2 NMOCD 1 File

Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

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JUL 27 1995
OIL CONSERVATION DIV.
DIST. 3

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Dugan Production Corp.		Lease or Unit Name: Sapp	
Type Test: X Initial ☐ Annual ☐ Special		Test Date: 7-5-95	Well No.: 91
Completion Date: 5-31-95	Total Depth: 1930'	Plug Back TD: 1876'	Elevation: 6972' GL (est)
Unit Ltr. - Sec. - TWP - Rge.: K 29-24N-8W			
Csg. Size: 4½" / Wt.: 11.6 / d: / Set At: 1929'	Perforations: From: 1822 To: 1833		County: San Juan
Tbg. Size: 1¼" / Wt.: 2.4 / d: / Set At: 1794'	Perforations: From: To:		Pool: Basin Fruitland Coal
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single - gas	Packer Set At:		Formation: Fruitland Coal
Producing Thru: tubing	Reservoir Temp. °F:	Mean Annual Temp. °F:	Baro. Press - P_a:
			Connection:
L:	H:	Gg: .64	% CO_2:
% N_2:	% H_2S:	Prover:	Meter Run: Taps:

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					435		435		7 days
1.									
2.									
3.	3/4" pos. choke				1	65°	75		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.	11		13	.9952	1.25	1.000	178
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 447 P_c^2 199,809

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.				
2.				
3.		87	7569	192,240
4.				
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2}$ = 1.0393 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 1.0334

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 184

Absolute Open Flow 184 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: slugs of water

Approved By Division	Conducted By: Hall	Calculated By: Alexander	Checked By: