MARY SCHMIDT	1	3	GULF OIL CORPORATION	PRATT
LEASE	WELL NO.	TEST NO.	COMPANY	DISTRICT

Halliburton
OIL WELL CEMENTING CO.

LOCATION	28-29-18
FIELD	Greensburg
COUNTY	Kiowa
STATE	Kansas
CONTRACTOR	Falcon Seaboard

MUD DATA

Kind	Starch
Weight	9.9 lbs.-gal.
Viscosity	45 Sec.
Filter Loss	7.4 c. c. Filter Cake 2/32 in.
Est. Gauge Depth Temp.	138 F°
Time Tool Open	25 Minutes
Time Closed In.	20 Minutes-Initial 30 Minutes-Final
Depth BT. Gauge	4975'
BT. P. R. D. No.	536 Blanked Off no
12 Hr. Clock No.	2798

Pressure Readings	Field	Office Corrected
Initial Hydro Mud Pressure	2730	2726 p.s.i.
Initial Flow Pres.	810	QUESTIONABLE 763 p.s.i.
Final Flow Pres.	1070	1102 p.s.i.
Closed in Pres.	1640 INITIAL 1640 FINAL	1638 1637 p.s.i.
Final Hydro Mud Pressure	2730	2645 p.s.i.

HOLE AND TOOL DATA

Total Depth	5000'	Casing Perforations Top / Bottom	
Top Packer Depth	4985'	Bottom Packer Depth	-
Casing or Hole Size	7 7/8"	Liner or Rathole Size	7 7/8"
Formation Tested	Mississippi		
Size Drill Pipe	4½" API FH	Size Drill Collars	5" x 210'
Size Bottom Choke	3/4"	Size Surface Choke	1"
Size Hook Wall Packer	-	Size Rings -	No. Rings -
Size & Type Wall Packer	6 3/4" E.S.W.P.		No. Packers 1
Size & Length Anchor	5" x 15'		
PRD Device No.	1700 Depth 4996'		Blanked Off yes

REMARKS: Set packer, opened tool and took a 20 Minute Initial closed in pressure. Dropped bar, broke disc and received a good blow with gas to the surface in 5 minutes, gauged at 44,000 cubic feet. Flowed mud in 17 Minutes oil in 20 Minutes.

KBE 2241'

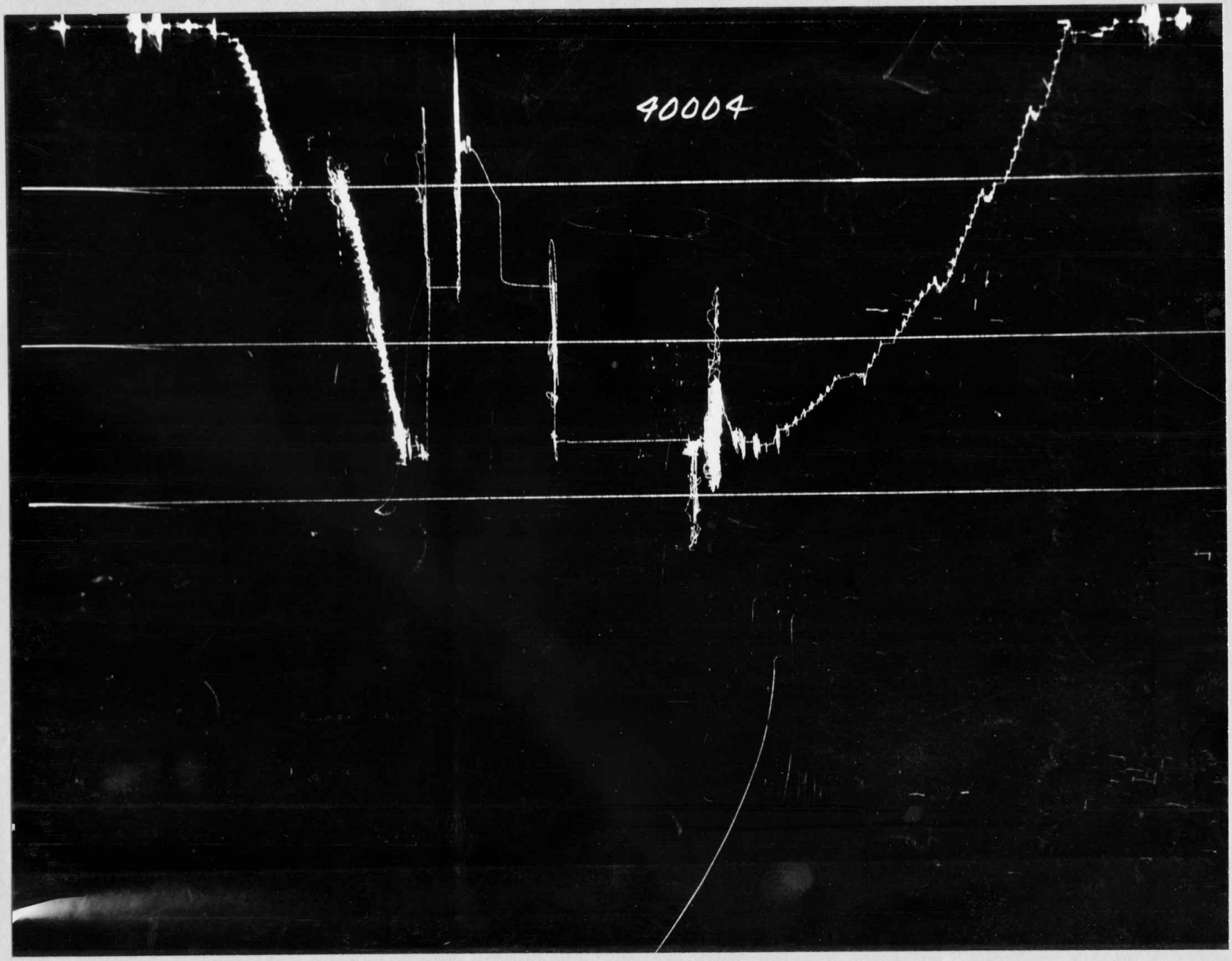
Amount of Cushion None

All depths measured from Kelly Bushing

Date	6-29-56
Ticket No.	40004
HOWCO DISTRICT	Pratt
Kind of Job	Open Hole
Price	$ 215.00
Second Packer Assembly	
Safety Joint	
Extra Folder Charge	
Jars	100.00
Total	$ 315.00
Witnessed By	Paul Smith
Tester	R.C. Kuhn

No. Folders Reproduced 5

TIME



PRESSURE

Each Horizontal Line Equal to 1000 p.s.i.

DST ANALYSIS REPORT

DATE 8-22-57 (6-29-56)

FILE NO. 45-18-1

Since the results of a test depend upon many factors and since tests are made for many purposes, the comments and conclusions below refer solely to the values of the test for pressure extrapolation by our techniques. This report is not intended to be either an endorsement or a criticism.

In the event that further analyses reveal additional information, an amended report will be submitted.

PETROLEUM RESEARCH CORPORATION

Gulf Oil Corporation Company	(29S-18W) 28 Location
Mary Schmidt Lease	Kiowa / Kansas County / State
#1 / #3 4985'-5000' Well / Test	KB: 2241' / 4975' Elevation / Gauge Depth

EXTRAPOLATED PRESSURE = 1638 ± ? psi

POTENTIOMETRIC SURFACE = 1080 ± 100 ft

EFFECTIVE TRANSMISS. = 21533 md ft/cp

AVERAGE PERMEABILITY (Viscosity estimated from reported recovery) = ____ md

PRODUCTIVITY INDEX = 10.9 B/D / psi

DAMAGE RATIO = 2.24

DAMAGE EFFECT = ____ none ____ slight ____ moderate ____ strong ____ indeterminate

____ Extrapolated pressure indefinite.

____ Closed-in time insufficient.

x Reported pressures disagree with chart.

____ Build-up curve susceptible to mud leakage.

x Mud pressure from chart does not agree with mud pressure calculated from reported mud weight.

