NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12-16-74	
Company: Coastline Petroleum	Connection: None				
Pool: Blanco Mesa Verde	Formation: Mesa Verde			Unit: C	
Completion Date: 12-16-74	Total Depth: 6100	Plug Back TD	Elevation: 6675 Gr	Farm or Lease Name: Schalk	
Csg. Size: 4 1/2 / Wt.: 10.5 / d: / Set At: 6100		Perforations: From 5664 To 6010		Well No.: 57-2	
Tbg. Size: 2 3/8 EUE / Wt.: / d: / Set At: 5658		Perforations: From To		Unit: C / Sec.: 12 / Twp.: 30-N / Rge.: 5-W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: None		County: Rio Arriba	
Producing Thru: Tubing	Reservoir Temp. °F: 180 @ 5837	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 12.0	State: New Mexico	

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
5837	5837	.64				X		

	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						1202		1202		
1.	2.0	7/32	1147		58	1147	58	1150	58	1 Hr
2.	2.0	1/4	1110		62	1110	62	1130	62	1 Hr
3.	2.0	5/16	1020		62	1020	62	1078	62	1 Hr
4.	2.0	7/16	820		64	820	64	960	64	1 Hr
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	.8393		1159	1.0019	1.2500	1.128	1374
2.	1.087		1122	.9981	1.2500	1.119	1703
3.	1.672		1032	.9981	1.2500	1.119	2409
4.	3.408		832	.9962	1.2500	1.085	3831
5.							

NO.	P_r	Temp. °R	T_r	Z
1	1.73	518	1.39	.786
2.	1.67	522	1.40	.798
3.	1.54	522	1.40	.798
4.	1.24	524	1.41	.849
5				

Gas Liquid Hydrocarbon Ratio: None Produced Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 670 P.S.I.A. 670 P.S.I.A.
Critical Temperature: 372 R 372 R

P_c 1214 P_c^2 1474

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1162	1350	124
2		1142	1304	170
3		1090	1188	286
4		972	945	529
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{1474}{529}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.05144$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7859$

Absolute Open Flow: 7859 Mcfd @ 15.025 | Angle of Slope θ: 54° 58' | Slope, n: .701

Remarks:

Approved By Commission:	Conducted By: J F Roberson, WEST TEXAS CONSULTING SERVICE, INC.	Calculated By: H L Hagler	Checked By: