3-NMOCC 1-Flag-Redfern 1-GNM 1-File

NEW MEXICO OIL CONSERVATION COMMISSION

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: 11-28-78	
Company: Flag-Redfern Oil Co.	Connection:		
Pool: Ballard PC	Formation: Pictured Cliffs		Unit:
Completion Date: 11-21-78	Total Depth: 2135'	Plug Back TD: 2102'	Elevation: 6568'
Farm or Lease Name: Largo Spur			
Csg. Size: 2-7/8	Wt.: 6.4	d:	Set At: 2125
Perforations: From 2064 To 2101			
Well No.: 4			
Tbg. Size: 1-1/2	Wt.: 2.75	d:	Set At: 2058'
Perforations: From Open To Ended			
Unit: I	Sec.: 18	Twp.: 24	Rge.: 6
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single Gas		Packer Set At:	
County: Rio Arriba			
Producing Thru: tbg	Reservoir Temp. °F: @	Mean Annual Temp. °F:	Baro. Press. – P_a:
State: New Mexico			

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
		.62						

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
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	
SI					230		230		7 days
1.									
2.									
3.	5/8" Pos Choke				1	50°	62		3 hrs
4.									
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							
2.							
3.	8.5417		13	1.010	.9837	1.000	110
4.							
5.							

NO.	P_r	Temp. °R	T_r	Z
1.				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.

Specific Gravity Separator Gas _____ XXXXXXXXX

Specific Gravity Flowing Fluid XXXXX _____

Critical Pressure _____ P.S.I.A. _____ P.S.I.A.

Critical Temperature _____ R _____ R

P_c 242 P_c^2 58564

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		74	5476	53088
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.1031

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.0869

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 120

Absolute Open Flow 120 Mcfd @ 15.025

Angle of Slope θ _____

Slope, n .85

Remarks: Light spray of water at end of test

Approved By Commission:	Conducted By: Hall	Calculated By: Hall	Checked By: