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NWU-205

to be issued 9/17/17

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, as amended, by administrative action as provided by Order No. R-614 for a non-standard proration unit consisting of Lots 1 and 2 and the South half ($S\frac{1}{2}$) of the Northeast Quarter ($NE\frac{1}{4}$) of Section Five (5), Township 24 North, Range 3 West, N.M.P.M., containing 173.11 acres, more or less, according to the official governmental survey, to be dedicated to his Clark No. 6 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

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NO. 147, 1994.

dedicated to his grave No. 6 toll, and in support thereof would
or less, according to the official governmental survey, to be
24 North, Range 3 West, T.M.P.M., containing 113.11 acres, more
of the Northwest Quarter (NW 1/4) of Section Five (5), Township
section will consist of lots 1 and 2 and the South half (SH)
section as provided by Order No. A-611 for a non-standard pro-
contained in Order No. A-565, as amended, by administrative
the pool rates for the South Branch District with gas pool as
Commission for an exception to the provisions of Rule 6 (a) of
James H. L. Felix Higgins and sales application to the

WORK

1. That the proposed non-standard protection unit consists of more than 100 acres, the unorthodox size and shape of the tract being due to a variation of the legal subdivision of the United States Public Land Survey.

to estimate the following distribution of the population of the United States in 1950.

1. The proposed non-standard protection will not wholly

1. The entire non-standard production unit may reasonably be presumed to be productive of loss.

2. (a) All interests in the section are under common ownership and application has been duly designated as a corporation as indicated in the section and under common

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
P. O. Box 1650
Tulsa, Oklahoma

Magnolia Petroleum Company
P. O. Box 900
Dallas, Texas

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 Clark No. 6 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

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

By: _____

of all lands within this section.

(7) Notice of this application with requests for

viewers has been forwarded by registered mail to the following

offices:

Shelly Oil Company
P. O. Box 1890
Tulsa, Oklahoma

Shelly Oil Company
P. O. Box 1890
Tulsa, Oklahoma

Shelly Oil Company
P. O. Box 1890
Tulsa, Oklahoma

Attached hereto and made a part hereof is a plat showing

the proposed non-standard provision well, together with the

location of the Clark No. 6 well.

WHEREFORE, applicant prays that the Commission issue its

order by administrative action approving said non-standard pro-

vision well.

Respectfully submitted,

W. H. H. H. H. H.
Applicant

WILLIAM H. H. H.
Attorney at Law
P. O. Box 1111
Santa Fe, New Mexico

W:

