Company Petroleum, Inc. Lease & Well No. Hoffman "A"#6

Elevation 1888 Ground Level Formation Kansas City Effective Pay ---- Ft. Ticket No. 5168

Date 5/10/80 Sec. 21 Twp. 21S Range 13W County Stafford State Kansas

Test Approved by Ted Jochman, Jr. Western Representative Dan Delaney

Formation Test No. 1 Interval Tested from 3367 ft. to 3395 ft. Total Depth 3395 ft.

Packer Depth 3367 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3362 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3375 ft. Recorder Number 10265 Cap. 4650

Bottom Recorder Depth (Outside) 3379 ft. Recorder Number 4339 Cap. 4300

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

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 9.5 Weight Pipe Length 610 I. D. 2.7 in.

Weight 41 Water Loss 13.6 cc. Drill Pipe Length 2727 I. D. 3.8 in.

Chlorides 68,000 P.P.M. Test Tool Length 30 ft. Tool Size 4½ in.

Jars: Make WTC Serial Number 405 Anchor Length 28 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

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

Blow: First flow-weak blow, died in forty-six minutes;flushed tool no help.
Second flow - no blow;flushed tool, no help.

Recovered 110 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of PLUGGED ANCHOR

Remarks:
SLID TOOL TWELVE FEET TO BOTTOM

Time Set Packer(s) 8:20 ~~A.M.~~ P.M. Time Started Off Bottom 11:20 A.M. P.M. Maximum Temperature -

Initial Hydrostatic Pressure ..... (A) 1670 P.S.I.

Initial Flow Period ..... Minutes 60 (B) Plugging action P.S.I. to (C) 106 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1127 P.S.I.

Final Flow Period ..... Minutes 30 (E) Plugging action P.S.I. to (F) 94 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 940 P.S.I.

Final Hydrostatic Pressure ..... (H) 1665 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 5/10/80 Test Ticket No. 5168

Recorder No. 10265 Capacity 4650 Location 2375 Ft.

Clock No. --- Elevation 1888 Ground Level Well Temperature = °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1670 P.S.I.	Open Tool	8:20P M	
B First Initial Flow Pressure	Plugging action P.S.I.	First Flow Pressure	60 Mins.	60 Mins.
C First Final Flow Pressure	106 P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	1127 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	Plugging action P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	94 P.S.I.			
G Final Closed-in Pressure	940 P.S.I.			
H Final Hydrostatic Mud	1665 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In
Breakdown: 12 Inc.	Breakdown: 20 Inc.	Breakdown: 6 Inc.	Breakdown: 10 Inc.
of 5 mins. and a	of 3 mins. and a	of 5 mins. and a	of 3 mins. and a
final inc. of 0 Min.	final inc. of 0 Min.	final inc. of 0 Min.	final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	PLUGGING ACTION	0	106	0	PLUGGING ACTION	0	94
P 2 5	PLUGGING ACTION	3	651	5	PLUGGING ACTION	3	888
P 3 10	PLUGGING ACTION	6	1074	10	PLUGGING ACTION	6	1002
P 4 15	PLUGGING ACTION	9	1095	15	PLUGGING ACTION	9	984
P 5 20	PLUGGING ACTION	12	1109	20	PLUGGING ACTION	12	974
P 6 25	PLUGGING ACTION	15	1119	25	PLUGGING ACTION	15	962
P 7 30	PLUGGING ACTION	18	1121	30	94	18	953
P 8 35	PLUGGING ACTION	21	1123			21	949
P 9 40	PLUGGING ACTION	24	1126			24	967
P10 45	PLUGGING ACTION	27	1128			27	944
P11 50	PLUGGING ACTION	30	1130			30	940
P12 55	PLUGGING ACTION	33	1133				
P13 60	106	36	1133				
P14		39	1132				
P15		42	1132				
P16		45	1132				
P17		48	1131				
P18		51	1130				
P19		54	1129				
P20		57	1128				
		60	1127				

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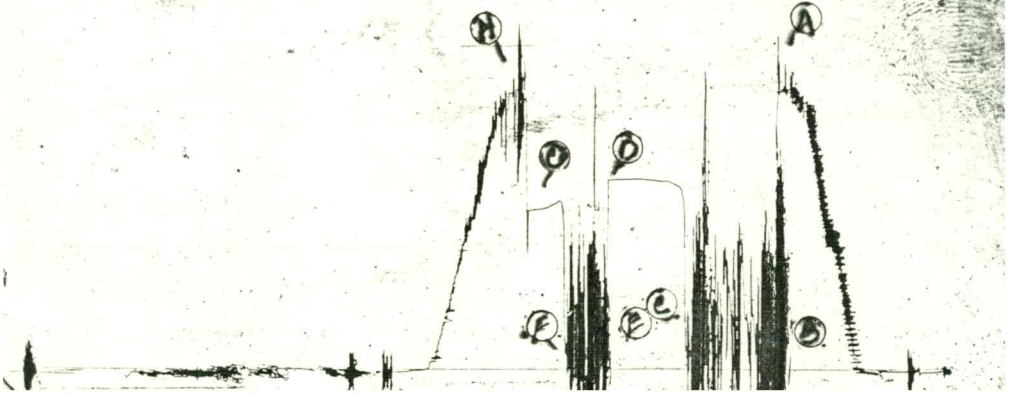

