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WESTERN TEST SERVICES

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Kansas Oil Corporation Lease & Well No. Shiner #2

Elevation 2575 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 2465

Date 7/13/79 Sec. 13 Twp. 18S Range 26W County Ness State Kansas

Test Approved by Greg Cheney Western Representative Roger Lisenby

Formation Test No. 1 Interval Tested from 4474 ft. to 4487 ft. Total Depth 4487 ft.

Packer Depth	4469 ft. Size 6 3/4 in.	Packer Depth	4474 ft. Size 6 3/4 in.
Packer Depth	-- ft. Size -- in.	Packer Depth	-- ft. Size -- in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside)	4479 ft.	Recorder Number 1051	Cap. 4250
Bottom Recorder Depth (Outside)	4482 ft.	Recorder Number 969	Cap. 4200
Below Straddle Recorder Depth	- ft.	Recorder Number -	Cap. -

Drilling Contractor DNB Drilling Rig #2 Drill Collar Length -- I. D. -- in.

Mud Type premix Viscosity 59 Weight Pipe Length 757 I. D. 3.4 in.

Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 3696 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½ in.

Jars: Make -- Serial Number -- Anchor Length 13 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Weak blow;died in six minutes of first opening. No blow second opening; waited five minutes, flushed tool--still no blow.

Recovered 3 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:07 ~~A.M.~~ P.M. Time Started Off Bottom 1:10 A.M. ~~P.M.~~ Maximum Temperature 128

Initial Hydrostatic Pressure		(A) 2250 P.S.I.		
Initial Flow Period	Minutes 30	(B) 43 P.S.I.	to (C) 34 P.S.I.	
Initial Closed In Period	Minutes 30	(D) 28 P.S.I.		
Final Flow Period	Minutes 30	(E) 32 P.S.I.	to (F) 39 P.S.I.	
Final Closed In Period	Minutes 30	(G) 34 P.S.I.		
Final Hydrostatic Pressure		(H) 2200 P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

7/13/79 — Test Ticket No. 2465

order No. 1051 — Capacity 4250 — Location 4479 Ft.

ck No. -- — Elevation 2575 Kelly Bushing — Well Temperature 128 °F

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	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	2250 P.S.I.	Open Tool	11:07P M	
First Initial Flow Pressure	43 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
First Final Flow Pressure	34 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	28 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
Second Initial Flow Pressure	32 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
Second Final Flow Pressure	39 P.S.I.			
Final Closed-in Pressure	34 P.S.I.			
Final Hydrostatic Mud	2200 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

oint ins.	Press.
1 0	43
2 5	41
3 10	34
4 15	34
5 20	34
6 25	34
7 30	34
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	

Initial Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	34
3	30
6	30
9	30
12	30
15	30
18	30
21	28
24	28
27	28
30	28

