

**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 4/13/65		
Company Sentinel Petroleum Corp			Lease Jicarilla-Abel			Well No. 1		
Unit A	Sec. 31	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		
Gas Pay:		From	To	L	G	GL 650(E)	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) (Orifice) Size	Press. psig.	Diff. h _w	Temp. °F.	Press. psig.	Temp. °F.	Press. psig.	Temp. °F.		
1.	2.00				707		707			
2.	1.750	73		50	73		245		3 Hrs	
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 PD @ 15.025 psia
1.	12.29		85	1.0098	.9608	1.0000	1005
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 719 P _c ² 515.961				

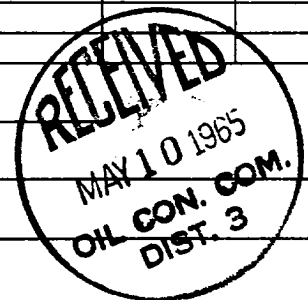
No.	$\frac{P_w}{P_c}$	P_t^2	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P_w^2	P _c ² - P _w ²	Cal P _w	$\frac{P_w}{P_c}$
1.	257					66.049	450.912	1.1465	1.1252
2.									
3.									
4.									
5.									

ABSOLUTE POTENTIAL: **1130** MCFPD; n **85**

COMPANY **Sentinel Petroleum Corporation** WITNESSED _____

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

AGENT AND TITLE *Thomas R. Bayer*
Prod. Mgr.



April 20, 1965

Company: Sentinel Petroleum Corporation
Well: Jicarilla Abel #1
Location: NE/4 Sec. 31-T24N-R4W
Rio Arriba County, New Mexico

SUBJECT: Tabulation of all deviation tests run:

DEVIATION TESTS

Feet	Degrees
450	3/4
910	3/4
1400	1
1890	1-1/4
2490	1-1/4
2639 TD	1-1/2

I hereby swear (or affirm) that the statements made are a full and correct report.

COLORADO
STATE OF NEW MEXICO
DENVER
COUNTY OF SAN JUAN

F. J. Ray
F. J. Ray, President



The foregoing instrument, was acknowledged before me this -- 28th day of April, 1965 by F. J. Ray, President of Rayco Drilling Company.

Witness my hand and official seal:

May 8, 1968
My Commission Expires

Mary Ann Harris
Notary Public

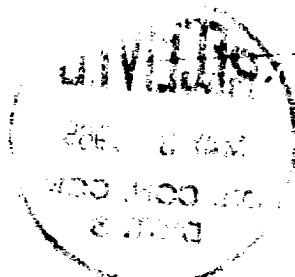
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☐ 13. gas ☐ 14. gas

ILLEGIBLE™

... we'll. Waiting for him. ...

Original Signed Emery C. Arnold

Supervisor Dist. # 3

MAY 10 1965

