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NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103
(Rev 3-55)

MISCELLANEOUS REPORTS ON WELLS

(Submit to appropriate District Office as per Commission Rule 1106)

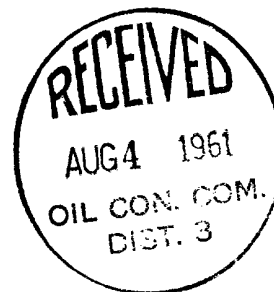
Name of Company Southwest Production Company		Address 207 Petr. Club Plaza, Farmington, N. M.			
Lease Ruby Jones	Well No. 1	Unit Letter G	Section 7	Township 30N	Range 11W
Date Work Performed	Pool Basin Dakota		County San Juan		

THIS IS A REPORT OF: (Check appropriate block)

- ☐ Beginning Drilling Operations
 ☐ Casing Test and Cement Job
 ☐ Other (Explain):
- ☐ Plugging
 ☐ Remedial Work

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

7/18/61 Pulled 1½" tbg. WIH with Baker packer set @ 6582 with 1 joint below packer bottom of tbg. @ 6616. Acidized perfs. 6600-20 with 1500 gals 7½% MCA. BDP 2600# Gas volume increased. Pulled 2" tbg. ran 200 jts. 1½" tbg. landed @ 6625. Cleaning well, prep to SI for gauge.



Witnessed by C. W. Smith	Position Superintendent	Company Southwest Production Company
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FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY

ORIGINAL WELL DATA

D F Elev.	T D	P B T D	Producing Interval	Completion Date
Tubing Diameter	Tubing Depth	Oil String Diameter	Oil String Depth	
Perforated Interval(s)				
Open Hole Interval		Producing Formation(s)		

RESULTS OF WORKOVER

Test	Date of Test	Oil Production BPD	Gas Production MCFPD	Water Production BPD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD
Before Workover						
After Workover						

OIL CONSERVATION COMMISSION

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

Approved by Original Signed Emery C. Arnold	Name Original signed by Carl W. Smith
Title Supervisor Dist. # 3	Position Superintendent
Date AUG 4 1961	Company Southwest Production Company

STATE OF NEW MEXICO		
OIL CONSERVATION COMMISSION		
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3-000
1-WP Carr
1-EPNG Bill Parrish
1-D
1-F

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Dakota Formation Dakota County San Juan

Initial X Annual _____ Special _____ Date of Test 8/8/61

Company Southwest Production Company Lease Ruby Jones Well No. 1

Unit G Sec. 7 Twp. 30N Rge. 11W Purchaser El Paso Natural Gas Company

Casing 4 1/2" Wt. 10.50 I.D. 4.040 Set at 6774 Perf. 6526 To 6620

Tubing 1 1/2" Wt. 2.7 I.D. 1.610 Set at 6525 Perf. _____ To 6525

Gas Pay: From 6526 To 6620 L 6525 xG .67 -GL 4371.7 Bar.Press. 12.0

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

Date of Completion: 7/18/61 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Pressure) (Choke) (XXXX) 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						2020		2021		7-Day
1.		3/4"	186	24		194	74	826		3-Hr.
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.	12.3650		198	.9868	.9463	1.020	2,332
2.							
3.							
4.							
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 2033 P_c² 4133.0
P_w 838 P_w² 702.2

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 _c ² -P _w ²	Cal. P _w	P _w /P _c
1.						4133.0	3430.8		.414
2.									
3.									
4.									
5.									

Absolute Potential: 2,612 MCFPD; n .75

COMPANY Southwest Production Company

ADDRESS 207 Petr. Club Plaza, Farmington, New Mexico

AGENT and TITLE George L. Hoffman, Production Foreman

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} = 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 .