MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company HINKLE OIL COMPANY

Lease and Well No. SPENCE #1

County PAWNEE State KANSAS Date 6-25-79

Formation Test No. 1 Total Depth 3317 Elev.

Interval Tested 3296 To 3317 Anchor Length 21'

Size Hole 7 7/8 Size Drill Pipe 4½ X. Size Packer 6 3/4

Mud Weight Viscosity Water Loss c.c. Bottom Hole Temp. 102 °F

Chokes: Top ½ Bottom ½ Ticket No. 18114

Length of Drill Collar 523' I. D. 2.25 Length Flexweight I. D.

RECOVERY

FIRST OPENING: STRONG BLOW IN 30 MINUTES.
SECOND OPENING: STRONG BLOW, GAS TO SURFACE IN 5 MINUTES AFTER SECOND OPENING.

5 MINUTES	5 I.W.	31.6 M.C.F.P.D.
10 MINUTES	3 I.W.	24.5 M.C.F.P.D.
10 MINUTES	3 I.W.	24.5 M.C.F.P.D.
10 MINUTES	3 I.W.	24.5 M.C.F.P.D.
10 MINUTES	3 I.W.	24.5 M.C.F.P.D.
10 MINUTES	3 I.W.	24.5 M.C.F.P.D.

830 FEET OF GAS CUT SALT WATER.
GAS STABILIZED AT 24.5 M.C.F.P.D.

Lease and Well No. SPENCE #1 34-23S-18W C N/2 NE NE Formation Test No. 1

COMPANY HINKLE OIL COMPANY DATE 6-25-79

LEASE SPENCE WELL NO. 1 TEST NO. 1 TICKET NO. 18114

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		1572
INITIAL CLOSED IN PRESSURE	30 MINUTES	1102
INITIAL FLOW	30 MINUTES	75-202
FINAL FLOW	60 MINUTES	223-331
FINAL CLOSED IN PRESSURE	30 MINUTES	1056
FINAL HYDRO MUD PRESSURE		1412

TOTAL DEPTH 3317

PACKER DEPTH 3296

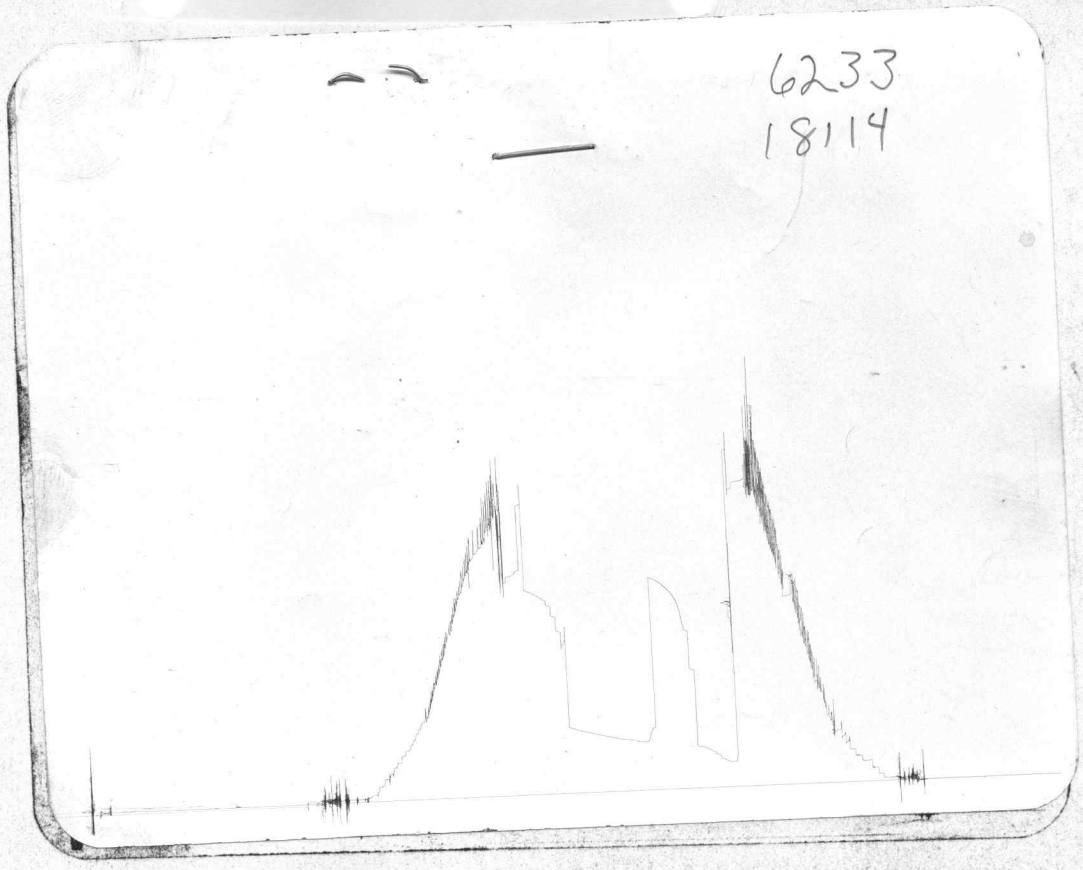
AK-1 NO. 10266 DEPTH 3312

	1ST FLOW PRESSURE		INITIAL CIP		2ND FLOW PRESSURE		FINAL CIP	
	75		202		223		331	
	120		853		251		886	
	169		988		277		979	
	202		1033		300		1009	
			1060		331		1033	
			1088				1049	
			1102				1056	
	10 MINUTE INTERVAL		5 MINUTE INTERVAL		15 MINUTE INTERVAL		5 MINUTE INTERVAL	

REMARKS

SPECIAL PRESSURE DATA

6233
18114



Tool Open: 1st Flow ___ hr. 30 mins: Shut-in Initial ___ hr. 30 min: 2nd Flow ___ hr. 60 min: Shut-in Final ___ hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	1541	1572
(B) Initial 1st Flow Pressure	70	75
(C) Final 1st Flow Pressure	211	202
(D) Initial Shut-in Pressure	1100	1102
(E) Initial 2nd Flow Pressure	211	223
(F) Final 2nd Flow Pressure	328	331
(G) Final Shut-in Pressure	1053	1056
(H) Final Hydrostatic Pressure	1448	1412

18114

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company HINKLE OIL COMPANY

Lease and Well No. SPENCE #1

County PAWNEE State KANSAS Date 6-28-79

Formation Test No. 2 Total Depth 4145 Elev.

Interval Tested 4046 To 4145 Anchor Length 99'

Size Hole 7 7/8 Size Drill Pipe 4½ X. Size Packer 6 3/4

Mud Weight 9.1 Viscosity 42 Water Loss 9.6 c.c. Bottom Hole Temp. 116 °F

Chokes: Top ½ Bottom ½ Ticket No. 18115

Length of Drill Collar 523' I. D. 2.25 Length Flexweight I. D.

RECOVERY

FIRST OPENING: STRONG BLOW, GAS TO SURFACE IN 3 MINUTES. 209 M.C.F.P.D.
OIL TO SURFACE 25 MINUTES AFTER FIRST OPENING.

4145 FEET OF GASSY OIL.
OIL TO SURFACE IN 25 MINUTES.

Lease and Well No. SPENCE #1 34-23S-18W C N/2 NE NE Formation Test No. 2

COMPANY HINKLE OIL COMPANY DATE 6-28-79

LEASE SPENCE WELL NO. 1 TEST NO. 2 TICKET NO. 18115

	TIME	PSI
INITIAL HYDRO MUD PRESSURE	-	2037
INITIAL CLOSED IN PRESSURE	50 MINUTES	1463 *
INITIAL FLOW	25 MINUTES	397-813
FINAL FLOW	-	-
FINAL CLOSED IN PRESSURE	-	-
FINAL HYDRO MUD PRESSURE	-	1960

TOTAL DEPTH 4145

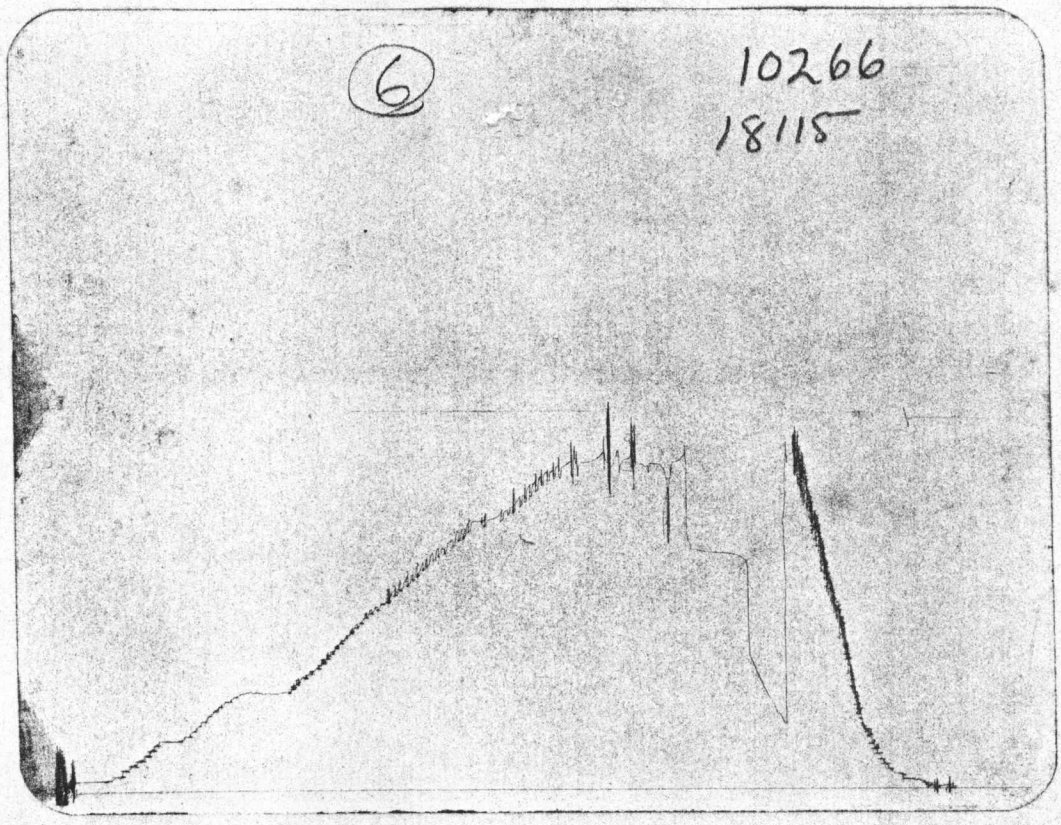
PACKER DEPTH 4046

AK-1 NO. 10266 DEPTH 4140

	1ST FLOW PRESSURE	INITIAL CIP	2ND FLOW PRESSURE	FINAL CIP
	397	813		
	469	1333		
	551	1421		
	617	1433		
	715	1440		
	813	1442		
		1444		
		1451		
		1458		
		1463		
	5 MINUTE INTERVAL	5 MINUTE INTERVAL	MINUTE INTERVAL	MINUTE INTERVAL

REMARKS IBHP IS A 45 MINUTE INTERVAL.

SPECIAL PRESSURE DATA



Tool Open: 1st Flow ___ hr. 25 mins: Shut-in Initial ___ hr. 50 min: 2nd Flow ___ hr. - min: Shut-in Final ___ hr. - min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2007	2037
(B) Initial 1st Flow Pressure	399	397
(C) Final 1st Flow Pressure	820	813
(D) Initial Shut-in Pressure	1448	1463
(E) Initial 2nd Flow Pressure	-	-
(F) Final 2nd Flow Pressure	-	-
(G) Final Shut-in Pressure	-	-
(H) Final Hydrostatic Pressure	2007	1960

18115

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company HINKLE OIL COMPANY

Lease and Well No. SPENCE #1

County PAWNEE State KANSAS Date 6-29-79

Formation Test No. 3 Total Depth 4375 Elev.

Interval Tested 4315 To 4375 Anchor Length 60'

Size Hole 7 7/8 Size Drill Pipe 4½ X. Size Packer 6 3/4

Mud Weight 9.2 Viscosity 56 Water Loss 9.2 c.c. Bottom Hole Temp. 118 °F

Chokes: Top ½ Bottom ½ Ticket No. 18116

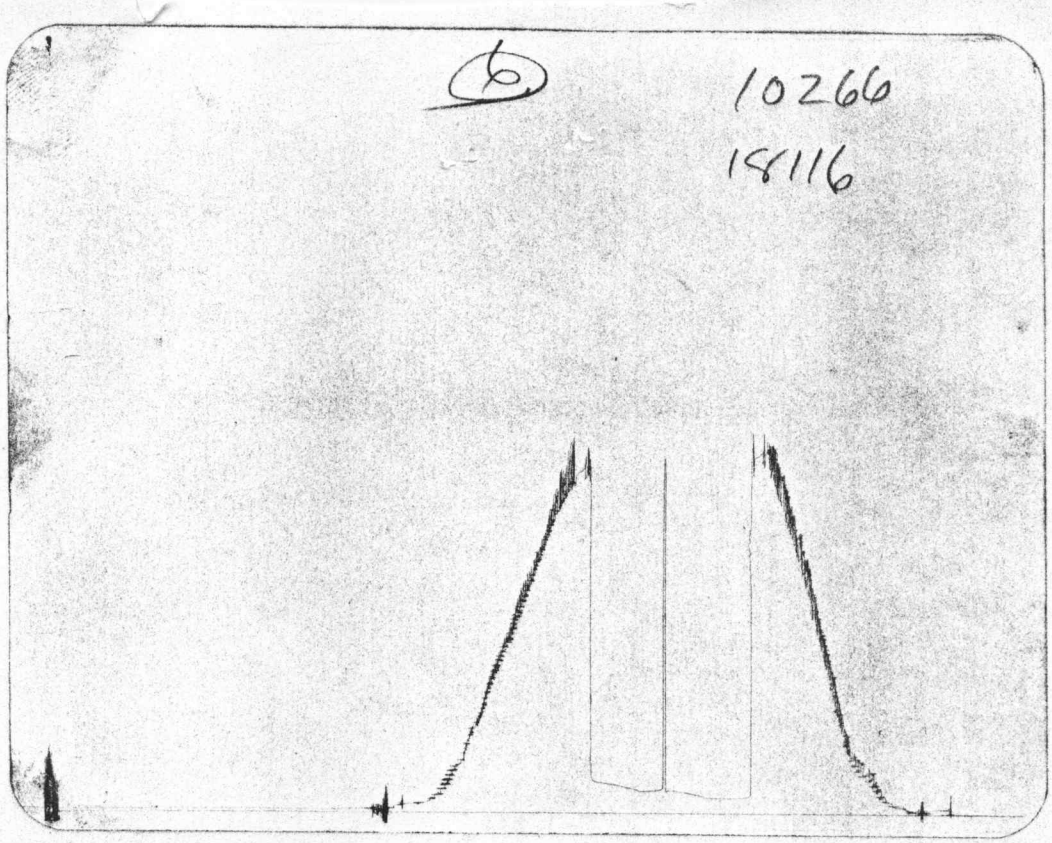
Length of Drill Collar 523' I. D. 2.25 Length Flexweight I. D.

RECOVERY

FIRST OPENING: WEAK BLOW THROUGHOUT OPENING.
SECOND OPENING: FLUSHED TOOL, WEAK BLOW, DIED IN 8 MINUTES.

120 FEET OF DRILLING MUD.

Lease and Well No. SPENCE #1 34-23S-18W C N/2 NE NE Formation Test No. 3



Tool Open: 1st Flow ___ hr. 30 mins: Shut-in Initial ___ hr. 30 min: 2nd Flow ___ hr. 25 min: Shut-in Final ___ hr. 30 min.

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2170	2187
(B) Initial 1st Flow Pressure	46	94
(C) Final 1st Flow Pressure	46	94
(D) Initial Shut-in Pressure	117	143
(E) Initial 2nd Flow Pressure	117	143
(F) Final 2nd Flow Pressure	117	143
(G) Final Shut-in Pressure	187	202
(H) Final Hydrostatic Pressure	2100	2082

18116

MILLER TESTING COMPANY

Box 547

GREAT BEND, KANSAS

Company HINKLE OIL COMPANY

Lease and Well No. SPENCE #1

County PAWNEE State KANSAS Date 6-30-79

Formation Test No. 4 Total Depth 4425 Elev.

Interval Tested 4388 To 4425 Anchor Length 37'

Size Hole 7 7/8 Size Drill Pipe 4½ Size Packer 6 3/4

Mud Weight 9.5 Viscosity 62 Water Loss 12.4 c.c. Bottom Hole Temp. 120 °F

Chokes: Top ½ Bottom ½ Ticket No. 18118

Length of Drill Collar 523' I. D. 2.25 Length Flexweight I. D.

RECOVERY

FIRST OPENING: STRONG BLOW. GAS TO SURFACE IN 3 MINUTES.

10 MINUTES	2 PSI	527 M.C.F.P.D.
20~~-10~~ MINUTES	2 PSI	527 M.C.F.P.D.
30~~-40~~ MINUTES	2 PSI	527 M.C.F.P.D.

SECOND OPENING: STRONG BLOW. GAS STABILIZED AT 527 M.C.F.P.D.

10 MINUTES	2 PSI	527 M.C.F.P.D.
20 ~~10~~ MINUTES	2 PSI	527 M.C.F.P.D.
30 ~~10~~ MINUTES	2 PSI	527 M.C.F.P.D.

60 FEET OF OIL AND GAS CUT MUD.
60 FEET OF HEAVILY OIL AND CUT MUD.
386 FEET OF GASSY MUDDY FROTHY OIL.
+ 60 FEET OF HEAVILY OIL AND GAS CUT WATER.
+ 240 FEET OF WATER.

Capacity of Drill Collars = 0.49 Bbls/100'

300' = 1.47 BW — 1 Hr Test.

Lease and Well No. SPENCE #1 34-23S-18W C N/2 NE NE Formation Test No. 4

COMPANY HINKLE OIL COMPANY DATE 6-30-79

LEASE SPENCE WELL NO. 1 TEST NO. 4 TICKET NO. 18118

	TIME	PSI
INITIAL HYDRO MUD PRESSURE		2315
INITIAL CLOSED IN PRESSURE	30 MINUTES	1379 *
INITIAL FLOW	30 MINUTES	303-324
FINAL FLOW	30 MINUTES	354-390
FINAL CLOSED IN PRESSURE	45 MINUTES	1377
FINAL HYDRO MUD PRESSURE		2133

TOTAL DEPTH 4225

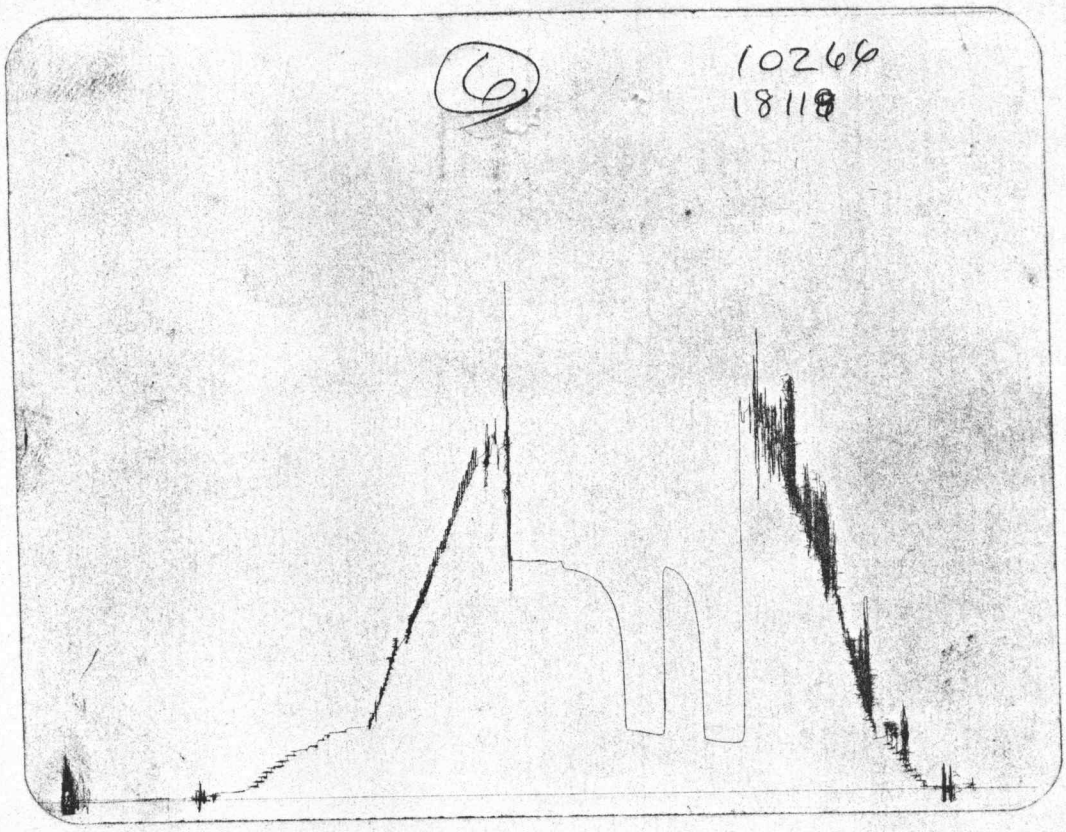
PACKER DEPTH 4388

AK-1 NO. 10266 DEPTH 4220

1ST FLOW PRESSURE	INITIAL CIP	2ND FLOW PRESSURE	FINAL CIP
303	324	354	390
303	1112	362	960
308	1251	373	1165
324	1326	390	1233
	1358		1298
	1379		1330
			1347
			1360
			1372
			1377
10 MINUTE INTERVAL	5 MINUTE INTERVAL	10 MINUTE INTERVAL	5 MINUTE INTERVAL

REMARKS * INITIAL C.I.P. IS 25 INSTEAD OF 30 MINUTE INTERVAL.

SPECIAL PRESSURE DATA



Tool Open: 1st Flow ___ hr. 30 mins: Shut-in Initial ___ hr. 30 min: 2nd Flow ___ hr. 30 min: Shut-in Final ___ hr. 45 min

	Field Reading	Corrected Reading
(A) Initial Hydrostatic Pressure	2334	2315
(B) Initial 1st Flow Pressure	281	303
(C) Final 1st Flow Pressure	328	324
(D) Initial Shut-in Pressure	1379	1379
(E) Initial 2nd Flow Pressure	352	354
(F) Final 2nd Flow Pressure	375	390
(G) Final Shut-in Pressure	1379	1377
(H) Final Hydrostatic Pressure	2334	2133

18118