NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 3/26/79	
Company: Adobe Oil & Gas Corporation			Connection: None		
Pool: Austin			Formation: Mississippian		Unit
Completion Date: 3/26/79	Total Depth: 13821'		Plug Back TD: 13721'	Elevation: 3969'KB	Farm or Lease Name: Hannah
Csg. Size: 5½ / Wt.: 20.0 / d: 4.892 / Set At: 4.778 / 13731			Perforations: From 13397 To 13460		Well No.: #1
Tbg. Size: 2 3/8" / Wt.: 4.7 / d: 1.995 / Set At: 13276			Perforations: From Open Ended To		Unit: H / Sec.: 17 / Twp.: 14 / Rge.: 36
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 13214'		County: Lea
Producing Thru: TBG	Reservoir Temp. °F: 200 @ 13240		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
13429	–	0.6805	1.362	1.175	–		3	F

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g. DWT	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI							2915				89.00
1.	3	8/64	1.500	820	4	92	2375	68	PACKER		2.00
2.	3	12/64	1.500	840	13	93	2330	72			1.00
3.	3	16/64	1.500	840	41	77	2225	75			1.25
4.	3	18/64	1.500	840	63	74	1980	83			1.00
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	11.13	57.74	833.2	0.9706	1.212	1.071	809.66
2	11.13	105.45	853.2	0.9697	1.212	1.073	1480.07
3	11.13	186.94	853.2	0.9840	1.212	1.082	2684.86
4	11.13	231.93	853.2	0.9868	1.212	1.084	3346.67
5							

NO.	P_t	Temp. °R	T_f	Z
1	1.24	552	1.47	0.871
2	1.27	553	1.47	0.868
3	1.27	537	1.43	0.854
4	1.27	534	1.42	0.851
5				

Gas Liquid Hydrocarbon Ratio 35.46 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 53.2 @ 60° Deg.
Specific Gravity Separator Gas 0.6805 XXXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 674 P.S.I.A. – P.S.I.A.
Critical Temperature 376 R – R

P_c 4275.2 P_c^2 18277.3

NO	P_t	P_w *	P_w^2	$P_c^2 - P_w^2$
1		4013.2	16105.8	2171.5
2		3844.2	14777.9	3499.4
3		3432.2	11780.0	6497.3
4		3177.2	10094.6	8182.7
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.234$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.144$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 7176$

Absolute Open Flow 7176 Mcfd @ 15.025 Angle of Slope θ 46°29' Slope, n 0.949

Remarks: Produced 12.17 BD in 5.0 hours, 58.42 BD/D

~~* Bottom Hole Pressure @ (9460) 13429' used for Pressure Calculations~~

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	Jarrel Services, Inc	Joe A. Coleman	Joe A. Coleman

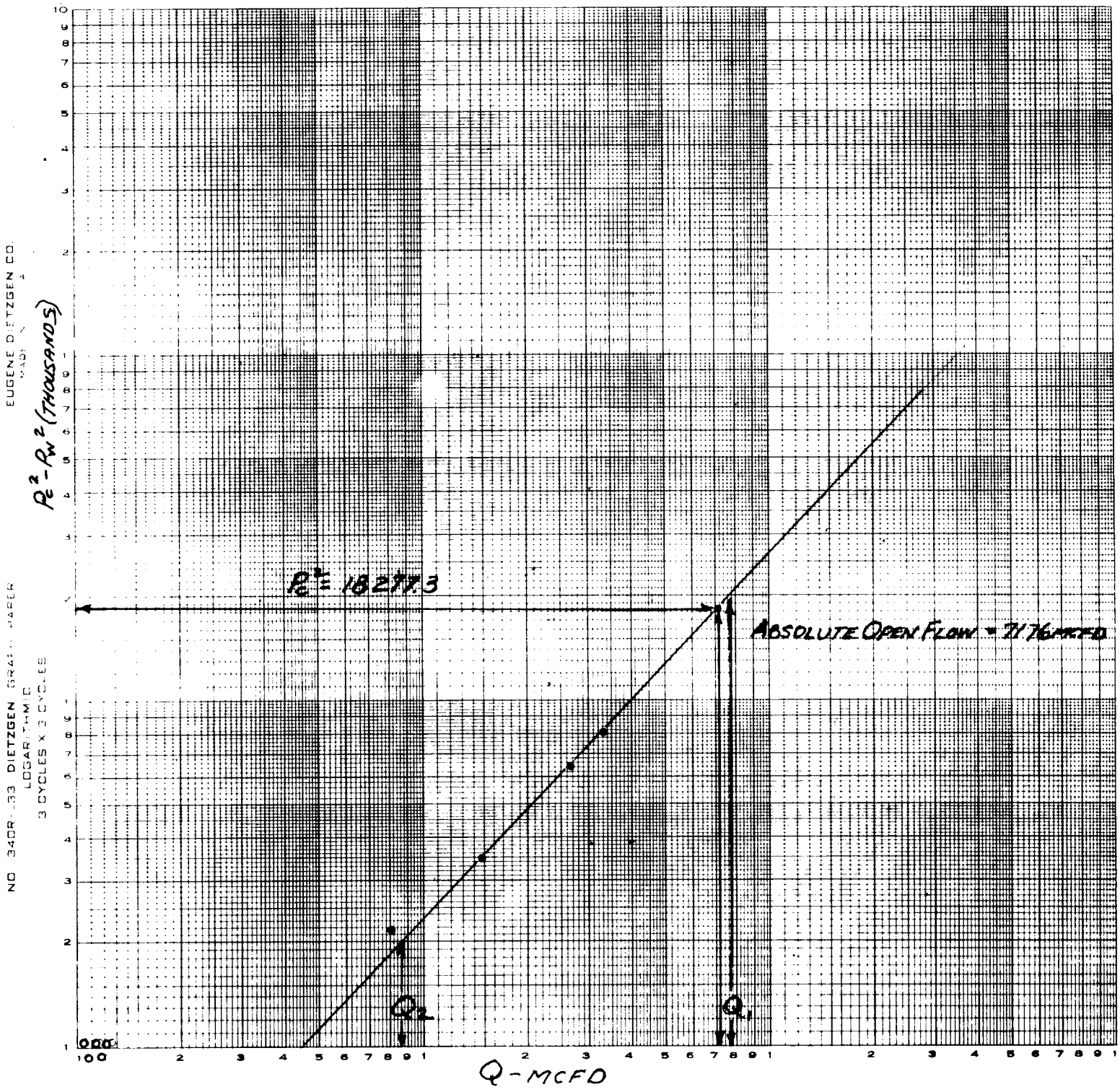
COMPANY: Adobe Oil & Gas Corporation

WELL: Hannah, No. 1

LOCATION: H 17 14s 36e

COUNTY: Lea

DATE: March 26, 1979



$Q_1 = 7700$ MCFD; LOG $Q_1 = 3.88649$

$Q_2 = 865$ MCFD; LOG $Q_2 = 2.93702$

$n = 0.94947 = 0.949$

NEW-TEX LAB
P. O. BOX 1161
HOBBS, N.M. 88240

No. 1088
Run No.
Date of Run 3-27-79
Date Secured 3-26-79

CERTIFICATE OF ANALYSIS

A Sample of Adobe Oil & Gas Hanna #1
Secured from Jarrel Services
At Box 1654 Secured by
Hobbs, N. M. 88240 Time Date
Sampling conditions Press
Temp.

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
Carbon Dioxide	1.362		
Air			
Nitrogen	1.175		
Oxygen			
Hydrogen sulfide			
Hydrogen			
Methane	85.431		
Ethane	6.699		1.787
Propane	2.770		.763
Butanes			
Iso-Butane	.448		.146
N-Butane	.687		.216
Pentanes			
Iso-Pentane	.315		.115
N-Pentane	.242		.087
Hexanes	.238		.098
Heptanes	.633		.269
Octanes			
TOTAL	100.000		3.481

Calc. Sp. Gr.— 0.6805
Calc. A.P.I.—
Calc. Vapor Press.— PSIA
Sp. Gr.
Mol. Wt. 19.77

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M.	.763
Butanes Calc. G.P.M.	.362
Pentanes Plus. G.P.M.	.569
Ethane Calc. G.P.M.	1.787
___ RVP Gasoline G.P.M.	