Company Petroleum, Inc. Lease & Well No. Hoffman "A"#6

Elevation 1888 Ground Level Formation Kansas City Effective Pay --- Ft. Ticket No. 5169

Date 5/11/80 Sec. 21 Twp. 21S Range 13W County Stafford State Kansas

Test Approved by Jerry Green Western Representative Dan Delaney

Formation Test No. 2 Interval Tested from 3367 ft. to 3395 ft. Total Depth 3395 ft.

Packer Depth 3367 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3362 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3375 ft. Recorder Number 10265 Cap. 4650

Bottom Recorder Depth (Outside) 3379 ft. Recorder Number 4339 Cap. 4300

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

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 45 Weight Pipe Length 610 I. D. 2.2 in.

Weight 9.5 Water Loss 14.8 cc. Drill Pipe Length 2727 I. D. 3.8 in.

Chlorides ? P.P.M. Test Tool Length 30 ft. Tool Size 4½ in.

Jars: Make WTC Serial Number 405 Anchor Length 28 ft. Size 5½ in.

Did Well Flow? = Reversed Out - Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

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

Blow: -

Recovered ft. of

Recovered ft. of HIT BRIDGE FORTY FIVE FEET OFF BOTTOM

Recovered ft. of

Recovered ft. of

Recovered ft. of MISRUN

Remarks:

NO PRESSURES AVAILABLE

Time Set Packer(s) A.M. P.M. Time Started Off Bottom A.M. P.M. Maximum Temperature

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

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

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

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

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

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

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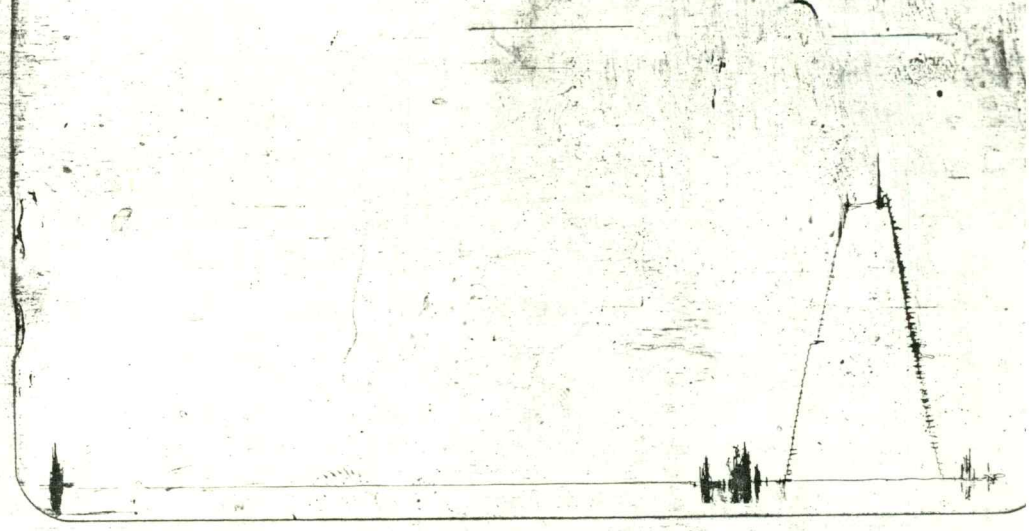
TKT#5169



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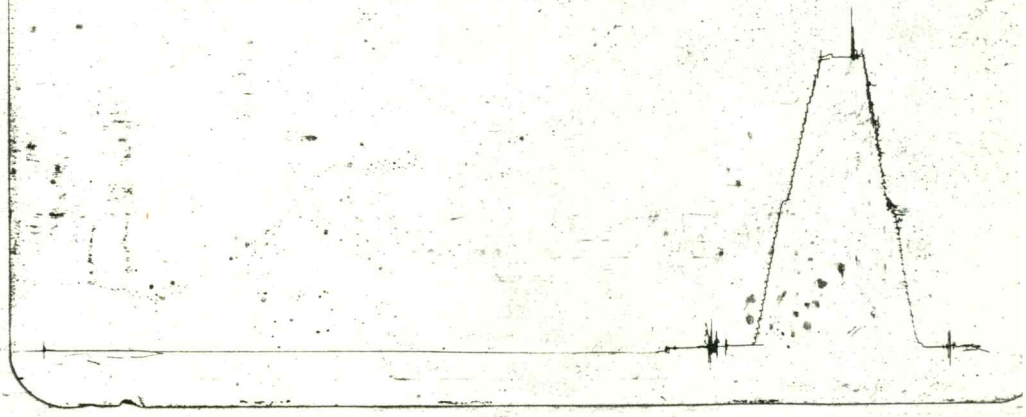
TKT#5169



