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TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRORATION OFFICE		

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

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

AM 7 23
'65 JUN 26

I. Operator **APCO OIL CORPORATION**

Address **930 Liberty Bank Building - Oklahoma City, Oklahoma**

Reason(s) for filing (Check proper box)

New Well	<input type="checkbox"/>	Change in Transporter of:		Other (Please explain)	
Recompletion	<input type="checkbox"/>	Oil	<input type="checkbox"/>	Dry Gas	<input type="checkbox"/>
Change in Ownership	<input checked="" type="checkbox"/>	Casinghead Gas	<input type="checkbox"/>	Condensate	<input type="checkbox"/>

If change of ownership give name and address of previous owner **Schermerhorn Oil Corporation - P.O. Box 287 - Tulsa, Oklahoma**

II. DESCRIPTION OF WELL AND LEASE

Lease Name Carter	Well No. 1	Pool Name, including Formation Eumont - Queen	Kind of Lease State, Federal or Fee Fee
Location Unit Letter G ; 1980 Feet From The North Line and 1980 Feet From The East Line of Section 12 Township 21S Range 36E , NMFM, Lea County			

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)					
El Paso Natural Gas Co.	Box 1492 - El Paso, Texas					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected? Yes	When 2-25-55

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.					
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			

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

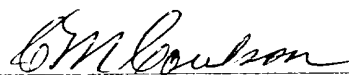
Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

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

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.


C. M. Coulson (Signature)

Manager, Production Division (Title)

July 23, 1965 (Date)

OIL CONSERVATION COMMISSION

APPROVED

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.

NEW MEXICO OIL CONSERVATION COMMISSION

L. S. H. UT
GAS ENGINEER

HOBBS OFFICE OCC

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

1956 OCT 10 PM 3:04

Pool Eumont Formation Queen County LeaInitial _____ Annual _____ Special x Date of Test 6-22-56Company Schermerhorn Oil Corp. Lease Carter Well No. 1Unit G Sec. 12 Twp. 21 S Rge. 36 E Purchaser EPNGCasing 5 1/2 Wt. _____ I.D. _____ Set at 3416 Perf. _____ To _____Tubing 2 3/8 Wt. _____ I.D. _____ Set at 8600 Perf. _____ To _____Gas Pay: From 3480 To 3680 L 8600 xG .670 -GL 2412 Bar.Press. 18.2Producing Thru: Casing _____ Tubing x Type Well Single

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

Date of Completion: 9-28-54 Packer None Reservoir Temp. _____

OBSERVED DATA

Tested Through (KROCK) (KROCK) (Meter) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(KROCK) (Line) Size	(KROCK) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						<u>762</u>				<u>72</u>
1.	<u>4 x 1.250</u>		<u>588</u>	<u>3.62</u>	<u>68</u>	<u>713</u>				<u>24</u>
2.	<u>4 x 1.250</u>		<u>588</u>	<u>4.52</u>	<u>69</u>	<u>688</u>				<u>24</u>
3.	<u>4 x 1.250</u>		<u>580</u>	<u>5.52</u>	<u>65</u>	<u>658</u>				<u>24</u>
4.	<u>4 x 1.250</u>		<u>571</u>	<u>6.22</u>	<u>70</u>	<u>605</u>				<u>24</u>
5.										

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.	<u>9.648</u>	<u>87.89</u>		<u>.9924</u>	<u>.9468</u>	<u>1.066</u>	<u>850</u>
2.	<u>9.648</u>	<u>110.82</u>		<u>.9915</u>	<u>.9468</u>	<u>1.066</u>	<u>1,064</u>
3.	<u>9.648</u>	<u>139.94</u>		<u>.9952</u>	<u>.9468</u>	<u>1.066</u>	<u>1,297</u>
4.	<u>9.648</u>	<u>149.83</u>		<u>.9905</u>	<u>.9468</u>	<u>1.060</u>	<u>1,485</u>
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.

Gravity of Liquid Hydrocarbons _____ deg.

F_c 9.986 (1-e^{-s}) 0.153

Specific Gravity Separator Gas _____

Specific Gravity Flowing Fluid _____

P_c 775.2 P_c² 600.9

No.	P _w 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 F _c
1.	<u>726.2</u>	<u>527.4</u>	<u>8.45</u>	<u>71.40</u>	<u>10.92</u>	<u>588.3</u>	<u>62.6</u>		
2.	<u>701.2</u>	<u>491.7</u>	<u>10.57</u>	<u>111.72</u>	<u>17.09</u>	<u>508.8</u>	<u>92.1</u>		
3.	<u>666.2</u>	<u>443.8</u>	<u>12.89</u>	<u>166.15</u>	<u>25.42</u>	<u>469.2</u>	<u>131.7</u>		
4.	<u>618.2</u>	<u>382.2</u>	<u>14.26</u>	<u>203.85</u>	<u>31.11</u>	<u>418.3</u>	<u>187.6</u>	<u>620</u>	
5.									

Well could not be pulled down below 79% of SIP due to choke size

Absolute Potential: 3,200 MCFPD; n .578COMPANY SCHERMERHORN OIL CORPORATIONADDRESS BOX 1587, HOBBS, NEW MEXICOAGENT AND TITLE J. Hiram Moore, GeologistWITNESSED J. R. BlumerCOMPANY 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 .