NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
DEC 31 1974
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 12-26-74	
Company: Monsanto Company		Connection: None			Unit: 0
Pool: Burton Flat		Formation: Morrow			
Completion Date: 12-26-74	Total Depth: 11,560		Plug Back TD: 11,500	Elevation: 3235 KB	Farm or Lease Name: Burton Flat Deep Unit
Csg. Size: 5 1/2 / Wt.: 17# / d: 4.892	Set At: 11,560	Perforations: From 11,412 To 11,416			Well No.: 13
Tbg. Size: 2 7/8 EUE / Wt.: 6.5 / d: 2.331	Set At: 11,175	Perforations: From To			Unit: 0 Sec.: ~~26~~ 28 Twp.: 20-S Rge.: 28-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 11,175		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 158 @ 11,560	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2		State: New Mexico
L: 11414	H: 11414	Gg: .610	% CO_2:	% N_2:	% H_2S: Prover: Meter Run: X Taps:

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						2842	46			
1.	4.0	1.75	210	17.5	70	1140	50			1 Hr
2.	4.0	1.75	190	5.0	80	689	53			1 Hr
3.	4.0	1.75	195	8.0	85	579	54			1 Hr
4.	4.0	1.75	210	12.0	88	476	65			1 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	14.93	62.498	223.2	.9905	1.2804	1.020	1207
2	14.93	31.874	203.2	.9813	1.2804	1.016	607
3	14.93	40.811	208.2	.9768	1.2804	1.016	774
4	14.93	51.753	223.2	.9741	1.2804	1.017	980
5							

NO.	P_r	Temp. °R	T_r	Z
1	.33	530	1.46	.962
2	.30	540	1.49	.968
3	.31	545	1.51	.969
4	.33	548	1.51	.967
5				

Gas Liquid Hydrocarbon Ratio: None Produced Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .601 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. 671 P.S.I.A.
Critical Temperature: 362 R 362 R

P_c 2855.2 P_c^2 8152

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1159.8	1345	6807
2		705.2	497	7655
3		598.1	358	7794
4		500.9	251	7901
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{8152}{6807}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.1975$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1445$

posted 1-17-75

Absolute Open Flow: 1445 Mcfd @ 15.025 | Angle of Slope θ: 45° | Slope, n: 1.0

Remarks: Well Shut-In 46 Hours prior to start of this test.
Choke Sizes 12/64"; 16/64"; 20/64" & 24/64".

Approved By Commission:	Conducted By: R G Roberson WEST TEXAS CONSULTING SERVICE, INC.	Calculated By: H L Hagler	Checked By: