MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Revised 9-1-

SF file + C-122 file

RECEIVED
5-6-82
MAY 2 0 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [XX] Initial FOUR POINT [ ] Annual [ ] Special

1980 FNL
1980 FEL

Company: TRANSWESTERN GAS SUPPLY Co
Connection: AIR NEW WELL
Unit: G
Pool: UNDESIGNATED
Formation: ABO
Completion Date: 9-11-81
Total Depth: 3,982
Plug Back TD: 3,515
Elevation: 4063 KB
Farm or Lease Name: MACHO STATE
Well No.: 1

Csg. Size	Wt.	d	Set At	Perforations
4-1/2	10.5	4.058	3655	From 2,888 To 3,008
Tbg. Size	Wt.	d	Set At	Perforations
2-3/8	4.7	1.995	2272	From OPEN To ENDED

Unit: G | Sec.: 32 | Twp.: 6S | Rge.: 23E
Type well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE
Packer Set At: NONE
County: CHAVES
Producing Thru: TUBING
Reservoir Temp. °F:
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
2948	2948	.644	1.98	7.70		2.00		

FLOW DATA / TUBING DATA / B.H.P. 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.	CHOKE	Duration of Flow
SI							663				86 HRS.
1	2.00	X	.0625	100	.00	62	650	62		11/64	1 HR.
2	2.00	X	.09375	135	.00	57	639	57		12/64	1 HR.
3	2.00	X	.125	450	.00	57	591	57		13/64	1 HR.
4	2.00	X	.1875	250	.00	53	435	53		15/64	1 HR.
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	0.06405	.00	113.2	.9981	1.246	1.009	9
2	0.1410	.00	148.2	1.003	1.246	1.012	26
3	0.2648	.00	463.2	1.003	1.246	1.039	159
4	0.6082	.00	263.2	1.007	1.246	1.023	205
5							

NO	P_t	Temp. °R	T_r	Z
1	.17	522	1.50	.983
2	.22	517	1.48	.977
3	.69	517	1.48	.927
4	.39	513	1.47	.956
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 666 P.S.I.A. _____ P.S.I.A.
Critical Temperature 349 R _____ R

676.2 P_c^2 457.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1			439.8	17.4
2			425.4	31.8
3			365.3	91.9
4			201.4	255.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.787$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.787$

