WESTERN TESTERS

Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company Hinkle Oil Company Lease & Well No. Spence "A"#1

Elevation 2118 Kelly Bushing Formation Kansas City Effective Pay --- Ft. Ticket No. 4966

Date 2/28/80 Sec. 35 Twp. 23S Range 10W County Pawnee State Kansas

Test Approved by Orvie Howell Western Representative Darrell Claphan

Formation Test No. 1 Interval Tested from 4034 ft. to 4078 ft. Total Depth 4078 ft.

Packer Depth 4029 ft. Size 6 3/4 in. Packer Depth 4034 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) 4066 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4069 ft. Recorder Number 6233 Cap. 4000

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

Drilling Contractor Venture Drilling Rig #3 Drill Collar Length -- I. D. - in.

Mud Type premix-starch Viscosity 75 Weight Pipe Length -- I. D. - in.

Weight 9.4 Water Loss 11.3 cc. Drill Pipe Length 4010 I. D. 3.8 in.

Chlorides 21,000 P.P.M. Test Tool Length 24 ft. Tool Size 4½ in.

Jars: Make No Serial Number - Anchor Length 44 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 4½ in.

Blow: First flow, strong blow throughout. Second flow, strong blow, gas to surface in five minutes. See attached sheet for gas measurements.

Recovered 30 ft. of heavy gas cut mud

Recovered 120 ft. of very heavy oil and gas cut mud

Recovered 120 ft. of gassy muddy oil

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 7:25 A.M. P.M. Time Started Off Bottom 10:25 A.M. P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure			(A)	2073	P.S.I.	
Initial Flow Period	Minutes	30	(B)	94 P.S.I. to (C)	73	P.S.I.
Initial Closed In Period	Minutes	30	(D)	1117	P.S.I.	
Final Flow Period	Minutes	60	(E)	110 P.S.I. to (F)	122	P.S.I.
Final Closed In Period	Minutes	60	(G)	1209	P.S.I.	
Final Hydrostatic Pressure			(H)	2063	P.S.I.	

WTC-

Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

GAS FLOW REPORT

Date 2/28/80 Ticket 4966 Company Hinkle Oil Company

Well Name and No. Spence "A"#1 Dst No. 1 Interval Tested 4034'-4078'

County Pawnee State Kansas Sec. 35 Twp. 23S Rg. 10W

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			

SECOND FLOW OPEN 8:25 AM **SECOND FLOW** GAS TO SURFACE AT 8:30AM

	5 min.	2" of water	1/8"	orifice		747,000 CFPD
	10 min.	4" of water	1/8"	orifice		1,060 CFPD
	20 min.	16" of water	1/8"	orifice		6,720 CFPD
	30 min.	10" of water	1/4"	orifice		5,320 CFPD
	40 min.	7" of water	1/4"	orifice		4,450 CFPD
	50 min.	6" of water	1/4"	orifice		4,120 CFPD
	60 min.	11" of water	1/4"	orifice		5,600 CFPD

GAS BOTTLE

Serial No. ----- Date Bottle Filled ------- Date to be Invoiced 2/28/80

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 Hinkle Oil Company

Authorized by Orvie Howell

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 2/28/80 Test Ticket No. 4966

Recorder No. 10266 Capacity 4650 Location 4078 Ft.

Clock No. -- Elevation 2118 Kelly Bushing Well Temperature 93 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2073	P.S.I.
B	First Initial Flow Pressure	94	P.S.I.
C	First Final Flow Pressure	73	P.S.I.
D	Initial Closed-in Pressure	1117	P.S.I.
E	Second Initial Flow Pressure	110	P.S.I.
F	Second Final Flow Pressure	122	P.S.I.
G	Final Closed-in Pressure	1209	P.S.I.
H	Final Hydrostatic Mud	2063	P.S.I.

	Time Given		Time Computed	
Open Tool	7:25A	M		
First Flow Pressure	30	Mins.	30	Mins.
Initial Closed-in Pressure	30	Mins.	30	Mins.
Second Flow Pressure	60	Mins.	60	Mins.
Final Closed-in Pressure	60	Mins.	60	Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	94
P 2 5	70
P 3 10	68
P 4 15	68
P 5 20	69
P 6 25	71
P 7 30	73
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.