B.T.U./Cu. Ft. @ 14.696 P.S.I.A.

Dry Basis	1156
Wet Basis	1136

Sulfur Analysis by Titration Gr./100 Cu. Ft.

Hydrogen Sulfide	
Mercaptans	
Sulfides	
Residual Sulfur	
Total Sulfur	

Run by Jim Tucker Checked by Deane Simpson Approved by Deane Simpson

Additional Data and Remarks

JARREL SERVICES, INC.

POST OFFICE BOX 1654 PHONE 505 393-5396

HOBBS, NEW MEXICO 88240

COMPANY: Adobe Oil & Gas Corporation

WELL: Hannah, No. 1 **FIELD:** Austin Mississippian

CHRONOLOGICAL PRESSURE DATA

DATE	STATUS OF WELL	TIME	ELASPED TIME HRS.	MIN.	SURFACE PRESSURE TBG	CSG	BHP @ (-9460) 13429'PSIG
1979							
3/22	Shut in. Run Static Gradient & Set Bombs						
	@ 13240'	12:30 PM	3	00	2333	PKR	3497
	Opened Well	1:00	3	30		-	3516
	Flowing	2:00	1	00	-	-	2906
	Shut in	3:00	2	00	1500	-	2612
	"	3:15	0	15	-	-	3029
	"	3:30	0	30	-	-	3184
	"	4:00	1	00	-	-	3258
	"	5:00	2	00	-	-	3429
	"	6:00	3	00	-	-	3504
	"	7:00	4	00	-	-	3552
	"	8:00	5	00	-	-	3587
	"	9:00	6	00	-	-	3610
	"	10:00	7	00	-	-	3639
	"	11:00	8	00	-	-	3658
	"	12:00 MN	9	00	-	-	3681
3/23	"	1:00 AM	10	00	-	-	3697
	"	2:00	11	00	-	-	3713
	"	3:00	12	00	-	-	3729
	"	4:00	13	00	-	-	3752
	"	5:00	14	00	-	-	3765
	"	6:00	15	00	-	-	3775
	"	7:00	16	00	-	-	3791
	"	8:00	17	00	-	-	3800
	"	9:00	18	00	-	-	3816
	"	10:00	19	00	-	-	3829
	"	11:00	20	00	-	-	3836
	"	12:00 N	21	00	-	-	3842
	"	1:00 PM	22	00	-	-	3855
	"	2:00	23	00	-	-	3868
	"	3:00	24	00	-	-	3878
	"	4:00	25	00	-	-	3887
	"	5:00	26	00	-	-	3900
	"	6:00	27	00	-	-	3907
	"	7:00	28	00	-	-	3920
	"	8:00	29	00	-	-	3929
	"	9:00	30	00	-	-	3936
	"	10:00	31	00	-	-	3945
	"	11:00	32	00	-	-	3958
	"	12:00 MN	33	00	-	-	3965

