



# CONTINENTAL OIL COMPANY

P. O. Box 1621  
Durango, Colorado 81301  
December 22, 1965

FEB 23 AM 7 55

New Mexico Oil Conservation Commission (2)  
P. O. Box 697  
Aztec, New Mexico

Attention of Mr. Emery C. Arnold - District Supervisor

Gentlemen:

Continental Oil Company has recently drilled and completed its Jicarilla Apache 30 Well No. 4 in Unit F, Section 31, T25N, R4W, Rio Arriba County, New Mexico. The well was completed in the Undesignated Gallup oil zone and Undesignated Chacra gas zone as a gas over oil dual. A flowline from the well to a central battery is presently being installed to transport the Gallup oil production. The preliminary 3/4" choke test on the Chacra gas zone was 300 MCFD at 38 psig. The zone has not yet completely cleaned up from frac water, but it appears that it will be a very small gas producer against a sales line pressure of 250 psig. The nearest connection point to El Paso Natural Gas Company's pipeline system would be approximately 5000' and it would be uneconomical to install 5000' of line to serve such a low productivity well. For this reason, and because the Chacra gas is non-prorated, we request permission to install an orifice meter at the well to measure gas produced from the Chacra zone, and then connect into the Gallup oil zone flowline to the battery. The total gas from both the Gallup and Chacra zones will then be measured and sold through El Paso Natural Gas Company's sales meter at the Gallup central battery under our present casinghead gas contract. Allocation of gas to the Gallup can then be done by subtracting the Chacra gas measurement from El Paso's total gas sales meter. A schematic sketch of the proposed system is attached. If any additional information is required, please advise.

Very truly yours,

*H. D. Haley*  
H. D. Haley

District Manager  
Durango District  
Production Department

GAB/ae

Attachment



Jicarilla 30  
Well No. 4

Orifice Meter

Chacra Gas

Check Valve

Check  
Valve

3-Phase Heated  
Separator

Total Gallup & Chacra Gas to Sales

Gallup Oil to Tanks

EPNG  
Sales Meter





MAIN OFFICE 000

# CONTINENTAL OIL COMPANY

MAR 3 AM 10 32

P. O. Box 1621  
Durango, Colorado  
March 2, 1966

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

Attn: Mr. D. S. Nutter - Chief Engineer

Dear Sir:

This letter is to provide additional data to supplement our letter dated December 22, 1965, requesting permission to produce and sell gas from the Undesignated Chacra zone in Jicarilla 30 Well No. 4 by combining it with the Gallup oil and gas production in the flowline after metering. The above letter was addressed to the Commission office in Aztec, New Mexico to the attention of Mr. E. C. Arnold.

The Chacra gas zone has been cleaned up by periodically venting to the atmosphere to remove frac water. A one-hour 3/4" choke test was taken 2-11-66 indicating a potential of 1014 MCFD at 70 psig. On 2-18-66 the Chacra was tested again to obtain a more stabilized flow rate. The zone stabilized at 415 MCFD against 70 psig through a 1/2" orifice. The shut-in pressure of the Chacra was 870 psig. Utilizing a value of .75 for "N", the indicated deliverability would be approximately 170 MCFD.

The Gallup zone in Jicarilla 30 No. 4 had an initial potential of 82 BOPD. The Gallup zone is presently flowing against a line pressure of 265 psig and has produced a cumulative of 655 BO and 3001 MCF of gas to 2-1-66. The latest test on the Gallup zone showed 39 BOPD and 197 MCF (GOR-5051).

A copy of our request of December 22, 1965, to combine the Chacra gas with the Gallup production for sales, was submitted to the United States Geological Survey on February 22, 1966, requesting their approval.

NMOCC  
Page Two

A copy of approval by the United States Geological Survey will  
be forwarded when received.

Very truly yours,

A handwritten signature in cursive script, appearing to read "G. A. Brown".

G. A. Brown  
Production Engineer  
Durango District  
Production Department

GAB/sf

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

MAIN OFFICE 900  
MAR 3 AM 10 32

NO. OF COPIES RECEIVED	
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U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL
	GAS
OPERATOR	
PRORATION OFFICE	

I.

Operator <b>Continental Oil Company</b>		<b>ILLEGIBLE</b>
Address <b>P. O. Box 1621, Durango, Colorado</b>		
Reason(s) for filing (Check proper box) New Well <input checked="" type="checkbox"/> Change in Transporter of: Recompletion <input type="checkbox"/> Oil <input type="checkbox"/> Dry Gas <input type="checkbox"/> Change in Ownership <input type="checkbox"/> Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>		

If change of ownership give name  
and address of previous owner \_\_\_\_\_

II. DESCRIPTION OF WELL AND LEASE

Lease Name <b>Jicarilla 30</b>	Well No. <b>4</b>	Pool Name, Including Formation <b>Undesignated Chacra</b>	Kind of Lease State, Federal or Fee <b>Federal</b>
Location Unit Letter <b>F</b> ; <b>1750</b> Feet From The <b>N</b> Line and <b>1750</b> Feet From The <b>N</b> Line of Section <b>31</b> , Township <b>23N</b> Range <b>4E</b> , NMPM, <b>Rio Arriba</b> 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)					
<b>El Paso Natural Gas Company</b>	<b>P. O. Box 990, Farmington, New Mexico</b>					
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rge.	Is gas actually connected?	When
					<b>No</b>	

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.
			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Date Spudded <b>10/10/63</b>	Date Compl. Ready to Prod. <b>12-6-63</b>	Total Depth <b>7600'</b>		P.B.T.D. <b>7205'</b>					
Pool <b>Undesignated</b>	Name of Producing Formation <b>Chacra</b>	Top Oil/Gas Pay <b>3030'</b>		Tubing Depth <b>5000' (Packer)</b>					
Perforations				Depth Casing Shoe <b>7600'</b>					
TUBING, CASING, AND CEMENTING RECORD									
HOLE SIZE <b>12 1/4"</b> <b>7 7/8"</b>	CASING & TUBING SIZE <b>8 3/8"</b> <b>5 1/2"</b> <b>2 3/8"</b>		DEPTH SET <b>302'</b> <b>7375'</b> <b>3000'</b>		SACKS CEMENT <b>300 sacks</b> <b>430 sacks - stage</b> <b>total 0 5510' -</b> <b>530 sacks</b>				

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 <b>1014</b>	Length of Test <b>24 Hours</b>	Bbls. Condensate/MMCF <b>None</b>	Gravity of Condensate
Testing Method (pitot, back pr.) <b>Back Pressure</b>	Tubing Pressure <b>Packer Set (Dual)</b>	Casing Pressure <b>70 psig</b>	Choke Size <b>3/8"</b>

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.

**Assistant District Manager**

**3/2/64**

(Date)

**MECC(5) JMS**

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 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.



# CONTINENTAL OIL COMPANY

P. O. Box 1621  
Durango, Colorado  
March 14, 1966

MAIN OFFICE 500  
MAR 15 AM 10 02

New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, New Mexico

Attn: Mr. D. S. Nutter, Chief Engineer

Gentlemen:

Attached are two copies of United States Geological Survey's approval to produce and sell gas from the Undesignated Chacra zone in dual well Jicarilla 30 No. 4, Unit F, Section 31, T25N, R4W, Rio Arriba County, New Mexico, by combining it with the Undesignated Gallup oil and gas production in a common flowline after metering the Chacra gas at the wellhead.

Application for the above method was submitted to the Commission on December 22, 1965.

Very truly yours,

G. A. Brown  
Production Engineer  
Durango District  
Production Department

GAB/cb  
Att.

cc: New Mexico Oil Conservation Commission  
P. O. Box 697  
Aztec, New Mexico



IN REPLY REFER TO:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY  
Drawer 1857 MAR 15 AM  
Roswell, New Mexico 88201

RECEIVED	
DURANGO PROD.	
MAR 11 1966	
OFFICE REC.	<input checked="" type="checkbox"/>
ASST. DIR.	<input checked="" type="checkbox"/>
DIST. ENG.	<input checked="" type="checkbox"/>
GAB	<input checked="" type="checkbox"/>
MJM	<input checked="" type="checkbox"/>

Continental Oil Company  
P. O. Box 1621  
Durango, Colorado

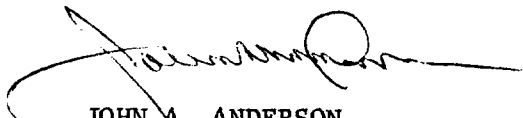
Attention: Mr. H. D. Haley

Gentlemen:

Your letter of Feb. 21, 1966 requests permission to measure Chacra gas produced from a recently completed Gallup oil-Chacra gas dual completion in the SE $\frac{1}{4}$ NW $\frac{1}{4}$  sec. 31, T. 25 N., R. 4 W. on Jicarilla tribal lease contract No. 41 and then sell the Chacra gas through the present Gallup casinghead gas sales system.

The method you propose for allocating gas production by measuring Chacra gas produced at the wellhead and subtracting from total sales to determine Gallup casing gas production is satisfactory to this office. Form 9-361, Lessee's Monthly Report of Sales and Royalty, must show all computations used in the calculations of gas volumes from each formation.

Sincerely yours,

  
JOHN A. ANDERSON

Regional Oil & Gas Supervisor