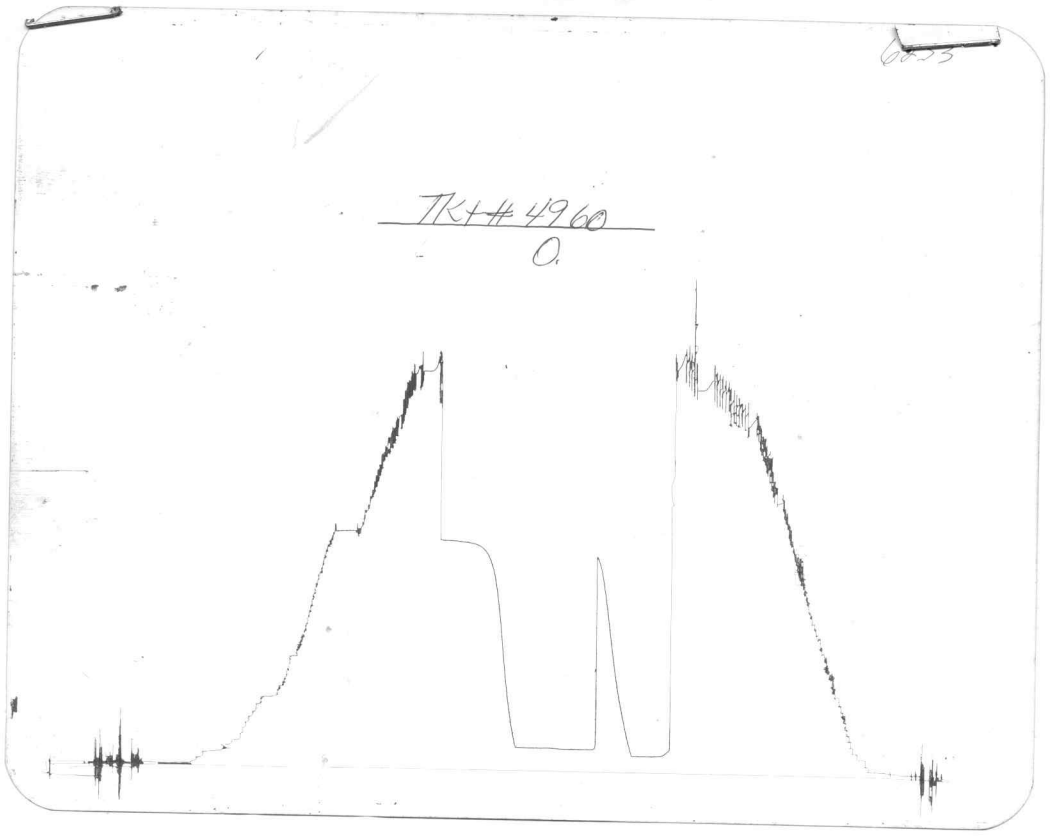
Point Minutes	Press.
0	73
3	125
6	211
9	296
12	380
15	495
18	645
21	729
24	848
27	960
30	1117

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

Point Minutes	Press.
0	110
5	101
10	101
15	101
20	103
25	104
30	106
35	108
40	110
45	114
50	117
55	120
60	122

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

Point Minutes	Press.
0	122
3	185
6	296
9	441
12	607
15	799
18	972
21	1061
24	1130
27	1158
30	1177
33	1186
36	1194
39	1200
42	1202
45	1206
48	1209
51	1209
54	1209
57	1209
60	1209



This is an actual photograph of recorder chart.

COMPANY HINKLE OIL COMPANY LEASE AND WELL NO. SPENCE "A"#1 SEC. 35 TWP. 23S RGE. 10W TEST NO. 1 DATE 2/28/8

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2065	2073	PSI
(B)	First Initial Flow Pressure	93	94	PSI
(C)	First Final Flow Pressure	93	73	PSI
(D)	Initial Closed-in Pressure	1111	1117	PSI
(E)	Second Initial Flow Pressure	105	110	PSI
(F)	Second Final Flow Pressure	129	122	PSI
(G)	Final Closed-in Pressure	1193	1209	PSI
(H)	Final Hydrostatic Mud	2042	2063	PSI

WESTERN TESTERS

Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company Hinkle Oil Company Lease & Well No. Spence "A"#1

Elevation 2118 Kelly Bushing Formation Kansas City Effective Pay ---- Ft. Ticket No. 4967

Date 2/19/80 Sec. 35 Twp. 23S Range 18W County Pawnee State Kansas

Test Approved by Orvie Howell Western Representative Roger Lisenby

Formation Test No. 2 Interval Tested from 4077 ft. to 4146 ft. Total Depth 4146 ft.

Packer Depth 4072 ft. Size 6 3/4 in. Packer Depth 4077 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) 4139 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4142 ft. Recorder Number 6233 Cap. 4000

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

Drilling Contractor Venture Drilling Rig #3 Drill Collar Length -- I. D. - in.

Mud Type starch Viscosity 48 Weight Pipe Length -- I. D. - in.

Weight 9.5 Water Loss 12.8 cc. Drill Pipe Length 4056 I. D. 2.8 in.

Chlorides 23,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½ in.

Jars: Make ---- Serial Number ---- Anchor Length 69 ft. Size 5½ with IT DP 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 4"FH in.

Blow: Good increasing blow eight inches in bucket first opening. Good increasing blow second opening (off bottom of bucket)

Recovered 360 ft. of watery mud

Recovered 60 ft. of muddy water

Recovered 420 ft. of Total fluid

Recovered ft. of

Recovered ft. of

Remarks: Tool slid three feet to bottom.

Time Set Packer(s) 12:34 ~~A.M.~~ P.M. Time Started Off Bottom 3:22 ~~A.M.~~ P.M. Maximum Temperature 117°

Initial Hydrostatic Pressure ..... (A) 2171 P.S.I.

Initial Flow Period ..... Minutes 25 (B) 101 P.S.I. to (C) 146 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 1276 P.S.I.

Final Flow Period ..... Minutes 60 (E) 181 P.S.I. to (F) 246 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 1187 P.S.I.

Final Hydrostatic Pressure ..... (H) 2133 P.S.I.

WTC-

WESTERN TESTING CO., INC.
Pressure Data

Date 2/29/80 Test Ticket No. 4967

Recorder No. 10266 Capacity 4650 Location 4139 Ft.

Clock No. ----- Elevation 2118 Kelly Bushing Well Temperature 117 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2171	P.S.I.
B	First Initial Flow Pressure	101	P.S.I.
C	First Final Flow Pressure	146	P.S.I.
D	Initial Closed-in Pressure	1276	P.S.I.
E	Second Initial Flow Pressure	181	P.S.I.
F	Second Final Flow Pressure	246	P.S.I.
G	Final Closed-in Pressure	1187	P.S.I.
H	Final Hydrostatic Mud	2633	P.S.I.

	Time Given	Time Computed
Open Tool	12:34 P M	
First Flow Pressure	30 Mins.	25 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	45 Mins.	45 Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	101
P 2 5	103
P 3 10	115
P 4 15	126
P 5 20	135
P 6 25	146
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.

