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C-122

NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
NOV 5 1974
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special					Test Date: 10-11-74		
Company: David Fasken			Connection: Unconnected				
Pool: Avalon-Morrow			Formation: Morrow				
Completion Date: 10-9-74	Total Depth: 11445		Plug Back TD: 11226		Elevation:	Farm or Lease Name: El Paso Federal	
Csg. Size: 4 1/2	Wt.: 13.50	d:	Set At: 11295	Perforations: From 10983 To 10990		Well No.: 3	
Tbg. Size: 2 3/8	Wt.: 4.7	d:	Set At: 10516	Perforations: From To		Unit: H Sec.: 1 Twp.: 21S Rge.: 26E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single				Packer Set At: 10516		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 182 @ 10900		Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2		State: New Mexico	
L: 10987	H: 10987	Gg: 0.600	% 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	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI				3258			3258				
1.	2"	X	8/64"	3203		78	3203	78			30 min.
2.	2"	X	10/64"	3119		78	3119	78			30 min.
3.	2"	X	13/64"	2913		78	2913	78			60 min.
4.	2"	X	16/64"	2566		78	2566	78			60 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		3216.2	0.9831	1.291	1.117	1193.7
2.	0.4173		3132.2	0.9831	1.291	1.120	1858.0
3.	0.7208		2926.2	0.9831	1.291	1.129	3022.3
4.	1.1120		2579.2	0.9831	1.291	1.137	4138.8
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	4.79	538	1.50	0.802
2.	4.67	538	1.50	0.797
3.	4.36	538	1.50	0.785
4.	3.84	538	1.50	0.773
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 358 R ____ R

P_f 4173.2 P_f^2 17416

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		4125.2	17017	399
2		4054.2	16437	979
3		3849.2	14816	2600
4		3508.2	12307	5109
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: 7800 Mcfd @ 15.025 Angle of Slope θ: 63° 42' Slope, n: 0.4942

Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 9383

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	P. McGuire	