

SUPERIOR TESTERS ENTERPRISES INC.

- WELL IDENTIFICATION DATA

COMPANY : HINKLE OIL COMPANY WELL NAME : WEISS #1
ADDRESS : 1016 UNION CENTER, WICHITA LOCATION : SW-SW-SE 23-25-21
STATE & COUNTY : KANSAS, FORD FIELD :
ELEV. (GR) : 2284 (KB) : 2289 TEST DATE : 1-27-1989

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY DRILL PIPE LENGTH(ft) : 3616
TEST INT. KB : 4117 to 4141 DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 24 WEIGHT PIPE LENGTH(ft) : 482
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-*kb*) : 4141 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 8.9 TOP PACKER DEPTH(*kb*) : 4112
MUD VISCOSITY : 46 BOTTOM PACKER DEPTH(*kb*) : 4117
MUD CHLORIDES : 3000 DUAL PACKERS : YES
SURFACE CHOKE : 3/4 PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4 PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2 TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2 REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 109 TEST TICKET NUMBER : 10616

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 18 MIN.
2nd Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 32 MIN.

RECOVERY

Recovered 700 feet of GAS IN THE PIPE
Recovered 20 feet of CLEAN GASSY OIL
Recovered 20 feet of HEAVY OIL CUT MUD
Recovered 70 feet of OIL AND GAS CUT MUD
Recovered 50 feet of SLIGHTLY MUDDY WATER WITH A TRACE OF OIL

REMARKS :

WITNESSED BY : ORVIE HOWELL TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : HINKLE OIL COMPANY
 DATE OF TEST : 1-27-1989
 DEPTH : 4135.0

WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 23-25-21
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:1					
Depth : 4135.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.911	2096.15	5.38	2101.53
-4:00 1ST FLOW	0.0	.066	77.28	-4.59	72.69
- 4:05	5.0	.044	53.21	-4.75	48.46
- 4:10	10.0	.040	48.83	-4.78	44.05
- 4:15	15.0	.039	47.74	-4.79	42.95
- 4:20	20.0	.040	48.83	-4.78	44.05
- 4:25	25.0	.040	48.83	-4.78	44.05
- 4:30	30.0	.040	48.83	-4.78	44.05
- 4:35	35.0	.041	49.93	-4.77	45.15
- 4:40	40.0	.043	52.11	-4.76	47.36
- 4:45	45.0	.046	55.40	-4.74	50.66
- 4:50	50.0	.050	59.77	-4.71	55.07
- 4:55	55.0	.050	59.77	-4.71	55.07
- 5:00	60.0	.050	59.77	-4.71	55.07
-5:00 END FLOW	0.0	.050	59.77	-4.71	55.07
- 5:03	3.0	.209	233.76	-3.58	230.18
- 5:06	6.0	.813	894.68	.70	895.37
- 5:09	9.0	1.021	1122.28	1.90	1124.18
- 5:12	12.0	1.075	1181.37	2.15	1183.52
- 5:15	15.0	1.098	1206.53	2.26	1208.79
- 5:18	18.0	1.118	1228.42	2.35	1230.77
- 5:21	21.0	1.132	1243.74	2.42	1246.15
- 5:24	24.0	1.144	1256.87	2.47	1259.34
- 5:27	27.0	1.156	1270.00	2.53	1272.53
- 5:30	30.0	1.171	1286.41	2.60	1289.01
- 5:33	33.0	1.179	1295.17	2.64	1297.80
- 5:36	36.0	1.186	1302.83	2.67	1305.49
- 5:39	39.0	1.193	1310.49	2.70	1313.19
- 5:42	42.0	1.197	1314.86	2.72	1317.58
- 5:45	45.0	1.200	1318.15	2.73	1320.88
-5:45 1ST SHUT-IN	0.0	1.200	1318.15	2.73	1320.88
-5:45 2ND FLOW	0.0	.097	111.20	-4.37	106.83
- 5:50	5.0	.074	86.03	-4.54	81.50
- 5:55	10.0	.071	82.75	-4.56	78.19
- 6:00	15.0	.070	81.66	-4.57	77.09
- 6:05	20.0	.069	80.56	-4.57	75.99
- 6:10	25.0	.072	83.85	-4.55	79.30
- 6:15	30.0	.073	84.94	-4.54	80.40
- 6:20	35.0	.075	87.13	-4.53	82.60
- 6:25	40.0	.078	90.41	-4.51	85.90

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : HINKLE OIL COMPANY
 DATE OF TEST : 1-27-1989
 DEPTH : 4135.0

WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 23-25-21
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO. : 1					
- 6:30	45.0	.080	92.60	-4.49	88.11
- 6:35	50.0	.080	92.60	-4.49	88.11
- 6:40	55.0	.080	92.60	-4.49	88.11
- 6:44	59.0	.080	92.60	-4.49	88.11
-6:44 END FLOW	0.0	.080	92.60	-4.49	88.11
- 6:47	3.0	.316	350.84	-2.82	348.02
- 6:50	6.0	.862	948.29	1.05	949.34
- 6:53	9.0	1.018	1118.99	1.88	1120.88
- 6:56	12.0	1.056	1160.58	2.06	1162.64
- 6:59	15.0	1.085	1192.31	2.20	1194.51
- 7:02	18.0	1.108	1217.48	2.30	1219.78
- 7:05	21.0	1.126	1237.17	2.39	1239.56
- 7:08	24.0	1.139	1251.40	2.45	1253.85
- 7:11	27.0	1.151	1264.53	2.51	1267.03
- 7:14	30.0	1.159	1273.28	2.54	1275.82
- 7:17	33.0	1.166	1280.94	2.58	1283.52
- 7:20	36.0	1.172	1287.51	2.60	1290.11
- 7:23	39.0	1.176	1291.88	2.62	1294.51
- 7:26	42.0	1.182	1298.45	2.65	1301.10
- 7:28	44.0	1.186	1302.83	2.67	1305.49
-7:28 2ND SHUT-IN	0.0	1.186	1302.83	2.67	1305.49
-2ND HYDROSTATIC	0.0	1.855	2034.87	5.52	2040.39

CALCULATED RECOVERY ANALYSIS

DST Number:1

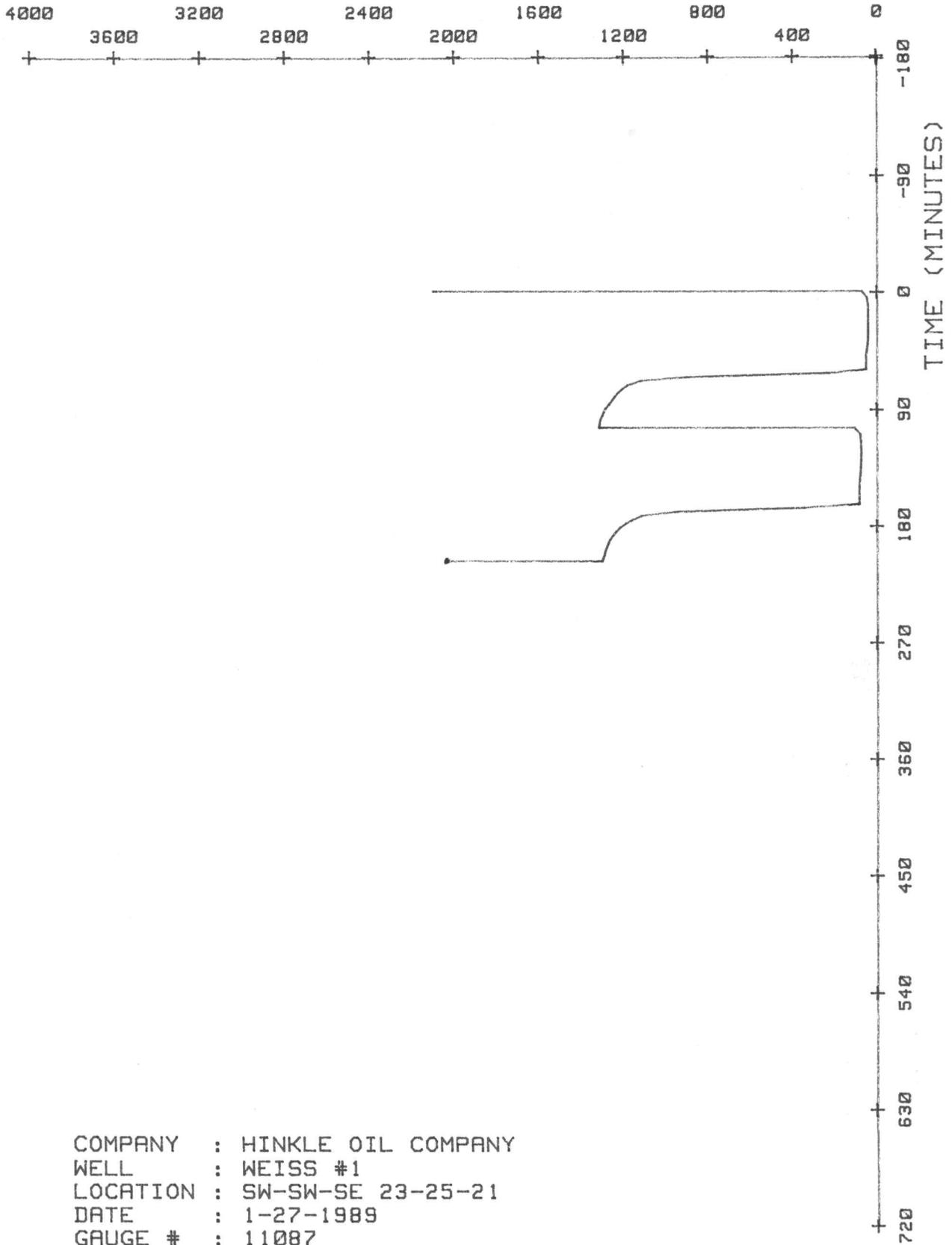
Test ticket number:10616

Sample #	Total Feet	***** Gas ***** %	***** Gas ***** Feet	***** Oil ***** %	***** Oil ***** Feet	***** Mud ***** %	***** Mud ***** Feet
1	700	100.00	700.00	0.00	0.00	0.00	0.00
2	20	30.00	6.00	70.00	14.00	0.00	0.00
3	20	0.00	0.00	38.00	7.60	50.00	10.00
4	70	12.00	8.40	25.00	17.50	30.00	21.00
5	50	0.00	0.00	0.00	0.00	25.00	12.50
TOTAL	860	83.07	714.40	4.55	39.10	5.06	43.50

Sample #	Total Feet	**** WATER **** %	**** WATER **** Feet	Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
1	700	0.00	0.00	0.00	0.00	0.00
2	20	0.00	0.00	0.00	0.00	0.00
3	20	12.00	2.40	0.00	0.00	0.00
4	70	33.00	23.10	76000.00	.07	70.00
5	50	75.00	37.50	76000.00	.07	75.00
TOTAL	860	7.33	63.00			

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

PRESSURE (P S I G)



