C/ST
F. File

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 11/26/82	
Company: C & K Petroleum Inc. ✓		Connection: None			
Pool: White City Penn		Formation: Morrow		Unit:	
Completion Date: 11/26/82	Total Depth: ~~11654'~~ 11,700	Plug Back TD: ~~11654'~~ 11,560		Elevation: 3434 'GL	Farm or Lease Name: Exxon Federal Comm
Csg. Size: 5½" / Wt.: 17.0 / d: 4.892 / Set At: ~~11654'~~ 11,700		Perforations: From 11192' To 11581'			Well No.: 2
Tbg. Size: 2 7/8" / Wt.: 6.5 / d: 2.441 / Set At: 11003'		Perforations: From Open To Ended			Unit: J / Sec.: 17 / Twp.: 24s / Rge.: 26e
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 11003'			County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 188° @ 11400'	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11400'	–	0.576	1.164	0.259	–	–	2.900	Flange

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							2237	60	PACKER		142.5 hrs
1.	2.900		1.250	535	5	88	1992	60			1.0 hr
2.	2.900		1.250	525	10	76	1907	60			1.0 hr
3.	2.900		1.250	545	22	76	1770	60			1.0 hr
4.	2.900		1.250	500	34	88	1580	60			1.0 hr
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	7.615	52.35	548.2	0.9741	1.318	1.032	528.18
2	7.615	73.36	538.2	0.9850	1.318	1.034	749.90
3	7.615	110.82	558.2	0.9850	1.318	1.035	1133.91
4	7.615	132.09	513.2	0.9741	1.318	1.030	1330.14
5							

NO.	P_t	Temp. °R	T_r	Z
1	0.81	548	1.61	0.939
2	0.79	536	1.58	0.935
3	0.82	536	1.58	0.933
4	0.76	548	1.61	0.942
5				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: – Deg.
Specific Gravity Separator Gas: 0.5757 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 679 P.S.I.A. – P.S.I.A.
Critical Temperature: 340 R – R

P_c 2882.2* P_c^2 8307.1

NO	P_t^2	P_w *	P_w^2	$P_c^2 - P_w^2$
1		2607.2	6797.5	1509.6
2		2463.2	6067.4	2239.7
3		2282.2	5208.4	3098.7
4		2029.2	4117.7	4189.4
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.983$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.862$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2476.72$

Post ID-2
12-24-82
Comp + BR

Absolute Open Flow: 2477 Mcfd @ 15.025 Angle of Slope θ: 47°45' Slope, n: 0.908

Remarks: * BOTTOM HOLE PRESSURES @ (-7966)11400' USED FOR PRESSURE CALCULATIONS
WELL PRODUCED NO FLUID DURING TEST

Approved By Division	Conducted By:	Calculated By:	Checked By: PE #2208
	JARREL WELL TESTING INC	D. Dickerson	Joe A. Coleman