N' MEXICO OIL CONSERVATION COMM ON

MULTIPOINT AND ONE POINT BACK PRESSURE TES, FOR GAS WELL

Form C-122
Revised 9-1-65

SPUD DATE: 2/25/77

Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 3-23-77	
Company: Doyle Hartman	Connection: None		
Pool: South Eunice	Formation: Seven Rivers - Queen		Unit: H
Completion Date: 3-23-77	Total Depth: 3850	Plug Back TD: 3808	Elevation: 3561 KB
Farm or Lease Name: Citgo SE State			
Csg. Size: 4½ / Wt.: 10.5 / d: / Set At: 3850	Perforations: From 3637 To 3791		Well No.: 1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: / Set At: 3455	Perforations: From open To end		Unit: H / Sec.: 17 / Twp.: 22 / Rge.: 36
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: None		County: Lea
Producing Thru: Tbg.	Reservoir Temp. °F: 91 @ 3714	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2
State: New Mexico			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
3455	3455	.718				6" Positive Choke		

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Choke x Orifice Nipple	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						179		171		
1.	6 x 1/4		177		65	177		170		30 Min.
2.	6 x 3/8		165		65	165		167		30 Min.
3.	6 x 1/2		145		65	145		164		30 Min.
4.	6 x 5/8		114		65	114		161		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 F_g	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	1.112		190.2	.9952	1.180	1.022	254
2.	2.591		178.2	.9952	1.180	1.022	554
3.	4.722		158.2	.9952	1.180	1.019	894
4.	7.522		127.2	.9952	1.180	Nil	1124
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.28	525	1.32	.957
2.	.27	525	1.32	.958
3.	.24	525	1.32	.963
4.	.19	525	1.32	Nil
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .718 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 668 P.S.I.A. _____ P.S.I.A.
Critical Temperature 398 R _____ R

P_c 192.2 P_c^2 36.941

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		183.2	33.562	3.379
2		180.2	32.472	4.469
3		177.2	31.400	5.541
4		174.2	30.346	6.595
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.601$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5.601$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 6.296$

Absolute Open Flow 6,296 Mcfd @ 15.025 | Angle of Slope θ 45° | Slope, n 1.000

Remarks: Due to flat point allignment a slope of 1.000 was drawn through the high rate of flow.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Rick Pagan	Rick Pagan	

DOYLE HARTMAN
Citgo SE State No. 1
H 17-22-36 Lea County, New Mexico
March 23, 1977