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U.S.G.S.	
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  
Rock Island Oil & Refining Co., Inc.  
Address  
321 West Douglas, Wichita, Kansas  
Reason(s) for filing (Check proper box)  
New Well ☐ Change in Transporter of:  
Incompletion ☒ same zone Oil ☐ Dry Gas ☐  
Change in Ownership ☐ 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 Lambe	Well No. 3	Pool Name, Including Formation Blanco MV	Kind of Lease Federal State, Federal or Fee
Location Unit Letter B ; 850 Feet From The North Line and 1650' Feet From The East Line of Section 21 , Township 31 North Range 10 West , NMPM, San Juan 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 type="checkbox"/>	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	Sec. Twp. Rge. Is gas actually connected? When

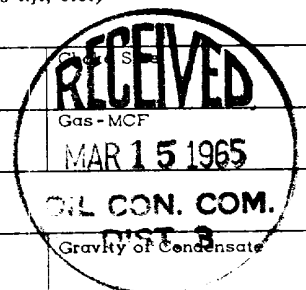
If this production is commingled with that from any other lease or pool, give commingling order number:

V. 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			X	
Date Spudded 2/15/65	Date Compl. Ready to Prod. 2/24/65	WO	Total Depth 5300' K.B.	P.B.T.D. 5291'				
Pool Blanco	Name of Producing Formation Mesa Verde		Top Oil/Gas Pay 4508' K.B.	Tubing Depth 5271'				
Perforations See attached.				Depth Casing Shoe 5300' K.B.				
TUBING, CASING, AND CEMENTING RECORD								
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET			SACKS CEMENT			
13 3/4"	10 3/4"	183'			420			
8 3/4"	7"	4538'			400			
6 1/4"	4 1/2"	5300'			450			
	1 1/4" Nom	5271'						

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	
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	



GAS WELL Actual Prod. Test - MCF/D (5.5)	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
5.5 M2CFPD			
Testing Method (pitot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size
Pitot Tube	Open flow		

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.

J. D. Able  
(Signature)

Petroleum Engineer  
(Title)

3/11/65  
(Date)

OIL CONSERVATION COMMISSION  
APPROVED MAR 15 1965 , 19  
BY Original Signed Emory C. Arnold  
Supervisor Dist. # 3  
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.

# ROCK 'ISLAND OIL & REFINING CO., INC.

## PRODUCTION DEPARTMENT WORKOVER RECORD

Page 1 of 2

District: NM Date: March 3, 1965

Lease: Lambe Well No.: 3 Field Blanco MV

Sec. 21 Twp. 31-N Rge. 10-W; County San Juan State New Mexico

Operation Commenced: February 15, 1965 Operation Completed: February 24, 1965

Nature of Operation: Recompletion deviating and drilling new hole. Set 4½" 10.5#  
csg. @ 5300' K.B. Perforating and fracture treating perfs. Ran 1¼"  
siphon string of tubing.

Producing formation and interval before this operation; Mesa Verde open hole interval 4537' K.B.  
to 5400' K.B.

Producing Zone (s) after Operation :		P.B.T.D. After recompletion <sup>329.3</sup> <del>329.3</del> Ft. (mark out P.B. if not applicable)		
Formation	Interval	Natural Test	Treatment	Final Test
Cliff House	4654-72 (1/ft)	TSTM	Interval 4659'- 4948' trtd w/50,000 gal fr wtr + 50,000# SD	Open flow gauge 5.5 M <sup>2</sup> CFPD plus heavy spray frac water
	4682-86 (4/ft)			
	4716-20 (4/ft)			
	4730-34 (4/ft)			
Menefee	4940-48 (2/ft)	60 MCFPD	Interval 4985'- 5271' trtd	
	4985-89 (2/ft)			
Pt. Lookout	5156-73 (1/ft)	104 MCFPD	w/50,000 gal fr wtr + 50,000# Sd.	
	5221-29 (2/ft)			
	5240-49 (4/ft)			
	5267-71 (4/ft)			

Details of operation; all plugs, perforations, cementing, treatments, tests, logs, etc., in chronological order.

