

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

N. M. O. C. C. COPY

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3/30/72		APR 21 1972	
Company Dalport Oil Corporation				Connection None			
Pool Double 1 Wildcat Queen				Formation Queen		Unit ANTERIOR	
Completion Date 3/30/72		Total Depth 1792		Plug Back TD 1792		Elevation	
Farm or Lease Name Jones Federal							
Csg. Size 5 1/2	Wt. 15.5	d 4.892	Set At 1792	Perforations: From 1766 To 1773		Well No. 1	
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 1755	Perforations: From Open End To		Unit L	Sec. 22
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 1753		Twp. 15S	
Producing Thru Tubing		Reservoir Temp. °F 90 @ 1766		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 1755	H 1755	G _g .9226	% CO ₂ 0	% N ₂ 66.31	% H ₂ S .05	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							629		Choke		24 hrs.
1.	2	X	0.75	5.6		45	506	61	8/64		1 hr.
2.	2	X	0.75	22.1		48	484	61	12/64		1 hr.
3.	2	X	1.25	7.9		46	410	61	16/64		1 hr.
4.	2	X	1.25	11.5		47	322	62	21/64		1 hr.
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	175.5 *		18.8	1.015	1.041	1.000	185
2	402.6 *		35.3	1.012	1.041	1.000	424
3	654.5 *		21.1	1.014	1.041	1.000	691
4	820.8 *		24.7	1.013	1.041	1.000	866
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio Dry Gas Mcf/bbl.			
1.	0.03	505	1.79	-	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
2.	0.06	508	1.79	-	Specific Gravity Separator Gas .9226 X X X X X X X X			
3.	0.04	506	1.79	-	Specific Gravity Flowing Fluid X X X X X			
4.	0.04	507	1.79		Critical Pressure 552 P.S.I.A. _____ P.S.I.A.			
5.					Critical Temperature 284 R _____ R			

NO.	P _t ²	P _w ²	P _w ² **	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			269.6	142.8	1.375	1.375
2			247.2	165.2		
3			179.1	233.3		
4			112.4	300.0		
5						

Absolute Open Flow 1191 Mcfd @ 15.025				Angle of Slope θ _____		Slope, n 1.000	
--	--	--	--	-------------------------------	--	-----------------------	--

Remarks: * 2" Orifice well tester, 50" Hg	
** Friction negligible	

Approved By Commission:	Conducted By:	Calculated By: <i>W. H. Miller</i>	Checked By:
-------------------------	---------------	------------------------------------	-------------