Posted to D-2 Comp Book 6-4-82 SI

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 366.4$ MCFD

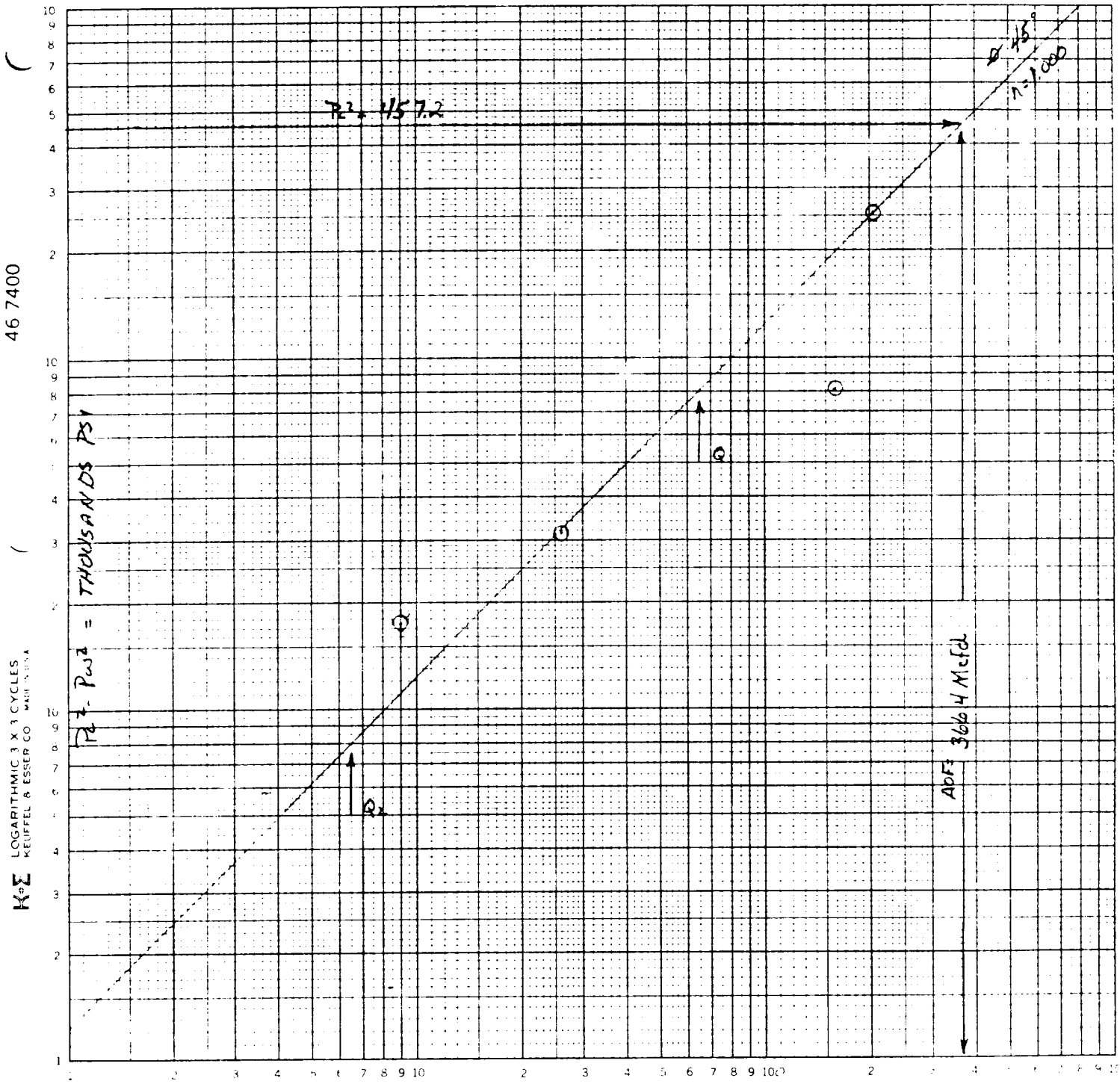
Absolute Open Flow: 366.4 Mcfd @ 15.025 | Angle of Slope θ: 45 | Slope, n: 1.000

Remarks:

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	JOHN SIEGWEIN	RICHARD TOWNLEY	DON BENNETT

TRANSWESTERN GAS SUPPLY
MACHO STATE
SEC. 32 TWP 6S RGE 30E
CHAVES COUNTY

5-11-82



$\Delta \overline{P}_1^2 = P_c^2 - P_w^2 = 80$

$\Delta \overline{P}_2^2 = P_c^2 - P_w^2 = 8$

Q_1 1.5

Q_2 1.5

LOG Q_1 .1761

LOG Q_2 .1761

n = 1.000

LOCATION: Unit Macho State #1 Section 32 Township 6S Range 23E

L [illegible] H [illegible] L/H 1.000 G .644 % CO_2 1.98 % N_2 7.70 % H_2S —

d 1.995 F_t .018231 GH 1898 P_{cr} 666 (TABLE IX & X) T_{cr} 349 (TABLE IX & X)

LINE	RATE 1		RATE 2		RATE #3		RATE #4			
1 Q_m	.009	.009	.026	.026	.159	.159	.205	.205		
2 T_w (W.H. °R)	534	534	534	534	534	534	534	534		
3 T_s (B.H. °R)	563	563	563	563	563	563	563	563		
4 $T = (\frac{T_w + T_s}{2})$	548.5	548.5	548.5	548.5	548.5	548.5	548.5	548.5		
5 Z (Est.)	.923	.921	.925	.922	.930	.928	.947	.945		
6 TZ	506.3	505.2	507.4	505.7	510.1	509.0	519.4	518.3		
7 GH/TZ	3.749	3.757	3.741	3.753	3.721	3.729	3.654	3.662		
8 e^s (Table XIV)	1.151	1.151	1.151	1.151	1.150	1.150	1.147	1.149		
9 $1-e^{-s}$ (Table XIV)	.1312	.1314	.1309	.1313	.1302	.1305	.1281	.1283		
10 P_t	663.2		652.2		604.2		448.2			
11 $P_t^2 \div 1000$	439.8	439.8	425.4	425.4	365.1	365.1	200.9	200.9		
12 F_t (Table XV)	9.230	9.210	9.250	9.220	9.300	9.280	9.470	9.450		
13 $F_c = F_t \cdot T$	.0831	.0829	.2405	.2397	1.479	1.475	1.941	1.931		
14 $F_c Q_m$	.0069	.0069	.0576	.0575	2.186	2.177	3.769	3.753		
15 $L/H (F_c Q_m)^2$	.0009	.0009	.0076	.0075	.2847	.2841	.4826	.4815		
16 $F_w = L/H(F_c Q_m)^2(1-e^{-s})$	439.8	439.8	425.4	425.4	365.3	365.3	201.4	201.4		
17 $P_w^2 = P_t^2 + F_w$	506.2	506.4	489.4	489.7	420.0	420.2	230.9	231.0		
18 $P_s^2 = e^s P_w^2$	711.5	711.6	699.6	699.8	644.1	648.2	480.6	480.6		
19 P_s	6873	6874	675.9	676.0	626.2	626.2	464.4	464.4		
20 $P = (\frac{P_t + P_s}{2})$	1.032	1.032	1.015	1.015	.9402	.9402	.6973	.6973		
21 $P_r = (P/P_{cr})$										
22 $T_r = (T/T_{cr})$	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57		
23 Z (Table XI)										

