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C-122
Form C-122
Revised 9-1-65

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

RECEIVED
OCT 29 1974
O. C. C.
ARTESIA, OFFICE

Type Test: X Initial ☐ Annual ☐ Special			Test Date: 10-15-74	
Company: Monsanto Company	Connection: None			Unit: G
Pool: ~~Undesignated~~ Avalon Strawn	Formation: Strawn ~~Cisco Canyon~~			
Completion Date: 10-15-74	Total Depth: 10,900	Plug Back TD: 10,850	Elevation: 3186 Gr	Farm or Lease Name: McNew Com.
Csg. Size / Wt.: 5 1/2 17 & 20#	O.D.: 4.778	Set At: 10,900	Perforations: From 9516 To 9530	Well No.: 1
Tbg. Size / Wt.: 2 7/8 EUE 6.4	I.D.: 2.441	Set At: 9195	Perforations: From To	Unit: G; Sec.: 5; Twp.: 21-S; Rge.: 26-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 9195		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 156 @ 10,900	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2	State: New Mexico
L: 9523	H: 9523	Gg: .688	% CO_2: .22	% N_2: .93	% H_2S:	Prover:	Meter Run: X	Taps:

NO.	Prover Line Size	X	Orifice Size	FLOW DATA 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
S						62	2877	57			SI 5 days
1.	3.0		2.250	360	18.5	79	2340	67			1 Hr
2.	3.0		2.250	390	26	79	2158	70			1 Hr
3.	3.0		2.250	405	32	78	1947	71			1 Hr
4.	3.0		2.250	450	32	71	1771	73			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.	28.78	83.09	373.2	.9822	1.2056	1.036	2934
2.	28.78	102.38	403.2	.9822	1.2056	1.139	3974
3.	28.78	115.68	418.2	.9831	1.2056	1.041	4107
4.	28.78	121.75	463.2	.9896	1.2056	1.048	4381
5.							

NO.	P_c	Temp. °R	T_c	Z
1.	.52	539	1.39	.931
2.	.56	539	1.39	.926
3.	.58	538	1.39	.923
4.	.64	531	1.37	.910
5.				

Gas Liquid Hydrocarbon Ratio: 21270 Mcf/Bbl.
A.P.I. Gravity of Liquid Hydrocarbons: 59.4 Deg.
Specific Gravity Separator Gas: .688 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 699 P.S.I.A. 665 P.S.I.A.
Critical Temperature: 388 R 428 R

P_c^2 = 2890.2 P_c^2 = 8353

NO.	P_w	P_w^2	$P_c^2 - P_w^2$
1.	2364.1	5588	2765
2.	2181.4	4758	3595
3.	1985.2	3941	4412
4.	1829.5	3347	5006
5.			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{8353}{2765}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.2104$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n$ = 6485

granted 11-1-74

Absolute Open Flow: 6485 Mcfd @ 15.025 Angle of Slope θ: 54° 22' Slope, n: .717

Remarks: Well was shut-in 50 hours prior to starting this test.

Approved by: R G Robertson Calculated by: H L Hagler Witnessed by: