

3-NMCCG/
3-File
3-EPNG
1-Reese

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Astec-Fruitland Formation Fruitland County San Juan
Initial X Annual _____ Special _____ Date of Test 12-29-57
Company McKay-Payne-Zachry Lease Sanchez Well No. 1
Unit _____ Sec. 19 Twp. 29N Rge. 10W Purchaser El Paso Natural
Casing 1 1/2 Wt. 9.5 I.D. 4.090 Set at 1620 Perf. 1514 To 1542
Tubing 1 1/2 Wt. 2.34 I.D. 1.380 Set at 1431 Perf. Open end To _____
Gas Pay: From 1514 To 1542 L 1431 xG .570 -GL 816 Bar.Press. 12.0
Producing Thru: Casing _____ Tubing X Type Well _____
Date of Completion: 12-8-57 Packer _____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (P ~~XXXX~~) (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						588		277		
1.										
2.		3/4"	77					275	48°	3 hr
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.							
2.	12.3690		89	1.0117	1.0260	1.000	1142
3.							
4.							
5.							

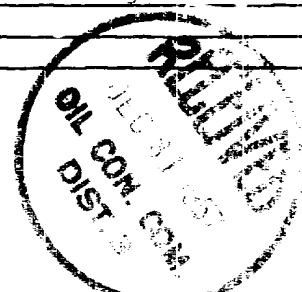
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
T_c 24.62 (1-e^{-s}) .067
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 600 P_c² 360,000

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.									
2.	89	7.92	28.2	794	53.2	61.1	299		1.202
3.									
4.									
5.									

Absolute Potential: 1335 MCFPD; n .85 1.169
COMPANY McKay-Payne-Zachry
ADDRESS 800 Loma Linda, Albuquerque, New Mexico
AGENT and TITLE T. A. Dugan - Consulting Engineer Original signed by T. A. Dugan
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 .

OIL CONSERVATION COMMISSION		
WELL LOG		
WELL NO. 1		
DATE	1	
TIME	1	
WELL NO.	1	
WELL TYPE	1	
WELL STATUS	1	
WELL LOCATION	1	
WELL DEPTH	1	
WELL DIAMETER	1	
WELL Casing	1	
WELL Tubing	1	
WELL Completion	1	
WELL Production	1	
WELL Pressure	1	
WELL Temperature	1	
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~~1-McKay~~
1-McKay
1-Reese
1-File

Form C-103 ✓
(Revised 3-55)

NEW MEXICO OIL CONSERVATION COMMISSION
MISCELLANEOUS REPORTS ON WELLS

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

COMPANY McKay-Payne-Zachry 800 Loma Linda, Albuquerque, New Mexico
(Address)



LTR



Job separation sheet

OIL CONSERVATION COMMISSION		
ATTACH DISTRICT OFFICE		
NAME	5	
ADDRESS	3	
CITY	1	
STATE		
COUNTY		
ZIP		
TELEPHONE		
DATE	1	✓
FILED		