

State of New Mexico
Energy, Minerals and Natural Resources Department**RECEIVED**
FEB 18 1993Form C-122
Revised 4-1-91Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088OIL CON. DIV.
DIST. 3

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Dugan Production Corp.					Lease or Unit Name Salge Federal "A" Com				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 2/15/93				
Completion Date 2/14/93					Well No. 91				
Total Depth 1420'					Unit Ltr. - Sec. - TWP - Rge. A -4-25N-13W				
Plug Back TD 1379'					Elevation 6325' GL				
Csg. Size 4 1/2"					Perforations: From: 1297 To: 1337'				
Wt. 11.6#					Set At 1419'				
Tbg. Size 1 1/2"					Perforations: From: To:				
Wt. 2.9#					Set At 1305'				
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single					Packer Set At N/A				
Producing Thru tubing					Baro. Press. - P _a				
Reservoir Temp. °F					Mean Annual Temp. °F				
L H					Gg. .596				
% CO ₂					% N ₂				
% H ₂ S					Prover				
Meter Run					Taps				
FORMATION Fruitland Coal					CONNECTION				
San Juan					Pool				
Basin Fruitland Coal									

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	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
1.	SI					205		205		7 days
2.										
3.	3/4" positive				65°	5		65		3 hrs
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_u}$	Pressure P _u	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							
2.							
3.	11		17	.9952	1.295	1.000	241
4.							
5.							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1.				.9978		
2.						
3.						
4.						
5.						

A.P.L. Gravity of Liquid Hydrocarbons					Deg				
Specific Gravity Separator Gas					XXXXXXXXXX				
Specific Gravity Flowing Fluid					XXXXXX				
Critical Pressure					P.S.I.A.				
Critical Temperature					R				

P _c 217 P _u 47089					1) $\frac{P_i^2}{P_c^2 - P_u^2} = 1.144$					(2) $\left[\frac{P_i^2}{P_c^2 - P_u^2} \right]^n = 1.1212$					
NO.	P _i	P _u	P _i ²	P _u ²	P _i ² - P _u ²										
1.															
2.															
3.		77		5929	41160										
4.															
5.															

Absolute Open Flow 270 Mcfd @ 15.025					Angle of Slope θ					Slope, n 85				
Remarks:														

Approved By Division	Conducted By: M.S. Brown	Calculated By: M.S. Brown	Checked By:
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