NEW MEXICO OIL CONSERVATION COMMSSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-17-74	
Company: CLEVEROCK ENERGY CORP.		Connection: TO AIR			
Pool: WILDCAT		Formation: BONE SPRINGS		Unit:	
Completion Date: 10-16-74	Total Depth: 11,000'	Plug Back TD: 10,380'	Elevation:	Farm or Lease Name: CLEVEROCK-PEDCO STATE	
Csg. Size: 5½" / Wt.: 17#&15.5 / d: / Set At: 10,845'		Perforations: From 9884' To 9896'		Well No.: 1	
Tbg. Size: 2 7/8" / Wt.: 6.5 / d: / Set At: 9851'		Perforations: From OPEN To ENDED		Unit: I / Sec.: 16 / Twp.: 19S / Rge.: 32E	
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 9820'		County: LEA	
Producing Thru: TUBING	Reservoir Temp. °F: 148° @ 9898'	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
.9898'	9898'	0.675	0.10	2.41	----	------	3"	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					2605.0		PACKER	CHOKE	
1.	3" X 1.750"	670.0	57.0	60	1987.0	74		23/64	75 MIN.
2.	3" X 1.750"	550.0	36.0	60	2242.0	77		18/64	60 MIN.
3.	3" X 1.750"	570.0	17.0	64	2362.0	82		15/64	60 MIN.
4.	3" X 1.750"	560.0	7.5	62	2460.0	80		12/64	60 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	15.61	197.34	683.2	1.0000	1.217	1.076	4034
2.	15.61	142.39	563.2	1.0000	1.217	1.062	2872
3.	15.61	99.57	583.2	0.9962	1.217	1.062	2001
4.	15.61	65.57	573.2	0.9981	1.217	1.061	1319
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	1.03	520	1.38	.863
2.	0.85	520	1.38	.886
3.	0.88	524	1.39	.886
4.	0.86	522	1.39	.889
5.				

Gas Liquid Hydrocarbon Ratio 9263 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 59.9 Deg.
Specific Gravity Separator Gas ____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX ____
Critical Pressure 666 P.S.I.A. ____ P.S.I.A.
Critical Temperature 376 R ____ R

P_F 4008.2 P_F^2 1606.6

NO	P_t^2	P_S	P_S^2	$P_F^2 - P_S^2$
1		3301.2	1089.8	516.8
2		3572.2	1276.1	330.5
3		3740.2	1398.9	207.7
4		3851.2	1483.2	123.4
5				

(1) $\frac{P_F^2}{P_F^2 - P_S^2} = 3.1087$ (2) $\left[\frac{P_F^2}{P_F^2 - P_S^2}\right]^n = 2.4003$

$AOF = Q \left[\frac{P_F^2}{P_F^2 - P_S^2}\right]^n = 9683$

Absolute Open Flow 9683 Mcfd @ 15.025 Angle of Slope θ 52.3 Slope, n 0.772

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE @ 9898 FEET

Approved by Commission	Conducted By:	Calculated By:	Checked By:
	DON TYSON	R.W.	J.W.W.