Company Petroleum, Inc. Lease & Well No. Hoffman "A"#6

Elevation 1888 Ground Level Formation Kansas City Effective Pay ---- Ft. Ticket No. 5170

Date 5/12/80 Sec. 21 Twp. 21S Range 13W County Stafford State Kansas

Test Approved by Jerry Green Western Representative Dan Delaney

Formation Test No. 3 Interval Tested from 3367 ft. to 3420 ft. Total Depth 3420 ft.

Packer Depth 3367 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3362 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3376 ft. Recorder Number 10265 Cap. 4650

Bottom Recorder Depth (Outside) 3380 ft. Recorder Number 4339 Cap. 4300

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

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 64 Weight Pipe Length 610 I. D. 2.7 in.

Weight 9.5 Water Loss 8.0 cc. Drill Pipe Length 2727 I. D. 3.8 in.

Chlorides ? P.P.M. Test Tool Length 30 ft. Tool Size 4½ in.

Jars: Make WTC Serial Number 405 Anchor Length 53 ft. Size 5½ in.

Did Well Flow? No Reversed Out - Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

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

Blow: Initial flow, weak blow building to a strong blow.
Final flow, strong blow. Gas to surface in twenty minutes. See attached sheet for gas measurements.

Recovered 75 ft. of gas cut mud

Recovered 240 ft. of oil specked gas cut muddy water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:30 ~~A.M.~~ P.M. Time Started Off Bottom 6:15 ~~A.M.~~ P.M. Maximum Temperature 103°

Initial Hydrostatic Pressure			(A)	1778	P.S.I.	
Initial Flow Period	Minutes 15	(B)	150	P.S.I. to (C)	141	P.S.I.
Initial Closed In Period	Minutes 27	(D)	431	P.S.I.		
Final Flow Period	Minutes 55	(E)	187	P.S.I. to (F)	175	P.S.I.
Final Closed In Period	Minutes 120	(G)	565	P.S.I.		
Final Hydrostatic Pressure		(H)	1700	P.S.I.		

GAS FLOW REPORT

Date 5-12-80 Ticket 5170 Company Petroleum, Inc.

Well Name and No. Hoffman "A" #6 Dst No. 3 Interval Tested 3367' - 3420'

County Stafford State Kansas Sec. 21 Twp. 21S Rg. 13W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
			PRE FLOW			
	20					
			SECOND FLOW			
Gas to surface in 20 minutes.						
	20 min.	5" of water	1/4"	orifice		371,000 C.F.P.D.
	30 min.	6" of water	1/4"	orifice		412,000 C.F.P.D.
	40 min.	19" of water	1/4"	orifice		732,000 C.F.P.D.
	50 min.	18" of water	1/4"	orifice		712,000 C.F.P.D.
	60 min.	18" of water	1/4"	orifice		712,000 C.F.P.D.

GAS BOTTLE

Serial No. - Date Bottle Filled - Date to be Invoiced --

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of $75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Petroleum, Inc.

Authorized by Jerry Green

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 5/12/80 Test Ticket No. 5170

Recorder No. 4339 Capacity 4300 Location 3380 Ft.

Clock No. - Elevation 1888 Ground Level Well Temperature 103 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1778 P.S.I.	Open Tool	2:30A M	
B First Initial Flow Pressure	150 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C First Final Flow Pressure	141 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	431 P.S.I.	Second Flow Pressure	60 Mins.	55 Mins.
E Second Initial Flow Pressure	187 P.S.I.	Final Closed-in Pressure	120 Mins.	120 Mins.
F Second Final Flow Pressure	175 P.S.I.			
G Final Closed-in Pressure	565 P.S.I.			
H Final Hydrostatic Mud	1700 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	150
P 2 5	143
P 3 10	143
P 4 15	141
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	141
3	252
6	283
9	309
12	332
15	355
18	376
21	394
24	412
27	431

Second Flow Pressure
Breakdown: 11 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	187
5	182
10	175
15	175
20	175
25	175
30	175
35	175
40	175
45	175
50	175
55	175

Final Shut-In
Breakdown: 40 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	175
3	189
6	247
9	274
12	300
15	313
18	336
21	359
24	373
27	392
30	410
33	423
36	436
39	449
42	462
45	475
48	485
51	493
54	501
57	509
60	516

WESTERN TESTING CO., INC.
Pressure Data

Date 5/12/80 Test Ticket No. 5170

Recorder No. 4339 Capacity 4300 Location 3380 Ft.