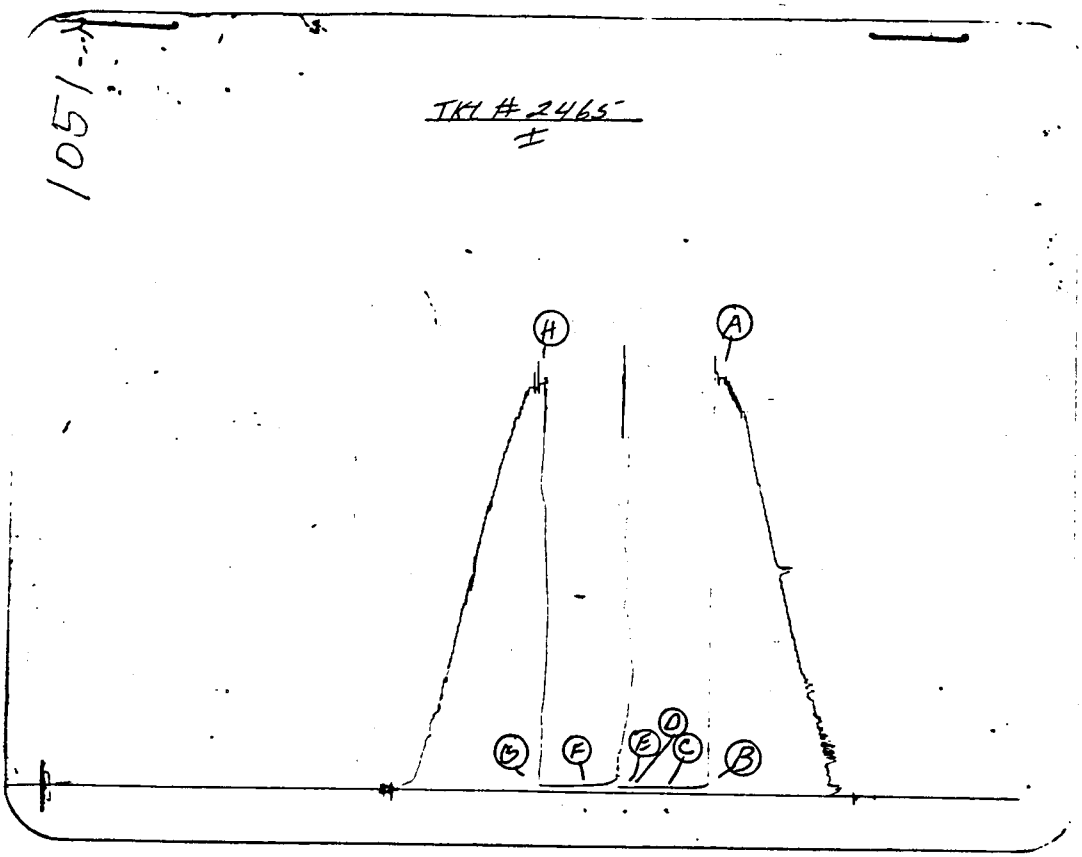
Second Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	32
5	32
10	flushed tool 47
15	49
20	43
25	41
30	39

Final Shut-In
Breakdown: 10 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	39
3	38
6	36
9	34
12	34
15	34
18	34
21	34
24	34
27	34
30	34

COMPANY KANSAS OIL CORPORATION #153 LEASE AND WELL NO. SHINER #2 SEC. 13 TWP. 18S RGE. 26W TEST NO. 1 DATE



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2230	2250	PSI
(B)	First Initial Flow Pressure	43	43	PSI
(C)	First Final Flow Pressure	43	34	PSI
(D)	Initial Closed-in Pressure	32	28	PSI
(E)	Second Initial Flow Pressure	43	32	PSI
(F)	Second Final Flow Pressure	43	39	PSI
(G)	Final Closed-in Pressure	32	34	PSI
(H)	Final Hydrostatic Mud	2166	2200	PSI

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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Kansas Oil Corporation Lease & Well No. Shiner #2

Elevation 2575 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 2466

Date 7/14/79 Sec. 13 Twp. 18S Range 26W County Ness State Kansas

Test Approved by Greg Cheney Western Representative Roger Lisenby

Formation Test No. 2 Interval Tested from 4487 ft. to 4493 ft. Total Depth 4493 ft.

Packer Depth 4482 ft. Size 6 3/4 in. Packer Depth 4487 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4472 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 4475 ft. Recorder Number 969 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DNR Drilling Rig #2 Drill Collar Length -- I. D. -- in.

Mud Type premix Viscosity 59 Weight Pipe Length 757 I. D. 3.4 in.

Weight 9.2 Water Loss 11.2 cc. Drill Pipe Length 3702 I. D. 3.8 in.

Chlorides 10,000 P.P.M. Test Tool Length 28 ft. Tool Size 5½ in.

Jars: Make -- Serial Number -- Anchor Length 6 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Weak blow throughout first opening. Very weak blow through second opening.

Recovered 10 ft. of oil cut mud (6% oil)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:12 ~~A.M.~~ P.M. Time Started Off Bottom 3:14 ~~A.M.~~ P.M. Maximum Temperature 131

Initial Hydrostatic Pressure		(A) 2232 P.S.I.			
Initial Flow Period	Minutes 30	(B) 54 P.S.I.	to (C)	49	P.S.I.
Initial Closed In Period	Minutes 45	(D) 789 P.S.I.			
Final Flow Period	Minutes 45	(E) 65 P.S.I.	to (F)	52	P.S.I.
Final Closed In Period	Minutes 60	(G) 789 P.S.I.			
Final Hydrostatic Pressure		(H) 2168 P.S.I.			

