONS

No.	Coefficient (F _{1g}) (24-Hour)	$\sqrt{h_{wDf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	11.99	69.11		1.017	0.999	1.073	1.508
2.	11.99	132.8		1.017	0.999	1.073	1.908
3.	11.99	181.9		1.017	0.999	1.080	2.612
4.	11.99	237.3		1.017	0.999	1.080	3.411
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
 Gravity of Liquid Hydrocarbons deg.
 F_c Measured (1-e^{-s})
 Specific Gravity Separator Gas
 Specific Gravity Flowing Fluid
 P_c 1810.2 P_c 2876.8

No.	P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	1602.2	2567.1	Measured			3104.9	107.9	1704	97.5
2.	1598.2	2554.6				2549.4	307.4	1723	95.4
3.	1592.2	2535.2				2509.6	407.2	1679	92.7
4.	1588.2	2522.6				2483.0	451.8	1621	89.7
5.									

Absolute Potential: 10,200 MCFPD; n 0.730
 COMPANY Shell Oil Company
 ADDRESS Box 1977, Hobbs, New Mexico
 AGENT and TITLE F. A. Bunde, Division Production Engineer
 WITNESSED Smith & Burt
 COMPANY El Paso Natural Gas Company

REMARKS

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia
- P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia
- P_f = Meter pressure, psia.
- h_w = Differential meter pressure, inches water.
- F_g = Gravity correction factor.
- F_t = Flowing temperature correction factor.
- F_{pv} = Supercompressibility factor.
- n = Slope of back pressure curve.

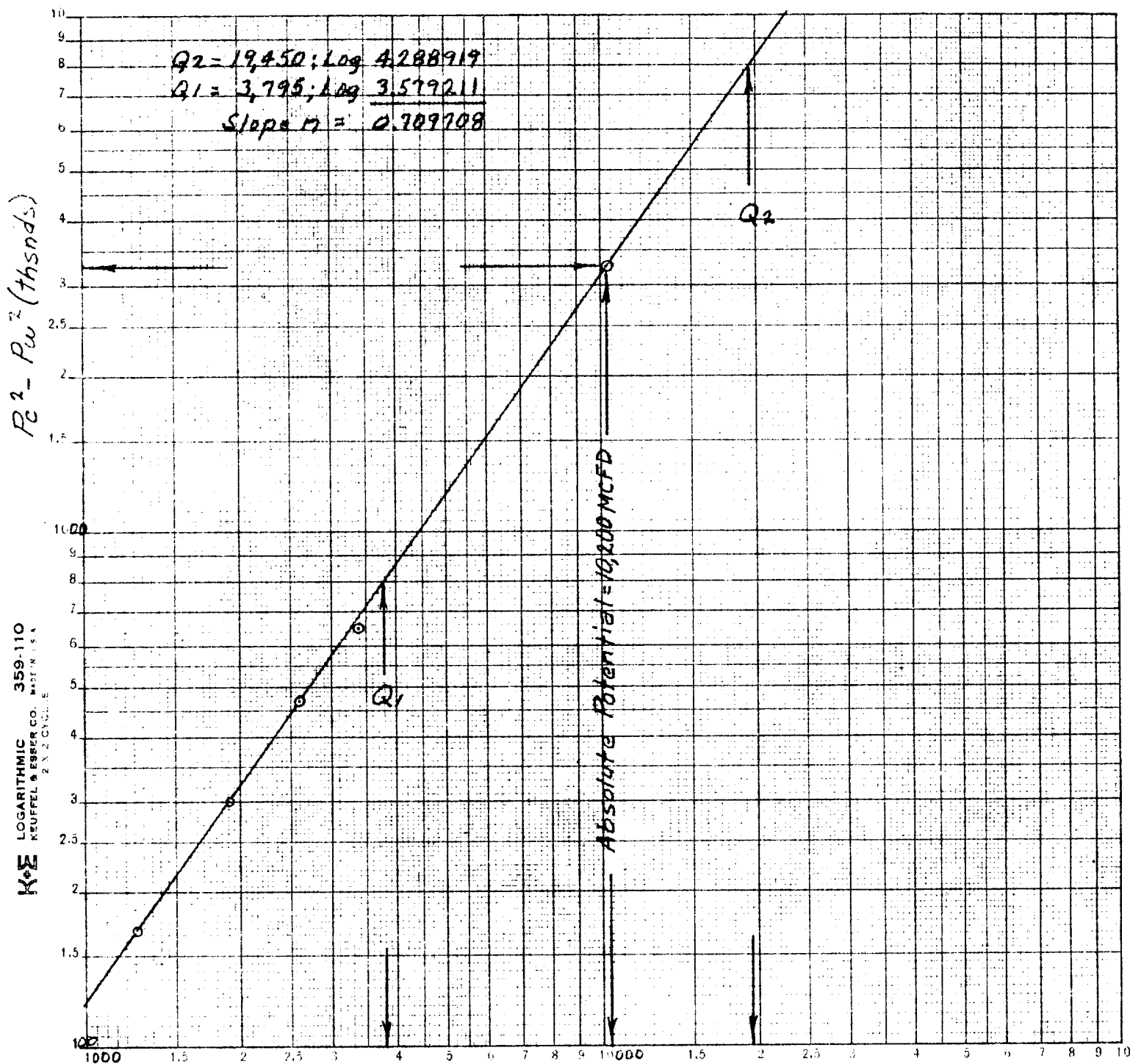
Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