Clock No. - Elevation 1888 Ground Level Well Temperature 103 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1778 P.S.I.	Open Tool	2:30A M	,
B	First Initial Flow Pressure	150 P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	141 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	431 P.S.I.	Second Flow Pressure	60 Mins.	55 Mins.
E	Second Initial Flow Pressure	187 P.S.I.	Final Closed-in Pressure	120 Mins.	120 Mins.
F	Second Final Flow Pressure	175 P.S.I.			
G	Final Closed-in Pressure	565 P.S.I.			
H	Final Hydrostatic Mud	1700 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 11 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 40 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	521
P 2						66	525
P 3						69	529
P 4						72	533
P 5						75	536
P 6						78	539
P 7						81	542
P 8						84	545
P 9						87	547
P10						90	549
P11						93	551
P12						96	553
P13						99	555
P14						102	556
P15						105	557
P16						108	558
P17						111	560
P18						114	562
P19						117	564
P20						120	565

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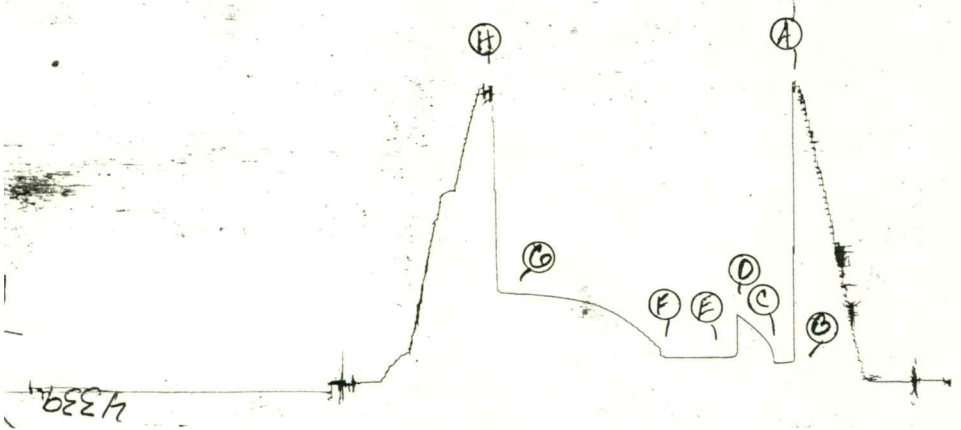

4339

Company Petroleum, Inc. Lease & Well No. Hoffman "A"#6

Elevation 1888 Ground Level Formation Kansas City Effective Pay ----- Ft. Ticket No. 5171

Date 5/12/80 Sec. 21 Twp. 21S Range 13W County Stafford State Kansas

Test Approved by Ted Jocham , Jr. Western Representative Dan Delaney

Formation Test No. ____ Interval Tested from 3389 ft. to 3420 ft. Total Depth 3420 ft.

Packer Depth 3389 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3384 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3397 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3401 ft. Recorder Number 4339 Cap. 4300

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

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 49 Weight Pipe Length 610 I. D. 2.7 in.

Weight 9.5 Water Loss 8.8 cc. Drill Pipe Length 2749 I. D. 3.8 in.

Chlorides ? P.P.M. Test Tool Length 30 ft. Tool Size 4½ in.

Jars: Make WTC Serial Number 405 Anchor Length 31 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

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

Blow: ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of HIT BRIDGE SEVENTY-THREE FEET OFF BOTTOM

Recovered ____ ft. of ____

Recovered ____ ft. of MISRUN

Remarks: ____

NO PRESSURES AVAILABLE

Time Set Packer(s) ____ A.M. P.M. Time Started Off Bottom ____ A.M. P.M. Maximum Temperature ____

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

Initial Flow Period ..... Minutes ____ (B) ____ P.S.I. to (C) ____ P.S.I.

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

Final Flow Period ..... Minutes ____ (E) ____ P.S.I. to (F) ____ P.S.I.

