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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-110
Effective 1-1-65

I.

Operator: WILLIAM C. RUSSELL

Address: 745 Fifth Avenue New York, N. Y. 10022

Reason(s) for filing *(Check proper box)*
New Well XXX
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.
LUNT	62-E	Basin Dakota	State, Federal or Fee Fed.	NM-09867-A

Location
Unit Letter O ; 1190 Feet From The South Line and 1520 Feet From The East
Line of Section 18 Township 30 North Range 13 West , NMPM, San Juan County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☐ or Condensate XX	Address *(Give address to which approved copy of this form is to be sent)*
Inland Corp.	P.O.Box 325 Farmington, NM
Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas XX	Address *(Give address to which approved copy of this form is to be sent)*
Southern Union Gathering Co.	1st Int'l Bldg. Dallas, Texas

If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
	O	18	30N	13W	NO	

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

IV. COMPLETION DATA

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

Date Spudded	Date Compl. Ready to Prod.	Total Depth	P.B.T.D.
5-14-81	6-16-81	6430	6365
Elevations *(DF, RKB, RT, GR, etc.)*	**Name of Producing Formation**	**Top Oil/Gas Pay**	**Tubing Depth**
5740 5740 GR	Dakota	6154	6150
Perforations			**Depth Casing Shoe**
6154-60, 6170-76, 6218-34, 6248-88			6418

TUBING, CASING, AND CEMENTING RECORD

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
	2 3/8	6150 + sub & 3 3/4 bit	
12 ½	8 5/8	304	250
7 7/8	4 ½	6418	200
	DV Tool at 4510 - Malfunction		

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.)*	Choke Size
Length of Test	**Tubing Pressure**	**Casing Pressure**	**Choke Size**
Actual Prod. During Test	**Oil-Bbls.**	**Water-Bbls.**	**Gas-MCF**

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JUL 13 1981
OIL CON. COM.
DIST. 3

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
8,167	3 hrs.	- -	67
Testing Method *(pitot, back pr.)*	**Tubing Pressure (Shut-in)**	**Casing Pressure (Shut-in)**	**Choke Size**
Back pr.	1812	1812	3/4"

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.

SEE ATTACHMENT "A"

William C. Russell
(Signature)

Operator
(Title)

6-30-81
(Date)

OIL CONSERVATION COMMISSION

APPROVED JUN 31 1981

BY Original Signed by CHARLES GHOLSON

TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3

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.

"A"

STATEMENT

RUSSELL #62-E LUNT

Operator, William C. Russell, placed 200 sacks neat cement through casing shoe at 6418' and ran a 4½" Halliburton "DV" tool at 4510' (below Mesa Verde) having 1,000 sacks Halliburton light cement, 12½# gilsonite, on location when DV tool failed to open. Under Halliburtons instructions, Operator ran 2 3/8" tubing to push tool open, which was done and well circulated freely to surface until tubing was "picked-up" at which time tool closed, permanently. After testing to 4,000# it was decided to drill tool; log, perforate and frac. This was done, casing having been tested to 4,000# once tool was drilled. Frac job was two staged and Operator ran bit to drill plug and clean out. Well came in. After clean-up, unable to kill well with water.

Operator consulted with Mr. Ed Schmidt (USGS) and Mr. Charles Golson (Oil Commission); both agreed that, rather than risk formation damage with mud and loss circulation material, it would be best to produce well continuously for six months in order to reduce pressure before attempting to pull tubing, set plug, perforate and circulate cement to surface. Due to corrosive down hole conditions, in this area, and resulting casing failure, Operator is anxious to circulate cement from 4500' to surface as soon as possible; that is, if in Operators opinion, pressure is sufficiently reduced during a lesser period than six months, then Operator will proceed to circulate cement to surface, at such earlier date.

W. C. Russell

William C. Russell, Operator

6-30-81

OPEN FLOW TEST DATA

Date: June 24, 1981

Operator: William C. Russell Lease: Lunt

Location: SW/4 SE/4 Sec 18 T 30N R 13W County: San Juan State: NM

Formation: Dakota Pool: Basin Dakota

Casing: 4½ " Set @ 6418 ' Tubing: 2 3/8 " Set @ 6035

Pay Zone: 6154 ' To: 6288 ' Total Depth: 6430

Choke Size: 3/4 T & C " Choke Constant = C = 12.365

Stimulation Method: SWF Flow Through: Casing _____ Tubing X

Shut-in Pressure Casing: 1800 psig + 12 = 1812 psia (Shut-in 8 days)

Shut-in Pressure Tubing: 1800 psig + 12 = 1812 psia

Flowing Pressure: P : 309 psig + 12 = 321 psia

Working Pressure: P_w : 1080 psig + 12 = 1092 psia

Temperature: T : 68 °F + 460 = 528 °Absolute

F_{pv} (from tables) : 1.026 Gravity .670 n 75

Choke Volume = Q = $C \times P_t \times F_t \times F_g \times F_{pv}$

$Q = 12.365 \times 321 \times .9924 \times .9463 \times 1.026$ = 3824 MCF/D

Open Flow - Aof = Q $\left(\frac{P_c^2 \quad 1812}{P_c^2 - P_w^2 \quad 1092} \right)^n$

Aof = $\left(\frac{3283344}{1192464} \right)^n$ = 2.7534 = 2.1355

Aof = 8167 MCF/D

Tested By: Ralph P. Davis

Witnessed By: W. C. Russell