

OCC

MAIN OFFICE OCC

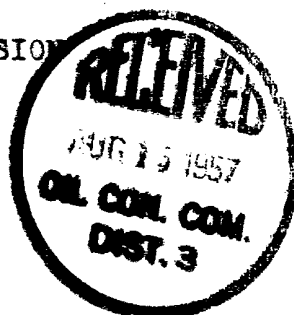
A2400

AUG 12 AM 8:45

NW 203

to be issued 9/11/57

BEFORE THE  
OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO  
SANTA FE

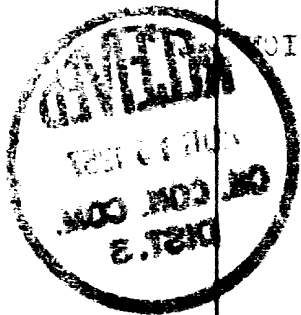


APPLICATION

Comes now J. Felix Hickman and makes application to the Commission for an exception to the provisions of Rule 6 (a) of the pool rules for the South Blanco Pictured Cliffs gas pool as contained in Order No. R-565, <sup>Rule 6(B)-L</sup> as amended, by administrative action as provided by Order No. ~~R-611~~ for a non-standard proration unit consisting of Lots 3 and 4 and the South half ( $S\frac{1}{2}$ ) of the Northwest Quarter ( $NW\frac{1}{4}$ ) of Section Five (5), Township 24 North, Range 3 West, N.M.P.M., containing 174.21 acres, more or less, according to the official governmental survey, to be dedicated to his Clark No. 3 well, and in support thereof would= show:

1. That the proposed non-standard proration unit consists of more than 160 acres, the unorthodox size and shape of the tract being due to a variation of the legal subdivision of the United States Public Land Surveys.
2. The proposed non-standard proration unit consists of contiguous quarter quarter sections and lots.
3. The proposed non-standard proration unit lies wholly within a single governmental section.
4. The entire non-standard proration unit may reasonably be presumed to be productive of gas.
5. (a) All interests in the section are under common ownership and applicant has been duly designated as operator

RECEIVED  
JAN 11 1951  
U.S. DEPT. OF AGRICULTURE  
BUREAU OF LAND MANAGEMENT



RECEIVED

U.S. DEPARTMENT OF AGRICULTURE

STATE OF NEW MEXICO

SANTA FE

APPLICATION

Comes now J. Felix Hickman and makes application to the Commission for an exception to the provisions of Rule 6 (a) of the pool rules for the South Blanco Platted Hills gas pool as contained in Order No. R-255, as amended, by administrative action as provided by Order No. R-255 for a non-standard proportion consisting of lots 3 and 4 and the South half (2 1/2) of the Northwest Quarter (NW 1/4) of Section Five (5), Township 28 North, Range 3 West, N.M.P.M., containing 14.21 acres, more or less, according to the official governmental survey, to be dedicated to his Clark No. 3 well, and in support thereof would show:

1. That the proposed non-standard proportion unit consists of more than 160 acres, the non-standard size and shape of the tract being due to a variation of the local subdivision of the United States Public Land Surveys.
2. The proposed non-standard proportion unit consists of contiguous quarter quarter sections and lots.
3. The proposed non-standard proportion unit lies wholly within a single governmental section.
4. The entire non-standard proportion unit may reasonably be presumed to be productive of gas.
5. (a) All interests in the section are under common ownership and applicant has been duly designated as operator

of all lands within said section.

(b) Notice of this application with requests for waivers has been forwarded by registered mail to the following off-set operators:

Skelly Oil Company  
Box 1650  
Tulsa, Oklahoma

Sun Oil Company  
P. O. Box 679  
Durango, Colorado

Attached hereto and made a part hereof is a plat showing the proposed non-standard proration unit, together with the location of the Clerk No. 3 well.

WHEREFORE, applicant prays that the Commission issue its order by administrative action approving said non-standard proration unit.

Respectfully submitted,

J. Felix Hickman  
Applicant

KELLAHIN AND FOX  
Attorneys at Law  
P. O. Box 1713  
Santa Fe, New Mexico

By: \_\_\_\_\_

of all lands within said section.

(b) Notice of this application with requests for  
answers has been forwarded by registered mail to the following  
off-set operators:

Sum Oil Company P. O. Box 679 Durango, Colorado	Shelly Oil Company Box 1630 Tulsa, Oklahoma
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Attached hereto and made a part hereof is a plat showing  
the proposed non-standard protection well, together with the  
location of the Clark No. 3 well.  
WHEREFORE, applicant prays that the Commission issue its  
order by administrative action approving said non-standard pro-  
tection well.