Pressure Data

Date 7/14/79 Test Ticket No. 2466

Recorder No. 1051 Capacity 4250 Location 4472 F

Clock No. -- Elevation 2575 Kelly Bushing Well Temperature 131 °

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2232 P.S.I.		Open Tool	12:12P M	
B	First Initial Flow Pressure	54 P.S.I.		First Flow Pressure	30 Mins.	30 Min
C	First Final Flow Pressure	49 P.S.I.		Initial Closed-in Pressure	45 Mins.	45 Min
D	Initial Closed-in Pressure	789 P.S.I.		Second Flow Pressure	45 Mins.	45 Min
E	Second Initial Flow Pressure	65 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Min
F	Second Final Flow Pressure	52 P.S.I.				
G	Final Closed-in Pressure	789 P.S.I.				
H	Final Hydrostatic Mud	2168 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	54
P 2	5	52
P 3	10	49
P 4	15	49
P 5	20	49
P 6	25	49
P 7	30	49
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	49
3	43
6	47
9	99
12	286
15	474
18	574
21	625
24	676
27	710
30	729
33	741
36	753
39	764
42	776
45	789

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	65
5	65
10	60
15	56
20	56
25	56
30	56
35	56
40	56
45	52

Final Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	52
3	49
6	51
9	56
12	69
15	118
18	228
21	370
24	498
27	576
30	634
33	674
36	706
39	723
42	742
45	755
48	762
51	769
54	775
57	782

COMPANY KANSAS OIL CORPORATION #/53 LEASE AND WELL NO. SHINER #2 SEC. 13 TWP. 18S RGE. 26W TEST NO. 2 DATE 7/14

TKT# 2466
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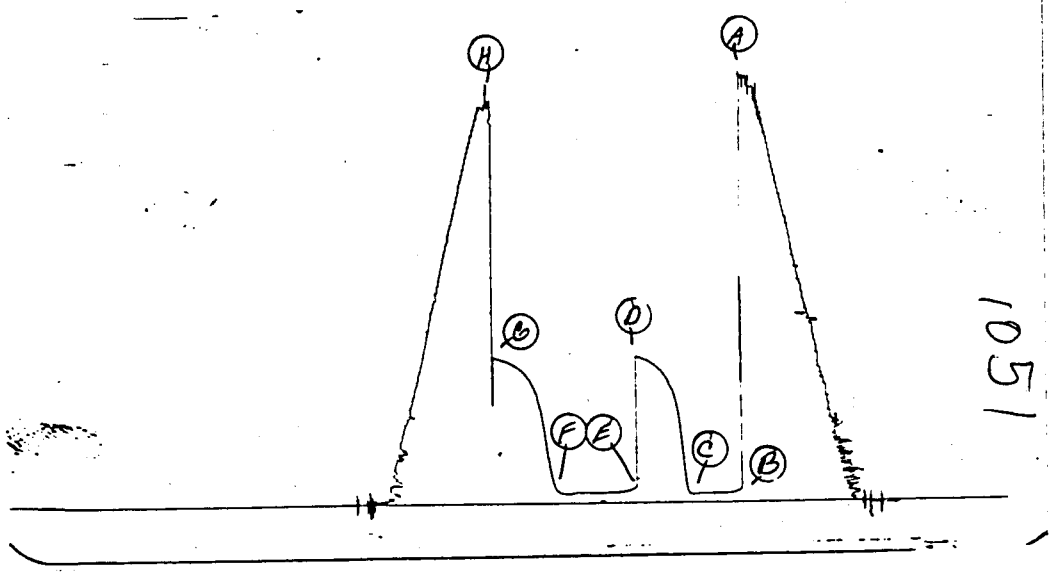

1051

This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2219	2232	PSI
(B)	First Initial Flow Pressure	64	54	PSI
(C)	First Final Flow Pressure	43	49	PSI
(D)	Initial Closed-in Pressure	782	789	PSI
(E)	Second Initial Flow Pressure	64	65	PSI
(F)	Second Final Flow Pressure	53	52	PSI
(G)	Final Closed-in Pressure	772	789	PSI
(H)	Final Hydrostatic Mud	2144	2168	PSI

