

RESIDENCE PHONE
SHERWOOD 4-8173

OFFICE PHONE
PORTER 3-7329

J. R. CONE

ROOM 1706 - GREAT PLAINS LIFE BLDG.

LUBBOCK, TEXAS

March 17, 1960

Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. A. L. Porter, Jr.
Secretary & Director

Dear Mr. Porter:

J. R. Cone is the operator of two dry gas wells located
in the Jalmat Gas Pool, to wit:

J. R. Cone Mobil-Myers No. 1
Unit I, Section 22, T-24-S, R-36-E

Thompson & Cone Pan American-Myers No. 1
Unit H, Section 22, T-24-S, R-36-E

During June, 1959, the afore-mentioned wells were reclassified from marginal to non-marginal status, effective July 1, 1958. As a result of the reclassification, these two wells were found to be more than six times overproduced on July 1, 1959, and subsequently were shut in under the provisions of Orders Nos. R- 520 and R-967.

Both of these wells have severe liquid problems. We believe that the extended shut-in time which evidently will be required to bring these wells into balance may lead to permanent damage from water loading.

Accordingly, we respectfully request that a Hearing be called so that J. R. Cone may apply for permission to produce the subject wells at a monthly rate equal to fifty percent of the wells' current monthly allowables or at a monthly rate equal to fifty percent of the wells' average monthly allowables for the preceding six-month proration period, whichever is greater.

Yours very truly,

J. R. CONE

By

L. O. Storm
L. O. Storm, Agent

cc: Conservation Commission,
Hobbs

*Set for hearing
on 2nd. Ex.
hearing in
April -*

NEW MEXICO OIL CONSERVATION COMMISSION
One-point Back Pressure Test for Gas Wells
(Deliverability)

Form C-122-C
4-1-54

Pool Jalmat Formation Yates County Lea
Initial Annual X Special Date of test March 13-20, 1960
Company Thompson & Cone Lease Pan American-Myers Well No. 1
Unit H Sec. 22 Twp. 24-S Rge. 36-E Purchaser El Paso Natural Gas Company
Casing 5-1/2 Wt. 14 I.D. 5.012 Set at 3472 Perf. 3120 To 3360
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 3358 Perf. 3354 To 3357
Gas Pay: From 3120 To 3360 L 3354 x G 0.659 = GL Bar.Press. 13.2
Producing Thru: Casing Tubing X Type Well Single
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
<u>3/16/60</u>	<u>AM</u>	<u>3/17/60</u>	<u>AM</u>	<u>24/00</u>	<u>Flange</u>	<u>4.000</u>	<u>1.500</u>	<u>*</u>	<u>*</u>	<u>*</u>
	<u>2:00 PM</u>		<u>2:00 PM</u>							

FLOW CALCULATIONS

Static Pressure P_f	Differ- ential h_w	Meter Extension $\sqrt{P_f h_w}$	24-Hour Coeff- icient	Gravity Factor F_g	Temp. Factor F_t	Compress- ability F_{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
* Due to water, well produced by intermittent with free piston. Flow volume integrated by El Paso. Flow time: 6 flows per day, approximately 28.5 minutes per flow.							<u>200.0</u> *

SHUT-IN DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P_c) psia		W.H. Working Pressure (P_w) and (P_t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
<u>3/17/60</u>	<u>AM</u>	<u>3/18/60</u>	<u>AM</u>	<u>24/00</u>		<u>626.2</u>		
		<u>3/19/60</u>		<u>48/00</u>		<u>633.2</u>		
	<u>2:00 PM</u>	<u>3/20/60</u>	<u>2:00 PM</u>	<u>72/00</u>		<u>637.2</u>		<u>538.2</u>

FRICTION CALCULATIONS(if necessary)

P_w measured

SUMMARY

P_c = 637.2 psia
 Q = 200.0 MCF/Da.
 P_w = 538.2 psia
 P_d = 509.8 psia
 D = 229.0 MCF/Da.

DELIVERABILITY CALCULATIONS

P_w 538.2 P_c 637.2 $P_w + P_c$ 0.8445
 $1 - \frac{P_w}{P_c}$ 0.1555 $1 + \frac{P_w}{P_c}$ 1.844 $\left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M$ 0.2867
 $.36 + M$ 1.256 \log 0.09899 $x (n)$ 0.587

= 0.05811 +

COMPANY Thompson & Cone
ADDRESS 1706 Great Plains Life Building, Lubbock, Texas
AGENT and TITLE L. O. Storm, Professional Engineer
WITNESSED
COMPANY El Paso Natural Gas Company

$\log Q$ = 2.30103

$\log D$ = 2.35914

Antilog = 228.6 = D

REMARKS

NEW MEXICO OIL CONSERVATION COMMISSION
One-point Back Pressure Test for Gas Wells
(Deliverability)