____ Extrapolated initial & final closed-in pressures disagree.

____ Insufficient data reported.

____ Chart is unusable.

____ Insufficient air-chamber, or leakage into air-chamber, for initial closed-in time.

____ Initial closed-in time too short for section tested and air-chamber provided.

____ Closed-in pressure not taken.

____ Formation fluid insufficiently sampled.

____ Possibility of nearby barrier.

____ Clock slippage indicated.

____ Gauge friction indicated.

____ Tool disturbance indicated.

____ Plugging indicated.

Company GULF OIL CORPORATION Date 6-20-56

Lease MARY SCHMIDT Well No. 1 Ticket No. 40004

Test No. 3

	Time	PSI
Initial Hydro Mud Pressure		2726
Initial Closed In Pressure	20 Min.	1638
Initial Flow		Questionable 763
Final Flow	25 Min.	1102
Final Closed In Pressure	30 Min.	1637
Final Hydro Mud Pressure		2645

Total Depth 5000'

Packer Depth 4985'

BT No. 536 Depth 4975'

12 Hr. Clock No. 2798

Temperature Corrected to 138 ° F.

	Initial CIP			Flow Pressure			Final CIP		
	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.
P0	.000	.321	523	.000	Questionable .470	763	.000	.681	1102
P1	.0135	1.014	1638	.032	.485	787	.022	.998	1613
P2	.027	1.014	1638	.064	.483	784	.044	1.004	1622
P3	.0405	1.014	1638	.096	.538	873	.066	1.007	1627
P4	.054	1.014	1638	.128	.608	985	.088	1.009	1630
P5	.0675	1.014	1638	.160	.681	1103	.110	1.010	1632
P6	.081	1.014	1638				.132	1.012	1635
P7	.0945	1.014	1638				.154	1.012	1635
P8	.108	1.014	1638				.176	1.013	1637
P9	.1215	1.014	1638				.198	1.013	1637
P10	.135	1.014	1638				.220	1.013	1637
	2 Minute Intervals			5 Minute Intervals			3 Minute Intervals		

Remarks:

SANDEFER 6959 2½M 12-55

MARY SCHMIDT	1	4	GULF OIL CORPORATION	PRATT
LEASE	WELL NO.	TEST NO.	COMPANY	DISTRICT

Halliburton
OIL WELL CEMENTING CO.

LOCATION	Sec. 28 - 29 - 18
FIELD	Greensburg
COUNTY	Kiowa
STATE	Kansas
CONTRACTOR	Falcon - Seaboard

MUD DATA

Kind	Starch
Weight	9.9 lbs.-gal.
Viscosity	45 Sec.
Filter Loss	7.4 c. c. Filter Cake 2/32 in.
Est. Gauge Depth Temp.	Calculated 120 F°
Time Tool Open	65 Minutes
Time Closed In.	20 Minutes Initial 30 Minutes Final
Depth BT. Gauge	4990'
BT. P. R. D. No.	536
Blanked Off	No
12 Hr. Clock No.	2798

Pressure Readings	Field	Office Corrected	
Initial Hydro Mud Pressure	2570	2652	p.s.i.
Initial Flow Pres.	100	107	p.s.i.
Final Flow Pres.	505	505	p.s.i.
Closed in Pres.	1630 1610	1656 - 1619 -	p.s.i.
Final Hydro Mud Pressure	2570	2652	p.s.i.

HOLE AND TOOL DATA

Total Depth	5015'	Casing Perforations Top	
		Bottom	
Top Packer Depth	5000'	Bottom Packer Depth	-
Casing or Hole Size	7 7/8"	Liner or Rathole Size	-
Formation Tested	Mississippi		
Size Drill Pipe	4½" API FH	Size Drill Collars	6" x 210'
Size Bottom Choke	3/4"	Size Surface Choke	1"
Size Hook Wall Packer	-	Size Rings -	No. Rings -
Size & Type Wall Packer	6 3/4" E.S.A.		No. Packers 1
Size & Length Anchor	5" x 15'		
PRD Device No.	1700'	Depth 5010'	Blanked Off Yes

Date	6-21-56
Ticket No.	40005
HOWCO DISTRICT	Pratt, Kansas
Kind of Job	Open Hole Test
Price	$215.00
Second Packer Assembly	
Safety Joint	
Extra Folder Charge	
Jars	100.00
Total	$315.00
Witnessed By	Paul Smith
Tester	R. C. Kuhn

REMARKS: Set packer, opened tool and took a 20 minute closed in pressure. Dropped bar and broke disc and received a good blow with gas to surface in 8 minutes - not enough to gauge. Recovered 360' of heavily oil & gas cut mud, 360' of gassy oil and 480' of salt water.

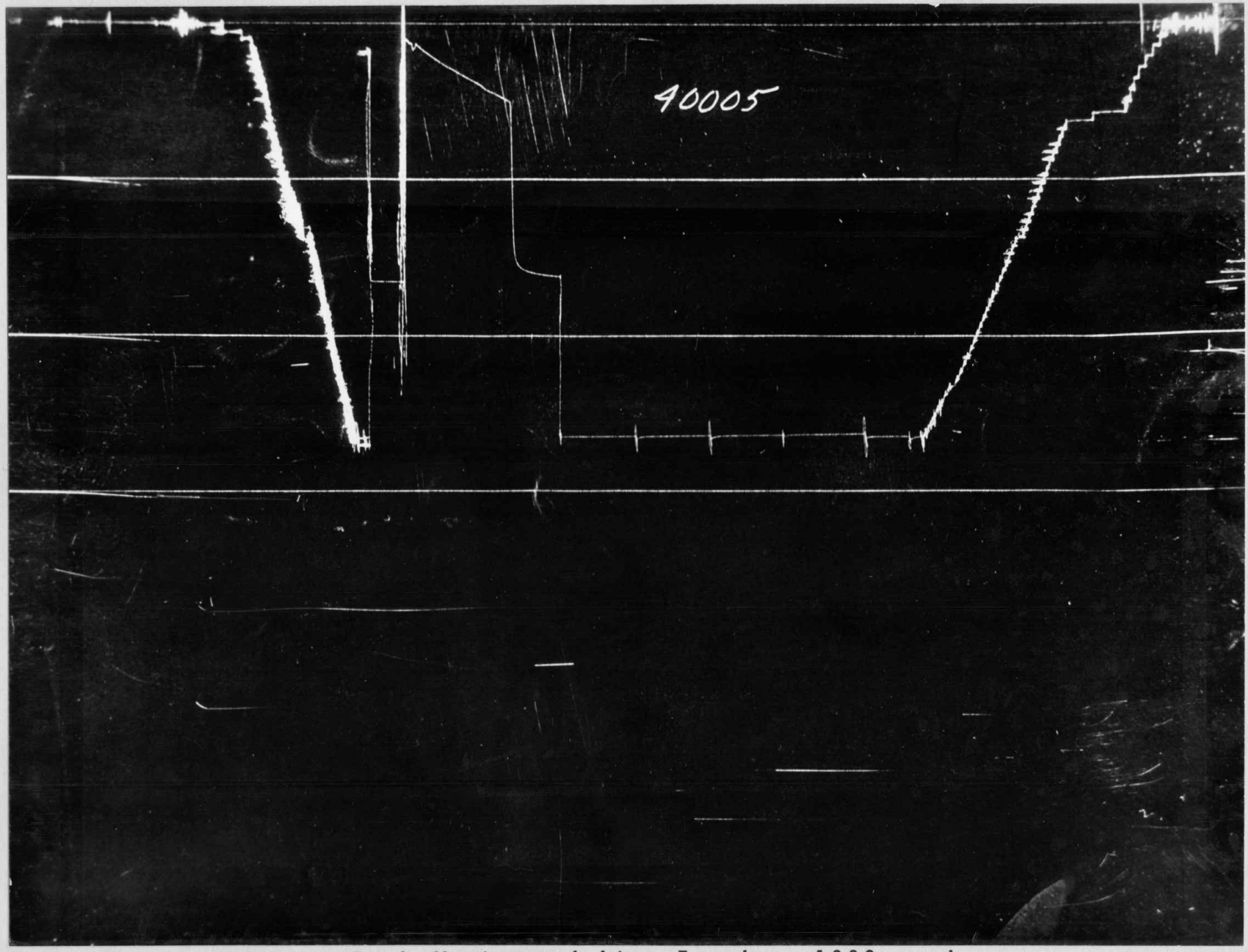
KBE 2241'

Initial
Final

Amount of Cushion None All depths measured from Kelly Bushing No. Folders Reproduced 5

HOWCO 803 R2 25M 100M (Printed in U. S. A.) Southwestern 4806E

TIME



PRESSURE

Each Horizontal Line Equal to 1000 p.s.i.