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WESTERN

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Kansas Oil Corporation Lease & Well No. Shiner #2

Elevation 2575 Kelly Bushing Formation Mississippi Effective Pay - Ft. Ticket No. 2467

Date 7/15/79 Sec. 13 Twp. 18S Range 26W County Ness State Kansas

Test Approved by Greg Cheney Western Representative Roger Lisenby

Formation Test No. 3 Interval Tested from 4487 ft. to 4498 ft. Total Depth 4498 ft.

Packer Depth 4482 ft. Size 6 3/4 in. Packer Depth 4487 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4490 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 4493 ft. Recorder Number 969 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DNB Drilling Rig #2 Drill Collar Length - I. D. - in.

Mud Type premix Viscosity 47 Weight Pipe Length 757 I. D. 3.4 in.

Weight 9.5 Water Loss 11.0 cc. Drill Pipe Length 3708 I. D. 3.8 in.

Chlorides 9,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½ in.

Jars: Make - Serial Number - Anchor Length 11 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: WEak blow throughout first opening. Very weak blow through second opening.

Recovered 80 ft. of fluid

Recovered 5 ft. of free oil on top

Recovered 75 ft. of oil cut mud (6% oil, 94% oil specked mud)

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 3:15 A.M. P.M. Time Started Off Bottom 6:03 A.M. P.M. Maximum Temperature 133

Initial Hydrostatic Pressure ..... (A) 2316 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 75 P.S.I. to (C) 58 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 817 P.S.I.

Final Flow Period ..... Minutes 45 (E) 86 P.S.I. to (F) 65 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 804 P.S.I.

Final Hydrostatic Pressure ..... (H) 2173 P.S.I.

[illegible] TESTING CO., INC.

Pressure Data

Date 7/15/79 Test Ticket No. 2467

Recorder No. 1051 Capacity 4250 Location 4490

Clock No. -- Elevation 2575 Kelly Bushing Ft. Well Temperature 133 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2316	P.S.I.
B	First Initial Flow Pressure	75	P.S.I.
C	First Final Flow Pressure	58	P.S.I.
D	Initial Closed-in Pressure	817	P.S.I.
E	Second Initial Flow Pressure	86	P.S.I.
F	Second Final Flow Pressure	65	P.S.I.
G	Final Closed-in Pressure	804	P.S.I.
H	Final Hydrostatic Mud	2173	P.S.I.

	Time Given	Time Computed
Open Tool	3:15A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	45 Mins.	45 Mins.
Second Flow Pressure	45 Mins.	45 Mins.
Final Closed-in Pressure	45 Mins.	45 Mins.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
1 0	75
2 5	73
3 10	65
4 15	58
5 20	58
6 25	58
7 30	58

Initial Shut-In

Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	58
3	258
6	528
9	653
12	704
15	734
18	759
21	774
24	783
27	793
30	798
33	802
36	808
39	812
42	815
45	817

Second Flow Pressure

Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	86
5	80
10	71
15	69
20	68
25	67
30	67
35	66
40	65
45	65

Final Shut-In

Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	65
3	71
6	80
9	155
12	332
15	485
18	600
21	676
24	710
27	738
30	755
33	766
36	776
39	785
42	793
45	804

