C/SF

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

Form C-122
Revised 9-1-65

RECEIVED
MAR 04 1981
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 2-27-81	
Company: AMOCO Prod. Co.	Connection: EL PASO			2310' ~~FSL~~ & 660' FEL
Pool: ~~UNDESIGNATED~~ Happy Valley Morrow	Formation: ~~HAPPY VALLEY~~ MORROW			Unit: I
Completion Date: 10-29-80	Total Depth: 11,716	Plug Back TD: 11,~~607~~ 605	Elevation: 3414 GL	Farm or Lease Name: LANCASTER SPRING COM
Csg. Size: 5½ / Wt.: 17 / d: 4,892 / Set At: 11,609		Perforations: From 10,912 To 11,330		Well No.: #1
Tbg. Size: 2 3/8 / Wt.: 4.7 / d: 1.995 / Set At: 10,798		Perforations: From OPEN ENDED To		Unit: I / Sec.: 8 / Twp.: 22S / Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE		Packer Set At: 10,699		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 180 @ 11,121	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
11,121	11,121	0.6104	.967	.380	-0-		4"	FLG.

	FLOW DATA				TUBING DATA		CASING DATA		
NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					2198.0	61	890		54
1.	4" X 2.75	410	8	61	1727	64	890		1
2.	4" X 2.75	410	15	60	1442	70	890		1
3.	4" X 2.75	415	25	68	1006	66	890		1
4.	4" X 2.75	420	31	74	690	62	890		1
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	42.15	58.19	423.2	.9990	1.2804	1.0370	3253.0
2	42.15	79.67	423.2	1.0000	1.2804	1.0370	4459.0
3	42.15	103.46	428.2	.9924	1.2804	1.0353	5737.0
4	42.15	115.88	433.2	.9868	1.2804	1.0336	6379.0
5							

NO.	P_t	Temp. °R	T_r	Z
1	.63	521.0	1.46	.930
2	.63	520.0	1.46	.930
3	.63	528.0	1.48	.933
4	.64	534.0	1.50	.936
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 51 API @ 50 Deg.
Specific Gravity Separator Gas 0.6104 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure .675 P.S.I.A. _____ P.S.I.A.
Critical Temperature 357 R _____ R

P_c 2211.2 P_c^2 4889.4

NO	BHP	P_w	P_w^2	$P_c^2 - P_w^2$
1	2401.2	1830.3	3350.1	1539.0
2	2193.2	1674.5	2803.9	2086.0
3	1955.2	1496.6	2239.7	2650.0
4	1838.2	1408.8	1984.6	2905.0
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.8451$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.6831$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 9,655.9$

Absolute Open Flow 9,655.9 Mcfd @ 15.025 Angle of Slope θ 49.6 Slope, n .850

Remarks: CACULATED FROM KNOWN BOTTOM HOLE PRESSURES, MEASURED WITH AMERADO RPG3 PRESSURE ELEMENT, SERIAL NO. 46950 0-7,000 PSI RANGE
1½" H2O, 2½" COND. – BBLS/ PER INCH UNKNOWN

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	DON BENNETT	DON BENNETT	