Respectfully submitted,  
J. Felix Hoffman  
Applicant

KRELLMAN and FOX  
Attorneys at Law  
P. O. Box 1713  
Santa Fe, New Mexico

NEW MEXICO  
OIL CONSERVATION COMMISSION

Form C-128

Well Location and/or Gas Proration Plat

Operator J. Felix Hickman

Lease Clark

Date \_\_\_\_\_

Well No. 3 Section 5 Township 24 North Range 3 West NMPM

Located 1730 Feet From North Line, 1550 Feet From West Line,

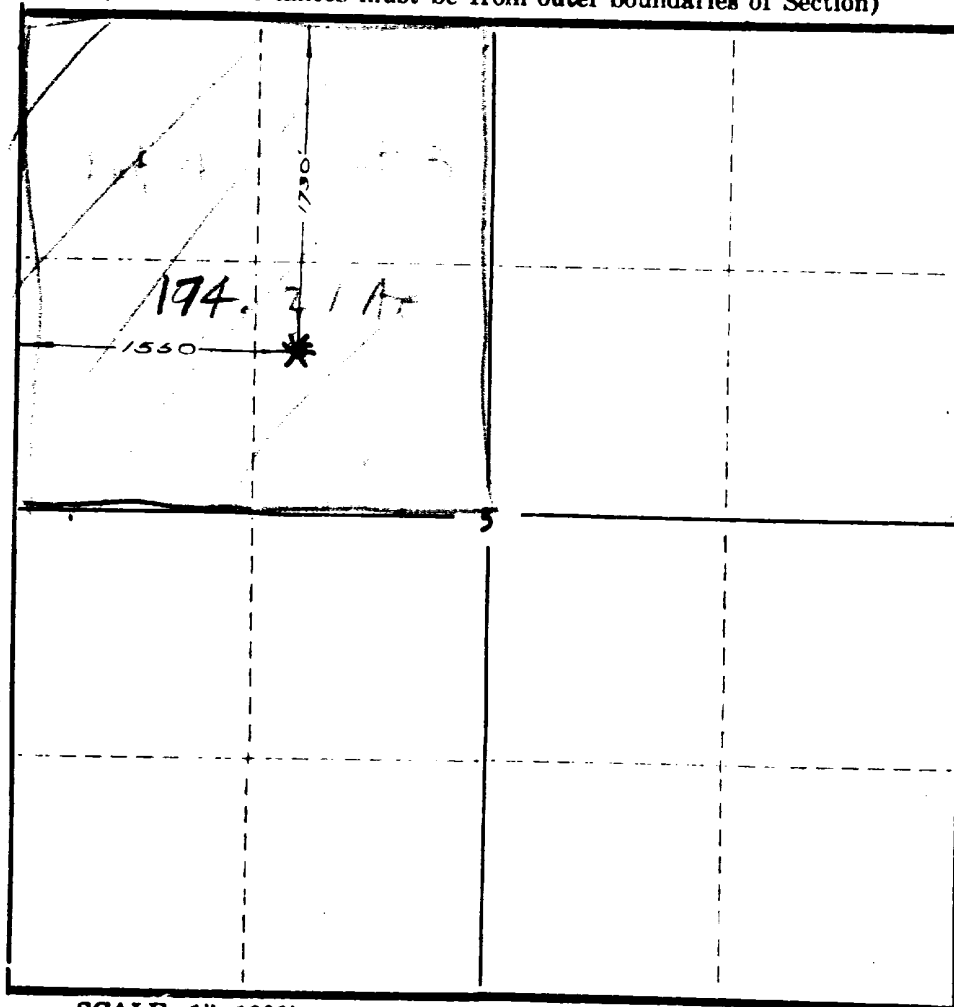
Rio Arriba

County, New Mexico.

G. L. Elevation 7030

Name of Producing Formation \_\_\_\_\_ Pool \_\_\_\_\_ Dedicated Acreage \_\_\_\_\_

(Note: All distances must be from outer boundaries of Section)



NOTE

This section of  
form is to be  
used for gas  
wells only.

SCALE: 1" = 1000'

1. Is this Well a Dual Comp. ? Yes No
2. If the answer to Question 1 is yes, are there any other  
dually completed wells within the dedicated acreage?  
Yes No

This is to certify that the above plat was prepared  
from field notes of actual surveys made by me or  
under my supervision and that the same are true and  
correct to the best of my knowledge and belief.

Date Surveyed April 6, 1956

Ernest V. Echolaw  
Reg. Land Surveyor, N. Mex., Reg. No. 1545



NEW MEXICO OIL CONSERVATION COMMISSION  
1000 Rio Brazos Road  
Aztec, New Mexico  
September 27, 1965

J. Felix Hickman  
327 Washington SE  
Albuquerque, New Mexico

Dear Sir:

New Mexico Oil Conservation Commission Memo 2-65, which became effective July 1, 1965, sets out certain requirements in regard to naming of leases and numbering of wells in New Mexico.