WELL: Hannah, No. 1

DATE	STATUS OF WELL	TIME	ELASPED TIME HRS.	ELASPED TIME MIN.	SURFACE PRESSURE TBG	SURFACE PRESSURE CSG	BHP @ (-9460) 13429'PSIG
3/24	Shut in	1:00 AM	34	00	-	-	3975
	"	2:00	35	00	-	-	3984
	"	3:00	36	00	-	-	3997
	"	4:00	37	00	-	-	4007
	"	5:00	38	00	-	-	4013
	"	6:00	39	00	-	-	4023
	"	7:00	40	00	-	-	4032
	"	8:00	41	00	-	-	4039
	"	9:00	42	00	-	-	4048
	"	10:00	43	00	-	-	4058
	"	11:00	44	00	-	-	4064
	"	12:00 N	45	00	-	-	4071
	"	1:00 PM	46	00	-	-	4080
	"	2:00	47	00	-	-	4087
	"	3:00	48	00	-	-	4093
	"	4:00	49	00	-	-	4099
	"	5:00	50	00	-	-	4106
	"	6:00	51	00	-	-	4112
	"	7:00	52	00	-	-	4119
	"	8:00	53	00	-	-	4125
	"	9:00	54	00	-	-	4131
	"	10:00	55	00	-	-	4138
	"	11:00	56	00	-	-	4144
	"	12:00 MN	57	00	-	-	4147
3/25	"	1:00 AM	58	00	-	-	4154
	"	2:00	59	00	-	-	4160
	"	3:00	60	00	-	-	4163
	"	4:00	61	00	-	-	4170
	"	5:00	62	00	-	-	4176
	"	6:00	63	00	-	-	4179
	"	7:00	64	00	-	-	4186
	"	8:00	65	00	-	-	4192
	"	9:00	66	00	-	-	4198
	"	10:00	67	00	-	-	4205
	"	11:00	68	00	-	-	4208
	"	12:00 N	69	00	-	-	4211
	"	1:00 PM	70	00	-	-	4214
	"	2:00	71	00	-	-	4218
	"	3:00	72	00	-	-	4224
	"	4:00	73	00	-	-	4230
	"	5:00	74	00	-	-	4234
	"	6:00	75	00	-	-	4237
	"	7:00	76	00	-	-	4240
	"	8:00	77	00	-	-	4243
	"	9:00	78	00	-	-	4246
	"	10:00	79	00	-	-	4250
	"	11:00	80	00	-	-	4250
	"	12:00 MN	81	00	-	-	4253
3/26	"	1:00 AM	82	00	-	-	4253
	"	2:00	83	00	-	-	4256
	"	3:00	84	00	-	-	4256
	"	4:00	85	00	-	-	4259
	"	5:00	86	00	-	-	4259
	"	6:00	87	00	-	-	4259

WELL: Hannah, No. 1

DATE	STATUS OF WELL	TIME	ELASPED TIME HRS.	ELASPED TIME MIN.	SURFACE PRESSURE TBG	SURFACE PRESSURE CSG	BHP @ (-9460) 13429'PSIG
	Shut in	7:00	88	00	-	-	4262
	Started 1st Rate	7:45	88	45	2915 DWT	MCF/D	4262
	Finished 1st Rate & Started 2nd Rate	9:45	2	00	2375 DWT	809.66	4000
	Finished 2nd Rate & Started 3rd Rate	10:45	1	00	2330 DWT	1480.07	3811
	Finished 3rd Rate & Started 4th Rate	12:00 N	1	15	2225 DWT	2684.86	3419
	Finished 4th Rate Shut in	1:00 PM	1	00	1980 DWT	3346.67	3164
	Fished Bombs	2:00					

JARREL SERVICES, INC.

POST OFFICE BOX 1654 PHONE 505 393-5396

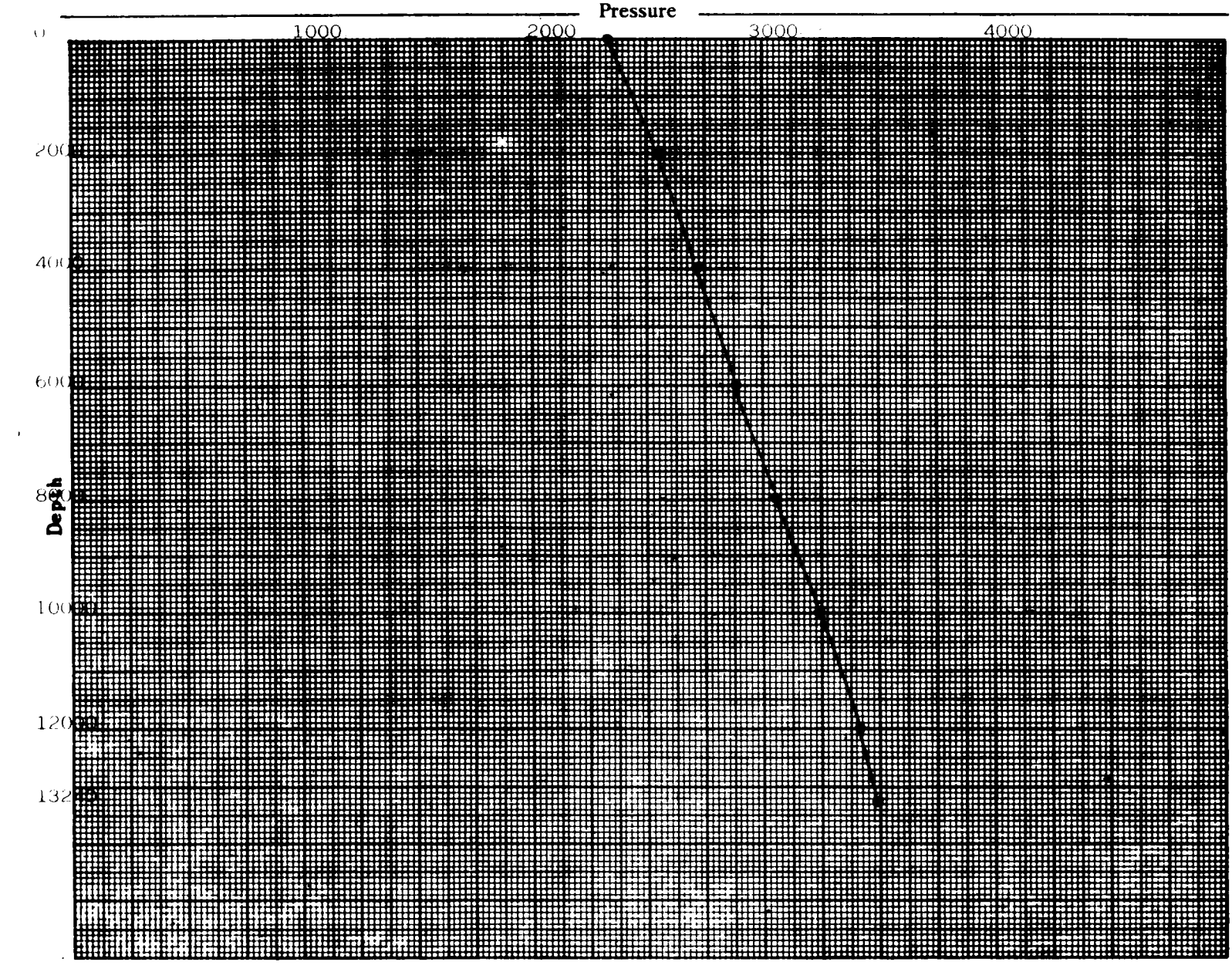
HOBBS, NEW MEXICO 88240

OPERATOR Adobe Oil & Gas Corporation
FIELD Austin
FORMATION Mississippian
LEASE Hannah **WELL** #1
COUNTY Lea **STATE** New Mexico
DATE March 22, 1979 **TIME** 11:45 AM
Status Shut in
Test Depth 13240'
Time S. I. 3.0 hrs. **Last test date** -
Tub Pres. 2333 **BHP last test** -
Cas. Pres. PKR **BHP change** -
Elev. 3969'KB **Fluid top** Flowing
Datum (-9460) ** **Water top** -
Temp. @ 200° F **Run by** JSI #21
Cal. No. A 2604 N **Chart No.** 1

BOTTOM HOLE PRESSURE RECORD

Depth	Pressure	Gradient
0	2333	-
2000	2547	.107
4000	2721	.087
6000	2889	.084
8000	3061	.086
10000	3245	.092
12000	3421	.088
13240	3487	.053
13429 (-9460)	3497 * **	(.053)

* EXTRAPOLATED PRESSURE
** MIDPOINT OF CASING PERFORATIONS



NO. 340P L31D DIETZGEN GRAPH PAPER
SEMI-LOGARITHMIC
3 CYCLES X 10 DIVISIONS PER INCH

DIETZGEN CORPORATION
MADE IN U.S.A.

JARREL SERVICES, INC.