COMPANY : HINKLE OIL COMPANY
WELL : WEISS #1
LOCATION : SW-SW-SE 23-25-21
DATE : 1-27-1989
GAUGE # : 11087

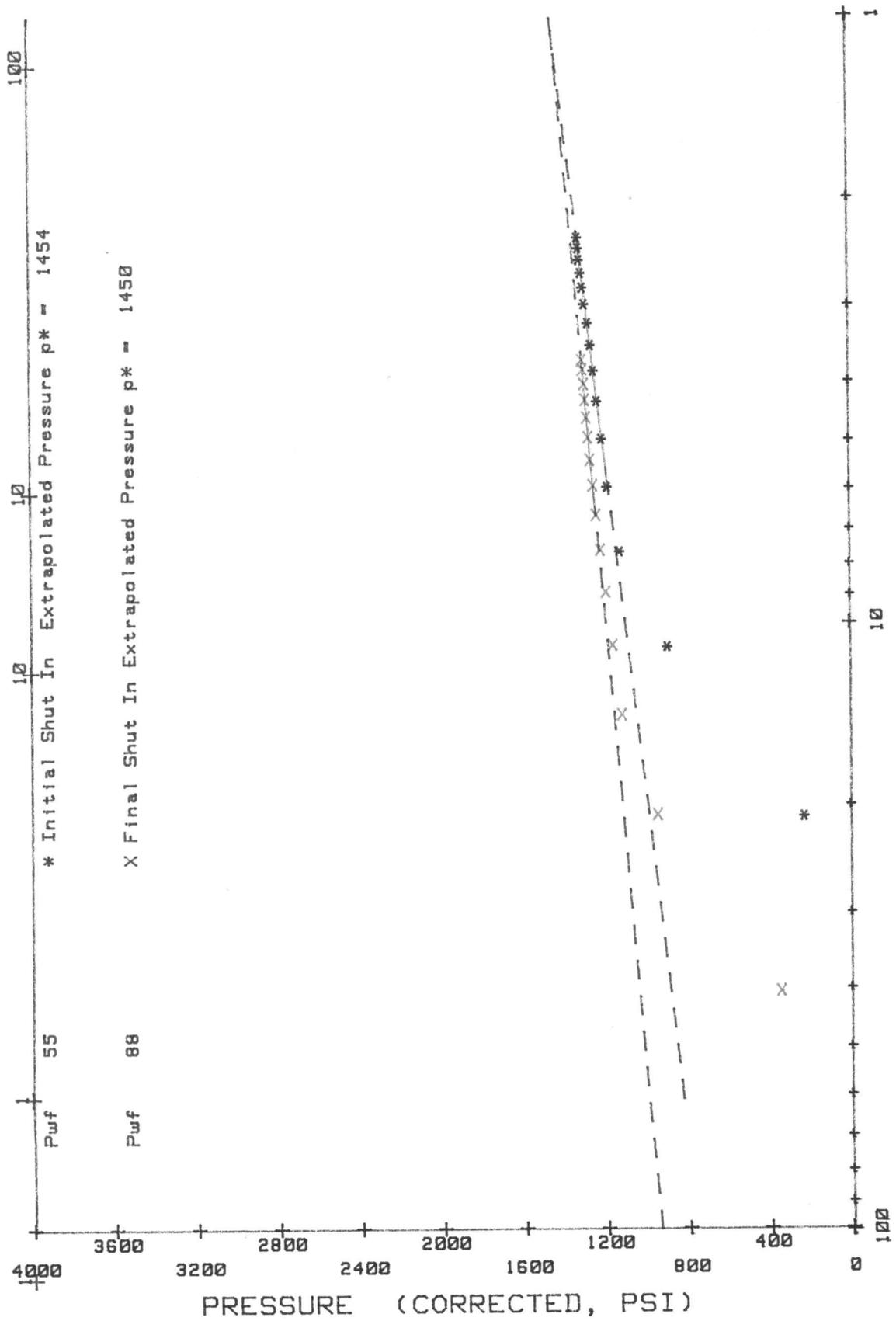
GAUGE # : 11087

DATE : 1-27-1989

LOCATION : SW-SW-SE 23-25-21

Pwf 55 * Initial Shut In Extrapolated Pressure p* = 1454

Pwf 88 X Final Shut In Extrapolated Pressure p* = 1450



SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : HINKLE OIL COMPANY
DATE OF TEST : 1-27-1989
DST. NO : 1

WELL NAME : WEISS #1
LOCATION : SW-SW-SE 23-25-21
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1454.00
Slope of Build-up Curve (psi/log cycle):	350.19
Effective Producing Time (min):	60.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : HINKLE OIL COMPANY
 WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 23-25-21
 STATE & COUNTY : KANSAS, FORD
 DATE OF TEST : 1-27-1989
 TEST INT. KB : 4117 to 4141
 TOTAL INTERVAL (ft) K.B. : 24.00
 ELEV. (GR) : 2284 (KB) : 2289
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth :	4135.0 ft-kg		
-5:00 END FLOW	0.00	0.00	55.07
	3.00	21.00	230.18
	6.00	11.00	895.37
	9.00	7.67	1124.45
	12.00	6.00	1183.92
	15.00	5.00	1209.25
	18.00	4.33	1231.28
	21.00	3.86	1246.70
	24.00	3.50	1259.91
	27.00	3.22	1273.13
	30.00	3.00	1289.65
	33.00	2.82	1298.46
	36.00	2.67	1306.17
	39.00	2.54	1313.88
	42.00	2.43	1318.28
	45.00	2.33	1321.59
-5:45 1ST SHUT-IN	0.00	0.00	1321.59

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : HINKLE OIL COMPANY
 WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 23-25-21
 STATE & COUNTY : KANSAS, FORD
 DATE OF TEST : 1-27-1989
 TEST INT. KB : 4117 to 4141
 TOTAL INTERVAL (ft) K.B. : 24.00
 ELEV. (GR) : 2284 (KB) : 2289
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth :	4135.0 ft-kb		
-6:44 END FLOW	0.00	0.00	88.11
	3.00	40.67	348.02
	6.00	20.83	949.34
	9.00	14.22	1121.15
	12.00	10.92	1163.00
	15.00	8.93	1194.93
	18.00	7.61	1220.26
	21.00	6.67	1240.09
	24.00	5.96	1254.41
	27.00	5.41	1267.62
	30.00	4.97	1276.43
	33.00	4.61	1284.14
	36.00	4.31	1290.75
	39.00	4.05	1295.15
	42.00	3.83	1301.76
	44.00	3.70	1306.17
-7:28 2ND SHUT-IN	0.00	0.00	1306.17

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : HINKLE OIL COMPANY
 DATE OF TEST : 1-27-1989
 DST. NO : 1

WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 23-25-21
 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp): 2.62
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md):23
 Gas (md): 0.00

TOTAL MOBILITY (md/cp):66

TOTAL COMPRESSIBILITY (psi-1): 9.09E-06

ESTIMATED DAMAGE RATIO: 1.14

CALCULATED DAMAGE RATIO: 1.48

Reservoir Temperature (F): 109.00

Formation Porosity :18

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

Reservoir Compressibility (psi-1): 4.80E-07

Calculated Skin Factor : 2.03

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 6.02

PRODUCTIVITY INDEX (bbl/psi): 0.00

Final Flow Pressure (psi): 88.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 28.78

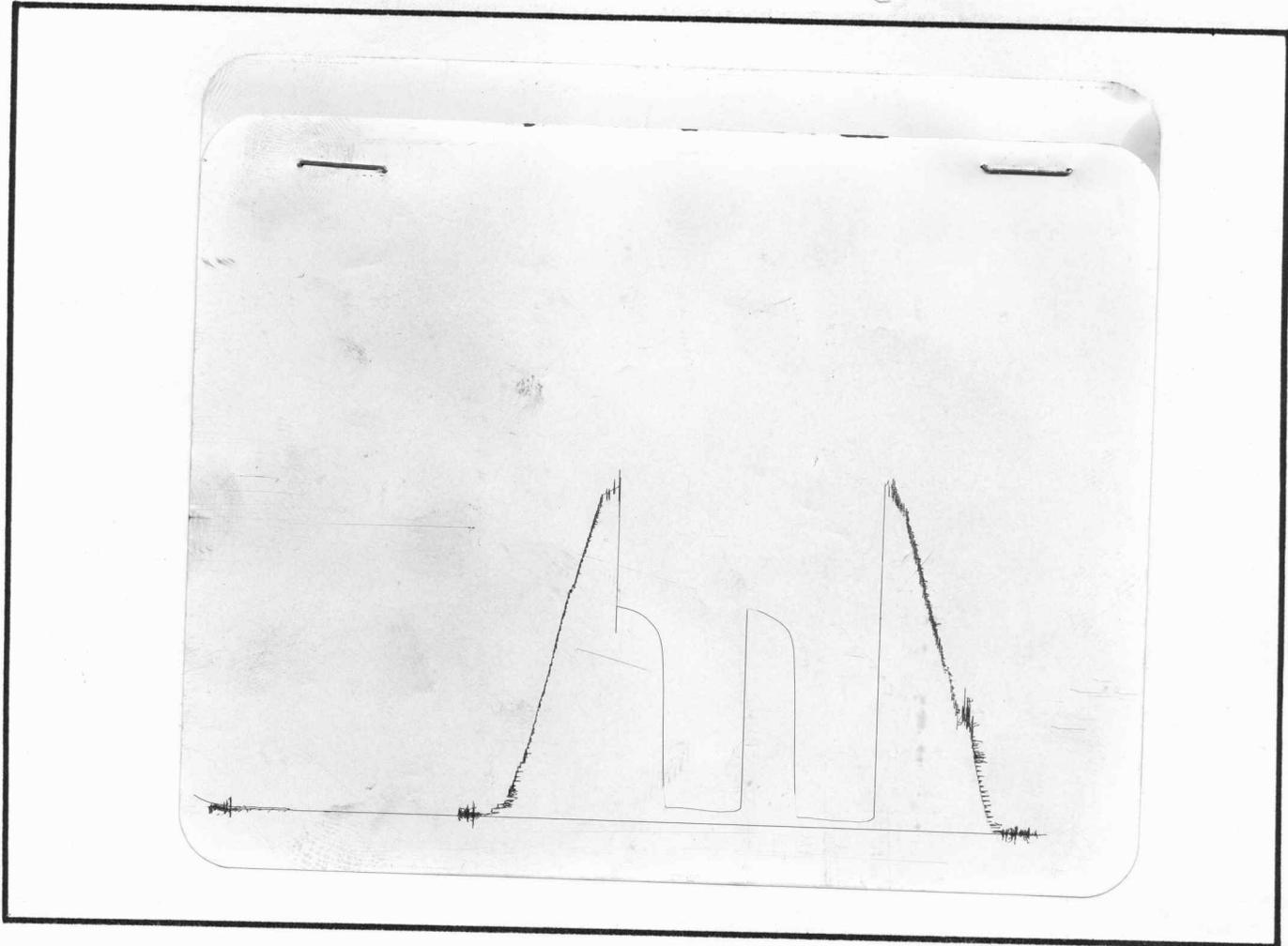
Total Flowing Time (min): 119.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1450.00