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

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

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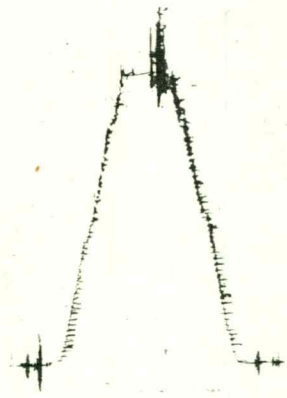

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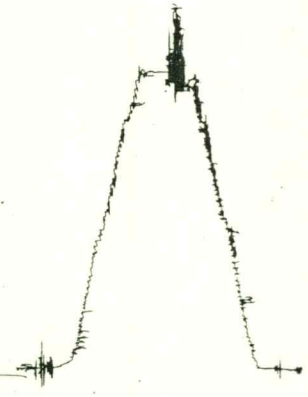

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Company Petroleum, Inc. Lease & Well No. Hoffman "A"#6

Elevation 1888 Ground Level Formation Kansas City Effective Pay - Ft. Ticket No. 5172

Date 5/13/80 Sec. 21 Twp. 21S Range 13W County Stafford State Kansas

Test Approved by Ted Jochams, Jr. Western Representative Dan Delaney

Formation Test No. 5 Interval Tested from 3388 ft. to 3410 ft. Total Depth 3410 ft.

Packer Depth 3388 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3383 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3396 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3400 ft. Recorder Number 4339 Cap. 4300

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

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length -- I. D. - in.

Mud Type starch Viscosity 60 Weight Pipe Length 610 I. D. 2.7 in.

Weight 10.0 Water Loss 8.6 cc. Drill Pipe Length 2748 I. D. 3.8 in.

Chlorides 77,000 P.P.M. Test Tool Length 30 ft. Tool Size 4½ in.

Jars: Make WTC Serial Number 405 Anchor Length 22 ft. Size 5½ in.

Did Well Flow? No Reversed Out No Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

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

Blow: Initial flow - fair blow building to strong blow.
Final flow - strong blow.

Recovered 120 ft. of gas in pipe

Recovered 10 ft. of heavy oil and gas cut mud

Recovered 270 ft. of oil and gas cut mud

Recovered 140 ft. of muddy water

Recovered ft. of

Remarks:

Time Set Packer(s) 4:30 A.M. ~~P.M.~~ Time Started Off Bottom 8:15 A.M. ~~P.M.~~ Maximum Temperature 103°

Initial Hydrostatic Pressure			(A)	1808	P.S.I.	
Initial Flow Period	Minutes 15		(B)	64 P.S.I.	to (C) 73	P.S.I.
Initial Closed In Period	Minutes 30		(D)	443	P.S.I.	
Final Flow Period	Minutes 60		(E)	106 P.S.I.	to (F) 167	P.S.I.
Final Closed In Period	Minutes 120		(G)	469	P.S.I.	
Final Hydrostatic Pressure			(H)	1790	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 5/13/80 Test Ticket No. 5172

Recorder No. 6234 Capacity 4500 Location 3396 Ft.

Clock No. ---- Elevation 1888 Ground Level Well Temperature 103 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1808 P.S.I.		Open Tool	4:30A M	•
B	First Initial Flow Pressure	64 P.S.I.		First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	73 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	443 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	106 P.S.I.		Final Closed-in Pressure	120 Mins.	120 Mins.
F	Second Final Flow Pressure	167 P.S.I.				
G	Final Closed-in Pressure	469 P.S.I.				
H	Final Hydrostatic Mud	1790 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	64
P 2 5	64
P 3 10	69
P 4 15	73
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	73
3	245
6	321
9	356
12	378
15	395
18	411
21	421
24	429
27	438
30	443

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

Point Minutes	Press.
0	106
5	101
10	108
15	117
20	128
25	131
30	138
35	144
40	150
45	156
50	160
55	164
60	167

Final Shut-In
Breakdown: 40 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	167
3	248
6	294
9	319
12	337
15	356
18	365
21	373
24	381
27	390
30	399
33	404
36	409
39	414
42	419
45	424
48	428
51	431
54	434
57	437
60	440

continued next page

WESTERN TESTING CO., INC.
Pressure Data

Date 5/13/80 Test Ticket No. 5172

Recorder No. 6234 Capacity 4500 Location 3396 Ft.

Clock No. ---- Elevation 1888 Ground Level Well Temperature 103 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1808 P.S.I.		Open Tool	4:30A M	
B	First Initial Flow Pressure	64 P.S.I.		First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	73 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	443 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	106 P.S.I.		Final Closed-in Pressure	120 Mins.	120 Mins.
F	Second Final Flow Pressure	167 P.S.I.				
G	Final Closed-in Pressure	469 P.S.I.				
H	Final Hydrostatic Mud	1790 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of 0 Min.

