3-NMOCD 1-EPNG (Clark) 1-File

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 5-29-80	
Company: Dugan Production Corp.		Connection:			
Pool: Basin		Formation: Dakota		Unit:	
Completion Date: 5-15-80	Total Depth: 6090'	Plug Back TD: 6072'	Elevation: 5539' GL	Farm or Lease Name: Stella Needs A Com	
Csg. Size: 4-1/2" / Wt.: 10.5# / d: / Set At: 6097' RKB		Perforations: From 5802 To 6058		Well No.: #1E	
Tbg. Size: 1-1/2" / Wt.: 2.9# / d: / Set At: 5985' RKB		Perforations: From Open To End		Unit: D / Sec.: 36 / Twp.: 30N / Rge.: 14W	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single - Gas		Packer Set At:		County: San Juan	
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
		.65 est						

	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					1590		1530		7 days
1.									
2.									
3.	5/8" Pos Choke	109		790			640		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	8.5117		121	.9822	.9608	1.011	986
4							
5							

NO.	P_t	Temp. °R	T_t	Z
1				
2				
3				
4				
5				

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

P_c 1602 P_c^2 2566404

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		652	425,104	2141300
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1985$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{.75} = 1.1455$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1129$

Absolute Open Flow 1129 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .75

Remarks: _____