Slope of Build-up Curve (psi/log cycle): 252.26

Effective Producing Time (min): 119.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.



This is an actual photograph of recorder chart.

POINT	PRESSURE		P.S.I.
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	2110	2101	P.S.I.
(B) First Initial Flow Pressure	55	72	P.S.I.
(C) First Final Flow Pressure	66	55	P.S.I.
(D) Initial Closed-in Pressure	1320	1320	P.S.I.
(E) Second Initial Flow Pressure	77	106	P.S.I.
(F) Second Final Flow Pressure	88	88	P.S.I.
(G) Final Closed-in Pressure	1309	1305	P.S.I.
(H) Final Hydrostatic Mud	2012	2040	P.S.I.

COMPANY Hinkle Oil Company LEASE - WELL NO Weiss # 1 SEC 24 TWP 25 RGE: 5W-5W-5E 21 TEST NO. 1 DATE 1-27-1989

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : HINKLE OIL-COMPANY WELL NAME : WEISS #1 - -
ADDRESS : 1016 UNION CENTER, WICHITA LOCATION : SW-SW-SE 23-25-21
STATE & COUNTY : KANSAS, FORD FIELD :
ELEV. (GR) : 2284 (KB) : 2289 TEST DATE : 1-28-1989

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY	DRILL PIPE LENGTH(ft) : 3743
TEST INT. KB : 4146 to 4175	DRILL PIPE O.D.(in) : 3.82
ANCHOR LENGTH(ft) : 29	WEIGHT PIPE LENGTH(ft) : 482
TYPE OF TEST : Conventional	WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4175	DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8	DRILL COLLAR I.D.(in) : 2.259
MUD WEIGHT : 8.9	TOP PACKER DEPTH(kb) : 4141
MUD VISCOSITY : 46	BOTTOM PACKER DEPTH(kb) : 4146
MUD CHLORIDES : 3000	DUAL PACKERS :
SURFACE CHOKE : 3/4	PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4	PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2	TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2	REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 119	TEST TICKET NUMBER : 10617

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 34 MIN.
2nd Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 47 MIN.

RECOVERY

Recovered 230 feet of MUDDY WATER
• Recovered 400 feet of WATER-CHLORIDES 108000

REMARKS :

WITNESSED BY : ORVIE HOWELL TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : HINKLE OIL COMPANY
 DATE OF TEST : 1-28-1989
 DEPTH : 4172.0

WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 23-25-21
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	----- CORRECTED
TEST NO.:2					
Depth : 4172.0 ft-kb					
-1ST HYDROSTATIC	0.0	1.829	2006.42	5.59	2012.01
-7:30 1ST FLOW	0.0	.058	68.53	-4.65	63.88
- 7:35	5.0	.040	48.83	-4.78	44.05
- 7:40	10.0	.046	55.40	-4.74	50.66
- 7:45	15.0	.056	66.34	-4.66	61.67
- 7:55	25.0	.081	93.69	-4.49	89.21
- 8:00	30.0	.098	112.30	-4.37	107.93
- 8:10	40.0	.121	137.46	-4.20	133.26
- 8:20	50.0	.147	165.91	-4.02	161.89
- 8:30	60.0	.168	188.89	-3.87	185.02
-8:30 END FLOW	0.0	.168	188.89	-3.87	185.02
- 8:33	3.0	1.055	1159.48	2.06	1161.54
- 8:36	6.0	1.090	1197.78	2.22	1200.00
- 8:39	9.0	1.103	1212.00	2.28	1214.29
- 8:42	12.0	1.116	1226.23	2.34	1228.57
- 8:45	15.0	1.119	1229.51	2.36	1231.87
- 8:48	18.0	1.123	1233.89	2.37	1236.26
- 8:51	21.0	1.128	1239.36	2.40	1241.76
- 8:54	24.0	1.133	1244.83	2.42	1247.25
- 8:57	27.0	1.140	1252.49	2.45	1254.95
- 9:00	30.0	1.144	1256.87	2.47	1259.34
- 9:05	35.0	1.144	1256.87	2.47	1259.34
- 9:10	40.0	1.144	1256.87	2.47	1259.34
- 9:14	44.0	1.146	1259.06	2.48	1261.54
-9:14 1ST SHUT-IN	0.0	1.146	1259.06	2.48	1261.54
-9:14 2ND FLOW	0.0	.218	243.60	-3.52	240.09
- 9:19	5.0	.214	239.23	-3.55	235.68
- 9:24	10.0	.219	244.70	-3.51	241.19
- 9:29	15.0	.233	260.02	-3.41	256.61
- 9:34	20.0	.235	262.21	-3.40	258.81
- 9:39	25.0	.241	268.77	-3.35	265.42
- 9:44	30.0	.251	279.71	-3.28	276.43
- 9:49	35.0	.255	284.09	-3.25	280.84
- 9:54	40.0	.256	285.19	-3.25	281.94
- 9:59	45.0	.261	290.66	-3.21	287.44
- 10:04	50.0	.265	295.03	-3.18	291.85
- 10:09	55.0	.274	304.88	-3.12	301.76
- 10:12	58.0	.280	311.45	-3.08	308.37
-10:12 END FLOW	0.0	.280	311.45	-3.08	308.37
- 10:15	3.0	1.041	1144.16	1.99	1146.15

SUPERIOR TESTERS ENTERPRISES INC.