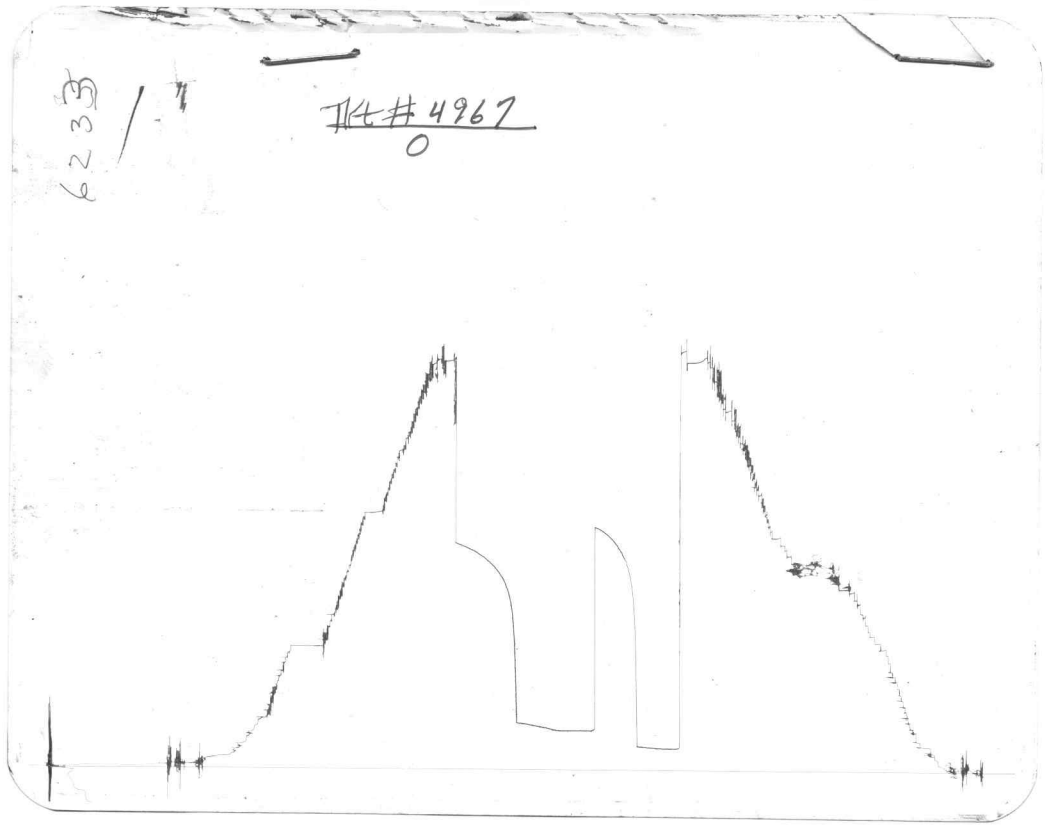
Point Minutes	Press.
0	146
3	729
6	995
9	1112
12	1160
15	1194
18	1211
21	1227
24	1242
27	1260
30	1276

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

Point Minutes	Press.
0	181
5	170
10	180
15	185
20	194
25	203
30	211
35	220
40	228
45	237
50	240
55	243
60	246

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

Point Minutes	Press.
0	246
3	540
6	776
9	885
12	965
15	1014
18	1044
21	1072
24	1095
27	1112
30	1128
33	1140
36	1152
39	1165
42	1176
45	1187



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2167	2171	PSI
(B)	First Initial Flow Pressure	111	101	PSI
(C)	First Final Flow Pressure	121	146	PSI
(D)	Initial Closed-in Pressure	1263	1276	PSI
(E)	Second Initial Flow Pressure	213	181	PSI
(F)	Second Final Flow Pressure	243	246	PSI
(G)	Final Closed-in Pressure	1184	1187	PSI
(H)	Final Hydrostatic Mud	2137	2133	PSI

COMPANY HINKLE OIL COMPANY LEASE AND WELL NO. SPENCE "A"#1 SEC. 35 TWP. 23S RGE. 18W TEST NO. 2 DATE 2/19/80

WESTERN TESTERS

Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company Hinkle Oil Company Lease & Well No. Spence "A"#1

Elevation 2118 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 4968

Date 3/4/80 Sec. 35 Twp. 23S Range 10W County Pawnee State Kansas

Test Approved by Orvie Howell Western Representative Darrell Claphan

Formation Test No. 3 Interval Tested from 4382 ft. to 4410 ft. Total Depth 4410 ft.

Packer Depth 4377 ft. Size 6 3/4 in. Packer Depth 4382 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) 4399 ft. Recorder Number 10266 Cap. 4650

Bottom Recorder Depth (Outside) 4402 ft. Recorder Number 6233 Cap. 4000

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

Drilling Contractor Venture Drilling Rig #3 Drill Collar Length -- I. D. - in.

