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LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRORATION OFFICE		

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

Form C-104
Supersedes Old C-104 and C-11
Effective 1-1-65

I. Operator
Sun Oil Company

Address
Box 2792, Odessa, Texas 79760

Reason(s) for filing (Check proper box) Other (Please explain)

New Well ☒ Change in Transporter of: Oil ☐ Dry Gas ☐

Recompletion ☐ Casinghead Gas ☐ Condensate ☐

Change in Ownership ☐

If change of ownership give name
and address of previous owner

II. DESCRIPTION OF WELL AND LEASE

Lease Name **New Mexico "H" State** Well No. **16** Pool Name, Including Formation **Cato-San Andres** Kind of Lease **State** Lease No. **103372**

Location
Unit Letter **M** **660** Feet From The **South** Line and **660** Feet From The **West**

Line of Section **16** Township **8S** Range **30E** , NMPM, **Chaves** 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)
Scurlock Oil Company **414 Mid American Bldg., Midland, Texas**

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

If well produces oil or liquids, give location of tanks. Unit **F** Sec. **16** Twp. **8S** Rge. **30E** Is gas actually connected? **No** When

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)	X	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'tv.	Diff. Res'tv.
Date Spudded	3-14-67	Date Compl. Ready to Prod.	3-24-67	Total Depth	3500	P.B.T.D.	3475		
Elevations (DF, RKB, RT, GR, etc.)	GR 4108, DF 4117, RDB 4118	Name of Producing Formation	Und.-Cato, San Andres	Top Oil/Gas	3283	Tubing Depth	3252		
Perforations	3303, 07, 13, 15, 17, 21, 22, 23, 25, 27, 29, 33, 35, 41, 45 1/2 (15 holes)						Depth Casing Shoe	3499	

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
12 1/4	8-5/8	452	300 Sks.
7-7/8	4-1/2	3500	300 Sks.
	2-3/8	3252	

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	3-22-67	Date of Test	3-24-67	Producing Method (Flow, pump, gas lift, etc.)	Flow
Length of Test	6 1/2 Hrs.	Tubing Pressure	540	Casing Pressure	Pkr.
Actual Prod. During Test	67.32	Oil - Bbls.	60.33	Water - Bbls.	6.99
				Gas - MCF	TSTM

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.

Area Supt.
3-27-67

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.

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined by the equation

$$f(x) = \int_0^x \frac{1}{1+t^2} dt$$

It is well known that this function is the arctangent function, i.e., $f(x) = \arctan x$.

The second part of the paper is devoted to the study of the properties of the function $g(x)$ defined by the equation

$$g(x) = \int_0^x \frac{1}{1+t^4} dt$$

It is well known that this function is the function $g(x) = \frac{1}{3} \arctan \frac{x}{\sqrt{1+x^2}}$.

The third part of the paper is devoted to the study of the properties of the function $h(x)$ defined by the equation

$$h(x) = \int_0^x \frac{1}{1+t^6} dt$$

It is well known that this function is the function $h(x) = \frac{1}{5} \arctan \frac{x}{\sqrt{1+x^2}}$.