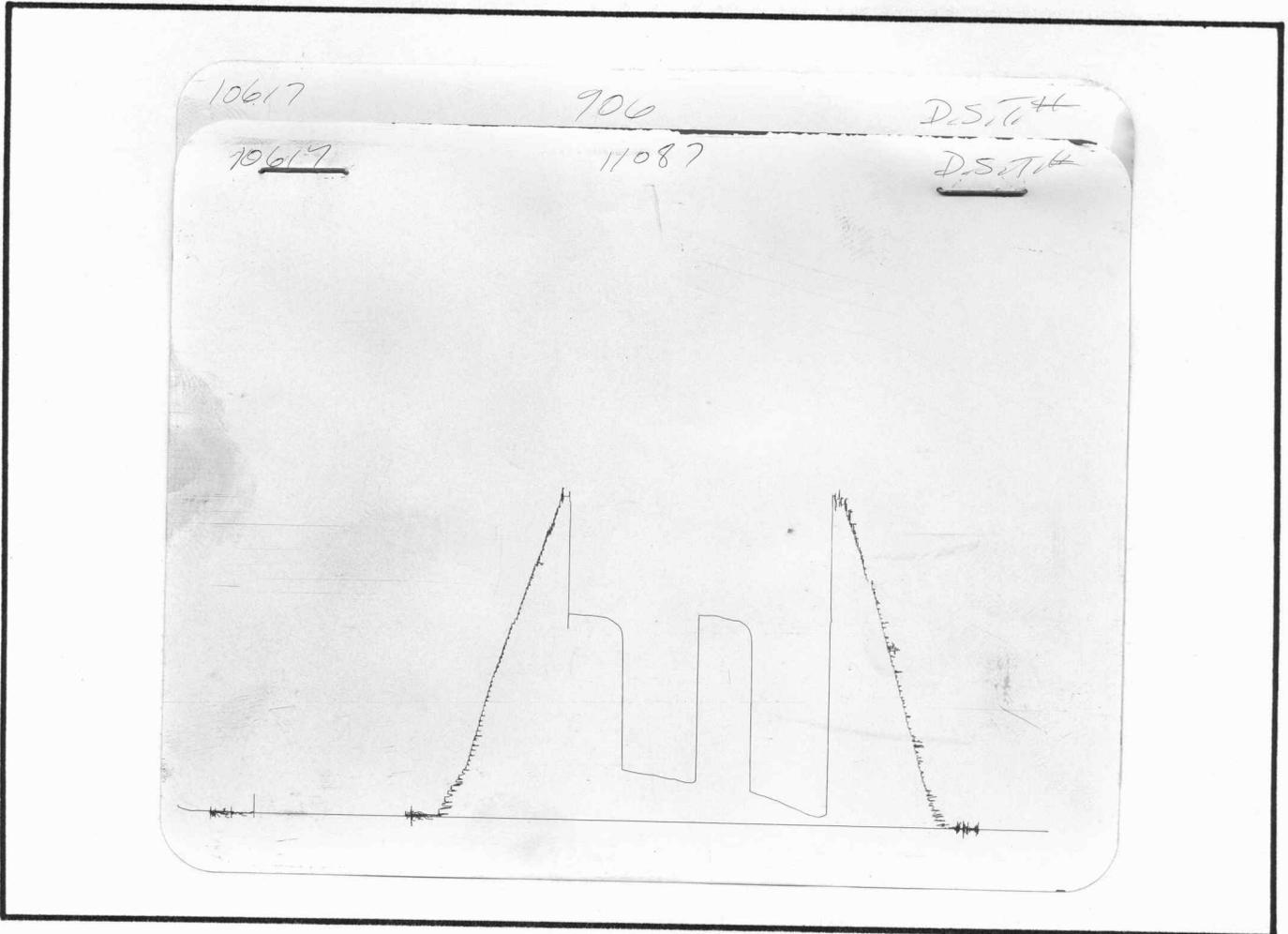
SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : HINKLE OIL COMPANY
 DATE OF TEST : 1-28-1989
 DEPTH : 4172.0

WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 23-25-21
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:2					
- 10:18	6.0	1.080	1186.84	2.17	1189.01
- 10:21	9.0	1.091	1198.87	2.23	1201.10
- 10:24	12.0	1.108	1217.48	2.30	1219.78
- 10:27	15.0	1.118	1228.42	2.35	1230.77
- 10:32	20.0	1.125	1236.08	2.38	1238.46
- 10:37	25.0	1.129	1240.45	2.40	1242.86
- 10:42	30.0	1.130	1241.55	2.41	1243.96
- 10:47	35.0	1.132	1243.74	2.42	1246.15
- 10:52	40.0	1.134	1245.93	2.43	1248.35
- 10:57	45.0	1.136	1248.11	2.44	1250.55
-10:57 2ND SHUT-IN	0.0	1.136	1248.11	2.44	1250.55
-2ND HYDROSTATOC	0.0	1.792	1965.93	5.50	1971.43

C 5 W - 5 W - 5 E



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2023</u>	<u>2012</u>	P.S.I.
(B) First Initial Flow Pressure	<u>44</u>	<u>63</u>	P.S.I.
(C) First Final Flow Pressure	<u>198</u>	<u>185</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>1265</u>	<u>1261</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>240</u>	<u>232</u>	P.S.I.
(F) Second Final Flow Pressure	<u>309</u>	<u>308</u>	P.S.I.
(G) Final Closed-in Pressure	<u>1265</u>	<u>1250</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>1979</u>	<u>1971</u>	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : HINKLE OIL COMPANY WELL NAME : WEISS #1
ADDRESS : 1016 UNION CENTER, WICHITA LOCATION : SW-SW-SE 24-255-21W
STATE & COUNTY : KANSAS, FORD FIELD :
ELEV. (GR) : 2284 (KB) : 2289 TEST DATE : 1-30-1989

EQUIPMENT AND HOLE DATA

FORMATION TESTED : CHEROKEE DRILL PIPE LENGTH(ft) : 4177
TEST INT. KB : 4646 to 4720 DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 74 WEIGHT PIPE LENGTH(ft) : 450
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kg) : 4720 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 9.2 TOP PACKER DEPTH(kb) : 4641
MUD VISCOSITY : 48 BOTTOM PACKER DEPTH(kb) : 4646
MUD CHLORIDES : 9000 DUAL PACKERS :
SURFACE CHOKE : 3/4 PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4 PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2 TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2 REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 107 TEST TICKET NUMBER : 10618

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : FAIR BLOW-BUILT TO BOTTOM OF THE BUCKET IN 17 MIN.
2nd Opening : FAIR BLOW-BUILT TO BOTTOM OF THE BUCKET IN 15 MIN.

