NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
AUG 11 1976
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 7-16-76	
Company: David Fasken		Connection: NGPL			
Pool: Cemetery		Formation: Morrow		Unit	
Completion Date: 7-14-76	Total Depth: 9900	Plug Back TD: 9733	Elevation: 3693.5 KB	Farm or Lease Name: Howell State Comm	
Csg. Size: 4 1/2 / Wt.: 11.60 / d: / Set At: 9798		Perforations: From 9422 To 9432		Well No.: 1	
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 9273		Perforations: From To		Unit: L / Sec.: 32 / Twp.: 20S / Rge.: 25E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 9272.98		County: Eddy	
Producing Thru: Tubing	Reservoir Temp. °F: 175 @ 9377	Mean Annual Temp. °F: 70	Baro. Press. – P_a: 13.2	State: New Mexico	
L: 9427	H: 9427	Gg: 0.6000	% 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			2323			2323		Pkr		
1.	2"	x 8/64"	2298		70	2298	70			45 min.
2.	2"	x 10/64"	2262		70	2262	70			45 min.
3.	2"	x 13/64"	2171		71	2171	71			60 min.
4.	2"	x 16/64"	2078		72	2078	72			45 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		2311.2	0.9905	1.291	1.149	889.0
2	0.4173		2275.2	0.9905	1.291	1.149	1395.0
3	0.7208		2184.2	0.9896	1.291	1.147	2322.0
4	1.1120		2091.2	0.9887	1.291	1.141	3386.7
5							

NO.	P_t	Temp. °R	T_t	Z
1	3.44	530	1.48	0.758
2	3.39	530	1.48	0.758
3	3.26	531	1.48	0.760
4	3.12	532	1.49	0.768
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 0.600
Critical Pressure: P.S.I.A. 671 P.S.I.A.
Critical Temperature: R 358 R

P_f 2944.2 P_f^2 8668

NO	P_t^2	P_s	P_s^2	$P_f^2 - P_s^2$
1		2906.2	8446	222
2		2867.2	8221	447
3		2785.2	7757	911
4		2698.2	7280	1338
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.2449567$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4.281606$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 14501$

Absolute Open Flow: 14,501 Mcfd @ 15.025 Angle of Slope θ: 51° 33' Slope, n: 0.793945

Remarks: BHP measured with Amerada RPG-3 gauge Serial No. 32030 0-4000 psi

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