One copy to be filed in District Office (Work copy acceptable)

SUGGESTED FIELD DATA SHEET (Not Required to File)

WATER SAMPLE

Type Test: FLOW TEST [X] Initial FOUR POINT [ ] Annual [ ] Special	Test Date: 5-2-82
Company: TRANSWESTERN GAS SUPPLEY	Connection: AIR NEW WELL
Field: UNDESIGNED	Reservoir: ABO	Location:
Completion Date:	Total Depth: 3,982	Plug Back TD: 3,515	Elevation: 4,063 KB
Csg Size: 4-1/2	Wt.: 10.5	d: 4.058	Set At:	Perforations: From 2,888 To 3,008
Tbg Size: 2-3/8	Wt.: 4.7	d: 1.995	Set At: 2,772	Perforations: From OPEN To ENDED
Type Completion (Describe): SINGLE	Packer Set At: NONE
Producing Thru: TUBING	Reservoir Temp. F:	Mean Annual Temp. F: 60°	Baro. Press. P_a: 13.2
L	H	G_g	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps

1980 FNL	
1980 FEL	
Lease No. or Serial No.	
Allottee	
Unit	
Farm or Lease Name	MACHO STATE
Well No.	1
Sec. / Twp. Blk / Rge. Sur.	32 / 6S / 23E
County or Parish	CHAVES
State	NEW MEXICO

Date Time of Reading	Elapsed Time Hrs.	Wellhead Working Pressure Tbg. Psig.	Csg. Psig.	Temp. F	Meter Pressure Psig.	Diff.	Temp. F	Orifice	Remarks (Include liquids produced: Type, API, Gravity, Amount) MCFD
1330	0	680						.375	
1345	1/4	729			250	55	82	.375	99.5
1400	1/2	690			250	50	82	.375	
1415	3/4	662		72	250	50	80	.375	
1430	1	620		71	245	47	80	.375	91.1
1445	1-1/4	580		71	240	47	81	.375	
1500	1-1/2	565		70	240	45	82	.375	
1515	1-3/4	525		70	240	41	80	.375	
1530	2	497		71	240	37	80	.375	80.0
1545	2-1/4	455		70	240	37	80	.375	
1600	2-1/2	437		70	240	32	80	.375	
1615	2-3/4	405		70	240	34	80	.375	
1630	3	310		70	240	32	78	.375	74.4
1645	3-1/4	350		70	240	26	78	.375	
1700	3-1/2	327		70	240	22	78	.375	
1715	3-3/4	305		70	240	17	78	.375	
1730	4	272		69	240	12	76	.375	45.5
1745	4-1/4	235		69	210	7	76	.375	
1800	4-1/2	233		69	210	5	74	.375	
1815	4-3/4	231		69	210	5	74	.375	27.5
1830	5	230			210	4		.375	24.6
1845	5-1/4	229			210	4		.375	
1900	5-1/2	230			180	3.75		.375	
1915	5-3/4	230			150	3.75		.375	20.1
1930	6	220			145	3.75		.375	19.9
1945	6-1/4	226			90	3.		.375	13.9
2000	6-1/2	226		62	80	2.5	64	.375	
2015	6-3/4	223		62	78	2.5	64	.375	
2030	7	223		61	75	2.5	64	.375	11.6
2045	7-1/4	227		61	75	2.5	63	.375	
2100	7-1/2	230		61	75	2.5	63	.375	
2115	7-3/4	232		61	75	2.5	63	.375	
2130	8	232		61	75	2.5	63	.375	11.6
2145	8-1/4	234		61	78	2.3	63	.375	

Page ____ of ____ Data By ____________

SUGGESTED FIELD DATA SHEET (Not Required To File)

1980 FNL
1980 FEL

Type Test: FLOW TEST [X] Initial FOUR POINT [ ] Annual [ ] Special — Test Date: 5-2-82
Lease No. or Serial No.:

Company: TRANSWESTERN GAS SUPPLY — Connection: AIR NEW WELL
Allottee:

Field: UNDESIGNED — Reservoir: ABO — Location:
Unit:

Completion Date — Total Depth: 3,982 — Plug Back TD: 3,515 — Elevation: 4,063 KB
Farm or Lease Name: MACHO STATE

Csg. Size: 4-1/2 — Wt.: 10.5 — d: 4.058 — Set At: 2,888 — Perforations From: 3,008 — To:
Well No.: 1

Tbg. Size: 2-3/8 — Wt.: 4.7 — d: 1.995 — Set At: 2,772 — Perforations From: OPEN — To: ENDED
Sec.: 32 — Twp.: 6S — Rge.: 23E

Type Completion (Describe): SINGLE — Packer Set At: NONE
County or Parish: CHAVES

Producing Thru: TUBING — Reservoir Temp. °F — Mean Annual Temp. °F: 60° — Baro. Press. P_a: 13.2
State: NEW MEXICO

H — S_g — % CO_2 — % N_2 — % H_2S — Prover — Water Bbls. — Tc

Time of Reading	Hrs.	Wellhead Working Pressure: Tbg. Psig.	Csg. Psig.	Temp. °F	Meter Run Data: Pressure Psig.	Diff.	Temp. °F	Orifice	Remarks (Include any pertinent remarks)
									MCFD
2200	8-1/2	235		61	78	2.0	63	.375	10.6
2215	8-3/4	235		60	78	2.0	62	.375	
2230	9	250		60	30	2.0	62	.375	6.6
2245	9-1/4	253		60	5	2.0	62	.375	
2300	9-1/2	253		60	50	2.0	62	.375	
2315	9-3/4	253		60	80	2.0	62	.375	
2330	10	258		60	100	2.0	62	.375	12.0
2345	10-1/4	263		59	110	2.0	62	.375	
2400	10-1/2	267		58	115	2.0	62	.375	
2415	10-3/4	271		58	115	2.0	61	.375	
2430	11	275		57	115	2.0	60	.375	12.9
2445	11-1/4	278		57	110	2.0	59	.375	
0100	11-1/2	282		57	110	2.0	59	.375	
0115	11-3/4	285		57	108	2.0	59	.375	
0130	12	288		57	108	2.0	59	.375	12.5
0145	12-1/4	290		57	108	2.0	59	.375	
0200	12-1/2	294		56	105	1.7	58	.375	
0215	12-3/4	296		57	105	1.7	58	.375	
0230	13	298		58	105	1.7	58	.375	11.3
0245	13-1/4	301		58	105	1.7	58	.375	
0300	13-1/2	305		57	105	1.7	58	.375	
0315	13-3/4	306		57	105	1.7	58	.375	
0330	14	307		57	105	1.7	58	.375	11.3
0345	14-1/4	310		57	105	1.7	58	.375	
0400	14-1/2	315		57	105	1.7	59	.375	
0415	14-3/4	315		58	105	1.7	59	.375	11.3

Page ____ of ____ Initials ____

BENNET · CATHEY

(505) 748—3354 / Artesia, New Mexico 882..

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY TRANSWESTERN GAS SUPPLY WELL NAME MACHO STATE WELL NO. 1

DATE OF TEST 5-2-82 TO 5-3-82 FORMATION ABO

COMPANY MAN HANK SPRUILL

FOUR POINT INITIAL

CHART READINGS AND CALCULATIONS FOR BUILDUP OR DRAWDOWN TEST

ELEMENT NUMBER RPG3 #16150N RANGE 2,000 LBS.
CLOCK NUMBER 17425 RANGE 72 HOURS
TIME WELL SHUT IN 4-22-82
TIME CLOCK STARTED 1156
DEAD WEIGHT ELEMENT ON SURFACE 693 PSIA SHUT IN LBS.
TIME ELEMENT REACHED BOTTOM 1245 HOURS
DEAD WEIGHT ELEMENT ON BOTTOM 693 PSIA SHUT IN LBS.
ELEMENT SET AT 2,772 FEET.
TEMPERATURE 2,772 FT. 94 °F.
DEAD WEIGHT AT THE END OF HOURS MINUTES.

DATE	HOUR	TIME	DEFLECTION in/inches	CALCULATED PRESSURE psig	CORRECTION P ± PC psig	CORRECTED PRESSURE psia	PRESSURE AT M.D-POINT OF PERFORATIONS psia
5-2-82	SIP			902	13.2	915	
START TEST	0	1330		855	13.2	868	
	1/4	1345		817	13.2	830	
	1/2	1400		772	13.2	785	
	3/4	1415		735	13.2	748	
	1	1430		693	13.2	706	
	1-1/4	1445		664	13.2	677	
	1-1/2	1500		624	13.2	637	
	1-3/4	1515		594	13.2	607	
	2	1530		554	13.2	567	
	2-1/4	1545		522	13.2	535	
	2-1/2	1600		488	13.2	501	
	2-3/4	1615		452	13.2	465	
	3	1630		423	13.2	436	
	3-1/4	1645		396	13.2	409	
	3-1/2	1700		374	13.2	387	
	3-3/4	1715		353	13.2	366	
	4	1730		341	13.2	354	
	4-1/4	1745		339	13.2	352	
	4-1/2	1800		338	13.2	351	
	4-3/4	1815		337	13.2	350	
	5	1830		334	13.2	347	
	5-1/4	1845		332	13.2	345	
	5-1/2	1900		331	13.2	344	
	5-3/4	1915		333	13.2	346	
	6	1930		336	13.2	349	
	6-1/4	1945		342	13.2	355	
	6-1/2	2000		345	13.2	358	
	6-3/4	2015		358	13.2	371	
	7	2030		363	13.2	376	
	7-1/4	2045		367	13.2	380	
	7-1/2	2100		371	13.2	384	
	7-3/4	2115		377	13.2	390	
	8	2130		380	13.2	393	
	8-1/4	2145		382	13.2	395	
	8-1/2	2200		386	13.2	399	
	8-3/4	2215		385	13.2	398	

BENNETT WIRE LINE SERVICE
Artesia, New Mexico 88210

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY TRANSWESTERN GAS SUPPLY WELL NAME MACHO STATE WELL NO. 1
DATE OF TEST 5-2-82 - 5-3-82 LOCATION ABQ PAGE 2 OF 2

CHART READINGS AND CALCULATIONS FOR BUILDUP OR DRAWDOWN TEST

DATE	HOUR	TIME	DEFLECTION in/inches	CALCULATED PRESSURE psig	CORRECTION P ± PC psig	CORRECTED PRESSURE psig	PRESSURE AT MID-POINT OF PERFORATIONS psig
5-2-82	9	2230		379	13.2	392	
	9-1/4	2245		380	13.2	393	
	9-1/2	2300		393	13.2	406	
	9-3/4	2315		398	13.2	411	
	10	2330		404	13.2	417	
	10-1/4	2345		408	13.2	421	
	10-1/2	2400		413	13.2	426	
	10-3/4	2415		417	13.2	430	
	11	2430		421	13.2	434	
	11-1/4	2445		425	13.2	438	
5-3-82	11-1/2	0100		428	13.2	441	
	11-3/4	0115		432	13.2	445	
	12	0130		436	13.2	449	
	12-1/4	0145		439	13.2	452	
	12-1/2	0200		441	13.2	454	
	12-3/4	0215		444	13.2	457	
	13	0230		448	13.2	461	
	13-1/4	0245		449	13.2	462	
	13-1/2	0300		451	13.2	464	
	13-3/4	0315		456	13.2	469	
	14	0330		458	13.2	471	
	14-1/4	0345		459	13.2	472	
	14-1/2	0400		463	13.2	476	
	14-3/4	0415		458	13.2	481	

TEST DATE: [illegible]

TEST DEPTH: 2,772 FEET

ELEMENT NO.: RPG3 #16150N

RANGE: 2,000 LBS.

CLOCKS: 17425

RANGE: 72 HOURS

OPERATOR: DON BENNETT

Note: See Attached Sheet for Tabulation of Pressure And Time.

HANK SPRUILL

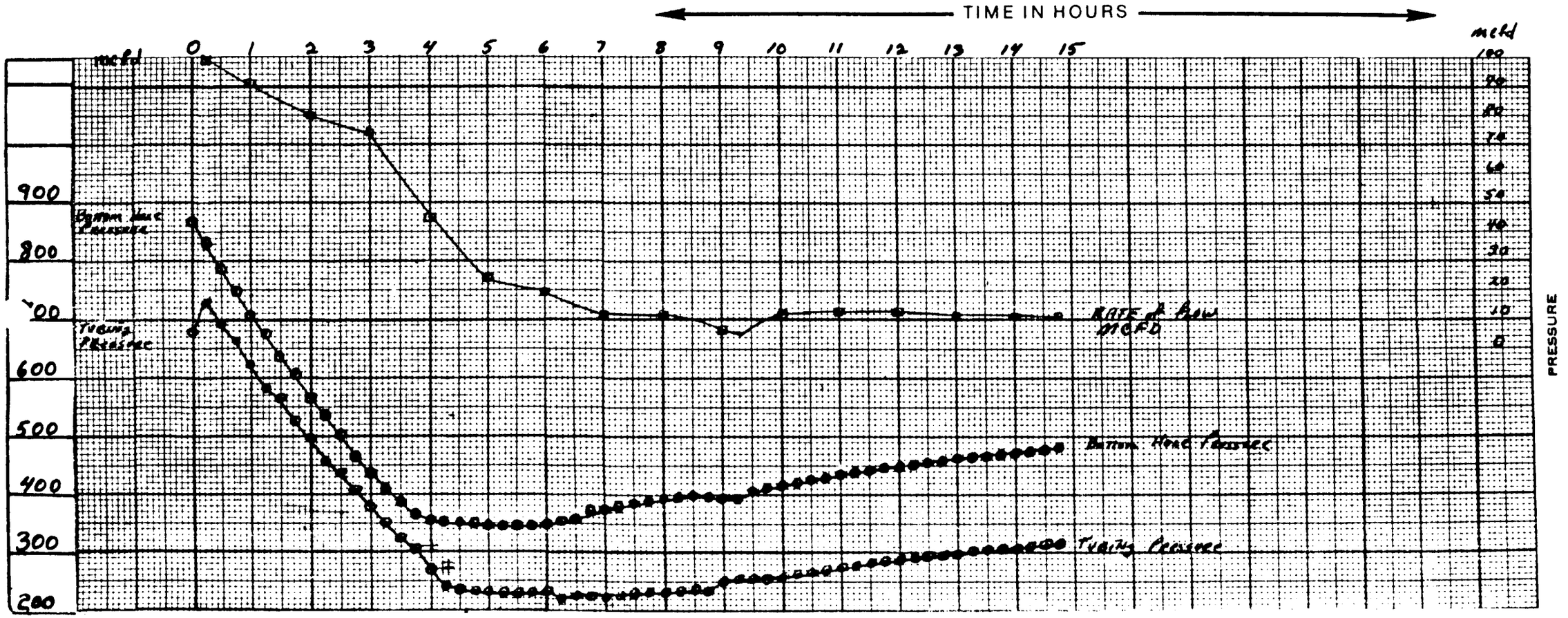
TRANSWESTERN GAS SUPPLY

MACHO STATE WELL NO. 1

BENNETT-CATHEY WIRE LINE SERVICE
Box 787 Artesia, N.M. 88210 505/746-3281

Drawn By Scale: As Shown

BENNETT-
CATHEY
WELL SERVICES



BENNET - CATHEY

(505) 748—3354 / Artesia, New Mexico 10

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY TRANSWESTERN GAS SUPPLY WELL NAME MACHO STATE WELL NO. 1

DATE OF TEST 5-2-82 TO 5-5-82 FORMATION ABO PAGE 1 OF 2

COMPANY MAN HANK SPRUILL

CHART READINGS AND CALCULATIONS FOR BUILDUP OR DRAWDOWN TEST

ELEMENT NUMBER RPG3 #16150N RANGE 2,000 LBS.

CLOCK NUMBER 17245 RANGE 72 HOURS

TIME WELL SHUT IN 0515 HOURS 5-3-82

TIME CLOCK STARTED 1156 HOURS 5-2-82

DEAD WEIGHT ELEMENT ON SURFACE 693 PSIA SHUT IN LBS.

TIME ELEMENT REACHED BOTTOM 1245 HOURS

DEAD WEIGHT ELEMENT ON BOTTOM 693 PSIA SHUT IN LBS.

ELEMENT SET AT 2,722 FEET.

TEMPERATURE 2,772 FT. 94 °F.

599 PSIA DEAD WEIGHT AT THE END OF 48 HOURS 15 MINUTES.

DATE	HOUR	TIME	DEFLECTION in inches	CALCULATED PRESSURE psig	CORRECTION P ± PC psig	CORRECTED PRESSURE psia	PRESSURE AT MID-POINT OF PERFORATIONS psia
5-3-82	0	0415		458	13.2	471	
	1/4	0430		461	13.2	474	
	1/2	0445		464	13.2	477	
	3/4	0500		466	13.2	479	
	1	0515		469	13.2	482	
	1-1/4	0530		471	13.2	484	
	1-1/2	0545		473	13.2	486	
	1-3/4	0600		476	13.2	489	
	2	0615		478	13.2	491	
	2-1/2	0645		482	13.2	495	
	3	0715		488	13.2	501	
	3-1/2	0745		492	13.2	505	
	4	0815		496	13.2	509	
	4-1/2	0845		490	13.2	513	
	5	0915		504	13.2	517	
	6	1015		511	13.2	524	
	7	1115		518	13.2	531	
	8	1215		525	13.2	538	
	9	1315		532	13.2	545	
	10	1415		537	13.2	550	
	11	1515		543	13.2	556	
	12	1615		549	13.2	562	
	14	1815		560	13.2	573	
	16	2015		569	13.2	582	
	18	2215		579	13.2	592	
	20	2415		587	13.2	600	
5-4-82	22	0212		594	13.2	607	
	24	0415		601	13.2	614	
	26	0615		607	13.2	620	
	28	0815		613	13.2	626	
	30	1015		619	13.2	632	
	32	1215		623	13.2	636	
	34	1415		629	13.2	642	
	36	1615		634	13.2	647	
	38	1815		638	13.2	651	
	40	1915		642	13.2	655	
	42	2015		647	13.2	660	
	44	2215		650	13.2	663	

BENNETT WIRE LINE SERVICE
Artesia, New Mexico 88210

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY TRANSWESTERN GAS SUPPLY WELL NAME MACHO STATE WELL NO. 1
DATE OF TEST 5-2-82 TO 5-5-82 LOCATION ABO PAGE 2 OF 2

CHART READINGS AND CALCULATIONS FOR BUILDUP OR DRAWDOWN TEST

DATE	HOUR	TIME	DEFLECTION in/inches	CALCULATED PRESSURE psig	CORRECTION P ± PC psig	CORRECTED PRESSURE psig	PRESSURE AT MID-POINT OF PERFORATIONS psig
5-4-82	46	2415		655	13.2	668	
5-5-82	48	0215		658	13.2	671	
	48-1/2	0230		659	13.2	672	