RECOVERY

Recovered 1410 feet of GAS IN THE PIPE
Recovered 130 feet of HEAVY OIL AND GAS CUT MUD
Recovered 60 feet of VERY GASSY OIL CUT MUD

REMARKS :

WITNESSED BY : ORVIE HOWELL TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : HINKLE OIL COMPANY
 DATE OF TEST : 1-30-1989
 DEPTH : 4714.0

WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 24-25S-21W
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.:3					
Depth : 4714.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.162	2370.80	4.74	2375.55
-6:30 1ST FLOW	0.0	.089	102.45	-4.43	98.02
- 6:35	5.0	.075	87.13	-4.53	82.60
- 6:40	10.0	.075	87.13	-4.53	82.60
- 6:45	15.0	.074	86.03	-4.54	81.50
- 6:50	20.0	.077	89.32	-4.52	84.80
- 6:55	25.0	.079	91.51	-4.50	87.00
- 7:00	30.0	.079	91.51	-4.50	87.00
- 7:05	35.0	.076	88.22	-4.52	83.70
- 7:10	40.0	.071	82.75	-4.56	78.19
- 7:15	45.0	.068	79.47	-4.58	74.89
- 7:20	50.0	.071	82.75	-4.56	78.19
- 7:25	55.0	.076	88.22	-4.52	83.70
- 7:28	58.0	.081	93.69	-4.49	89.21
-7:28 END FLOW	0.0	.081	93.69	-4.49	89.21
- 7:31	3.0	.087	100.26	-4.45	95.81
- 7:34	6.0	.094	107.92	-4.40	103.52
- 7:37	9.0	.098	112.30	-4.37	107.93
- 7:40	12.0	.105	119.96	-4.32	115.64
- 7:43	15.0	.123	139.65	-4.19	135.46
- 7:46	18.0	.145	163.73	-4.03	159.69
- 7:49	21.0	.157	176.86	-3.95	172.91
- 7:52	24.0	.180	202.02	-3.79	198.24
- 7:55	27.0	.213	238.13	-3.55	234.58
- 7:58	30.0	.268	298.32	-3.16	295.15
- 8:01	33.0	.306	339.90	-2.89	337.00
- 8:04	36.0	.351	389.14	-2.57	386.56
- 8:07	39.0	.389	430.72	-2.31	428.41
- 8:10	42.0	.420	464.64	-2.09	462.56
- 8:13	45.0	.450	497.47	-1.87	495.59
- 8:15	47.0	.470	519.35	-1.73	517.62
-8:15 1ST SHUT-IN	0.0	.470	519.35	-1.73	517.62
-8:15 2ND FLOW	0.0	.139	157.16	-4.08	153.08
- 8:20	5.0	.118	134.18	-4.23	129.96
- 8:25	10.0	.118	134.18	-4.23	129.96
- 8:30	15.0	.117	133.09	-4.23	128.85
- 8:35	20.0	.117	133.09	-4.23	128.85
- 8:40	25.0	.112	127.62	-4.27	123.35
- 8:45	30.0	.106	121.05	-4.31	116.74
- 8:50	35.0	.107	122.14	-4.30	117.84

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : HINKLE OIL COMPANY
 DATE OF TEST : 1-30-1989
 DEPTH : 4714.0

WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 24-25S-21W
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.:3					
- 8:55	40.0	.116	131.99	-4.24	127.75
- 9:00	45.0	.120	136.37	-4.21	132.16
- 9:05	50.0	.125	141.84	-4.18	137.67
- 9:10	55.0	.125	141.84	-4.18	137.67
- 9:14	59.0	.125	141.84	-4.18	137.67
-9:14 END FLOW	0.0	.125	141.84	-4.18	137.67
- 9:17	3.0	.133	150.59	-4.12	146.48
- 9:20	6.0	.137	154.97	-4.09	150.88
- 9:23	9.0	.160	180.14	-3.93	176.21
- 9:26	12.0	.177	198.74	-3.81	194.93
- 9:29	15.0	.229	255.64	-3.44	252.20
- 9:32	18.0	.273	303.79	-3.13	300.66
- 9:35	21.0	.315	349.75	-2.83	346.92
- 9:38	24.0	.352	390.23	-2.57	387.67
- 9:41	27.0	.376	416.49	-2.40	414.10
- 9:44	30.0	.402	444.94	-2.21	442.73
- 9:47	33.0	.427	472.30	-2.04	470.26
- 9:50	36.0	.452	499.66	-1.86	497.80
- 9:53	39.0	.473	522.64	-1.71	520.93
- 9:56	42.0	.495	546.71	-1.55	545.15
- 9:59	45.0	.513	566.40	-1.43	564.98
- 10:02	48.0	.540	595.95	-1.24	594.71
- 10:03	49.0	.547	603.61	-1.19	602.42
-10:03 2ND SHUT-IN	0.0	.547	603.61	-1.19	602.42
-2ND HYDROSTATIC	0.0	2.149	2356.58	4.78	2361.35

CALCULATED RECOVERY ANALYSIS

DST Number:3

Test ticket number:10618

Sample #	Total Feet	***** Gas **** %	***** Gas **** Feet	***** Oil **** %	***** Oil **** Feet	***** Mud **** %	***** Mud **** Feet
1	1410	100.00	1410.00	0.00	0.00	0.00	0.00
2	70	15.00	10.50	14.00	9.80	70.00	49.00
3	60	5.00	3.00	15.00	9.00	80.00	48.00
4	60	55.00	33.00	20.00	12.00	25.00	15.00
TOTAL	1600	91.03	1456.50	1.93	30.80	7.00	112.00

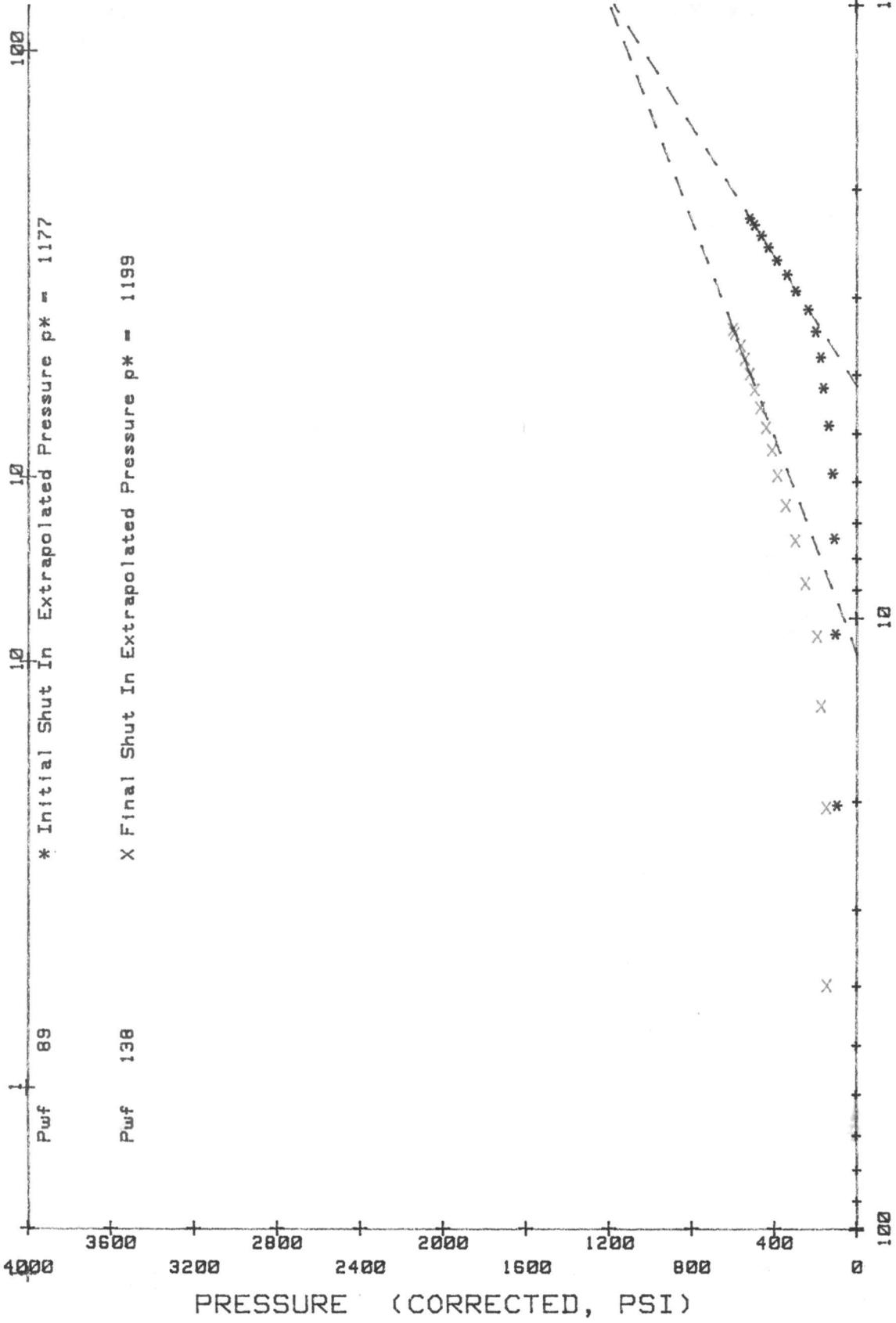
Sample #	Total Feet	**** WATER **** %	**** WATER **** Feet	Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
1	1410	0.00	0.00	0.00	0.00	0.00
2	70	0.00	0.00	0.00	0.00	0.00
3	60	0.00	0.00	0.00	0.00	0.00
4	60	0.00	0.00	0.00	0.00	0.00
TOTAL	1600	0.00	0.00			