COMPANY KANSAS OIL CORPORATION #153

LEASE AND WELL NO. SHINER #2

SEC. 13 TWP. 18S RGE. 26W

TEST NO. 3 DATE 7/1

IH #2467
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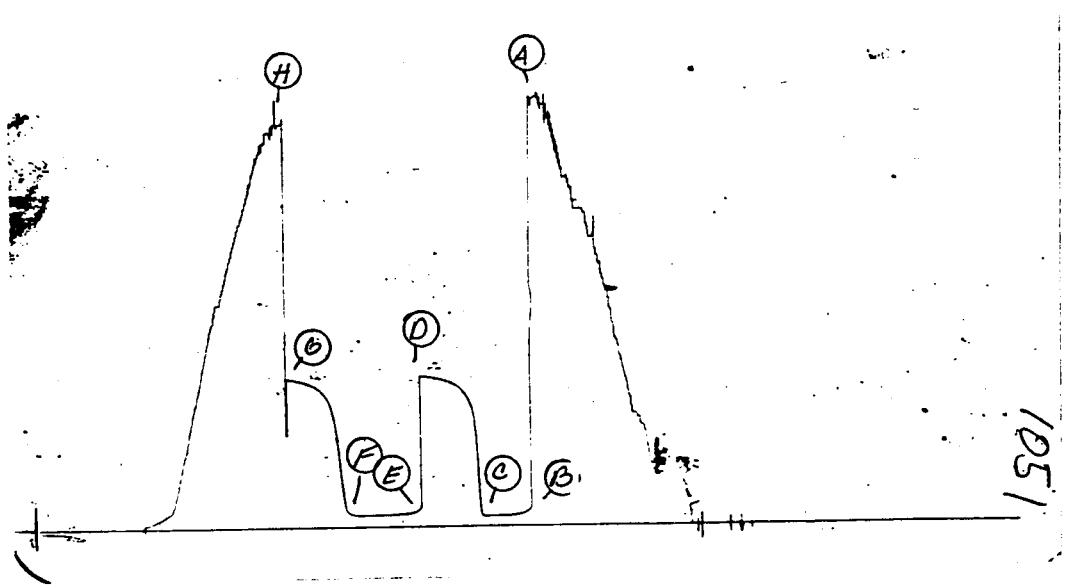

This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2262	2316	PSI
(B)	First Initial Flow Pressure	64	75	PSI
(C)	First Final Flow Pressure	53	58	PSI
(D)	Initial Closed-in Pressure	804	817	PSI
(E)	Second Initial Flow Pressure	53	86	PSI
(F)	Second Final Flow Pressure	53	65	PSI
(G)	Final Closed-in Pressure	804	804	PSI
(H)	Final Hydrostatic Mud	2166	2173	PSI

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Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Kansas Oil Corporation Lease & Well No. Shiner #2

Elevation 2575 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 2468

Date 7/15/79 Sec. 13 Twp. 18S Range 26W County Ness State Kansas

Test Approved by Greg Cheney Western Representative Roger Lisenby

Formation Test No. 4 Interval Tested from 4498 ft. to 4508 ft. Total Depth 4508 ft.

Packer Depth 4493 ft. Size 6 3/4 in. Packer Depth 4498 ft. Size 6 3/4 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 4500 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 4503 ft. Recorder Number 969 Cap. 4200

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor DNB Drilling #2 Drill Collar Length -- I. D. -- in.

Mud Type premix Viscosity 47 Weight Pipe Length 757 I. D. 3.4 in.

Weight 9.4 Water Loss 10.5 cc. Drill Pipe Length 3720 I. D. 3.8 in.

Chlorides 11,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½ in.

Jars: Make -- Serial Number -- Anchor Length 10 ft. Size 5½ in.

Did Well Flow? No Reversed Out - Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Good blow throughout first opening. (2" in bucket)

Good blow throughout second opening (2½" in bucket)

Recovered 30 ft. of gas in pipe

Recovered 70 ft. of clean oil 36° gravity

Recovered 30 ft. of oil and water cut mud (18% oil;27% water;55% mud)

Recovered 60 ft. of oil and water cut mud (5% oil;65% water;30% mud)

Recovered 120 ft. of muddy water with scum of oil (20% mud;78% water;2% oil)

Remarks: chlorides 99,000 ppm

Time Set Packer(s)	6:30 P.M.	Time Started Off Bottom	9:35 P.M.	Maximum Temperature	133	
Initial Hydrostatic Pressure		(A)	2303	P.S.I.		
Initial Flow Period	Minutes 30	(B)	73	P.S.I. to (C)	62	P.S.I.
Initial Closed In Period	Minutes 45	(D)	793	P.S.I.		
Final Flow Period	Minutes 60	(E)	116	P.S.I. to (F)	135	P.S.I.
Final Closed In Period	Minutes 54	(G)	761	P.S.I.		
Final Hydrostatic Pressure		(H)	2162	P.S.I.		

