

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 12-1-55

Pool Ballard		Formation P. C.		County Rio Arriba	
Initial X	Annual	Special	Date of Test 4/20/65		
Company Sentinel Petroleum Corp		Lease Jicarilla-Abel		Well No. 2	
Unit I	Sec. 31	Twp. 24N	Range 4W	Purchaser EPNG	
Casing 4-1/2	Wt.	I.D.	Set at	Perf.	To
Tubing 1-1/4	Wt.	I.D.	Set at	Perf.	To
Gas Pay:	From	To	L	G	GL Bar. Press. 12
Producing Through:		Casing	Tubing X	Type Well - Single - Braden head - G.G. or G.O. Dual Single	
Date of Completion		Packer		Reservoir Temp.	

OBSERVED DATA

Tested Through: Prover ☐ Choke ☐ Meter ☐								Type of Taps		
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
No.	(Prover) (Line) Size	(Choke) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.	
SI		.750	79		53			694		7 Days
1.								340		3 Hrs
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-MCF P D @ 15,025 psia
1.	12.365		91	1.0000	.9608	1.0068	1.088
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 F_c _____ (1-e^{-S}) _____ P_c **706** P_c² **498,436**

No.	P _w	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	$\frac{P_{cwl}}{P_{cw}}$	$\frac{P_{wc}}{P_{cw}}$
1.	352					123,9041	374,532	1.3308	1.2749
2.									
3.									
4.									
5.									

CAOP

ABSOLUTE POTENTIAL: **1.337** MCFPD; n **.85**

COMPANY **Sentinel Petroleum Corp** WITNESSED _____

ADDRESS **P O Box 1618, Farmington, New Mexico** COMPANY _____

AGENT AND TITLE **Wayne B. Smith**
Wayne B. Smith, P. E.