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

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

Final Shut-In
Breakdown: 40 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	443
P 2						66	446
P 3						69	448
P 4						72	450
P 5						75	452
P 6						78	454
P 7						81	456
P 8						84	457
P 9						87	458
P10						90	459
P11						93	460
P12						96	461
P13						99	462
P14						102	463
P15						105	464
P16						108	465
P17						111	466
P18						114	467
P19						117	468
P20						120	469

5172

Kt #5172
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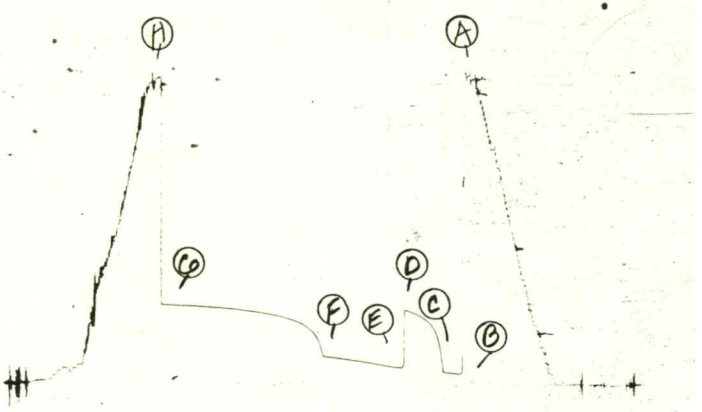

Company Petroleum, Inc. Lease & Well No. Hoffman "A"#6

Elevation 1888 Ground Level Formation Arbuckle Effective Pay ----- Ft. Ticket No. 5173

Date 5/14/80 Sec. 21 Twp. 21S Range 13W County Stafford State Kansas

Test Approved by L. O. Chubb Western Representative Dan Delaney

Formation Test No. 6 Interval Tested from 3662 ft. to 3680 ft. Total Depth 3680 ft.

Packer Depth 3662 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3657 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3670 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3674 ft. Recorder Number 4339 Cap. 4300

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

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 51 Weight Pipe Length 610 I. D. 2.7 in.

Weight 10.0 Water Loss 13.2 cc. Drill Pipe Length 3030 I. D. 3.8 in.

Chlorides 80,000 P.P.M. Test Tool Length 30 ft. Tool Size 4½ in.

Jars: Make WTC Serial Number 405 Anchor Length 18 ft. Size 5½ in.

Did Well Flow? No Reversed Out Yes Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

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

Blow: Initial flow, strong blow throughout.
Final Flow - strong blow.

Recovered 2 ft. of free oil

Recovered 2658 ft. of oil and gas cut water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 1:45 ~~A.M.~~ P.M. Time Started Off Bottom 5:30 ~~A.M.~~ P.M. Maximum Temperature 102°

Initial Hydrostatic Pressure			(A) 1995 P.S.I.			
Initial Flow Period	Minutes 15	(B) 561 P.S.I.	to (C) 872 P.S.I.			
Initial Closed In Period	Minutes 27	(D) 1170 P.S.I.				
Final Flow Period	Minutes 60	(E) 964 P.S.I.	to (F) 1175 P.S.I.			
Final Closed In Period	Minutes 117	(G) 1200 P.S.I.				
Final Hydrostatic Pressure			(H) 1925 P.S.I.			

WESTERN TESTING CO., INC.
Pressure Data

Date 5/14/80 Test Ticket No. 5173

Recorder No. 6234 Capacity 4500 Location 3670 Ft.

Clock No. =- Elevation 1888 Ground Level Well Temperature 102 °F

Point		Pressure		Time Given		Time Computed	
A	Initial Hydrostatic Mud	1995 P.S.I.	Open Tool	1:45P	M		
B	First Initial Flow Pressure	561 P.S.I.	First Flow Pressure	15	Mins.	15	Mins.
C	First Final Flow Pressure	872 P.S.I.	Initial Closed-in Pressure	30	Mins.	27	Mins.
D	Initial Closed-in Pressure	1170 P.S.I.	Second Flow Pressure	60	Mins.	60	Mins.
E	Second Initial Flow Pressure	964 P.S.I.	Final Closed-in Pressure	120	Mins.	117	Mins.
F	Second Final Flow Pressure	1175 P.S.I.					
G	Final Closed-in Pressure	1200 P.S.I.					
H	Final Hydrostatic Mud	1925 P.S.I.					

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	561
P 2 5	655
P 3 10	766
P 4 15	872
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 9 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	872
3	1081
6	1111
9	1127
12	1138
15	1147
18	1153
21	1159
24	1165
27	1170

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

Point Minutes	Press.
0	964
5	993
10	1050
15	1091
20	1111
25	1132
30	1152
35	1159
40	1167
45	1172
50	1173
55	1174
60	1175

Final Shut-In
Breakdown: 39 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	1175
3	1181
6	1183
9	1186
12	1187
15	1188
18	1189
21	1190
24	1191
27	1192
30	1193
33	1194
36	1194
39	1195
42	1195
45	1196
48	1196
51	1197
54	1197
57	1198
60	1198

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WESTERN TESTING CO., INC.