Pressure Data

Date 7/15/79 Test Ticket No. 2468

Recorder No. 1051 Capacity 4250 Location 4500

Clock No. -- Elevation 2575 Kelly Bushing Well Temperature 133

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2303 P.S.I.		Open Tool	6:30P M	
B	First Initial Flow Pressure	73 P.S.I.		First Flow Pressure	30 Mins.	30 M
C	First Final Flow Pressure	62 P.S.I.		Initial Closed-in Pressure	45 Mins.	45 M
D	Initial Closed-in Pressure	793 P.S.I.		Second Flow Pressure	60 Mins.	60 M
E	Second Initial Flow Pressure	116 P.S.I.		Final Closed-in Pressure	45 Mins.	54 M
F	Second Final Flow Pressure	135 P.S.I.				
G	Final Closed-in Pressure	761 P.S.I.				
H	Final Hydrostatic Mud	2162 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 6 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	73
P 2 5	69
P 3 10	62
P 4 15	62
P 5 20	62
P 6 25	62
P 7 30	62
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	62
3	269
6	446
9	530
12	589
15	617
18	657
21	683
24	702
27	719
30	734
33	749
36	759
39	768
42	776
45	793

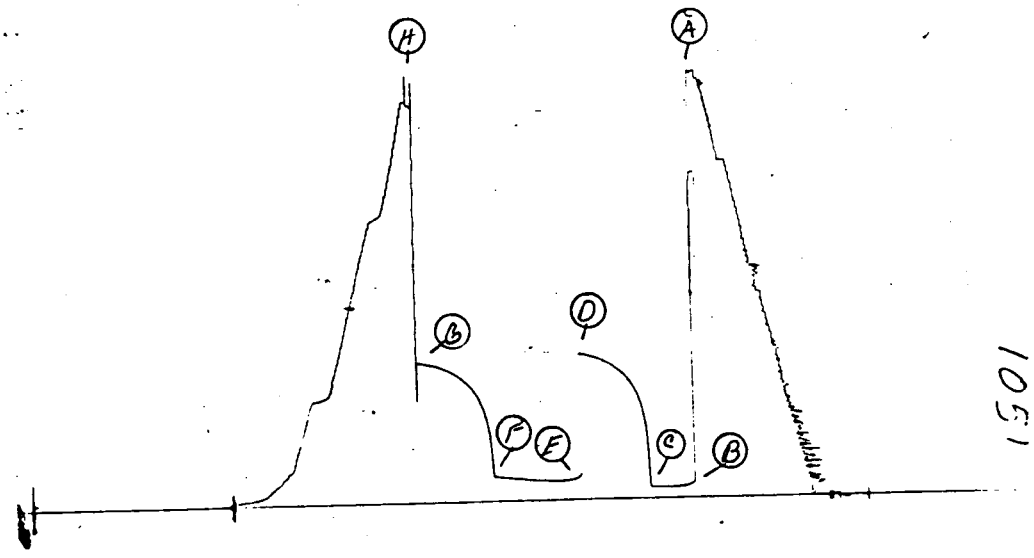
Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	116
5	112
10	108
15	103
20	105
25	108
30	110
35	114
40	117
45	120
50	126
55	131
60	135

Final Shut-In
Breakdown: 18 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	135
3	355
6	457
9	525
12	572
15	604
18	638
21	660
24	678
27	691
30	706
33	717
36	727
39	736
42	740
45	747
48	751
51	757
54	761

COMPANY KANSAS OIL CORPORATION #153 LEASE AND WELL NO. SHINER #2 SEC. 13 TWP. 18S RGE. 7 OW TEST NO. 1 DATE



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2262	2303	PSI
(B)	First Initial Flow Pressure	75	73	PSI
(C)	First Final Flow Pressure	64	62	PSI
(D)	Initial Closed-in Pressure	772	793	PSI
(E)	Second Initial Flow Pressure	96	116	PSI
(F)	Second Final Flow Pressure	129	135	PSI
(G)	Final Closed-in Pressure	750	761	PSI
(H)	Final Hydrostatic Mud	2176	2162	PSI