

NEW MEXICO OIL CONSERVATION COMMISSION

NOV 8 7 38 AM '65

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Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Sawyer Formation San Andres County Lea
 Initial X Annual _____ Special _____ Date of Test 10-21-65
 Company Ralph S. Cooley Lease Gandy "59" Well No. 1
 Unit F Sec. 28 Twp. 9S Rge. 38E Purchaser Capitan, Inc.
 Casing 4 1/2" Wt. 11.6# I.D. 4.0" Set at 5025' Perf. 4,912' To 4,972'
 Tubing 2-3/8" Wt. 4.70# I.D. 1.995" Set at 4980' Perf. Open To _____
 Gas Pay: From 4,912' To 4,972' L _____ xG _____ -GL _____ Bar.Press. 13.2
 Producing Thru: Casing _____ Tubing X Type Well Single
 Date of Completion: September 11, '65 Packer None Reservoir Temp. _____
 Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) _____ Type Taps _____ Flange _____

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.		Press. psig
SI			1134			1134	63°	1121	
1.	2"	0.0625"	1117		67°	1117	67°	1101	
2.	3.066"	0.750 "	350	28.62	65°	897		1026	65°
3.	3.066"	0.750 "	362	46.24	63°	825		940	63°
4.	3.066"	0.750 "	368	84.64	61°	686		787	61°
5.	3.066"	0.750 "	368	73.10	62°	643		730	62°

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.	0.0827		1130.2	0.9933	0.8704	1.109	90
2.	3.449	101.96	363.2	0.9952	0.8704	1.035	315
3.	3.449	131.72	375.2	0.9971	0.8704	1.037	409
4.	3.449	179.62	381.2	0.9990	0.8704	1.037	559
5.	3.449	166.93	381.2	0.9981	0.8704	1.037	519

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 F_c P_w Measured (1-e^{-s}) _____
 Specific Gravity Separator Gas 0.792
 Specific Gravity Flowing Fluid _____
 P_c 1147.2 P_c 1316.1

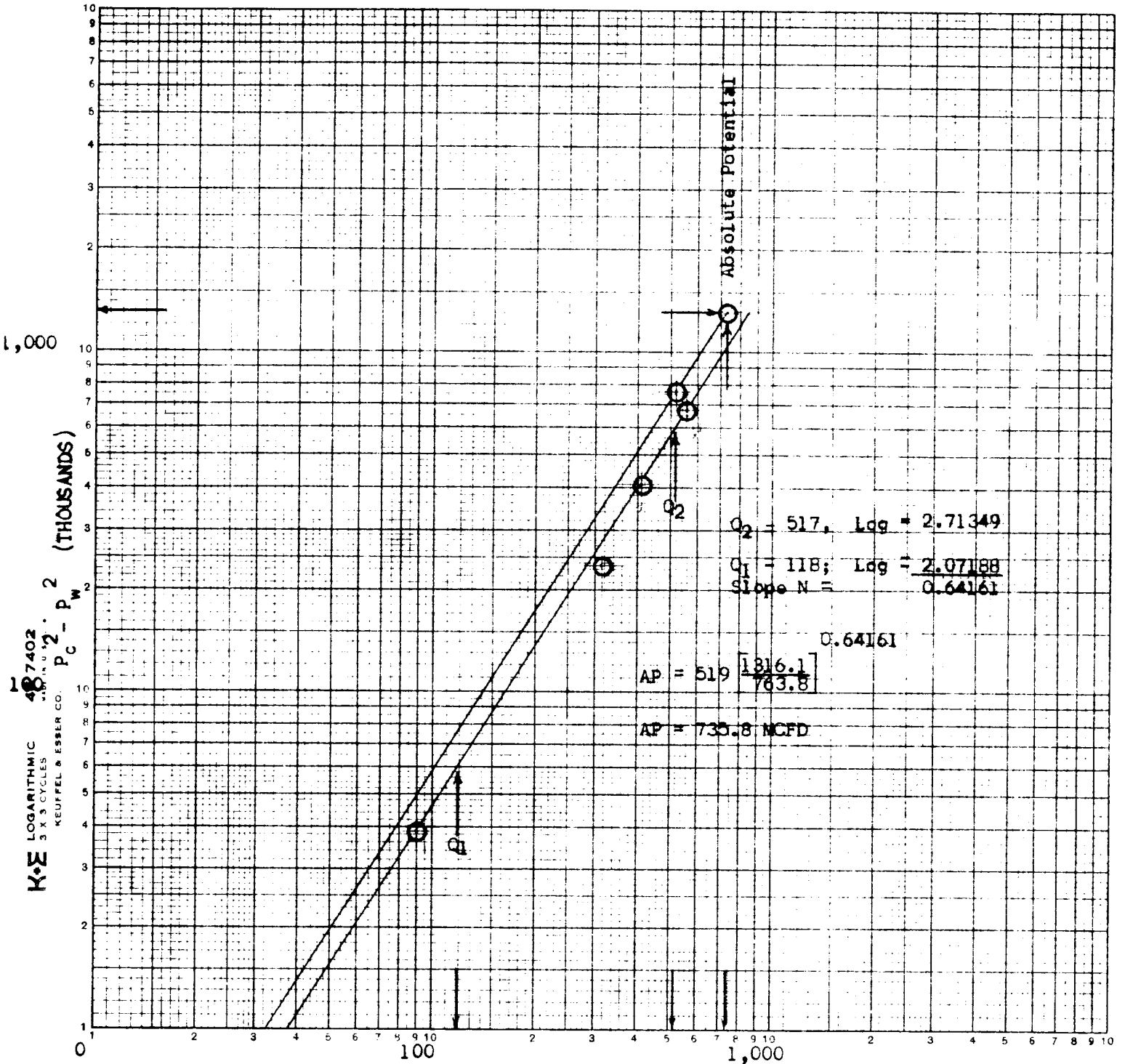
No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.	1130.2								
2.	1039.2					1277.4	38.7		98.5
3.	953.2					1079.9	236.2		90.6
4.	800.2					908.6	407.5		83.1
5.	743.2					640.3	675.8		69.9
						552.3	763.8		64.8

Absolute Potential: 735.8 MCFPD; n 0.64161
 COMPANY Denton Oil Company
 ADDRESS P. O. Box 4359
 AGENT and TITLE C. J. Jordan, Jr., Gas Engineer
 WITNESSED _____
 COMPANY _____

REMARKS

CO₂ and N composition of gas considered as being 10% each.

C NY: Ralph S. Cooley
 LSE & WELL: Gandy "59" Well No. 1
 LOCATION: E-28-9S-38E
 COUNTY: Lea
 DATE: October 21, 1965



Q-MCFD-15.025 psia

Nov 8 7 38 AM '65
DENTON OIL COMPANY
P. O. Box 4359
Lubbock, Texas

NOV 3 11 11 AM '65

GAS-OIL RATIO REPORT

COMPANY: Ralph S. Copley
LEASE & WELL: Gandy "59" Well No. 1
LOCATION: Unit E. Section 28. Twp. 9S. Rge. 38E. Sawyer Field
COUNTY: Lea
STATE: New Mexico
TEST PERIOD: 6:00 P.M. 10-21-65 to 6:00 P.M. 10-22-65

Total volume of gas produced during test period: 519.52 MCF
Total volume of liquid produced during test period: 23.33 BBLs.
BS&W content of liquid produced: 3.50 BBLs.
Net volume of crude oil produced during test period: 19.83 BBLs.
Gas-Oil Ratio: $519,520 / 19.83 = 26,199 \text{ Ft}^3/\text{BBL}$.

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