

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Ballard Formation Piet Cliffs County Rio Arriba
Initial A Annual _____ Special _____ Date of Test 12/14/64
Company Sentinel Petroleum Corp Lease Jicarilla Cont #40 Well No. 1-36
Unit _____ Sec. 36 Twp. 74N Rge. 5E Purchaser _____
Casing 4-1/2 Wt. _____ I.D. _____ Set at 2332 Perf. 2433 To 2440
Tubing _____ Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 2433 To 2440 L _____ xG .630 -GL 15.01 Bar.Press. 12
Producing Thru: Casing X Tubing _____ Type Well Single
Date of Completion: 6/30/64 Packer _____ No _____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (Packer) (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. °F.	Press. psig	Temp. °F.	
SI								
1.		.730	94					3.00
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.	17.5636		196	1.000	.630	-	1233
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 730 P_c² 531,600

No.	$\frac{P_w}{P_c}$ (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	$\frac{P_w}{P_c}$
1.	104	11,236	1.978	3.912	0.426	11,042	130,034	1,0270	1.0186
2.									
3.									
4.									
5.									

Absolute Potential 1781 MCFPD; n .83COMPANY Sentinel Petroleum CorpADDRESS 1700 Broadway, Denver, ColoradoAGENT and TITLE Wayne B. Smith, P.E.

WITNESSED

COMPANY

REMARKS



