

W MEXICO OIL CONSERVATION COM SION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

C/SF
C-122

MAR - 1 1982

Type Test ☒ Initial FOUR POINT ☐ Annual ☐ Special						Test Date 2-19-82		MAR - 1 1982	
Company SANDERS PETROLEUM CORP. ✓				Connection AIR NEW WELL				O.C.T. AMERADA	
Pool UNDESIGNATED				Formation ABO				Unit	
Completion Date 2-15-82		Total Depth 4425		Plug Back TD 4342		Elevation 3644 KB		Farm or Lease Name MC KAY SAMEDAN	
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 4382	Perforations: From 4122 To 4140		Well No. 2		Unit Sec. Twp. Rge. K 16 7S 26E	
Tbg. Size 2.375	Wt. 4.70	d 1.995	Set At 4064	Perforations: From OPEN To ENDED		County CHAVES		State NEW MEXICO	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At NONE		Meter Run 4.028	
Producing Thru TUBING		Reservoir Temp. °F 99 @ 4034		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		Taps FLANGE	
L 4131	H 4131	Gg 0.683	% CO ₂ 5.79	% N ₂ 4.28	% H ₂ S	Prover		Taps FLANGE	

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							992		1120		98½ HRS.
1.	4.028	X	1.500	500	12.0	90	979	65	1110		1
2.	4.028	X	1.500	510	25.0	90	961	65	1100		1
3.	4.028	X	1.500	525	52.0	89	931	65	1084		1
4.	4.028	X	1.500	535	100.0	84	875	65	1061		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	11.1200	78.48	513.2	.9723	1.2100	1.0375	1065
2	11.1200	114.37	523.2	.9723	1.2100	1.0381	1553
3	11.1200	167.29	538.2	.9723	1.2100	1.0392	2277
4	11.1200	234.14	548.2	.9777	1.2100	1.0420	3209
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.75	550	1.52	.929	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.76	550	1.52	.928	Specific Gravity Separator Gas .6830 X X X X X X X X
3	.78	549	1.52	.926	Specific Gravity Flowing Fluid X X X X X
4	.80	544	1.50	.921	Critical Pressure 687 P.S.I.A. _____ P.S.I.A.
5					Critical Temperature 362 R _____ R

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 9.8780$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 4.7852$
1	1133.2	1123.2	1261.2	23.0	AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 15,355.7$	
2	1133.2	1239.2	45.0			
3	1097.2	1203.8	80.0			
4	1074.2	1153.9	130.0			
5						

Absolute Open Flow 15,355.7 Mcfd @ 15.025		Angle of Slope @ 55.6	Slope, n .6835
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Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By: RICHARD TOWNLEY	Calculated By: BENNETT-CATHEY	Checked By: <i>[Signature]</i>
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Posted ID 2
+ Comp. Book
SI
3-19-82

