

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

Form C-122
Revised 9-1-

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2-24-83			
Company The Stone Petroleum Corp.				Connection To Atmosphere					
Pool Wildcat				Formation Morrow				Unit	
Completion Date		Total Depth 15825'		Plug Back TD 15607'		Elevation 3335 G.L.		Farm or Lease Name Javelina Basin Unit	
Casing Size 7 5/8" Liner		Wt. 29.7#		d 6.875		Set At 13600		Perforations: From 15154' To 15420'	
Tubg. Size 2 7/8"		Wt. 7.9#		d 2.259		Set At 13058'		Perforations: From Open ended To	
Type Well - Single - Fractured - G.G. or G.O. Multiple Single						Packer Set At 13208'		Well No. #1	
Producing Thru Tubing		Reservoir Temp. °F 218° @ 15287"		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2#		Unit Sec. Twp. Rge. G 17 25S 34E	
L 15287'		H 15287'		C _g .5765		% CO ₂ .0062		% N ₂ .0032	
						% H ₂ S		Prover	
								Meter Run 4.026"	
								Taps Flg.	

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.	
SI							7080#			
1.	4.026"	x	1.00"	510#	10"	72°	5860#	60°	PKR	60°
2.	4.026"	x	1.00"	540#	25"	65°	4908#	60°	PKR	60°
3.	4.026"	x	1.00"	540#	41"	78°	4115#	60°	PKR	60°
4.	4.026"	x	1.00"	545#	65"	72°	3365#	60°	PKR	60°
5.										

RATE OF FLOW CALCULATIONS							
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	4.753	72.33	523.2	.9887	1.317	1.041	466
2	4.753	117.60	553.2	.9952	1.317	1.044	765
3	4.753	150.60	553.2	.9831	1.317	1.044	968
4	4.753	190.48	558.2	.9887	1.317	1.044	1231
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.779	532	1.52	.922	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.823	525	1.50	.918	Specific Gravity Separator Gas .5765
3	.823	538	1.54	.918	Specific Gravity Flowing Fluid _____
4	.831	532	1.52	.918	Critical Pressure 672 P.S.I.A.
5					Critical Temperature 350 R

P _r 8041.0 P _c ² 64657.6				
NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1	34494.5	6821.0	46526.0	18131.6
2	24218.2	5869.0	34445.2	30212.4
3	17042.0	5076.0	25765.8	38891.8
4	11412.2	4326.0	18714.3	45943.3
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.662$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1546 \text{ MCF/D}$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.597$

Absolute Open Flow	1546	Mcf/d @ 15.025	Angle of Slope @ 46°28'	Slope, n .921
Remarks:				