D S T ANALYSIS REPORT

DATE 8-22-57 (6-21-56)

FILE NO. 45-18-2

Since the results of a test depend upon many factors and since tests are made for many purposes, the comments and conclusions below refer solely to the values of the test for pressure extrapolation by our techniques. This report is not intended to be either an endorsement or a criticism.

In the event that further analyses reveal additional information, an amended report will be submitted.

PETROLEUM RESEARCH CORPORATION

Gulf Oil Corporation Company		(29S-18W) 28 Location	
Mary Schmidt Lease		Kiowa County	Kansas State
#1 Well	#4 5000'-5015' Test	KB: 2241' Elevation	4990' Gauge Depth

EXTRAPOLATED PRESSURE = 1656 ±? psi

POTENTIOMETRIC SURFACE = 1110 ±50 ft

EFFECTIVE TRANSMISS. = 740 md ft/cp

AVERAGE PERMEABILITY (Viscosity estimated from reported recovery) = ... md

PRODUCTIVITY INDEX = 0.300 B/D / psi

DAMAGE RATIO = 2.78

DAMAGE EFFECT = ... none ..... slight ..... x moderate ..... strong ..... x indeterminate

..... Extrapolated pressure indefinite.

..... Closed-in time insufficient.

..... Reported pressures disagree with chart.

..... Build-up curve susceptible to mud leakage.

..... Mud pressure from chart does not agree with mud pressure calculated from reported mud weight.

..... Extrapolated initial & final closed-in pressures disagree.

..... Insufficient data reported.

..... Chart is unusable.

..... Insufficient air-chamber, or leakage into air-chamber, for initial closed-in time.

..... Initial closed-in time too short for section tested and air-chamber provided.

..... Closed-in pressure not taken.

..... Formation fluid insufficiently sampled.

..... Possibility of nearby barrier.

..... Clock slippage indicated.

..... Gauge friction indicated.

..... Tool disturbance indicated.

..... Plugging indicated.

Company GULF OIL CORPORATION Date 6-21-56

Lease MARY SCHMIDT Well No. 1 Ticket No. 40005

Test No. 4

	Time	PSI
Initial Hydro Mud Pressure		2652
Initial Closed In Pressure	20 Min.	1656
Initial Flow		107
Final Flow	65 Min.	505
Final Closed In Pressure	30 Min.	1619
Final Hydro Mud Pressure		2652

Total Depth 5015'

Packer Depth 5000'

BT No. 536 Depth 4990'

12 Hr. Clock No. 2798

Temperature Corrected to Calc. 120 ° F.

	Initial CIP			Flow Pressure			Final CIP		
	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.	Time Defl. .000"	PSI Defl. .000"	PSI Temp. Corr.
P0	.000	.105	171	.000	.066	107	.000	.310	505
P1	.0135	1.024	1654	.1005	.120	195	.0205	.935	1511
P2	.027	1.024	1654	.201	.181	295	.041	.968	1564
P3	.0405	1.025	1656	.3015	.236	384	.0615	.978	1580
P4	.054	1.025	1656	.402	.251	409	.082	.985	1592
P5	.0675	1.025	1656	.436 *	.310	505	.1025	.990	1600
P6	.081	1.025	1656				.123	.993	1605
P7	.0945	1.025	1656				.1435	.997	1611
P8	.108	1.025	1656				.164	.998	1613
P9	.1215	1.025	1656				.1845	1.000	1616
P10	.135	1.025	1656				.205	1.002	1619
	2 Minute Intervals			15 Minute Intervals			3 Minute Intervals		

Remarks: * Last interval of flow time is not equal to a full 15 minute interval.