Pressure Data

Date 5/14/80 Test Ticket No. 5173

Recorder No. 6234 Capacity 4500 Location 3670 Ft.

Clock No. =- Elevation 1888 Ground Level Well Temperature 102 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1995	P.S.I.	Open Tool	1:45P M	
B	First Initial Flow Pressure	561	P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	872	P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	1170	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	964	P.S.I.	Final Closed-in Pressure	120 Mins.	117 Mins.
F	Second Final Flow Pressure	1175	P.S.I.			
G	Final Closed-in Pressure	1200	P.S.I.			
H	Final Hydrostatic Mud	1925	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 39 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1198
P 2						66	1198
P 3						69	1198
P 4						72	1198
P 5						75	1198
P 6						78	1198
P 7						81	1198
P 8						84	1198
P 9						87	1198
P10						90	1198
P11						93	1198
P12						96	1198
P13						99	1199
P14						102	1199
P15						105	1200
P16						108	1200
P17						111	1200
P18						114	1200
P19						117	1200
P20							

WTC - 4

6234
5173

TK# 5173
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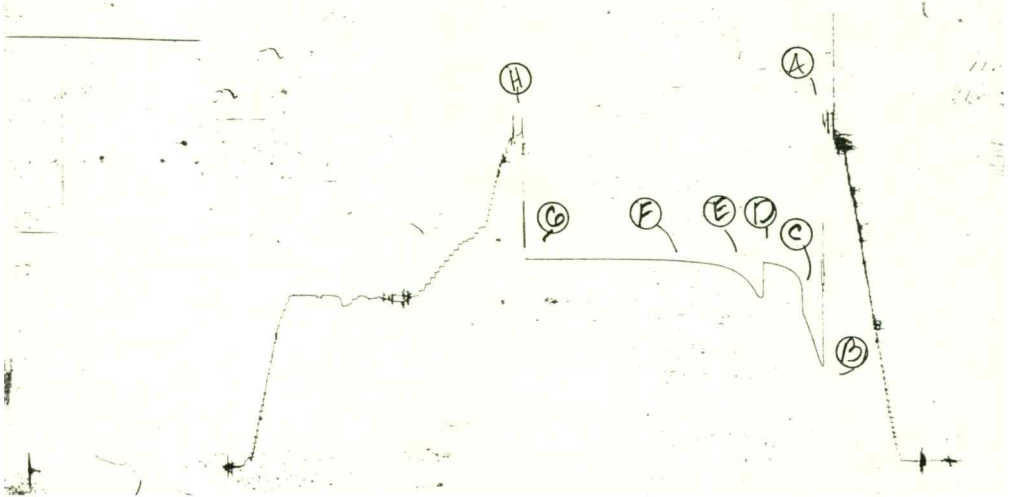

Company Petroleum, Inc. Lease & Well No. Hoffman "A"#6

Elevation 1893 Kelly Bushing Formation Arbuckle Effective Pay ----- Ft. Ticket No. 5547

Date 5/15/80 Sec. 21 Twp. 21S Range 13W County Stafford State Kansas

Test Approved by Ted Yochems, Jr. Western Representative Roger Lisenby

Formation Test No. 7 Interval Tested from 3660 ft. to 3666 ft. Total Depth 3705 ft.

Packer Depth 3655 ft. Size 6 3/4 in. Packer Depth 3660 ft. Size 6 3/4 in.

Packer Depth 3666 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3649 ft. Recorder Number 2603 Cap. 4400

Bottom Recorder Depth (Outside) 3652 ft. Recorder Number 1051 Cap. 4250

Below Straddle Recorder Depth 3703 ft. Recorder Number Cap. -

Drilling Contractor Allen Drilling Rig #1 Drill Collar Length - I. D. - in.

Mud Type starch Viscosity 68 Weight Pipe Length 600 I. D. 3.4 in.

Weight 9.9 Water Loss 8.4 cc. Drill Pipe Length 3028 I. D. 3.8 in.

Chlorides 80,000 P.P.M. Test Tool Length 32 ft. Tool Size 4 3/4 in.

Jars: Make WTC Serial Number 407 Anchor Length 6 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: Strong blow first opening.
Strong six inch blow second opening.

Recovered 330 ft. of gas in pipe

Recovered 720 ft. of free oil 36° gravity

Recovered 150 ft. of frothy muddy oil (no water)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:03 ~~A.M.~~ P.M. Time Started Off Bottom 2:55 A.M. ~~P.M.~~ Maximum Temperature 99°

Initial Hydrostatic Pressure ..... (A) 1952 P.S.I.