SANDERS PETROLEUM

McKAY SAMEDAN #2

K 16 75 GGE

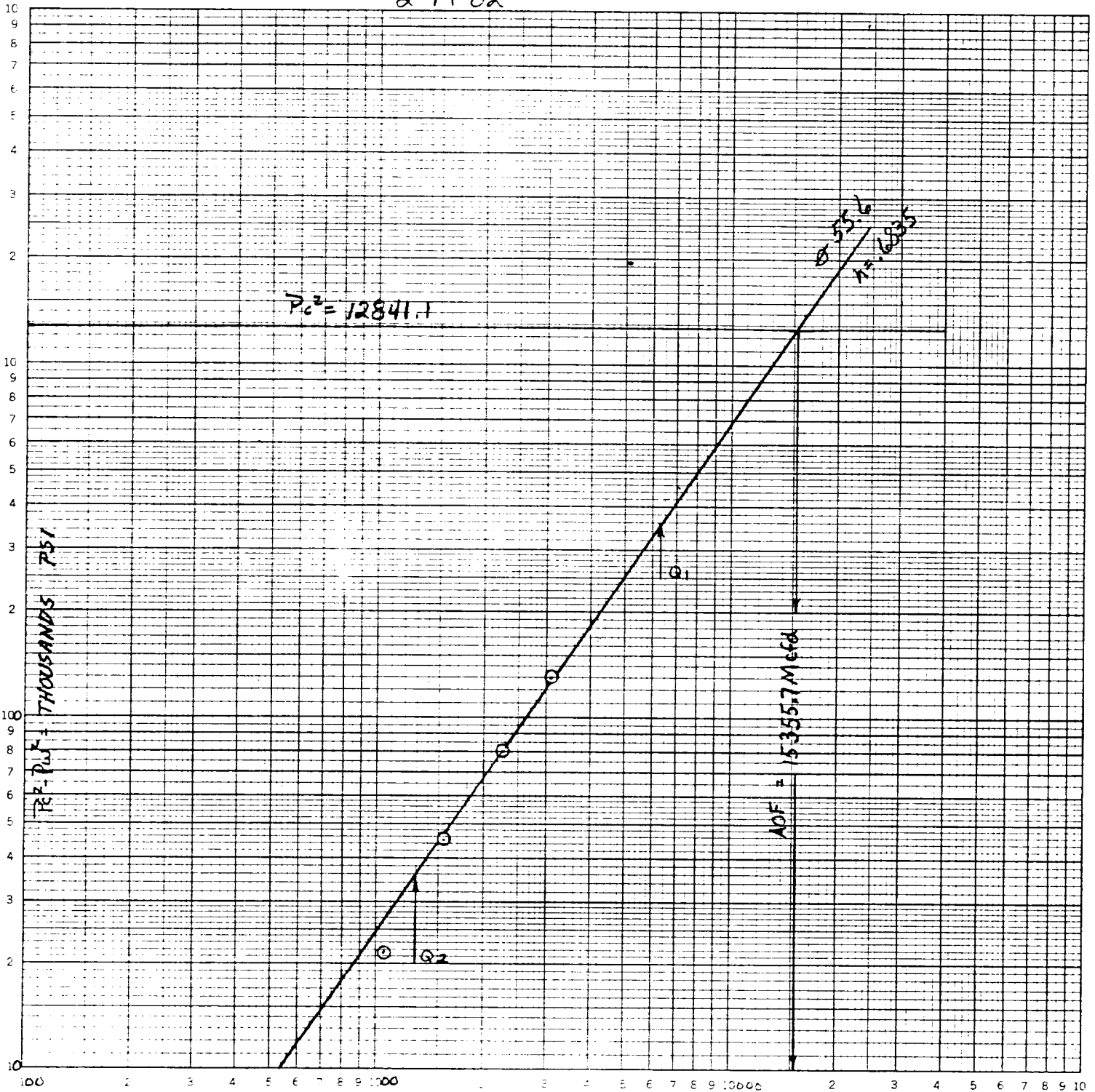
CHAVES COUNTY

2-19-82

46 7400

1) 1/2

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



$$\Delta P = P_c^2 - P_w^2 = 380$$

Q, Mcfd

$$\log Q_1 = 3.79744$$

$$\Delta P = P_c^2 - P_w^2 = 38$$

$$\log Q_2 = 3.11394$$

$$Q_1 = 6272.5$$

$$n = .6835$$

$$Q_2 = 1300$$

NEW-TEX LAB
P.O. BOX 1161
HOBBS NM 88241-1161
505-393-3561

ANALYSIS NUMBER: 6737
DATE OF RUN: 2 22 82
DATE RECEIVED:

ANALYSIS CERTIFICATE

SAMPLE IDENT: BAYLERS PETROLEUM - ROCKY SAMEDAN #2

CLIENT: BENNETT & CATHER
ADDRESS: BOX 787
CITY, STATE: ARTESIA NM 88210

SAMPLING PRESS: 0 PSIG SAMPLING TEMP: 0 DEG F
STATION NUMBER:

***** GASE ANALYSIS *****

	MOLE PERCENT	GAL/ MCF
NITROGEN	4.2793499	
CARBON DIOXIDE	5.7854414	
METHANE	83.4552917	
ETHANE	3.8036937	1.2144500
PROPANE	1.3667775	0.3751812
ISO-BUTANE	0.2399755	0.0783040
NORMAL BUTANE	0.4525675	0.1422870
ISO-PENTANE	0.1417379	0.0517485
NORMAL PENTANE	0.1526436	0.0551654
HEXANES	0.0999851	0.0410139
HEPTANES PLUS	0.2225341	0.1024100
TOTAL	100.0000000	1.8605600

PROPANE GPM:	0.38	BUTANES GPM:	0.22
ETHANE GPM:	1.01	PENTANES PLUS GPM:	0.25

SPECIFIC GRAV (CALO): .6831
MOLE WEIGHT: 19.80

HHV-BTU/CU FT	PRESSURE (PSIA)	WET	DRY
14.696		979	996
14.650		976	993
14.730		981	998
14.735		981	999

ANALYZED BY:

APPROVED BY:

