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C-122

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JUN 21 1974
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6-7-74	
Company: David Fasken			Connection: Unconnected		
Pool: Undesignated			Formation: Morrow		Unit: 320 acres
Completion Date: 6-5-74	Total Depth: 9675'		Plug Back TD: 9607	Elevation: 3542 GL	Farm or Lease Name: Howell "29"
Csg. Size: 4 1/2	Wt.: 11.60 / 10.50	d: 4.000 / 4.052	Set At: 9673	Perforations: From 9484 To 9504	Well No.: 1
Tbg. Size: 2 7/8	Wt.: 6.50	d: 2.441	Set At: 8820	Perforations: From To	Unit: G; Sec.: 29; Twp.: 20S; Rge.: 25E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 8820		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 182 @ 9594		Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9494	9494	0.610				Pos. CK		

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI	SI 19¼ hrs.			3157			3157		Pkr.		
1.	2"	x	8/64	3135		70	3135	70			30 min.
2.	2"	x	10/64	3124		71	3124	71			30 min.
3.	2"	x	13/64	3079		72	3079	72			30 min.
4.	2"	x	16/64	3016		74	3016	74			30 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		3148.2	0.9905	1.280	1.128	1178.7
2.	0.4173		3137.2	0.9896	1.280	1.129	1872.2
3.	0.7208		3092.2	0.9887	1.280	1.131	3190.2
4.	1.1120		3029.2	0.9868	1.280	1.134	4824.9
5.							

NO.	P_t	Temp. °R	T_r	Z
1				
2.	Used Simplified			
3.	Supercompressibility Tables			
4.				
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: 0.610 (xxxxxxxxx)
Specific Gravity Flowing Fluid: xxxxx
Critical Pressure: 671 P.S.I.A. (P.S.I.A.)
Critical Temperature: 362 R (R)

P_f 3911.2 P_f^2 15297

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		3899.2	15204	93
2		3887.2	15110	187
3		3844.2	14778	519
4		3777.2	14267	1030
5				

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

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

Absolute Open Flow: 23,000 Mcfd @ 15.025
Angle of Slope θ: 59° 44'
Slope, n: 0.584

Remarks: BHP measured with Amerada RPG-3 gauge. 9383 N 0-6050 psi.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	F. Tefteller	