3 - NMOCD 1 - So. Un. Exploration 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: XX Initial ☐ Annual ☐ Special				Test Date: 2-23-81	
Company: Dugan Production Corp.		Connection:			
Pool: WAW Fruitland P.C.		Formation: P.C.			Unit:
Completion Date: 2-5-81	Total Depth: 1240'	Plug Back TD: 1189'	Elevation: 5967'		Farm or Lease Name: Hard Deal
Csg. Size: 2-7/8" / Wt.: 6.4# / d: / Set At: 1123'		Perforations: From 1108' To 1132'			Well No.: #4
Tbg. Size: 1-1/4" / Wt.: 2.4# / d: / Set At: 1113'		Perforations: From open end To			Unit: H / Sec.: 18 / Twp.: ~~25~~ 26N / Rge.: 12
Type Well – Single – Bradenhead – G.C. 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: NM

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

	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					140		140		7 days
1.									
2.									
3.	½" pos. choke				1	70°	2		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 Compr. Factor, Fpv	Rate of Flow Q, Mcfd
1							
2							
3	5.4315		13	.9905	.9837	1.000	69
4							
5							

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NO.	P_t	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 _____ XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 152 P_c^2 23,104

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1				
2				
3		14	196	22,908
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0085$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^{n \cdot 85} = 1.0072$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 69$

Absolute Open Flow 69 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: _____

Approved By Division	Conducted By: C. Hall	Calculated By: C. Hall	Checked By: