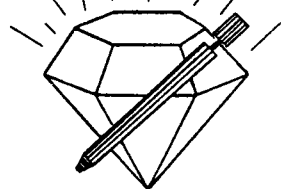


Computer Invented



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3-25-8w

CONFIDENTIAL

KCC DIAMOND TESTING

P. O. Box 157

RELEASED API #15-155-21268

OCT 29 HOISINGTON, KANSAS 67544

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JAN 11 1996

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Company Stelbar Oil/Grand Mesa Oper. Lease From Confidential File No. 2-3Elevation 1621 KB Formation Mississippi Effective Pay 11 Ft. Ticket No. 964Date 7-9-93 Sec. 3 Twp. 25S Range 8W County Reno State KansasTest Approved By Larry P. Friend Diamond Representative Roger D. FriedlyFormation Test No. 1 Interval Tested from 3,760 ft. to 3,771 ft. Total Depth 3,771 ft.Packer Depth 3,755 ft. Size 6 3/4 in. Packer Depth ft. Size in.Packer Depth 3,760 ft. Size 6 3/4 in. Packer Depth ft. Size in.Depth of Selective Zone Set Top Recorder Depth (Inside) 3,748 ft. Recorder Number 13386 Cap. 3,875 psiBottom Recorder Depth (Outside) 3,768 ft. Recorder Number 13498 Cap. 3,925 psiBelow Straddle Recorder Depth ft. Recorder Number Cap. Drilling Contractor Sterling Drlg Co. - Rig 4 Drill Collar Length 424 ft. I.D. 2 1/2 in.Mud Type Chemical Viscosity 55 Weight Pipe Length -- I.D. -- in.Weight 9.2 Water Loss 8.4 cc. Drill Pipe Length 3,309 ft. I.D. 3 1/2 in.Chlorides 5,000 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2-IF in.Jars: Make Bowen Serial Number Not Run Anchor Length 11 ft. Size 4 1/2-FH in.Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

1st Open: Strong blow. Off bottom of bucket in 30 secs. Gas to surface in 5 mins. 3 in. blow back during shut-in. (SEE GAS VOLUME REPORT)

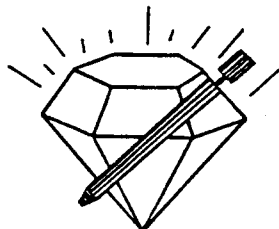
2nd Open: Strong blow. Off bottom of bucket immediately. Blow back off bottom of bucket during shut-in.

Recovered 164 ft. of clean gassy oil = .80688 bbls. (Gravity: 34° @ 60°)Recovered 66 ft. of mud cut oil = .32472 bbls. (Grind out: 5%-mud; 10%-water; 15%-gas; 70%-oil)Recovered 121 ft. of heavy oil cut mud = .59532 bbls. (Grind out: 44%-oil; 46%-gas; 6%-water; 4%-mud)Recovered 60 ft. of mud cut oil = .2952 bbls. (Grind out: 2%-mud; 10%-gas; 15%-water; 73%-oil)Recovered 61 ft. of heavy oil cut muddy water = .63468 bbls. (Grind out: 34%-oil; 15%-gas; 1%-mud; 50%-water)Recovered 71 ft. of mud cut oil = .84419 bbls. (Grind out: 2%-mud; 5%-water; 25%-gas; 68%-oil)Recovered 50 ft. of salt water = .5945 bbls.Recovered 593 ft. of TOTAL FLUID = 4.09549 bbls.Remarks Time Set Packer(s) 10:30 A.M. Time Started Off Bottom 2:30 P.M. Maximum Temperature 116°Initial Hydrostatic Pressure (A) 1838 P.S.I.Initial Flow Period Minutes 30 (B) 210 P.S.I. to (C) 180 P.S.I.Initial Closed In Period Minutes 60 (D) 1140 P.S.I.Final Flow Period Minutes 60 (E) 190 P.S.I. to (F) 200 P.S.I.Final Closed In Period Minutes 90 (G) 1109 P.S.I.Final Hydrostatic Pressure (H) 1827 P.S.I.

08-25-8

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FLUID SAMPLE DATA
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Company Stelbar Oil/Grand Mesa Oper.

FROM CONFIDENTIAL

Lease & Well No. Trembley No. 2-3

Date 7-9-93 Sec. 3 Twp. 25 S Range 8 W

Formation Test No. 1 Interval Tested From 3,760 ft. to 3,771 ft. Total Depth 3,771 ft.

Formation Mississippi

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>55</u> CP	<u>--</u> CP	
Weight	<u>9.2</u>	<u>--</u>	
Water Loss	<u>8.4</u> CC	<u>--</u> CC	
PH Factor	<u>11.5</u>	<u>--</u>	Water <u>7.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.07</u> @ <u>106</u> °F.	<u>70,000</u> ppm
Grindout Sample	<u>.07</u> @ <u>104</u> °F.	<u>73,000</u> ppm
Recovery Mud	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Mud Pit Sample	<u>.60</u> @ <u>103</u> °F.	<u>7,000</u> ppm
Mud Pit Sample Filtrate	<u>.66</u> @ <u>104</u> °F.	<u>6,000</u> ppm

Sample Taken By Roger D. Friedly

Witness By Larry P. Friend

Remarks Pit filtrate triton dish chlorides were 5,000 Ppm.
Recovery water dish chlorides were 74,000 Ppm.
Grindout sample chlorides were 72,000 Ppm.



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GAS VOLUME REPORT

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Company Stelbar Oil/Grand Mesa Oper. Lease & Well No. Trembley No. 2-3
Date 7-9-93 Sec. 3 Twp. 25 S Rgc. 8 W Location Sec (Irreg) County Reno State KS
Drilling Contractor Sterling Drlg Co. - Rig 4 Formation Mississippi DST No. 1
Remarks: 1st Open: Gas to surface in 5 mins.

RELEASED

Gas burns nicely.

JAN 11 1996

FROM CONFIDENTIAL

INITIAL FLOW

Open Tool: 10:30 a.m.

Time O'Clock	Orifice Size	Gauge	CF/D
10:40 a.m.	1 in.	1 psi	137,000
10:45 a.m.	1 in.	1½ psi	169,000
10:50 a.m.	1 in.	1 3/4 psi	182,000
10:55 a.m.	1 in.	1 3/4 psi	182,000
11:00 a.m.	1 in.	1 3/4 psi	182,000
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW

Open Tool: 12:00 p.m.

Time O'Clock	Orifice Size	Gauge	CF/D
12:10 p.m.	½ in.	25 psi	205,000
12:15 p.m.	½ in.	24½ psi	202,500
12:20 p.m.	½ in.	23½ psi	196,500
12:25 p.m.	½ in.	23½ psi	196,500
12:30 p.m.	½ in.	23½ psi	196,500
12:40 p.m.	½ in.	22½ psi	191,000
12:50 p.m.	½ in.	22 psi	189,000
1:00 p.m.	½ in.	21½ psi	186,000
	in.	in.	
	in.	in.	

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DIAMOND TESTING
CALCULATION OF FORMATION CHARACTERISTICS
FROM DST DATA

Page 4 of 8 Pages

FOR: STELBAR \ GRANDMESA
LEASE: TREMBLEY 2-3
LOCATION: 3-25S-8W
COUNTY: RENO, KANSAS
GAUGE DEPTH: 3748

DST #1
FORMATION: MISS
ELEVATION: 1621 KB
DATUM: -2127

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*****TEST PARAMETERS*****

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TEST INTERVAL: 3760 - 3771	POROSITY FRACTION: .38
INTERVAL TESTED: 11	VISCOSITY: 4.0 CP
EST PAY: 11	OIL GRAVITY: 35 @60 DEG.
TIME INTERVAL: 30 - 60 - 60 - 90	
INITIAL FLOW PRESS: 202.3- 187.7	TOTAL FT RECOVERY: 593 FT
FINAL FLOW PRESS: 145.9- 187.7	D.C. CAPACITY: 0.00492
	D.C. LENGTH: 424 FT
SHUT-IN PRESS(I-F): 1129.9-1097.7	W.P. CAPACITY: 0.00000
	W.P. LENGTH: 0 FT
BOTTOM HOLE TEMP.: 116 DEG F	D.P. CAPACITY: 0.01189
HOLE SIZE: 7.875	BBLs RECOVERY: 4.09417

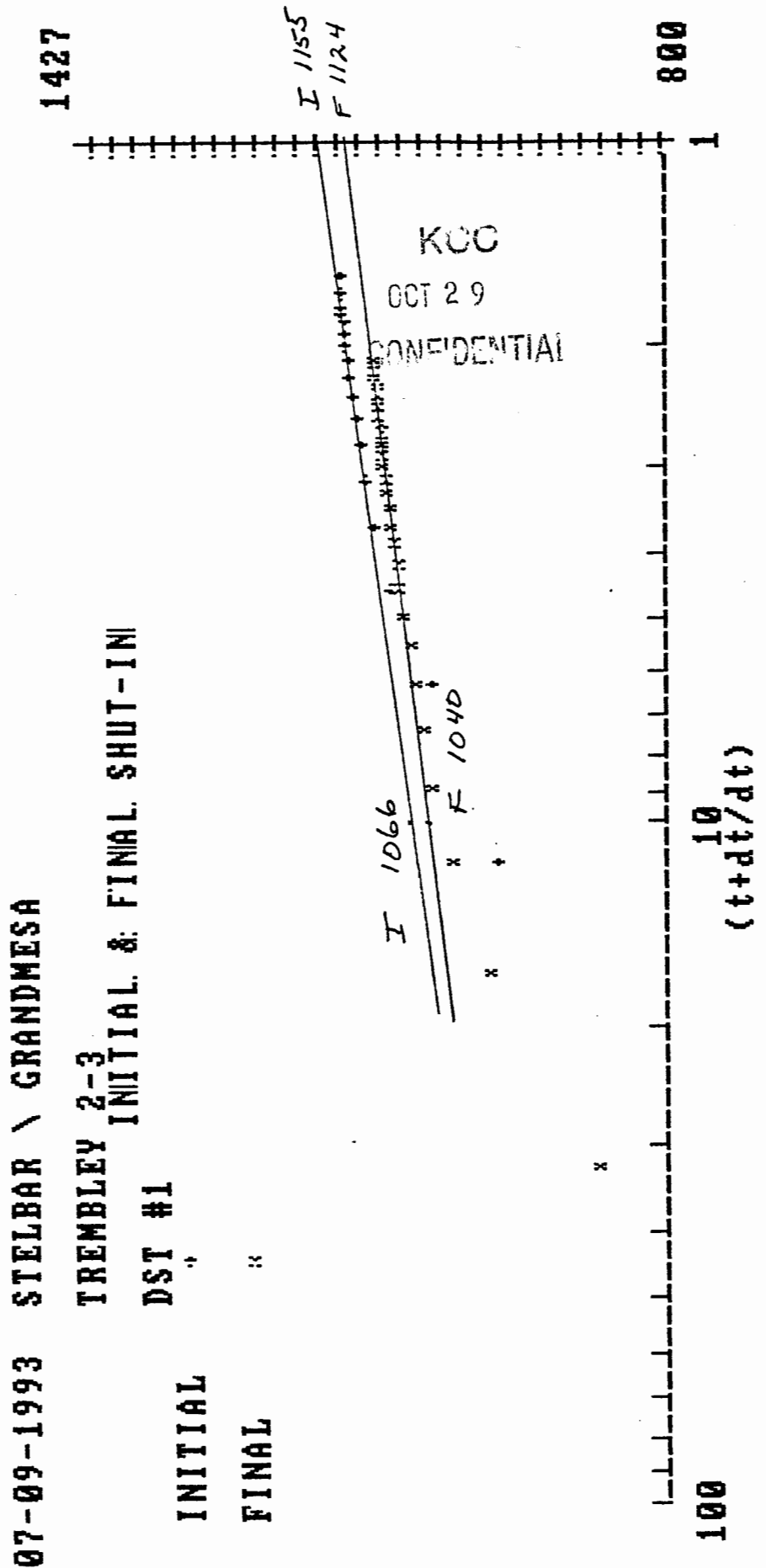
*****EXTRAPOLATED PRESSURE*****

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI): 1155
SLOPE (PSI-CYCLE): 89 POINTS USED: 10

EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI): 1124
SLOPE (PSI-CYCLE): 84 POINTS USED: 21

*****CALCULATIONS*****

PRODUCTION POTENTIAL (B/D)	:	65.51
TRANSMISSIBILITY (MD-FT/CP)	:	126.80
FLOW CAPACITY (MD.-FT.)	:	507.21
EFFECTIVE PERMEABILITY (MD)	:	46.11
PRODUCTIVITY INDEX (B/D/PSI)	:	0.0677
DAMAGE RATIO	:	2.040
SKIN FACTOR (S)	:	8.2
PRESSURE DROP DUE TO SKIN (PSI)	:	599.8
APPROXIMATE RADIUS OF INVESTIGATION (FT)	:	64.4
DRAWDOWN FACTOR (%)	:	2.684
POTENTIOMETRIC SURFACE (FT)	:	479.6



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LEASE:TREMBLEY 2-3

DST #:1

INITIAL SHUT-IN

Page 6 of 8 Pages

=====

RECORDER NO: 13386 DEPTH: 3748 FT.
INITIAL FLOW TIME: T = 30 MIN.

KCC

DT(MIN)	T+DT/DT	LOG((T+DT)/DT)	PRESS(PSIG) OCT 29
3	11.0000	1.041	971.7
6	6.0000	0.778	1036.4
9	4.3333	0.637	1077.3
12	3.5000	0.544	1093.8
15	3.0000	0.477	1103.6
18	2.6667	0.426	1109.4
21	2.4286	0.385	1113.3
24	2.2500	0.352	1116.2
27	2.1111	0.325	1119.2
30	2.0000	0.301	1121.1
33	1.9091	0.281	1123.1
36	1.8333	0.263	1125.0
39	1.7692	0.248	1126.0
42	1.7143	0.234	1127.9
45	1.6667	0.222	1128.9
48	1.6250	0.211	1129.9
51	1.5882	0.201	1129.9
54	1.5556	0.192	1129.9
57	1.5263	0.184	1129.9
60	1.5000	0.176	1129.9

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LEASE:TREMBLEY 2-3

DST #:1

FINAL SHUT-IN

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=====

RECORDER NO: 13386 DEPTH: 3748 FT.
TOTAL FLOW TIME: T = 90 MIN.

DT(MIN)	T+DT/DT	LOG((T+DT)/DT)	PRESS(P SIG)	KCC
=====				
3	31.0000	1.491	872.3	
6	16.0000	1.204	981.8	
9	11.0000	1.041	1021.8	
12	8.5000	0.929	1039.3	
15	7.0000	0.845	1051.0	
18	6.0000	0.778	1058.8	
21	5.2857	0.723	1063.6	
24	4.7500	0.677	1068.5	
27	4.3333	0.637	1073.4	
30	4.0000	0.602	1076.3	
33	3.7273	0.571	1079.2	
36	3.5000	0.544	1081.2	
39	3.3077	0.520	1083.1	
42	3.1429	0.497	1085.1	
45	3.0000	0.477	1087.0	
48	2.8750	0.459	1089.0	
51	2.7647	0.442	1089.9	
54	2.6667	0.426	1090.9	
57	2.5789	0.411	1091.9	
60	2.5000	0.398	1092.9	
63	2.4286	0.385	1093.8	
66	2.3636	0.374	1094.8	
69	2.3043	0.363	1095.8	
72	2.2500	0.352	1095.8	
75	2.2000	0.342	1096.8	
78	2.1538	0.333	1096.8	
81	2.1111	0.325	1097.7	
84	2.0714	0.316	1097.7	
87	2.0345	0.308	1097.7	
90	2.0000	0.301	1097.7	

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14/79/

07-09-1993

STELBAR \ GRANDMESA
LEASE: TREMBLEY 2-3
INITIAL FLOW
DST #:1

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Page 8 of 8 Pages

=====

RECORDER NO: 13386 DEPTH: FT.
INITIAL FLOW TIME: T = 30 MIN.