Form C-122-C
4-1-54

Pool Jalmat Formation Yates County Lea
Initial Annual X Special Date of test March 11-18, 1960
Company J. R. Cone Lease Mobil-Myers Well No. 4
Unit I Sec. 22 Twp. 24-S Rge. 36-E Purchaser El Paso Natural Gas Company
Casing 5-1/2 Wt. 15.5 I.D. 4.950 Set at 3400 Perf. 3154 To 3312
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 3307 Perf. 3301 To 3307
Gas Pay: From 3154 To 3312 L 3301 x G 0.687 = GL Bar.Press. 13.2
Producing Thru: Casing Tubing X Type Well Single
Single- Bradenhead-G.G. or G.O. Dual

FLOW DATA

Started		Taken		Duration Hours	Type Taps	Line Size	Orifice Size	Static Press.	Differ- ential	Flow Temp.
Date	time	Date	time							
3/14/60	AM	3/15/60	AM	24/00	Flange	4.000	1.500	*	*	*
	1:00 PM		1:00 PM							

FLOW CALCULATIONS

Static Pressure P _f	Differ- ential h _w	Meter Extension $\sqrt{P_f h_w}$	24-Hour Coeff- icient	Gravity Factor F _g	Temp. Factor F _t	Compress- ability F _{pv}	Rate of Flow MCF/Da. @ 15.025 psia Q
* Due to water, well produced by intermitting with free piston. Flow volume integrated by El Paso. Flow time: 4 flows per day, approximately 27.5 minutes per flow.							127.0 *

SHUT-IN DATA

Shut-in		Press. Taken		Duration Hours	Wellhead Pressure (P _c) psia		W.H. Working Pressure (P _w) and (P _t) psia	
Date	Time	Date	Time		Tubing	Casing	Tubing	Casing
3/15/60	AM	3/16/60	AM	24/00		562.2		318.2
		3/17/60		48/00		564.2		
	1:00 PM	3/18/60	1:00 PM	72/00		584.2		

FRICTION CALCULATIONS(if necessary)

P_w measured.

SUMMARY

P_c = 584.2 psia

Q = 127.0 MCF/Da.

P_w = 318.2 psia

P_d = 467.4 psia

D = 67.00 MCF/Da.

DELIVERABILITY CALCULATIONS

P_w 318.2 P_c 584.2 P_w + P_c 0.5447

$1 - \frac{P_w}{P_c} = 0.4553$ $1 + \frac{P_w}{P_c} = 1.545$ $\left(1 - \frac{P_w}{P_c}\right) \left(1 + \frac{P_w}{P_c}\right) = M$ 0.7034

$.36 + M = 0.5118$ $\log 9.70910-10$ x (n) 0.961

= 9.72045-10 +

COMPANY J. R. Cone
ADDRESS 1706 Great Plains Life Building, Lubbock, Texas

Log Q = 2.10380

AGENT and TITLE L. O. Storm, Professional Engineer

Log D = 1.82425

WITNESSED

COMPANY El Paso Natural Gas Company

Antilog = 66.72 = D

REMARKS

OIL CONSERVATION AND PRODUCTION

CASE NO. 1846 - 200

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RESULTS

1930

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OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

May 9, 1960

Mr. Charlie White
Bishop Building
P. O. Box 787
Santa Fe, New Mexico

Dear Mr. White:

On behalf of your client, J. R. Cone, we enclose
two copies of Order R-1661 in Case 1946 issued by
the Oil Conservation Commission this date.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

1r/

Enclosures: (2)

RESIDENCE PHONE
SHERWOOD 4-8173

OFFICE PHONE
PORTER 3-7329

J. R. CONE

ROOM 1706 - GREAT PLAINS LIFE BLDG.

LUBBOCK, TEXAS

May 16, 1960

MAY 19 PM 1:31

Oil Conservation Commission
State of New Mexico
P. O. Box 871
Santa Fe, New Mexico

Attention: Mr. E. A. Utz

Dear Mr. Utz:

Further to our conversation at the April 27 Examiner Hearing, this is to confirm that the high pressure gas volumes reported on our C-115's for the month of March, 1960 on J. R. Cone Mobil-Myers No. 4 and Thompson & Cone Pan American-Myers No. 1, Jalmat Gas Pool are the same as the volumes reported to us by the purchaser, El Paso Natural Gas Company. Specifically, these volumes were: Mobil-Myers No. 4 - 1831 MCF; Pan American-Myers No. 1 - 2993 MCF.

Your records showed 1831 MCF from Pan American-Myers No. 1. Thus it would appear that a simple inter-change of figures has occurred. Furthermore, being personally familiar with the producing patterns of both the aforementioned wells during March, I consider it very unlikely that the Mobil-Myers No. 4 produced more gas than did the Pan American-Myers No. 1.

Please advise if you have any further question relative this matter.

Yours very truly,

J. R. CONE

By

L. O. Storm
L. O. Storm, Agent