Form C-103
(Revised 3-55)

HOBBS OFFICE OCC
DEC 23 PM 3:05

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS
(Submit to appropriate District Office as per Commission Rule 1106)

COMPANY R. Olsen Oil Company Box 691 Jal, New Mexico
(Address)

LEASE Conner WELL NO. 2 UNIT C S 14 T 24 R 36

DATE WORK PERFORMED 12-16-57 POOL Jalmat

This is a Report of: (Check appropriate block)

- [ ] Beginning Drilling Operations
- [ ] Plugging
- [ ] Results of Test of Casing Shut-off
- [ ] Remedial Work
- [X] Other

Detailed account of work done, nature and quantity of materials used and results obtained.

Acidized well out from 3078' to 3120' and treated with 10,000 lbs. sand and 20,000 gal. oil.

FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

Original Well Data:

DF Elev. _____ TD 3185 PBD _____ Prod. Int. 3023 Compl Date 9-17-48

Tbng. Dia 2" Tbng Depth 2986 Oil String Dia 7" Oil String Depth 2982

Perf Interval (s) _____

Open Hole Interval 203' Producing Formation (s) Yates

RESULTS OF WORKOVER:	BEFORE	AFTER
Date of Test		12-22-57
Oil Production, bbls. per day		
Gas Production, Mcf per day	234	84
Water Production, bbls. per day		
Gas-Oil Ratio, cu. ft. per bbl.		
Gas Well Potential, Mcf per day		284

Witnessed by _____ R. Olsen Oil Company (Company)

OIL CONSERVATION COMMISSION

Name _____
Title _____
Date _____

I hereby certify that the information given above is true and complete to the best of my knowledge.

Name Courtham Wilson
Position Production Foreman
Company R. Olsen Oil Company

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool **Jalmat** Formation **Yates** County **Lea**

Initial ____ Annual ____ Special **X** Date of Test **6-24 to 6-28-57**

Company **R. Olsen Oil Company** Lease **Cooper B** Well No. **2**

Unit **C** Sec. **14** Twp. **24** Rge. **36** Purchaser **El Paso Natural Gas Company**

Casing **7"** Wt. **24.0** I.D. ____ Set at **2982** Perf. ____ To ____

Tubing **2"** Wt. **4.7** I.D. ____ Set at **1600** Perf. ____ To ____

Gas Pay: From **3023** To **3185** L ____ xG **0.650** -GL ____ Bar.Press. **13.2**

Producing Thru: Casing ____ Tubing **X** Type Well **Single**
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: **9-17-48** Packer **None** Reservoir Temp. ____

OBSERVED DATA

Tested Through ~~(Prover) (Choke)~~ (Meter) Type Taps ____

No.	Flow Data (Prover) (Line) Size	Flow Data (Choke) (Orifice) Size	Flow Data Press. psig	Flow Data Diff. h_w	Flow Data Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						371		371		72
1.	4	1.250	185	4.00	88	186		216		24
2.	4	1.250	138	5.76	87	139		177		24
3.	4	1.250	88	9.30	88	90		135		24
4.	4	1.250	45	16.81	87	47		107		24
5.										

FLOW CALCULATIONS

No.	Coefficient Fig (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.	9.643	28.14		.9741	.9608	1.016	258
2.	9.643	29.49		.9750	.9608	1.011	269
3.	9.643	30.65		.9741	.9608	"	277
4.	9.643	31.23		.9750	.9608	"	282
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio ____ cf/bbl.
Gravity of Liquid Hydrocarbons ____ deg.
F_c ____ $(1-e^{-s})$ ____

Specific Gravity Separator Gas ____
Specific Gravity Flowing Fluid ____
P_c **384.2** P_c^2 **147.6**

No.	~~P_w~~ P_t (psia)	P_t^2	F_cQ	$(F_cQ)^2$	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	199.2	39.7				52.5	95.1		
2.	152.2	23.2				36.2	111.4		
3.	103.2	10.7		Measured		22.0	125.6		
4.	60.2	3.6				14.4	133.2		
5.									

Absolute Potential: 320 MCFPD; n 0.500

COMPANY **R. Olsen Oil Company**
ADDRESS **2805 Liberty Bank Building, Oklahoma City, Oklahoma**
AGENT and TITLE **Philip Randolph, Vice President**
WITNESSED ____
COMPANY ____

REMARKS

2nd test on this well. Good point alignment but slope less than 0.5. A slope of 0.5 was drawn through the flow point corresponding to the lowest rate of flow.

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} = Supercompressability 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.