

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

SF
File
122
Revised 9-1-66

RECEIVED

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 1-14-80		JAN 23 1980	
Company: <u>Florida Exploration</u>						Connection: <u>None</u>			
Pool: <u>Ross Draw</u>						Formation: <u>Wolfcamp</u>		Unit: <u>O. C. D.</u>	
Completion Date: 1-14-80		Total Depth: 12,220		Plug back TD: 12,172		Elevation: KB 3028		Name of Lease: <u>Ross Draw Unit</u>	
Csg. Size: 4 1/2	Wt.: 15.10	Set At: 12,219	Perforations: <u>065</u> From 12,064 To 12,153		Well No.: 8				
Tbg. Size: 2 7/8	Wt.: 6.50	Set At: 11,294	Perforations: From To		Unit Sec. Twp. Range: 27 26S 30E				
Type Well - Single - Prodenhead - G.G. or G.O. Multiple: <u>Single</u>						Packer Set At: 11,294		County: <u>Eddy</u>	
Producing Thru: <u>Tubing</u>		Reservoir Temp. °F: 220 @ 11202		Mean Annual Temp. °F: 68		Baro. Press. - P _a : 13.2		State: <u>New Mexico</u>	
L: 11,294	H: 11,294	G _g : .6589	% CO ₂ : .17	% N ₂ : .23	% H ₂ S: <u>None</u>	Prover:	Meter Run: 3.826	Type: <u>Flange</u>	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
1.	3.826	2.50	350	8.1	90	7504	7461	72	Packer		60 Min.
2.	3.826	2.50	395	22.0	92	7380	7380	72	in		60 Min.
3.	3.826	2.50	450	34.0	65	7259	7259	74	Well		60 Min.
4.	3.826	2.50	450	48.0	50	7112	7112	75			60 Min.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super. Compens. Factor, F _{pv}	Rate of Flow Q, Mscf
1.	33.29	54.24	363.2	.9723	1.232	1.033	2234
2.	33.29	94.76	408.2	.9706	1.232	1.037	3912
3.	33.29	125.49	463.2	.9952	1.232	1.047	5363
4.	33.29	152.18	463.2	1.010	1.232	1.055	6651

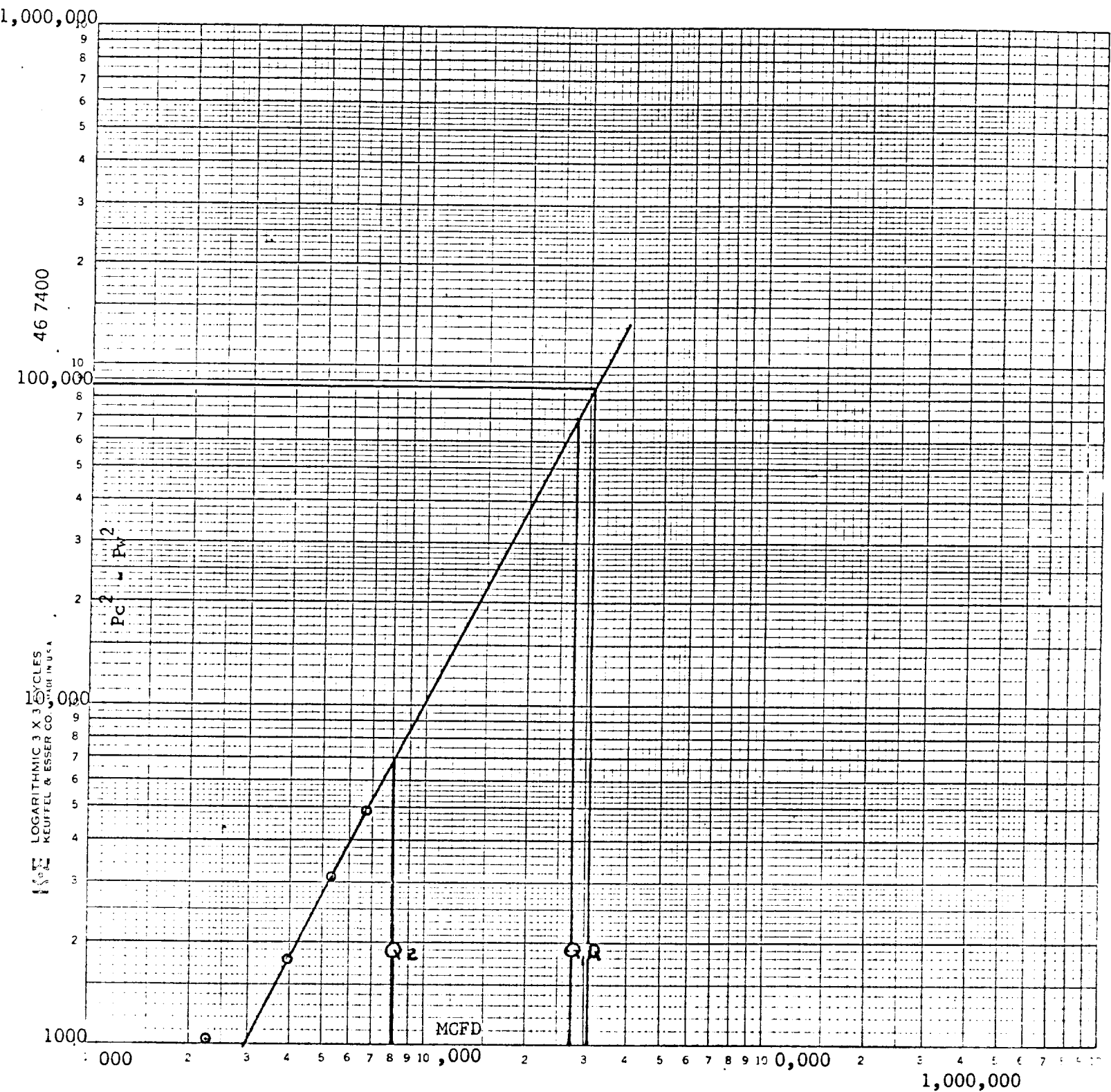
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio: <u>13,058 to 1</u> Mcl/bbl.	
1.	.54	550	1.45	.938	A.P.I. Gravity of Liquid Hydrocarbons: <u>62.6</u> Deg.	
2.	.61	552	1.46	.930	Specific Gravity Separator Gas: <u>.6589</u>	
3.	.69	525	1.39	.912	Specific Gravity Flowing Fluid: <u>X X X X X</u>	
4.	.69	510	1.35	.899	Critical Pressure: <u>670</u> P.S.I.A.	
5.					Critical Temperature: <u>378</u> °R	

NO.	P _t ²	P _w ²	P _w ² - P _t ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 17.65$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.6311$
1.	9237.2	85326	1019		
2.	9195.2	84552	1793		
3.	9124.2	83251	3094		
4.	9025.2	81454	4891		

Absolute Open Flow: <u>30,801</u> Mscf @ 15.025				Angle of Slope: <u>62°</u>	Slope, n: <u>.534</u>
Remarks: <u>Pw Substituted for Pt - Measured with Amerada Instrument No. 33118 0 - 10,500</u>					

Approved By: <u>Spruell</u>	Conducted By: <u>Spruell</u>	Calculated By: <u>Spruell</u>	Checked By: <u>Richburg</u>
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EXPLORATION
 Ross Draw No. 8
 Absolute Open Flow Test
 1-14-80



$$Q_1 = 2.7800$$

$$\text{Log } Q_1 = 4.44404$$

$$Q_2 = 8130$$

$$\text{Log } Q_2 = 3.91009$$

$$N = .53395$$

$$Q = 30,801$$

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