Approved By Commission:	Conducted By: JDW	Calculated By: JDW	Checked By: MCT
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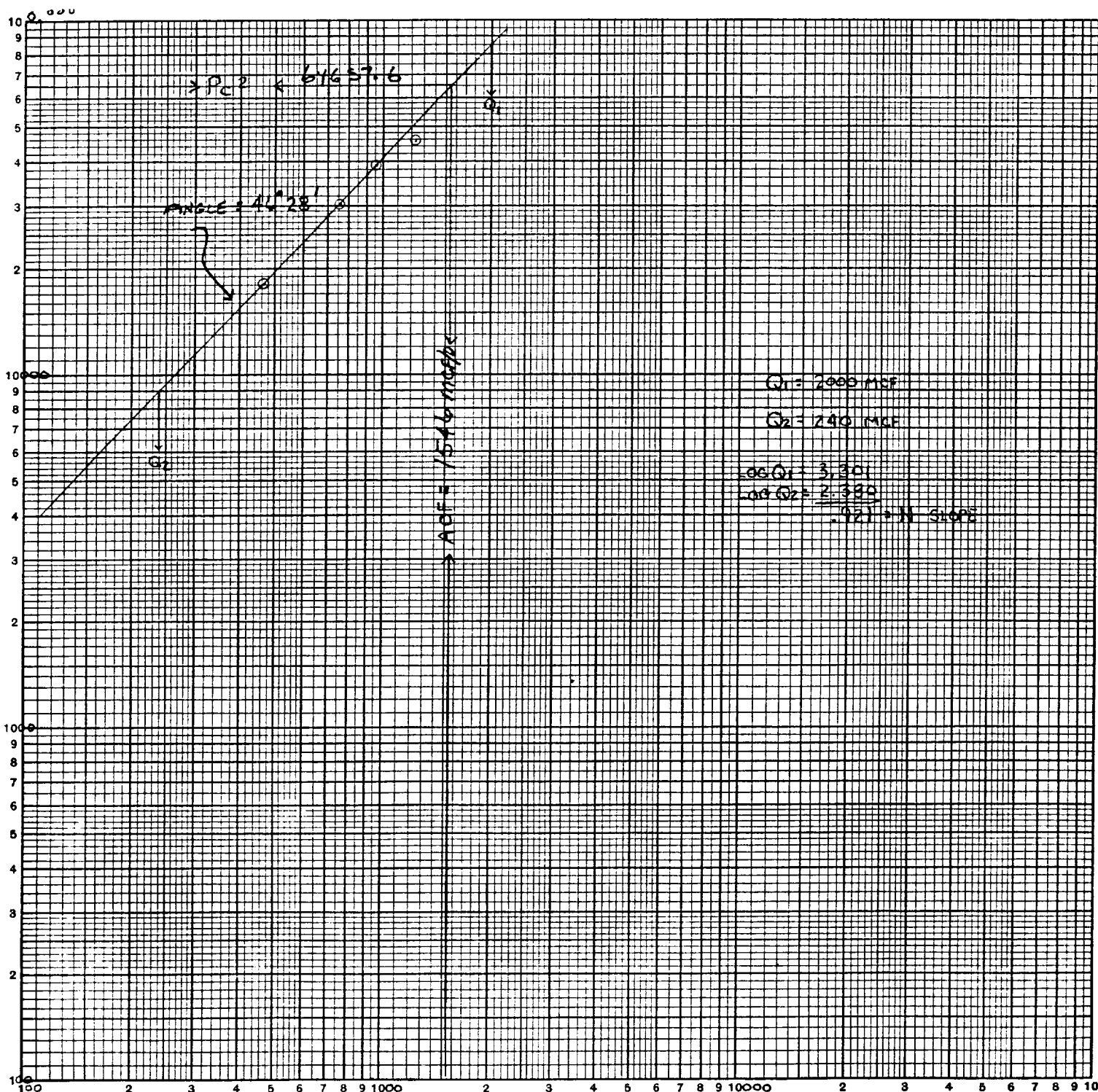
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The Stone Petroleum Corporation Javelina Basin Unit #1 February 24, 1983

$P_c^2 - P_w^2$

LOGARITHMIC
3 X 3 CYCLES
KEUFFEL & ESSER CO.
40 / 400
MADE IN U.S.A.



Q, MCFD

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STATION IDENTIFIER

The STONE PETROLEUM CORP.
JAVELINA BASI UNIT #1*
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DATA CARD TYPE

* BTU/CF @14.73 PSIA,
* 60 DEGREES

DATE SAMPLE TAKEN

10.....
022483

* FIELD GRAVITY

OVERRIDE CODE

17.

LABORATORY CODE

18.
H

	MOL FRAC	GPM	GRAV	BTU
HELIUM	21..... .0001	.0000	.0000	.0000
OXYGEN	25..... .0000	.0000	.0000	.0000
CO2	28..... .0002	.0000	.0004	.0000
N2	30..... .0002	.0000	.0031	.0000
HYDROGEN H2	37..... .0000	.0000	.0000	.0000
HYDROGEN SULFIDE	41..... .0000	.0000	.0000	.0000
METHANE C1	45..... .0002	.0000	.5361	979.4000
ETHANE C2	48..... .0125	.0000	.0193	32.9600
PROPANE C3	53..... .0025	.0700	.0038	6.4380
ISO-BUTANE I-C4	57..... .0002	.0090	.0005	.8790
NORM-BUTANE N-C4	61..... .0003	.0100	.0006	.9950
ISO-PENTANE I-C5	65..... .0001	.0060	.0004	.7140
NORM-PENTANE N-C5	69..... .0001	.0050	.0003	.5710
HEXANE C6+	73..... .0006	.0290	.0021	3.4810
IDEAL GAS	1.0000	.1290	.5756	1025.4400
REAL GAS		.1292	.5765 DRY	1027.5200
				WET 1009.6500

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