Mud Type premix-starch Viscosity 50 Weight Pipe Length -- I. D. - in.

Weight 9.8 Water Loss 13.8 cc. Drill Pipe Length 4358 I. D. 3.8 in.

Chlorides 47,000 P.P.M. Test Tool Length 24 ft. Tool Size 4½ in.

Jars: Make No Serial Number - Anchor Length 28 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 4½ in.

Blow: First-strong blow throughout. (Off bottom of bucket)

Second - blow strong throughout. (Off bottom of bucket) See attached sheet for gas measurements.

Recovered ft. of

Recovered 60 ft. of gas cut mud

Recovered 60 ft. of oil and gas cut mud

Recovered 180 ft. of gas and mud cut oil

Recovered 60 ft. of very heavy oil and gas cut muddy water

Recovered 300 ft. of slightly oil and gas cut muddy water.

Remarks: Read outside Chart.

Time Set Packer(s) 9:25 A.M. P.M. Time Started Off Bottom 12:10 A.M. P.M. Maximum Temperature

Initial Hydrostatic Pressure		(A) 2296 P.S.I.		
Initial Flow Period	Minutes 30	(B) 281 P.S.I.	to (C) 268 P.S.I.	
Initial Closed In Period	Minutes 30	(D) 1361 P.S.I.		
Final Flow Period	Minutes 60	(E) 339 P.S.I.	to (F) 345 P.S.I.	
Final Closed In Period	Minutes 45	(G) 1317 P.S.I.		
Final Hydrostatic Pressure		(H) 2272 P.S.I.		

WTC

Home Office: Wichita, Kansas 67201
P.O. Box 1599 (316) 262-5861

GAS FLOW REPORT

Date 3/4/80 Ticket 4968 Company Hinkle OIl Company

Well Name and No. Spence "A"#1 Dst No. 3 Interval Tested 4382'-4410'

County Pawnee State Kansas Sec. 35 Twp. 23S Rg. 10W

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
Tool open at 9:25A,M Gas to surface **PRE FLOW** in four minutes.						
	5 min.	5lbs.	3/4" orifice			175,000 CFPD
	10 min.	6 lbs.	3/4" orifice			194,000 CFPD
	15 min.	9 lbs.	3/4" orifice			245,000 CFPD
	20 min.	11 lbs.	3/4" orifice			274,000 CFPD
	30 min.	11 lbs.	3/4" orifice			274,000 CFPD
Tool open at 10:25 AM **SECOND FLOW**						
	10 min.	12 lbs.	3/4" orifice			288,000 CFPD
	20 min.	8 lbs.	3/4" orifice			227,000 CFPD
	30 min.	3 lbs.	3/4" orifice			133,000 CFPD
	40 min.	2 lbs.	3/4" orifice			108,000 CFPD
	50 min.	2 lbs.	3/4" orifice			108,000 CFPD
	60 min.	1 lb.	3/4" orifice			76,000 CFPD

GAS BOTTLE

Serial No. ----- Date Bottle Filled ------ Date to be Invoiced 3/4/80

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 Hinkle Oil Company

Authorized by O. Howell

FORM WTC 6

WESTERN TESTING CO., INC.
Pressure Data

Date 3-4-80 Test Ticket No. 4968

Recorder No. 6232 Capacity 4000 Location 4402 Ft.

Clock No. --- Elevation 2118 Kelly Bushing Well Temperature --- °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2296 P.S.I.		Open Tool	9:45 A. M	
B	First Initial Flow Pressure	281 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	268 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1361 P.S.I.		Second Flow Pressure	60 Mins.	60 Mins.
E	Second Initial Flow Pressure	339 P.S.I.		Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	345 P.S.I.				
G	Final Closed-in Pressure	1317 P.S.I.				
H	Final Hydrostatic Mud	2272 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	281
P 2 5	276
P 3 10	268
P 4 15	268
P 5 20	268
P 6 25	268
P 7 30	268
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.