BENNETT-CATHEY WIRE LINE SERVICE
P. O. BOX 787
ARTESIA, NEW MEXICO 88210
Phone (505) 746-3281

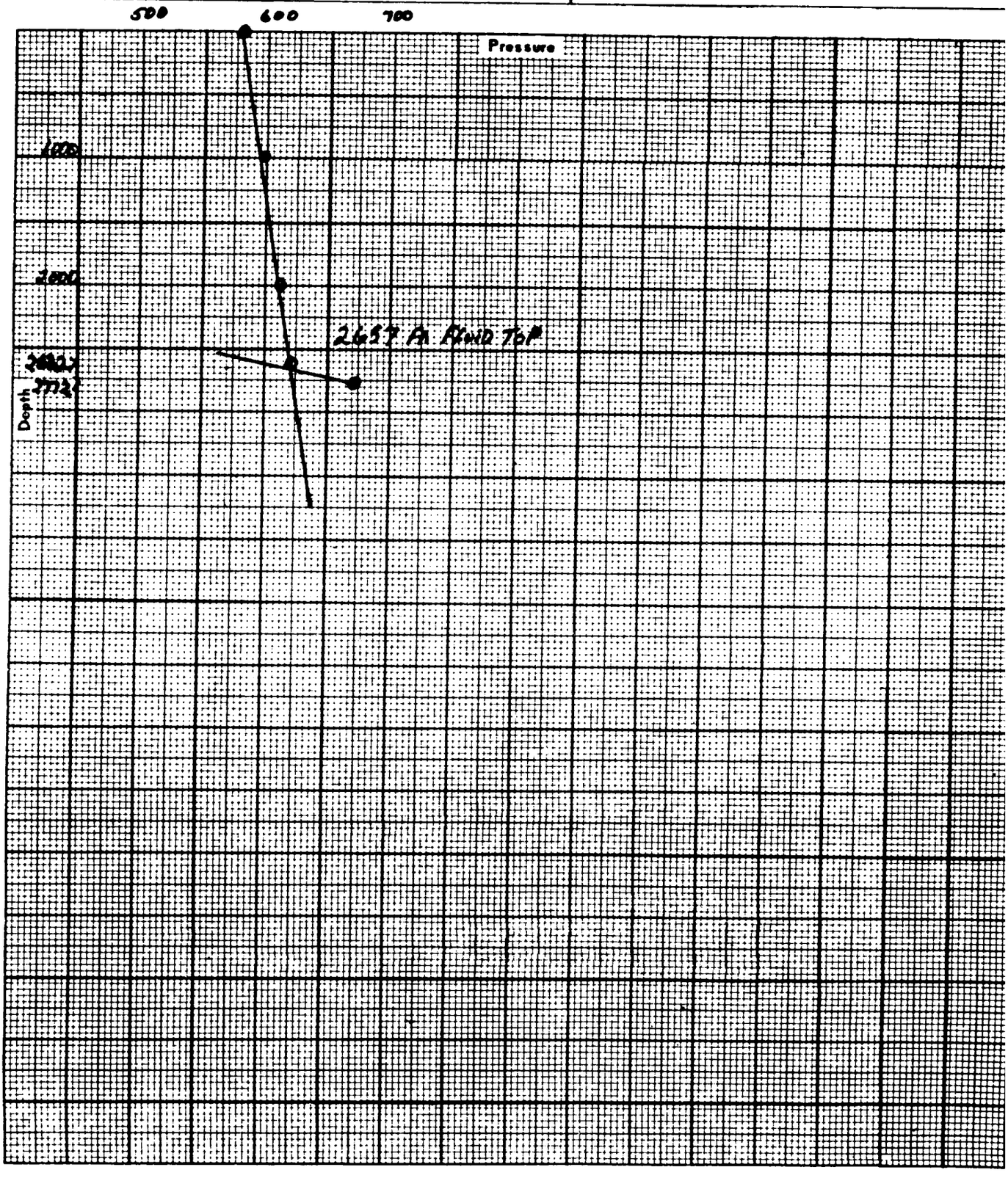
BOTTOM HOLE PRESSURE SURVEY REPORT

OPERATOR TRANSWESTERN GAS SUPPLY
LEASE MACHO STATE
WELL NO. 1
POOL _____ **FORMATION** ABO
DATE 5-5-82 **TIME** 1110 HOURS
CO. MAN HANK SPRUILL
STATUS SHUT IN **TEST DEPTH** 2,772 FEET
TIME S.I. 1615 HRS. 5-3-82 **LAST TEST DATE** 1ST TEST
BHP LAST TEST _____
TUB. PRES. 579 **BHP CHANGE** _____
CAS. PRES. _____ **FLUID TOP** _____
DATUM PLANE _____ **WATER TOP** _____
DATUM PSIA 672 **RUN BY** BOB HERREN
TEMP 94° **CLOCK #** 17245
PRESSURE RANGE 2,000 LBS.
ELEMENT NO. RPG3 #16150N

DEPTH	PRESSURE	GRADIENT
0	579	
1,000	598	1.9
2,000	613	1.5
2,622	623	1.6
2,772	672	32.7

TIME B.H.P. MEASURED: 1110 HOURS

LENGTH OF TIME WELL SHUT IN: 43 HRS 55 MIN.



TEST DATE: 9-2-82 TO 9-5-82

TEST DEPTH: 2,772 FEET

ELEMENT NO.: RPG3 #16150N

RANGE: 2,000 LBS.

CLOCKS: 17245

RANGE: 72 HOURS

OPERATOR: BOB HERREN

Note: See Attached Sheet for Tabulation of Pressure And Time.

HANK SPRUILL

TRANSWESTERN GAS SUPPLY

MACHO STATE WELL NO. 1

BENNETT-CATHEY WIRE LINE SERVICE
Box 787 Artesia, N.M. 88210 505/746-3281

Drawn By Scale: As Shown

BENNETT-
CATHEY
WELL SERVICES