NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TE FOR GAS WELL

Copy to C-122

Form C-122
Revised 9-1-65

RECEIVED

NOV 8 1974

O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-18-74	
Company: ADOBE OIL COMPANY			Connection: TO AIR		
Pool: WILDCAT			Formation: MORROW		Unit:
Completion Date: 9-18-74	Total Depth: 12,575'		Plug Back TD: 12,469'	Elevation:	Farm or Lease Name: HANNIFIN STATE COM.
Csg. Size: 5½" / Wt.: 23.0# / d: 4.670" / Set At: 12,575'			Perforations: From 11,719' To 12,225'		Well No.: 1
Tbg. Size: 2 7/8" / Wt.: 6.5# / d: / Set At: 11,993'			Perforations: From OPEN To ENDED		Unit: P / Sec.: 16 / Twp.: 19S / Rge.: 31E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE			Packer Set At: 11,526'		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 169° @ 12,202'	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
12,202'	12,202'	0.7365	0.45	2.91	-------	-----	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					1823		PACKER	CHOKE	
1.	3" X 1.000"	300.0	5.0	90	1470.0	70		9/64	60 MIN.
2.	3" X 1.000"	315.0	9.0	96	1165.0	72		10/64	60 MIN.
3.	3" X 1.000"	260.0	11.0	100	865.0	72		12/64	45 MIN.
4.	3' X 1.000"	290.0	23.0	96	610.0	72		18/64	75 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	4.789	39.57	313.2	.9723	1.165	1.032	221.5
2.	4.789	54.35	328.2	.9671	1.165	1.032	302.6
3.	4.789	54.82	273.2	.9636	1.165	1.026	302.4
4.	4.789	83.51	303.2	.9671	1.165	1.030	464.1
5.							

NO.	P_t	Temp. °R	T_r	Z
1	0.47	550	1.39	.939
2.	0.49	556	1.41	.939
3.	0.41	560	1.42	.950
4.	0.46	556	1.41	.943
5.				

Gas Liquid Hydrocarbon Ratio 2945 Mcf/bbl.

A.P.I. Gravity of Liquid Hydrocarbons 64.9 Deg.

Specific Gravity Separator Gas 0.7365 XXXXXXXXXX

Specific Gravity Flowing Fluid XXXXX

Critical Pressure 665 P.S.I.A. ____ P.S.I.A.

Critical Temperature 395 R ____ R

PF^2 3699.2 PF^2 13684

NO	P_t^2	F_S	F_S^2	$P_F^2 - F_S^2$
1		3332.2	11104	2580
2		3007.2	9043	4641
3		2688.2	7226	6458
4		2027.2	4110	9574
5				

(1) $\frac{PF^2}{PF^2 - PS^2} = 1.4293$ (2) $\left[\frac{PF^2}{PF^2 - PS^2}\right]^n = 1.2328$

$AOF = Q \left[\frac{PF^2}{PF^2 - PS^2}\right]^n = 572$

Absolute Open Flow 572 Mcfd @ 15.025 Angle of Slope θ 59.6° Slope, n 0.586

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA GAUGE @ 12,202 FEET

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