

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 9-12-74	
Company AMERICAN FUELS CORP				Connection NONE	
Pool WILDCAT				Formation RATON-VERMEJO	
Completion Date 7-14-73		Total Depth 2169'		Plug Back TD 1840'	
Elevation 1634'		Farm or Lease Name NEW MEXICO			
Cs. Size 7.000	Wt. UNKNOWN	d UNKOWN	Set At UNKOWN	Perforations: 1634' TO 1637'	
				From 1755' TO 1761'	
Well No. B-2					
Trq. Size 2.375	Wt. 4.7	a 1.995	Set At 1630'	Perforations: 3' PERF. TO NIPPLE	
Unit 16		Sec. 30N		Twp. 18E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE	
Producing Thru TUBING		Reservoir Temp. °F 87°		Mean Annual Temp. °F 12.2	
Baro. Press. - P _a 12.2		State NEW MEXICO			
L 1630'	H	G _q 0.647	% CO ₂	% N ₂	% H ₂ S
Prover 2.0"		Meter Run		Taps	

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
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	
SI											
1.	2.0	X	7/32	117.0		79	549.0		549.0		2 HR
2.	2.0	X	7/32	177.0		74	491.0		497.0		2 HR
3.	2.0	X	7/32	239.0		54	376.0		376.0		2 HR
4.	2.0	X	7/32	284.0		51	284.0		284.0		2 HR
5.	2.0	X	7/32	351.0		52	190.0		197.0		12 HR

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	0.8293		129.2	0.9922	1.243	1.011	124
2	0.8212		199.2	0.9938	1.242	1.017	193
3	0.8212		242.2	1.0060	1.242	1.026	241
4	0.8213		284.2	1.0090	1.242	1.025	255
5	0.8242		351.2	1.0080	1.243	1.027	32

NO.	P _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas 0.647 XXXXXXXXX
3					Specific Gravity Flowing Fluid XXXXX
4					Critical Pressure _____ P.S.I.A. P.S.I.A.
5					Critical Temperature _____ R R

P _f 56.62 P _w 314.95			
NO.	P _f	P _w	P _f ² - P _w ²
1	314.95	502.2	252.20
2	314.95	457.2	210.55
3	314.95	389.2	150.70
4	314.95	241.2	59.13
5	314.95	139.2	14.38

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0651$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0443$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 86$$

Absolute Open Flow 86 Mcfd @ 15.025	Angle of Slope 55°30'	Slope, n 0.687
Remarks:		

Approved by Commission:	Conducted by: W. L. Scott	Calculated by: W. L. Scott	Checked by: RCJ
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