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Form C-122
Revised 9-1-65

NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test			Test Date	
4 POINT	☒ Initial	☐ Annual ☐ Special	10/31/85	FSL 800FNL

Company	Connection	
Kaiser-Francis Oil Co ✓	EL PASO NAT. GAS CO.	1980FWL

Pool	Formation	Unit
West Sand Dunes	UPPER MORROW	N

Completion Date	Total Depth	Plug Back TD	Elevation	Farm or Lease Name
10-18-85	14967	14335	3354	PURE GOLD "A" FED.

Csg. Size	Wt.	d	Set At	Perforations:	Well No.
5.0	18	4.276	14967	From 14165 To 14228	1

Tbg. Size	Wt.	d	Set At	Perforations:	Unit	Sec.	Twp.	Rge.
2.125	3.25	1.751	14107	From OPEN To ENDED	N	21	23S	31E

Type Well – Single – Bradenhead – G.G. or G.O. Multiple	Packer Set At	County
SINGLE	14107	EDDY

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. – P_a	State
TUBING	212 @ 14197	60	13.2	NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
14197	14197	.583	.774	.919	Ø	Ø	4.026	FLG

	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						4512				72HRS
1.	4.026	1.250	593	0.6	74	3225	70			60MIN
2.	4.026	1.250	600	1.0	80	2610	70			60MIN
3.	4.026	1.250	608	2.0	80	1890	70			60MIN
4.	4.026	1.250	624	2.0	80	975	70			60MIN
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	7.47	19.85	606.2	0.9868	1.3097	1.0442	200
2.	7.47	24.76	613.2	0.9813	1.3097	1.0427	248
3.	7.47	35.25	621.2	0.9813	1.3097	1.0433	353
4.	7.47	35.70	637.2	0.9813	1.3097	1.0444	358
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	0.90	534	1.53	0.917
2.	0.91	540	1.55	0.920
3.	0.92	540	1.55	0.919
4.	0.94	540	1.55	0.917
5.				

Gas Liquid Hydrocarbon Ratio Ø Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons Ø Deg.
Specific Gravity Separator Gas 0.583 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX 0.583
Critical Pressure 675 P.S.I.A. 675 P.S.I.A.
Critical Temperature 349 R 349 R

P_c 4513.3 P_c^2 20370

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3226	10410	9960
2		2613	6827	13543
3		1897	3600	16771
4		990	980	19390
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.0506$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.0442$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 374$

Absolute Open Flow 374 Mcfd @ 15.025 Angle of Slope θ 48.7 Slope, n 0.877

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	BENNETT&CATHEY	RICHARD TOWNLEY	C. Van Valkenburg