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well file 6-122

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

Form C-122
Revised 9-1-65

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Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 1-28-75		FEB 24 1975	
Company DALPORT OIL CORPORATION				Connection TO AIR			
Pool Dartmouth				Formation QUEEN SAND		Unit ARTESIA, OFFICE	
Completion Date 1-28-75		Total Depth 1880'		Plug Back TD 1847		Elevation	
Form or Lease Name AMOCO FEDERAL							
Coq. Size 4 1/2"	Wt. 9.5#	d	Set At	Perforations: From 1818 To 1828		Well No. 1	
Tag. Size 2 3/8"	Wt. 4.7#	d	Set At 1823	Perforations: From OPEN To ENDED		Unit G 23 14S 29E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NO PACKER		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 79° @ 1823'		Mean Annual Temp. °F 60°		State NEW MEXICO	
L 1823	H 1823	Gg .903	% CO ₂ 0.2	% N ₂ 60.49	% H ₂ S -0-	Prover ---	Meter Run POS. CHOKES

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
S1	POSITIVE CHOKE										
1.	8/64"			667.0	-	60	667.0	60			30 MIN.
2.	10/64"			641.0	-	63	641.0	63			30 MIN.
3.	12/64"			609.0	-	64	609.0	64			30 MIN.
4.	14/64"			560.0	-	65	560.0	65			30 MIN.
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, F _{pv}	Rate of Flow Q, Mcfd
1	0.2618	-	680.2	1.0000	1.052	1.031	193.1
2	0.4173	-	654.2	0.9971	1.052	1.030	295.0
3	0.6101	-	622.2	0.9962	1.052	1.027	408.6
4	0.8419	-	573.2	0.9952	1.052	1.025	517.9
5							

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	TSTM	Mcfd/sbl.
1.	1.21	520	1.77	.941	A.P.I. Gravity of Liquid Hydrocarbons	---	Deg.
2.	1.17	523	1.78	.943	Specific Gravity Separator Gas	0.903	XXXXXXX
3.	1.11	524	1.79	.948	Specific Gravity Flowing Fluid	XXXXXX	
4.	1.02	525	1.79	.951	Critical Pressure	560 P.S.I.A.	P.S.I.A.
5.					Critical Temperature	293 °R	°R

NO.	P _f ²	P _s ²	P _s ²	P _f ² - P _s ²
1	462.7	734.2	539.0	26.8
2	428.0	724.2	524.5	41.3
3	387.1	714.2	510.1	55.7
4	328.6	701.2	491.7	74.1
5				

(1) $\frac{P_f^2}{P_f^2 - P_s^2} = 7.6356$

ACF = Q $\left[\frac{P_f^2}{P_f^2 - P_s^2} \right]^{.75} = 7.2573$

RECEIVED

FEB 18 1975

U.S. GEOLOGICAL SURVEY

ARTESIA, NEW MEXICO

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAGE @ 1823'			
GOOD POINT ALIGNMENT WITHIN LIMITS - GOOD TEST			
Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	D. TYSON	R. WEST	J.W.W.