Shell Oil Co

Argo No. 1

M-15-21-37, Lea Co., N. Mex.

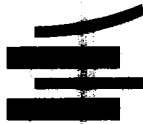
9-20-57



Q - MCFD - 15,025 psia @ 60°F



LTR



Job separation sheet

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

MISCELLANEOUS NOTICES

Submit this notice in TRIPLICATE to the District Office, Oil Conservation Commission, 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 CHANGE PLANS		NOTICE OF INTENTION TO TEMPORARILY ABANDON WELL		NOTICE OF INTENTION TO DRILL DEEPER	
NOTICE OF INTENTION TO PLUG WELL		NOTICE OF INTENTION TO PLUG BACK		NOTICE OF INTENTION TO SET LINER	
NOTICE OF INTENTION TO SQUEEZE		NOTICE OF INTENTION TO ACIDIZE		NOTICE OF INTENTION TO SHOOT (Nitro)	
NOTICE OF INTENTION TO GUN PERFORATE		NOTICE OF INTENTION (OTHER) <u>Abandon Drinkard I</u>		NOTICE OF INTENTION (OTHER) <u>Free Tubb gas</u>	<u>X</u>

OIL CONSERVATION COMMISSION
 SANTA FE, NEW MEXICO

oil zone
Hobbs, New Mexico
 (Place)

zone
August 26, 1957
 (Date)

Gentlemen:

Following is a Notice of Intention to do certain work as described below at the Argo lease

Shell Oil Company
 (Company or Operator) Well No. 1 in M
 (Unit)
SW 1/4 SW 1/4 of Sec. 15, T-21-S, R-27-S, NMPM, Drinkard - Tubb Pool
 (40-acre Subdivision)
Lea County.

FULL DETAILS OF PROPOSED PLAN OF WORK
 (FOLLOW INSTRUCTIONS IN THE RULES AND REGULATIONS)

We propose to do the following:

1. Set cast iron bridge plug @ 6300' and cap w/cement.
2. Run 2" tubing open-ended and displace oil emulsion and w/oil.
3. Treat down 2" tubing w/30,000 gallons gelled lease crude w/Adomite and ball sealers. Overflush w/50 BG.
4. Return Tubb gas zone to production and abandon Drinkard oil zone.

Approved.....1957....., 19.....
 Except as follows:

Approved
 OIL CONSERVATION COMMISSION

By.....E. F. Fisher.....
 Title.....Assistant District Engineer.....

Shell Oil Company

Company or Operator

By.....P. A. Dennis.....

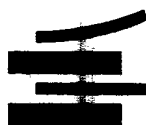
Position.....Division Exploitation Engineer.....
 Send Communications regarding well to:

Name.....Shell Oil Company.....

Address.....P. O. Box 1957 Hobbs, New Mexico.....



LTR



Job separation sheet

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 as an initial allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

1954 JUL 30 PM 1:58

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Shell Oil Company Lease Argo
Address Box 1977, Hobbs, New Mexico Box 1509, Midland, Texas
(Local or Field Office) (Principal Place of Business)
Unit M, Well(s) No. 1, Sec. 15, T. 21-S, R. 37-E, Pool Drinkard
County Lee Kind of Lease: Patented
If Oil well Location of Tanks Center of Argo A Lease
Authorized Transporter Shell Pipe Line Corp. Address of Transporter
Box 1596, Hobbs, New Mexico Box 2684, Houston, Texas
(Local or Field Office) (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: The tank battery which has been serving the Argo lease, Drinkard Pool has been retired and the tank battery on the Argo A lease, Drinkard Pool will be used as storage for Argo wells 1, 2, 3, & 4 and Argo A Well 1, 2, 3, & 5. At the present time, one tank battery serves the Argo and Argo A leases for each of the Brunson and the Hare Pools.

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

Executed this the 30 day of July 19 54

Shell Oil Company

Approved _____, 19____

OIL CONSERVATION COMMISSION

By J. G. Stanley

Title Engineer in Charge

Original Signed By

L. E. Slagle

By _____

Title Division Production Superintendent

INSTRUCTIONS

This form shall be executed and filed in QUADRUPLICATE with the District Office of the Oil Conservation Commission, covering each unit from which oil or gas is produced. A separate certificate shall be filed for each transporter authorized to transport oil or gas from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy returned to the producer, and two copies retained by the Oil Conservation Commission.

