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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-57

Pool Basin-Sabota Formation Dakota County San Juan
Initial X Annual _____ Special _____ Date of Test 4-13-61
Company Century Exploration Lease Madman Federal Well No. 1
Unit D Sec. 37 Twp. 23N Rge. 9W Purchaser _____
Casing 40 Wt. 11.6 I.D. 9.5 Set at 6322 Perf. 6324 To 6428
Tubing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 6324 To 6428 L _____ xG .65 -GL _____ Bar. Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single Gas
Date of Completion: 3-18-61 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.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. $^{\circ}F$	Press. psig	Temp. $^{\circ}F$	Press. psig	Temp. $^{\circ}F$	
SI						1601		1800		
1.										
2.		<u>1/4"</u>	<u>62</u>					<u>475</u>	<u>600</u>	<u>3 hrs.</u>
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.							
3.	<u>12.983</u>		<u>94</u>	<u>.9924</u>	<u>.9608</u>	<u>1.810</u>	<u>1119</u>
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 1872 P_c^2 3504.5

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.									
3.	<u>907</u>					<u>297</u>	<u>3227.3</u>		<u>1.0792</u>
4.									
5.									

Absolute Potential: 1185 MCFPD: n .75 1.0588

COMPANY Century Exploration Co., Box 100, Farmington, N. M.

ADDRESS Box 100, Farmington, N. M.

AGENT and TITLE T. A. Davis, Engineer

WITNESSED _____

COMPANY _____

REMARKS _____

