N MEXICO OIL CONSERVATION COMM ION
MULTIPOINT ..ND ONE POINT BACK PRESSURE TE.. FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
APR 25 1977
O. C. C.
ARTESIA, OFFICE

Type Test: ☒ Initial ☐ Annual ☐ Special				Test Date: 10-29-75	
Company: Dalport Oil Corporation			Connection: To Air		
Pool: ~~Lucky Lake~~ S/E Chaves Queen Gas area associated			Formation: Queen		Unit:
Completion Date: 10-29-75	Total Depth: 10,730'		Plug Back TD: 1923'	Elevation: 3907 Gr.	Farm or Lease Name: Shell Federal
Csg. Size: 8 5/8" / Wt.: 36# / d: 7.825" / Set At: 4073'			Perforations: From 1844' To 1860'		Well No.: 1
Tbg. Size: 2 3/8" / Wt.: 4.7# / d: 1.995" / Set At: 1820'			Perforations: From To		Unit: D / Sec.: 15 / Twp.: 15S / Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: None		County: Chaves
Producing Thru: Tubing	Reservoir Temp. °F: @	Mean Annual Temp. °F: 30	Baro. Press. – P_a: 13.2		State: New Mexico
L: 1852	H: 1852	Gg: 0.9187	% CO_2: 0.095	% N_2: 64.963	% H_2S: -0-
Prover: Positive Chokes	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	Positive Chokes					560.0				72 Hrs.
1.	8/64		435.0		64	435.0	64			30 Min
2.	10/64		364.0		66	364.0	66			30 Min
3.	12/64		320.0		66	320.0	66			30 Min
4.	14/64		270.0		70	270.0	70			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, Fpv	Rate of Flow Q, Mcfd
1	0.2618		448.2	.9962	1.043	1.025	125.0
2.	0.4173		377.2	.9943	1.043	1.021	166.7
3.	0.6101		333.2	.9943	1.043	1.019	214.8
4.	0.8419		283.2	.9905	1.043	1.015	250.0
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.47	524	1.49	.951
2.	0.40	526	1.50	.959
3.	0.35	526	1.50	.964
4.	0.30	530	1.51	.970
5.				

Gas Liquid Hydrocarbon Ratio: TSTM Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: 0.9187 XXXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 944 * P.S.I.A. P.S.I.A.
Critical Temperature: 351 * R R

P_c 573.2 P_c^2 328.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	200.9	#	200.9	127.7
2	142.3	#	142.3	186.3
3	111.0	#	111.0	217.6
4	80.20	#	80.2	248.4
5		see below		

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3229$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.3229$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 331$

Absolute Open Flow: 331 Mcfd @ 15.025 Angle of Slope θ: 45.0° Slope, n: 1.00 limit

Remarks: *N_2 percentage exceeds tables, therefore critical pressure & Temperature are estimated
Good point alignment but slightly in excess of 1.000 limits
#Friction Negligible

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	G. Parker	R. West	J. West