A new certificate shall be filed to cover each change in operating ownership and each change in the transporter, except that in the case of a temporary change in the transporter involving less than the allowable production for one proration period, the operator shall in lieu of filing a new certificate notify the Oil Conservation Commission District Office, and the transporter authorized by certificate on file with the Commission, by letter of the estimated amount of oil or gas to be moved by the transporter temporarily moving oil or gas from the unit and the name of such temporary transporter and a copy of such notice shall also be furnished such temporary transporter. Such temporary transporter shall not move any more oil or gas than the estimated amount shown in said notice.

This certificate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil and gas from the property named therein and shall remain in full force and effect until

- (a) Operating ownership changes
- (a) The transporter is changed or
- (c) The permit is cancelled by the Commission.

If any of the rules and regulations of the Oil Conservation Commission have not been complied with at the same time this report is filed, explain fully under the heading "REMARKS."

In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil or gas, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil or gas.

A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.



LTR



Job separation sheet

DUPLICATE
[]

NEW MEXICO OIL CONSERVATION COMMISSION
BOX 2045
HOBBS, NEW MEXICO

DATE December 2, 1953

TO: Shell Oil Company
Box 1957, Hobbs, New Mexico

GENTLEMEN:

Form C-104 for your Argo 1 15-21-37 Tubb
LEASE WELL S.T.R. POOL

has been approved, however, since this well is:

- () An unorthodox location,
- () 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 _____
- () Comply with the provisions of Rule 7 of Commission Order _____
- () File Form C-123

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

Normal 160 Acre unit

SJS

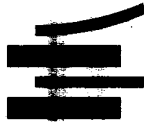
A. L. Porter, Jr.
Proration Manager

ALP/pb

cc/ Transporter **El Paso Natural Gas Co.**



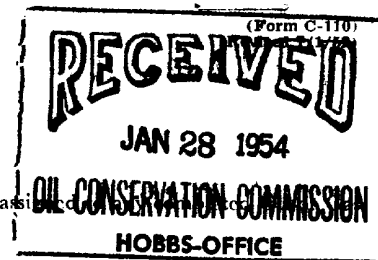
LTR



Job separation sheet

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 this well. Submit this form in QUADRUPLICATE.



**CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS**

Company or Operator Shell Oil Company Lease Arge

Address Box 1957, Hobbs, New Mexico Box 1509, Midland, Texas
(Local or Field Office) (Principal Place of Business)

Unit M, Well(s) No. 1, Sec. 15, T. 21, R. 37, Pool Drinkard

County Lea Kind of Lease: Patented

If Oil well Location of Tanks

Authorized Transporter Skelly Oil Company EFFECTIVE JANUARY 31, 1957,
Box 379, Burisee, New Mexico SKELLY OIL COMPANY MERGED Address of Transporter
Box 1650, Tulsa, Oklahoma INTQ GETTY OIL COMPANY,
(Local or Field Office) (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:

This report covers casinghead gas production on the above lease in accordance with Commission Order R-98-A, Paragraph 9, Rule 1109, Section (A).

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

Executed this the JAN 27 1954 day of 19

SHELL OIL COMPANY,

Approved STANLEY, 19 1954

OIL CONSERVATION COMMISSION

Original Signed By
By L. E. Slagle

By STANLEY

Title Division Production Superintendent

Title

(See Instructions on Reverse Side)

INSTRUCTIONS

This form shall be executed and filed in QUADRUPLICATE with the District Office of the Oil Conservation Commission, covering each unit from which oil or gas is produced. A separate certificate shall be filed for each transporter authorized to transport oil or gas from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy returned to the producer, and two copies retained by the Oil Conservation Commission.

A new certificate shall be filed to cover each change in operating ownership and each change in the transporter, except that in the case of a temporary change in the transporter involving less than the allowable production for one proration period, the operator shall in lieu of filing a new certificate notify the Oil Conservation Commission District Office, and the transporter authorized by certificate on file with the Commission, by letter of the estimated amount of oil or gas to be moved by the transporter temporarily moving oil or gas from the unit and the name of such temporary transporter and a copy of such notice shall also be furnished such temporary transporter. Such temporary transporter shall not move any more oil or gas than the estimated amount shown in said notice.

This certificate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil and gas from the property named therein and shall remain in full force and effect until

- (a) Operating ownership changes
- (a) The transporter is changed or
- (c) The permit is cancelled by the Commission.

If any of the rules and regulations of the Oil Conservation Commission have not been complied with at the same time this report is filed, explain fully under the heading "REMARKS."

In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil or gas, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil or gas.

A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.