

3 NMOCD

1 EPNG 1 McHugh
OIL CONSERVATION DIVISION

1 File

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 10-2-82	
Company Dugan Production Corp.				Connection	
Pool WAW				Formation Fruitland Pictured Cliffs	
Completion Date 9-25-82		Total Depth 1400'		Plug Back TD 1359'	
Elevation 6113' GL		Firm or Lease Name Baby Doe			
Csg. Size 2-7/8"	Wt. 6.5#	d 2.441	Set At 1384	Perforations: From 1093 To 1342	
Trg. Size 1-1/4"	Wt. 2.4#	d 1.380	Set At 1329'	Perforations: From open end To	
Type Well - Single - Bordenhead - G.C. or G.O. Multiple Single				Packer Set At	
Producing thru Tubing				Baro. Press. - P _a	
Reservoir Temp. °F #		Mean Annual Temp. °F		State New Mexico	
L	H	Gg .62	% CO ₂	% N ₂	% H ₂ S
Prover		Meter Run		Taps	

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							204		204		7 days
1.	7/16"						3	69°	167		3 hrs
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.171		15	.9915	.9837	1.00	61
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2.					Specific Gravity Separator Gas	
3.					Specific Gravity Flowing Fluid	
4.					Critical Pressure	P.S.I.A.
5.					Critical Temperature	R.

NO.	P _t	P _w	P _c	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1		179	32,041	14,615	3.19	2.68
2						
3						
4						
5						

Absolute Open Flow				Angle of Slope		Slope, n	
164 Mcfd @ 13.025				40°		.85	

Remarks: Heavy mist of water throughout test!			
---	--	--	--

Approved By Division	Conducted By: Anderson	Calculated By: Anderson	Checked By:
----------------------	---------------------------	----------------------------	-------------