We find that the wells listed below do not conform with these requirements and must be changed. For minor changes, such as rearranging words or letters in well names or deleting section numbers from well numbers, we will not require refiling of Form C-104 but will use this list for file correction. If refiling Form C-104 is required, the list so indicates opposite the well in question. In the event an operator prefers to file Form C-104 to effect the required change, he may do so.

Response of either agreement or objection is requested within ten days of this notice. If response is not received within ten days, the indicated changes will be made in commission records. Oil and gas transporters will be notified to also make the indicated changes in their records. The changes should then be incorporated into records used by the operator in filing Commission Form C-115 (monthly production report).

All future reports by the operator and transporter should use the exact names of operators, transporters and leases.

Current records:  
BALLARD PICTURED CLIFFS POOL:

Change to:

Malco #1  
M.Clark #3

G-16-26-8  
F-5-24-3

Malco State Com #1      C-104 Required  
Clark #3

cc: Southern Union Gas Co.  
Bloomfield, N.M.

El Paso Natural Gas Co.  
Farmington, N.M.

OCC, Santa Fe, N.M.

USGS, Farmington, N.M.

APPROVED N.M. Oil Conservation Commission  
(No Response) Effective 11/1/65





## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool WILDCAT Formation PICTURED CLIFFS County RIO ARriba  
Initial XX Annual \_\_\_\_\_ Special \_\_\_\_\_ Date of Test 7-31-56  
Company J. F. HICKMAN Lease CLARK Well No. 3  
Unit SW Sec. 5 Twp. 24N Rge. 3W Purchaser Not connected  
Casing 5-1/2 Wt. 14# I.D. 5" Set at 3368 Perf. 3286 To 3332  
Tubing 2-3/8 Wt. \_\_\_\_\_ I.D. 2" Set at 3276 Perf. \_\_\_\_\_ To \_\_\_\_\_  
Gas Pay: From 3286 To 3332 L \_\_\_\_\_ xG est. 700 -GL \_\_\_\_\_ Bar.Press. 12.0  
Producing Thru: Casing \_\_\_\_\_ Tubing XX Type Well single  
Single-Bradenhead-G. G. or G.O. Dual  
Date of Completion: 4/30/56 Packer \_\_\_\_\_ Reservoir Temp. \_\_\_\_\_

## OBSERVED DATA

Tested Through (Prover) (Choke) (Master) Type Taps \_\_\_\_\_

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h <sub>w</sub>	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						<u>1010</u>		<u>1010</u>		<u>Shut in.</u>
1.										
2.		<u>2 x 3/4</u>	<u>367</u>		<u>72</u>	<u>367</u>	<u>72</u>	<u>640</u>		<u>3 Hr. flow</u>
3.										
4.										
5.										

## FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F <sub>t</sub>	Gravity Factor F <sub>g</sub>	Compress. Factor F <sub>pv</sub>	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.							
3.	<u>14.1605</u>		<u>379</u>	<u>.9887</u>	<u>.9258</u>	<u>1.044</u>	<u>5129</u>
4.							
5.							

## PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio \_\_\_\_\_ cf/bbl.  
Gravity of Liquid Hydrocarbons \_\_\_\_\_ deg.  
F<sub>c</sub> \_\_\_\_\_ (1-e<sup>-s</sup>)

Specific Gravity Separator Gas \_\_\_\_\_  
Specific Gravity Flowing Fluid \_\_\_\_\_  
P<sub>c</sub> 1022 P<sub>c</sub><sup>2</sup> 1044.5

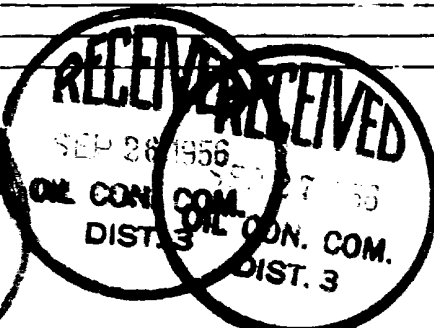
No.	P <sub>w</sub> P <sub>t</sub> (psia)	P <sub>t</sub> <sup>2</sup>	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F <sub>c</sub> Q) <sup>2</sup> (1-e <sup>-s</sup> )	<sup>652</sup> P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>	Cal. P <sub>w</sub>	P <sub>w</sub> P <sub>c</sub>
1.									
2.									
3.						<u>425.1</u>	<u>619.4</u>		<u>1.69</u>
4.									
5.									

Absolute Potential: 8911 MCFPD; n .89 = 1.562COMPANY Pacific Northwest Pipeline CorporationADDRESS 4054 N. BroadwayAGENT and TITLE W. B. RICHARDSON III, WELL TEST ENGINEER

WITNESSED \_\_\_\_\_

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  $P_t$ .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
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DISTRIBUTION		
	NO. FURNISHED	DATE
Operator	<u>1</u>	
Santa Fe		
Production Office		
State Land Office	<u>1</u>	
U. S. G. S.		
Transporter	<u>1</u>	
File		