KCC

DT(MIN) PRESSURE(PSIG)

=====

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0	202.3
3	411.8
6	221.8
9	204.3
12	199.4
15	192.6
18	189.7
21	187.7
24	187.7
27	187.7
30	187.7

07-09-1993

STELBAR \ GRANDMESA
LEASE: TREMBLEY 2-3
FINAL FLOW
DST #:1

=====

RECORDER NO: 13386 DEPTH: FT.
FINAL FLOW TIME: T = 60 MIN.

DT(MIN) PRESSURE(PSIG)

=====

0	145.9
3	136.2
6	131.3
9	131.3
12	132.3
15	135.2
18	139.1
21	143.0
24	145.9
27	147.9
30	151.8
33	154.7
36	157.6
39	161.5
42	165.4
45	169.3
48	172.2
51	177.0
54	181.9
57	185.8
60	187.7

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DST #1 Inside 13386 3760-3771
Clock 4913 Miss Loc 3748

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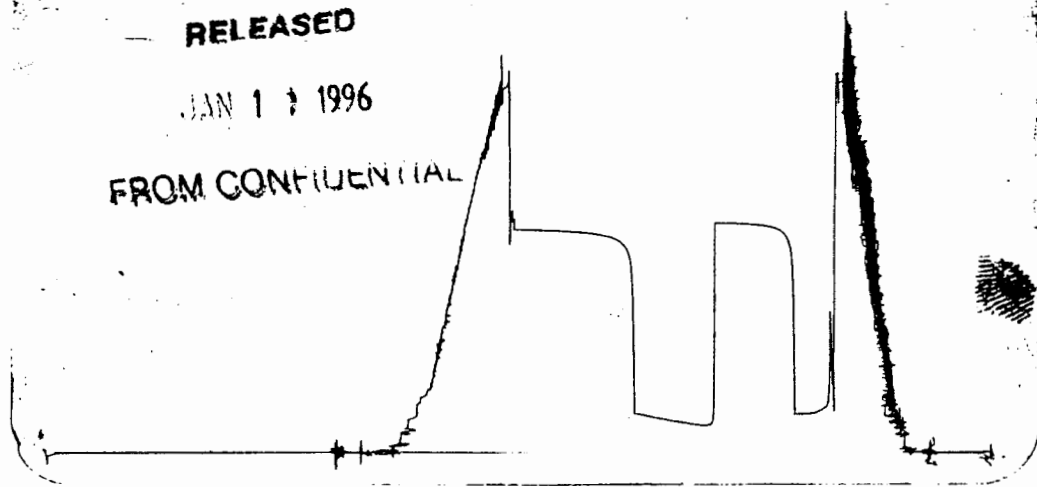
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This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1838	1829
(B) First Initial Flow Pressure.....	210	202
(C) First Final Flow Pressure	180	188
(D) Initial Closed-in Pressure	1140	1130
(E) Second Initial Flow Pressure.....	190	146
(F) Second Final Flow Pressure.....	200	188
(G) Final Closed-in Pressure.....	1109	1098
(H) Final Hydrostatic Mud.....	1827	1805

COMPANY Stelbar Oil/Grand Mesa Oper. LEASE AND WELL NO. Trembley No. 2-3 SEC. 3 TWP. 25S RGE. 8W TEST NO. 1 DATE 7-9-

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NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b¹	= Approximate Radius of Investigation (Net Pay Zone h ¹)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h¹	= Net Pay Thickness	Feet
K	= Permeability	md
K¹	= Permeability (From Net Pay Zone h ¹)	md
m	= Slope Extrapolated Pressure Plot (Psi ² /cycle Gas)	psi/cycle
OF¹	= Maximum Indicated Flow Rate	MCF/D
OF²	= Minimum Indicated Flow Rate	MCF/D
OF³	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF⁴	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P^S	= Extrapolated Static Pressure	Psig.
P^F	= Final Flow Pressure	Psig.
P^{OT}	= Potentiometric Surface (Fresh Water*)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q¹	= Theoretical Production w/Damage Removed	bbls/day
Q^g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r^w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t^o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
u	= Viscosity Gas or Liquid	CP
Log	= Common Log	

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* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

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