Initial Flow Period ..... Minutes 15 (B) 129 P.S.I. to (C) 140 P.S.I.

Initial Closed In Period ..... Minutes 33 (D) 877 P.S.I.

Final Flow Period ..... Minutes 60 (E) 264 P.S.I. to (F) 322 P.S.I.

Final Closed In Period ..... Minutes 126 (G) 844 P.S.I.

Final Hydrostatic Pressure ..... (H) 1930 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 5/15/80 Test Ticket No. 5547

Recorder No. 2603 Capacity 4400 Location 3649 Ft.

Clock No. ---- Elevation 1893 Kelly Bushing Well Temperature 99 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1952	P.S.I.
B	First Initial Flow Pressure	129	P.S.I.
C	First Final Flow Pressure	140	P.S.I.
D	Initial Closed-in Pressure	877	P.S.I.
E	Second Initial Flow Pressure	264	P.S.I.
F	Second Final Flow Pressure	322	P.S.I.
G	Final Closed-in Pressure	844	P.S.I.
H	Final Hydrostatic Mud	1930	P.S.I.

	Time Given	Time Computed
Open Tool	11:03P M	
First Flow Pressure	15 Mins.	15 Mins.
Initial Closed-in Pressure	30 Mins.	33 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	120 Mins.	126 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	129
P 2 5	124
P 3 10	131
P 4 15	140
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	140
3	542
6	645
9	709
12	753
15	784
18	804
21	822
24	835
27	850
30	863
33	877

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

Point Minutes	Press.
0	264
5	258
10	253
15	260
20	264
25	272
30	280
35	287
40	293
45	302
50	311
55	316
60	322

Final Shut-In
Breakdown: 42 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	322
3	433
6	478
9	509
12	529
15	548
18	568
21	582
24	599
27	615
30	623
33	632
36	645
39	656
42	667
45	674
48	681
51	693
54	700
57	707
60	717

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WESTERN TESTING CO., INC.

Pressure Data

Date 5/15/80 Test Ticket No. 5547

Recorder No. 2603 Capacity 4400 Location 3649 Ft

Clock No. ---- Elevation 1893 Kelly Bushing Well Temperature 99 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1952 P.S.I.		Open Tool	11:03P M	•
B	First Initial Flow Pressure	129 P.S.I.		First Flow Pressure	15 Mins.	15 Mins.
C	First Final Flow Pressure	140 P.S.I.		Initial Closed-in Pressure	30 Mins.	33 Mins.
D	Initial Closed-in Pressure	877 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	264 P.S.I.		Final Closed-in Pressure	120 Mins.	126 Mins.
F	Second Final Flow Pressure	322 P.S.I.				
G	Final Closed-in Pressure	844 P.S.I.				
H	Final Hydrostatic Mud	1930 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.

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

Point Minutes	Press.

Final Shut-In
Breakdown: 42 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
63	725
66	733
69	742
72	749
75	757
78	764
81	771
84	775
87	782
90	786
93	792
96	798
99	803
102	808
105	813
108	818
111	823
114	827
117	831
120	835
123	840
126	844

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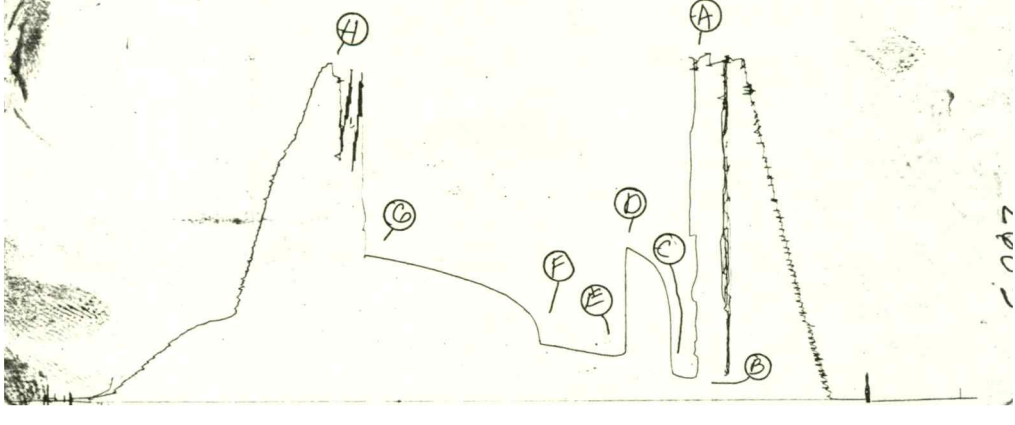

TKT# 5547
Below Straddle