

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

HOBBS OFFICE

Well No. 1958 29 PM 2:42 County Los
Initial Annual Special I Date of Test 6-11-56/6-25-56
Company Conroy Mid-Continent Oil Co. Lease Alaska Cooper Well No. 4
Unit 1 Sec. 12 Twp. 30S Rge. 34E Purchaser KFMO
Casing 7 Wt. 24 I.D. 6.336 Set at 3790 Perf. 3035 To 3076
Tubing 8 Wt. 4.7 I.D. 1.975 Set at 2002 Perf. To
Gas Pay 3035 To 3076 L 2002 xG .070 -GL 1297 Bar. Press. 11.2
Producing Thru: Casing Tubing I Type Well Single
Date of Completion: 5-7-56 Packer Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp.

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter)

Type Taps

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) Size	(Orifice) Size	Press. psig	Diff. h_w	Temp. $^{\circ}F$	Press. psig	Temp. $^{\circ}F$	Press. psig	Temp. $^{\circ}F$	
SI										
1.										
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient F_L (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.	<u>13.97</u>	<u>21.25</u>		<u>1.000</u>	<u>.999</u>	<u>1.000</u>	
2.	<u>13.97</u>	<u>21.13</u>		<u>1.000</u>	<u>.999</u>	<u>1.000</u>	
3.	<u>13.97</u>	<u>21.30</u>		<u>.999</u>	<u>.999</u>	<u>1.000</u>	
4.	<u>13.97</u>	<u>21.30</u>		<u>.999</u>	<u>.999</u>	<u>1.000</u>	
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
 F_c 9.936 $(1-e^{-S})$ 0.001

Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
 P_c 929.2 P_c^2 863.2

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.	<u>929.2</u>	<u>863.2</u>	<u>0.75</u>	<u>0.56</u>	<u>0.56</u>	<u>863.2</u>	<u>0.00</u>		
2.	<u>929.2</u>	<u>863.2</u>	<u>13.46</u>	<u>181.2</u>	<u>181.2</u>	<u>863.2</u>	<u>0.00</u>		
3.	<u>929.2</u>	<u>863.2</u>	<u>13.97</u>	<u>195.2</u>	<u>195.2</u>	<u>863.2</u>	<u>0.00</u>		
4.	<u>929.2</u>	<u>863.2</u>	<u>20.78</u>	<u>431.8</u>	<u>431.8</u>	<u>863.2</u>	<u>0.00</u>		
5.									

Absolute Potential: 3790 MCFPD; n 0.46COMPANY Conroy Mid-Continent Oil Co.ADDRESS 201 N. 1st St., Hobbs, N.M.AGENT and TITLE Robert E. Hunter, Sales Engineer

WITNESSED

COMPANY

REMARKS

Test was conducted by Mr. Smith, El Paso Natural Gas Company,
Jal., N.M., and witnessed by Mr. Hunter