NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 12-1-65

RECEIVED

MAY 16 1979

O. C. C.
ARTESIA, OFFICE

[X] Initial [ ] Annual [ ] Special — Test Date: 5-4-79

Company: CITIES SERVICE OIL COMPANY

Connection: E P N G Co.

Unit:

Pool: BURTON FLAT S. (Wolfcamp)

Formation: WOLFCAMP

Completion Date: 3-9-79

Total Depth: 11,520'

Plug Back TD: 10,480'

Elevation: 3241 GR.

Farm or Lease Name: GOVERNMENT "AC" Com.

Csg. Size	Wt.	d	Set At	Perforations:	Well No.
5½"			11,519'	From 9,113' To 9,194'	
Tbg. Size	Wt.	d	Set At	Perforations:	Unit Sec. Twp. Rge.
2 7/8"			8,989'	From OPEN ENDED	N 13 20S 28E

Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE

Packer Set At: 8,989'

County: EDDY

Producing Thru	Reservoir Temp. °F	Mean Annual Temp. °F	Baro. Press. - P_a	State
TUBING	152 @ 9,153'	60	13.2	NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
9153	9153	0.670	.144	1.301			4"	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							2597			CHOKE	72 HRS.
1.	4"	x	1.250"	519	57.76	47	1360	50		24/64	1 HR.
2.	4"	x	1.250"	519	34.81	49	1410	52		24/64	30 MIN.
3.	4"	x	1.250"	519	19.36	52	1487	54		24/64	30 MIN.
4.	4"	x	1.250"	519	11.56	54	1567	54		25/64	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	7.469	175.33	532.2	1.013	1.222	1.067	1720
2	7.469	136.11	532.2	1.011	1.222	1.067	1340
3	7.469	101.51	532.2	1.008	1.222	1.066	996
4	7.469	78.44	532.2	1.006	1.222	1.064	766
5							

NO.	P_t	Temp. °R	T_t	Z
1	.80	507	1.33	.878
2	.80	509	1.33	.878
3	.80	512	1.34	.880
4	.80	514	1.35	.883
5				

Gas Liquid Hydrocarbon Ratio: 6.214 Mcf/bbl

A.P.I. Gravity of Liquid Hydrocarbons: 49.9 @ 60

Specific Gravity Separator Gas: .670

Specific Gravity Flowing Fluid: XXXXX

Critical Pressure: 669 P.S.I.A. P.S.I.A.

Critical Temperature: 382 °R °R

P_c 3131.7 P_c^2 9,807.5

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		1899.7	3608.9	6198.6
2		1960.2	3842.4	5965.1
3		2026.1	4105.1	5702.4
4		2108.0	4443.7	5363.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.582$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right] = 1.582$

Slope, n = 1.000

Absolute Open Flow: 2,737 Mcfd @ 15.025

$\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.737$

Angle of Slope θ: 45

Remarks: 22 BBLS CONDENSATE MADE DURING THE TEST. BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M.C.T.	R.R.	J.W.W.