C/SF
122
File

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
NOV 19 1980

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-23-80	
Company: David Fasken			Connection: Unconnected		
Pool: ~~Avalon~~			Formation: Morrow		Unit
Completion Date: 10-15-80	Total Depth: 11,400'		Plug Back TD: 11,327	Elevation: 3195 KB	Farm or Lease Name: El Paso Federal
Csg. Size: 4½ / Wt.: 13.50 11.60 / d: 3.920 4.000 / Set At: 11,400			Perforations: From 10858 - 10872 To 10880 - 10895		Well No.: 5
Tbg. Size: 2 7/8 / Wt.: 6.50 / d: 2.441 / Set At: 10,720			Perforations: From 10958 - 10978 To		Unit: L / Sec.: 1 / Twp.: 21S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 10720		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 184 @ 10818	Mean Annual Temp. °F: 60	Baro. Press. – P_a		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10918	10918	0.600	N/A	N/A	N/A	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	23½ hours	3492			3492		Pkr.	-	
1.	2" X 8/64"	3025		60	3025		Pkr.	-	60 mins.
2.	2" X 9/64"	2796		61	2796		Pkr.	-	60 mins.
3.	2" X 11/64"	2380		62	2380		Pkr.	-	60 mins.
4	2" X 14/64"	1820		65	1820		Pkr.	-	60 mins.
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	-	3038.2	1.0000	1.291	1.143	1173.7
2.	0.3346	-	2809.2	0.9990	1.291	1.151	1395.3
3.	0.5090	-	2393.2	0.9981	1.291	1.159	1819.2
4.	0.8419	-	1833.2	0.9952	1.291	1.143	2266.5
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	4.53	520	1.453	0.766
2.	4.19	521	1.455	0.755
3.	3.57	522	1.458	0.744
4.	2.73	525	1.466	0.765
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons None Deg.
Specific Gravity Separator Gas 0.600 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 358 R _____ R

P_f 4530.2 P_f^2 20523

NO	P_t^2	P_c^2	$P_c^2 - P_w^2$	$P_c^2 / (P_c^2 - P_w^2)$
1	9231	3971.2	15770	4753
2	7892	3658.2	13382	7141
3	5727	3133.2	9817	10706
4	3361	2423.2	5872	14651
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.400792$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.255478$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2845.542$

Absolute Open Flow 2845.542 Mcfd @ 15.025 Angle of Slope θ 55.98° Slope, n 0.675048

Remarks: BHP measured with Amerada RPG-3 Gauge, No. 47616, 0-6000 P.S.I. Range

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Tefteller, Inc.	D. A. Warren, Jr.	