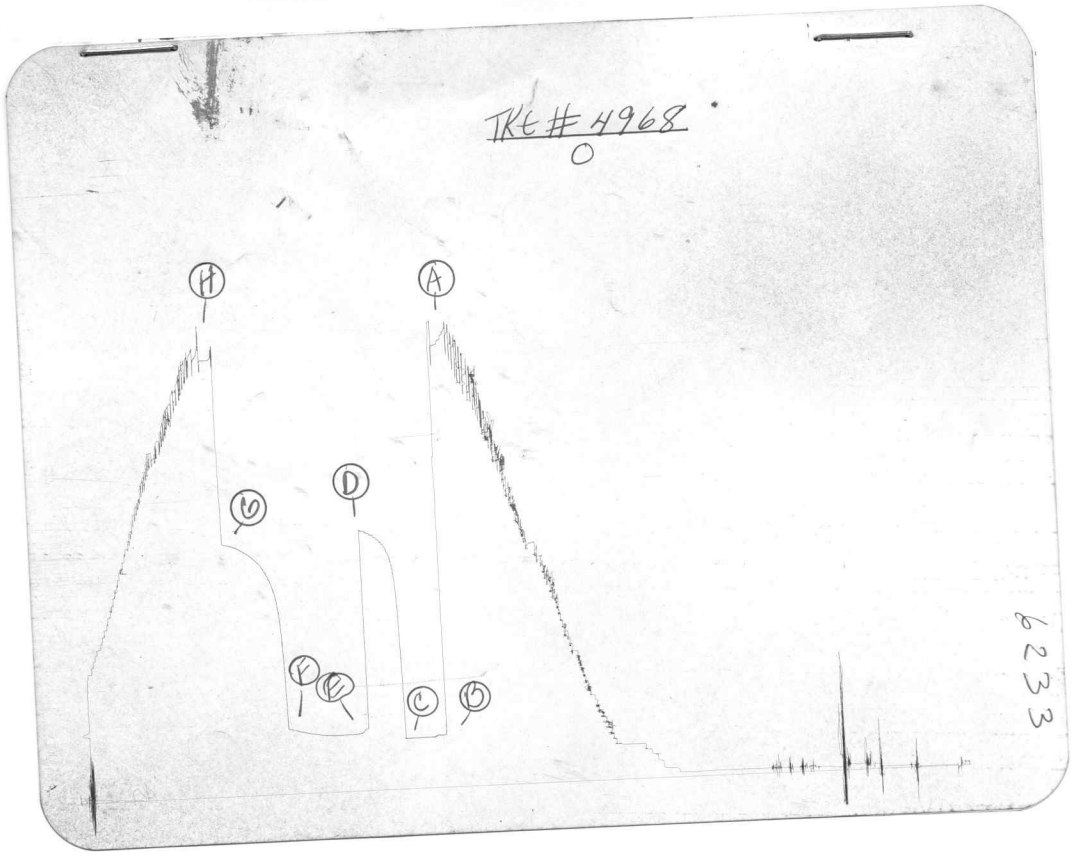
Point Minutes	Press.
0	268
3	836
6	1134
9	1230
12	1271
15	1279
18	1301
21	1323
24	1347
27	1355
30	1361

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

Point Minutes	Press.
0	330
5	304
10	299
15	299
20	299
25	299
30	302
35	307
40	313
45	321
50	329
55	337
60	345

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

Point Minutes	Press.
0	345
3	806
6	996
9	1079
12	1139
15	1171
18	1206
21	1230
24	1250
27	1265
30	1277
33	1291
36	1301
39	1309
42	1312
45	1317



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	2296	2296	PSI
(B)	First Initial Flow Pressure	274	281	PSI
(C)	First Final Flow Pressure	274	268	PSI
(D)	Initial Closed-in Pressure	1353	1361	PSI
(E)	Second Initial Flow Pressure	304	339	PSI
(F)	Second Final Flow Pressure	345	345	PSI
(G)	Final Closed-in Pressure	1313	1317	PSI
(H)	Final Hydrostatic Mud	2266	2272	PSI

COMPANY HINKLE OIL COMPANY LEASE AND WELL NO. SPENCE "A" #1 SEC. 35 TWP. 23S RGE. 10W TEST NO. 3 DATE 3/4/80