NEW MEXICO
OIL CONSERVATION COMMISSION

Form C-128

NEW MEXICO
OIL CONSERVATION COMMISSION

Form C-128

Well Location and/or Gas Proration Plat

Date 5-23-1957
N.M. 03011

Operator J. Felix Hickman

Lease CLARK

Well No. 6 Section 5 Township 24 North Range 3 West NMPM

Located 1820 Feet From North Line, 1800 Feet From East Line,

Rio Arriba

County, New Mexico, G. L. Elevation 7200

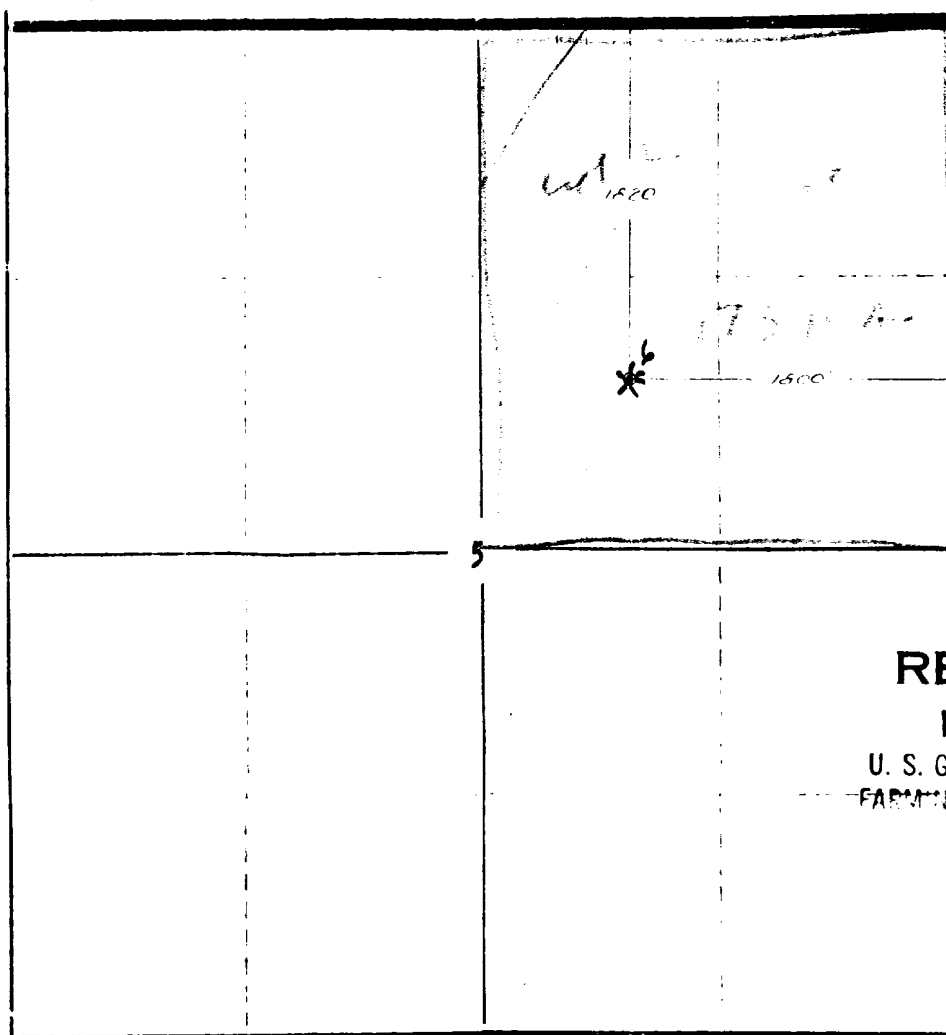
Name of Producing Formation

PICTURED CLIFFS Pool

Dedicated Acreage

3.20

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



NOTE

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

RECEIVED

MAY 24 1957

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

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?

J. E. Jackson
Agent

J. Felix HICKMAN
55 Avenida La Rosalana N.E.

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

Date Surveyed May 16, 1957

Ernest V. Echohawk

Land Surveyor, N. Mex., Reg.

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Picture cliff County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 5-26-57
Company J. Felix Hickman Lease Clark Well No. 6
Unit J Sec. 5 Twp. 24N Rge. 3W Purchaser Pacific Northwest
Casing 5 Wt. 15.5 I.D. 5" Set at 3570 Perf. 3465 To 3492
Tubing 2 3/8 Wt. 4.7 I.D. 2" Set at 3570 Perf. 3496 To 3516
Gas Pay: From 3458 To 3516 L _____ xG _____ -GL _____ Bar. Press. _____
Producing Thru: Casing X Tubing _____ Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: June 1, 1957 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (3/4") Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						960		960		8 days
1.		3/4"	256			256		525		3 hours
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	14.1605		256				5.625
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Specific Gravity of Liquid Hydrocarbons _____ deg.
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 960 P_c 921.6

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _w ² - P _t ²	P _w /P _c
1.						275.6	645	
2.								
3.								
4.								
5.								

Absolute Potential: 5.173 MCFPD; n _____
COMPANY Well Production Co.
ADDRESS 1041 Zuni Drive Farmington, New Mexico
AGENT and TITLE N.A. Neely Owner
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 c of well, then P_w must be calculated by adding the pressure to friction within the flow string to P_t .

OIL CONSERVATION COMMISSION		
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