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C-122

EW MEXICO OIL CONSERVATION [illegible]SSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 12-1-65

RECEIVED
SEP 5 1975
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 8-13-75	
Company: William G. Ross	Connection:			Unit:
Pool: ~~Undes~~. Atoka Penn.	Formation: Morrow			
Completion Date: 8-6-75	Total Depth: 9050	Plug Back TD: 9013	Elevation: 3334 KB	Farm or Lease Name: A. Q. Rogers
Csg. Size: 4 1/2 / Wt.: 11.60 / d: 4.000 / Set At: 9047.94		Perforations: From 8840 To 8848		Well No.: Com. No. 1
Tbg. Size: 2 3/8 / Wt.: 4.70 / d: 1.995 / Set At: 8712		Perforations: From To		Unit: P / Sec.: 3 / Twp.: 18S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 8712.50		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 156 @ 8650	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico
L: 8844 / H: 8844 / Gg: 0.680	% CO_2:	% N_2:	% H_2S:	Prover: Pos. Ck. / Meter Run: / Taps:

FLOW DATA						TUBING DATA		CASING DATA		
NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	114 hrs		2707			2707		Pkr.		
1.	2"	x 8/64	2640		76	2640	76			60 min.
2.	2"	x 9/64	2608		78	2608	78			60 min.
3.	2"	x 11/64	2557		80	2557	80			60 min.
4.	2"	x 16/64	2319		78	2319	78			240 min.
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	0.2618		2653.2	0.9850	1.213	1.188	985.9
2.	0.3346		2621.2	0.9831	1.213	1.184	1238.3
3.	0.5090		2570.2	0.9813	1.213	1.186	1846.9
4.	1.1120		2332.2	0.9831	1.213	1.192	3686.4
5.							

NO.	P_t	Temp. °R	T_r	Z
1	3.97	536	1.39	0.709
2.	3.92	538	1.40	0.713
3.	3.84	540	1.40	0.711
4.	3.49	538	1.40	0.704
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas 0.680 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 669 P.S.I.A. _____ P.S.I.A.
Critical Temperature 385 R _____ R

P_f 3551.2 P_f^2 12611

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		3470.2	12042	569
2		3432.2	11780	831
3		3377.2	11405	1206
4		3134.2	9823	2788
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.5233142$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.508123$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 12932$

Absolute Open Flow 12932 Mcfd @ 15.025 Angle of Slope θ 50° 15' Slope, n .831595

Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 31203, 0-6000 psi.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, INc.	G. W. Taylor	