

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

Form C-122
Revised 12-1-55

Pool Ballard		Formation PC		County Rio Arriba	
Initial X	Annual		Special	Date of Test 4/30/65	
Company Sentinel Petroleum Corp		Lease Jicarilla-Abel		Well No. 5	
Unit M	Sec. 30	Twp. 24N	Range 4W	Purchaser	
Casing 4-1/2	Wt.	I.D.	Set at	Perf.	To
Tubing 1-1/4	Wt.	I.D.	Set at	Perf.	To
From	To	L	G	GL	Bar. Press. 12
Producing Through:		Casing	Tubing X	Type Well - Single - Bruden head - G.G. or G.O. Dual Single	
Date of Installation		Packer		Reservoir Temp.	

OBSERVED DATA

Tested Through: Prover ☐ Choke ☒ Meter ☐						Type of Taps				
FLOW DATA						TUBING DATA		CASING DATA		DURATION OF FLOW HR.
Flow (GPM)	(Choke) Size	Press. psig.	Diff. in W	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.		
	.750	56		50	613	56	613	28		3 Hrs

FLOW CALCULATIONS

Flow (GPM)	$\sqrt{\frac{P_w}{P_t} F_t}$	Pressure psia	Flow Temp. Factor F_T	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15,025 psia
12,3650		68	1.0098	.9608	1.000	816

PRESSURE CALCULATIONS

Liquid Hydrocarbon Ratio _____ cf/bbl. Specific Gravity Separator Gas _____
 Gravity of Liquid Hydrocarbons _____ deg. Specific Gravity Flowing Fluid _____
 P_w _____ (1-e^{-S}) _____ P_c **625** P_c^2 **390,625**

P_w 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	$\frac{P_w}{P_c}$
294					86,436	304,189	1,2842	1,2368

ABSOLUTE POTENTIAL: **1009** MCFPD: n **.85**

COMPANY **Sentinel Petroleum Corp** WITNESSED _____

ADDRESS **1700 Broadway, Denver, Colorado** COMPANY _____

AGENT AND TITLE Wayne B. Smith