- 2-15-65 MI & RU. Reames Workover Rig. Set tbg. choke @ 4700' K.B. Working 2 7/8" EUE tbg. Max. 105 pts. pull tbg worked free. Pulled tbg. RU PGAC. Ran csg gauge to 4500' K.B. Set 7" Baker BC cmt retainer @ 4490' K.B. Ran 2 7/8" tbg w/stinger. Set stinger in retainer. Squeezed open hole interval 4537' K.B. - 5400' K.B. Used 350 sx Class "C" cmt w/2% gel, 12½#/sx Gilsonite. Tailed in w/100 sx Class "C" cmt w/15% 20-40 sand and 2% CaCl. Squeezed to 2000 psi standing pressure. Pressured 7" csg to 1000 psi and pressure test held steady throughout cmtg operations.
- 2-16-65 Pulled tbg. RU PGAC. Perf 7" csg w/4holes @ 2299' K.B. to 2300' K.B. Broke circulation down 7" thru perf and up outside 7" to surf. Ran 2 7/8" w/Baker full-bore pkr. Set pkr at 2212' K.B. Pressured 7" by 2 7/8" annulus to 1000 psi for 4 hrs. Circ thru 2 7/8, out perfs & to surf, good circ. Cmted 7" to surf w/350 sx Class "B" cmt w/6% gel plus 12½#/sx Gilsonite. Tailed in w/75 sx reg Class "C" cmt w/3% HA-5. Displaced & circ cmt w/1200 psi. Squeezed when tail in cmt hit perfs to 2000 psi, rev tbg clean, unseated pkr. Pulled tbg. Pressured csg to 1000 psi. WOC.
- 2-17-65 Laid down tbg, picked up DP, drld 195' cmt from 2105' to 2300' K.B. Pressured csg to 1000 psi OK. RU gas blow down hole, drlg. cmt. Dressed cmt plug to 4553' K.B. Totco 1° @ 4553' K.B. Ran deviation tools and started deviating hole.
- 2-18-65 Slope tests: 3° @ 4560'; 4° @ 4565'; 4° @ 4589½; drlg ahead w/6¼" bit.
- 2-19-65 Drlg @ 4850'.

- 2-20-65 Drlg @ 5000' K.B. Gauged 60 MCFPD @ 5000'; 104 MCFPD @ 5150'. RTTD 5300' K.B. Logged hole 4537' K.B. to 5300' K.B. w/Schlumberger Formation Density Log. Ran 4½" OD 10.5# J csg w/centralizers on top of 1st, 3rd & 5th Jnts. Used reg guide shoe and differential fill-up collar, also w/Baker J-1 two stage tool @ 4010½ and annulus cup pkr and centralizer @ 4398'. Cmdt w/two stages. 1st Stage cmdt dry, using 150 sx Class "C" w/2% Gel, 12½#/sx Gilsonite and 1% Halad-9 spearheaded w/30 Bbl wtr. Circ good throughout 1st Stage operation. Opened stage tool and cmdt 4" to surf w/2nd Stage, using 300 sx Pozzolan "S" w/8% Gel. 2nd Stage plug down 11:00 PM 2-20-65. WOC.
- 2-21-65 WOC. Weld plate around 4½" X 7" annulus @ 3:00 PM. Drill 80' cmt plus two stage tool. WOC to 11:00 PM then, drill float collar and 20' cmt in shoe jnt. Pressure test 4½" csg to 3500 psi, held OK. Cmt PBTD. 5295' K.B. Spot 250 gal MCA and trip tbq out of hole.
- 2-22-65 Ran csg gauge to TD. RU PGAC. Ran GR correlation log. Perf'd as follows: 4983-89 w/2 holes/ft; 5156-73 w/1 hole/ft.; 5221-29 w/2 hole/ft; 5240-44 w/4 hole/ft; 5267-71 w/4 holes/ft. Fracture trtd perfs w/50,000 gal fr wtr plus 30,000# 20-40 sd & 20,000#. Breakdown pressure 1500 psi trtd @ 2500 psi w/42.8 BPM rate, ISDP -0- psi. Set Baker Mg. bridge plug @ 4965' K.B. Pressure test plug, did not hold. Set another BP @ 4960' K.B. Pressured 4½" csg to 3500 psi, held OK. RU PGAC. Perf'd as follows: 4654-72 w/1 hole/ft; 4682-86 w/4 hole/ft; 4716-20 w/4 holes/ft; 4730-34 w/4 holes/ft; 4940-48 w/2 holes/ft. Fracture trtd perfs w/45,120 gal fr wtr plus 30,000# 20-40 sd & 20,000# 10-20 sd. Breakdown pressure 2800 psi to 1300 psi. Dropped 20 ball sealers ahead of 250 gal MCA. When balls hit, treating pressure climbed to 2400 psi and remained throughout job. Avg rate 48.2 BPM. ISDP 700 psi; 5 min SDP -0- psi.
- 2-23-65 Drld bridge plugs and cleaned out to PBTD @ 5295' K.B. Unloaded hole. Ran 1¼" tbq & set @ 5271' K.B. Open flow gauged 5.5 MMCFPD w/heavy spray frac water. Released rig. Tearing down.
- 2-24-65 Flowed all night through 1¼" tbq, gauged 2.8 MMCFPD. Rig tore down and moved into Reames Yard.

*Tom Able*