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

GAUGE # : 11087

DATE : 1-30-1989

LOCATION : SW-SW-SE 24-25S-21W



SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : HINKLE OIL COMPANY
DATE OF TEST : 1-30-1989
DST. NO : 3

WELL NAME : WEISS #1
LOCATION : SW-SW-SE 24-25S-21W
SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi):	1177.00
Slope of Build-up Curve (psi/log cycle):	1896.39
Effective Producing Time (min):	58.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : HINKLE OIL COMPANY
 WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 24-25S-21W
 STATE & COUNTY : KANSAS, FORD
 DATE OF TEST : 1-30-1989
 TEST INT. KB : 4646 to 4720
 TOTAL INTERVAL (ft) K.B. : 74.00
 ELEV. (GR) : 2284 (KB) : 2289
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth :	4714.0 ft-kb		
-7:28 END FLOW	0.00	0.00	89.21
	3.00	20.33	95.81
	6.00	10.67	103.52
	9.00	7.44	107.93
	12.00	5.83	115.64
	15.00	4.87	135.46
	18.00	4.22	159.69
	21.00	3.76	172.91
	24.00	3.42	198.24
	27.00	3.15	234.58
	30.00	2.93	295.15
	33.00	2.76	337.00
	36.00	2.61	386.56
	39.00	2.49	428.41
	42.00	2.38	462.56
	45.00	2.29	495.59
	47.00	2.23	517.62
-8:15 1ST SHUT-IN	0.00	0.00	517.62

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : HINKLE OIL COMPANY
 WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 24-25S-21W
 STATE & COUNTY : KANSAS, FORD
 DATE OF TEST : 1-30-1989
 TEST INT. KB : 4646 to 4720
 TOTAL INTERVAL (ft) K.B. : 74.00
 ELEV. (GR) : 2284 (KB) : 2289
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth :	4714.0 ft-kb		
-9:14 END FLOW	0.00	0.00	137.67
	3.00	40.00	146.48
	6.00	20.50	150.88
	9.00	14.00	176.21
	12.00	10.75	194.93
	15.00	8.80	252.20
	18.00	7.50	300.66
	21.00	6.57	346.92
	24.00	5.88	387.67
	27.00	5.33	414.10
	30.00	4.90	442.73
	33.00	4.55	470.26
	36.00	4.25	497.80
	39.00	4.00	520.93
	42.00	3.79	545.15
	45.00	3.60	564.98
	48.00	3.44	594.71
-10:03 2ND SHUT-IN	49.00	3.39	602.42
	0.00	0.00	602.42

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : HINKLE OIL COMPANY
 DATE OF TEST : 1-30-1989
 DST. NO : 3

WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 24-25S-21W
 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY

Oil (md.ft/cp):41
 Gas (md.ft/cp): 0.00

EFFECTIVE PERMEABILITY

Oil (md):04
 Gas (md): 0.00

TOTAL MOBILITY (md/cp):05

TOTAL COMPRESSIBILITY (psi⁻¹): 8.78E-06

ESTIMATED DAMAGE RATIO:20

CALCULATED DAMAGE RATIO:38

Reservoir Temperature (F): 107.00

Formation Porosity :18

Formation Thickness (ft): 10.00

Wellbore Radius (in): 3.94

Reservoir Compressibility (psi⁻¹): 4.80E-07

Calculated Skin Factor : -1.79

PRODUCTION WITH DAMAGE REMOVED (bbl/D): 2.83

PRODUCTIVITY INDEX (bbl/psi): 0.00

Final Flow Pressure (psi): 138.00

APPROXIMATE RADIUS OF INVESTIGATION (ft): 7.72

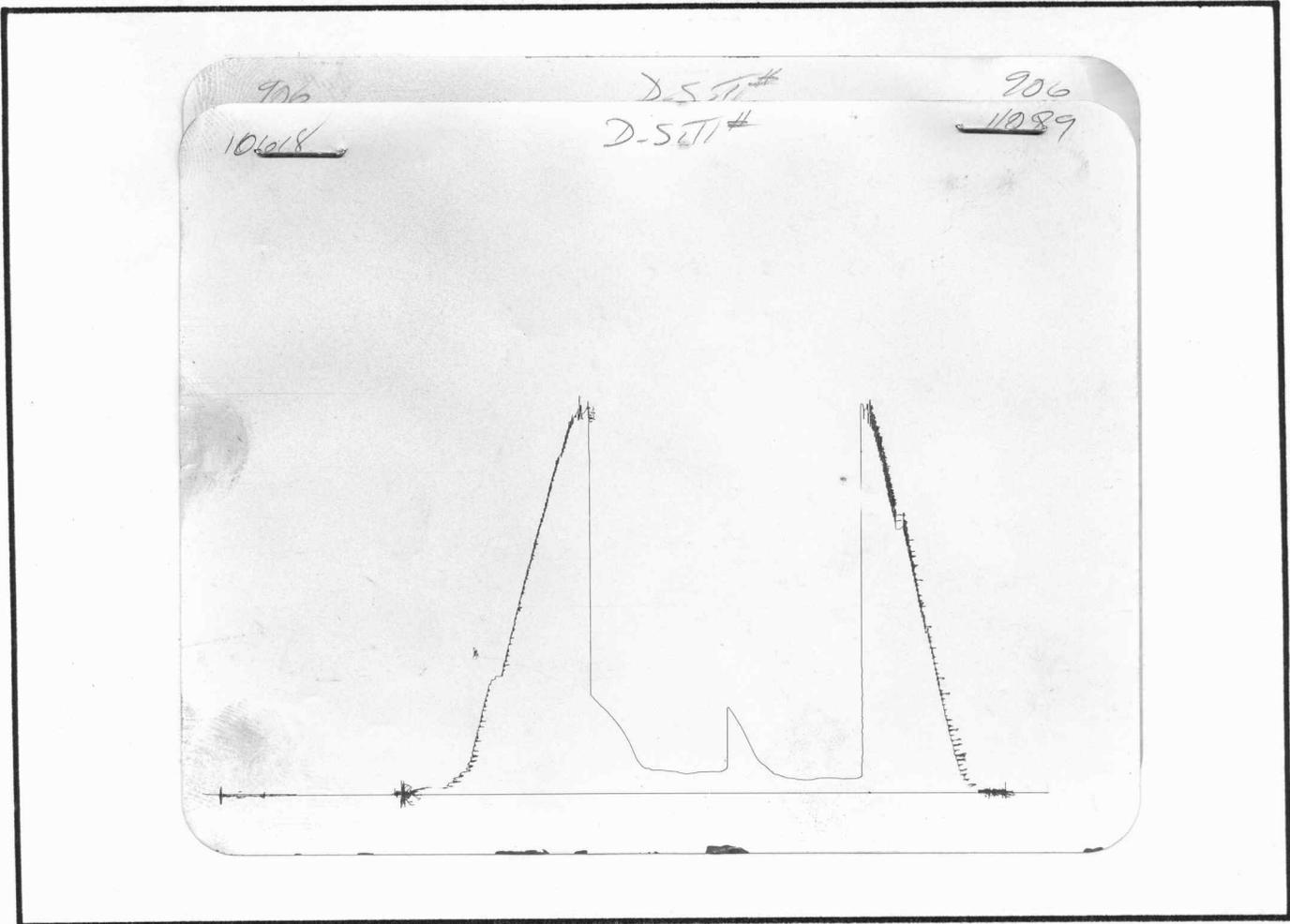
Total Flowing Time (min): 117.00

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1199.00

Slope of Build-up Curve (psi/log cycle): 1130.47

Effective Producing Time (min): 117.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2340</u>	<u>2375</u>	P.S.I.
(B) First Initial Flow Pressure	<u>88</u>	<u>98</u>	P.S.I.
(C) First Final Flow Pressure	<u>99</u>	<u>89</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>530</u>	<u>517</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>132</u>	<u>153</u>	P.S.I.
(F) Second Final Flow Pressure	<u>165</u>	<u>137</u>	P.S.I.
(G) Final Closed-in Pressure	<u>563</u>	<u>602</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>2318</u>	<u>2361</u>	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : HINKLE OIL COMPANY WELL NAME : WEISS #1
ADDRESS : 1016 UNION CENTER, WICHITA LOCATION : SW-SW-SE 24-255-21W
STATE & COUNTY : KANSAS, FORD FIELD :
ELEV. (GR) : 2284 (KB) : 2289 TEST DATE : 1-31-1989

EQUIPMENT AND HOLE DATA

FORMATION TESTED : MISSISSIPPI DRILL PIPE LENGTH(ft) : 4235
TEST INT. KB : 4736 to 4760 DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 24 WEIGHT PIPE LENGTH(ft) : 482
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 4760 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 9.0 TOP PACKER DEPTH(kb) : 4731
MUD VISCOSITY : 45 BOTTOM PACKER DEPTH(kb) : 4736
MUD CHLORIDES : 9000 DUAL PACKERS : YES
SURFACE CHOKE : 3/4 PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4 PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2 TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2 REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 122 TEST TICKET NUMBER : 10619

EXTRA EQUIPMENT :

ELEMENT SERIAL NO. : 11087
RANGE : 0 - 4350 CLOCK RANGE : 12 HOURS
CAL. EQU. : 1094.24 * Defl. + 5.06

SURFACE BLOW

1st Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 32 MIN.
2nd Opening : FAIR BLOW-BOTTOM OF THE BUCKET IN 17 MIN.

RECOVERY

Recovered 1200 feet of GAS IN THE PIPE
Recovered 330 feet of CLEAN GASSY OIL
Recovered 130 feet of VERY HEAVY OIL AND GAS CUT MUD

REMARKS :

WITNESSED BY : ORVIE HOWELL TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : HINKLE OIL COMPANY
 DATE OF TEST : 1-31-1989
 DEPTH : 4714.0

WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 24-25S-21W
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			CALC	CORR	CORRECTED
TEST NO.:4					
Depth : 4714.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.176	2386.12	4.71	2390.83
-4:15 1ST FLOW	0.0	.043	52.11	-4.76	47.36
- 4:20	5.0	.043	52.11	-4.76	47.36
- 4:25	10.0	.043	52.11	-4.76	47.36
- 4:30	15.0	.045	54.30	-4.74	49.56
- 4:35	20.0	.047	56.49	-4.73	51.76
- 4:40	25.0	.049	58.68	-4.71	53.96
- 4:45	30.0	.050	59.77	-4.71	55.07
- 4:50	35.0	.051	60.87	-4.70	56.17
- 4:55	40.0	.057	67.43	-4.66	62.78
- 5:00	45.0	.062	72.90	-4.62	68.28
- 5:05	50.0	.071	82.75	-4.56	78.19
- 5:10	55.0	.075	87.13	-4.53	82.60
- 5:13	58.0	.078	90.41	-4.51	85.90
-4:13 END FLOW	0.0	.078	90.41	-4.51	85.90
- 4:16	3.0	.804	884.83	.63	885.46
- 4:19	6.0	1.009	1109.15	1.84	1110.99
- 4:22	9.0	1.094	1202.16	2.24	1204.40
- 4:25	12.0	1.137	1249.21	2.44	1251.65
- 4:28	15.0	1.168	1283.13	2.58	1285.71
- 4:31	18.0	1.188	1305.01	2.68	1307.69
- 4:34	21.0	1.206	1324.71	2.76	1327.47
- 4:37	24.0	1.218	1337.84	2.82	1340.66
- 4:40	27.0	1.227	1347.69	2.86	1350.55
- 4:43	30.0	1.240	1361.91	2.92	1364.84
- 4:46	33.0	1.248	1370.67	2.96	1373.63
- 4:49	36.0	1.258	1381.61	3.00	1384.62
- 4:52	39.0	1.268	1392.55	3.05	1395.60
- 4:55	42.0	1.273	1398.02	3.07	1401.10
- 4:58	45.0	1.275	1400.21	3.08	1403.30
- 5:01	48.0	1.279	1404.59	3.10	1407.69
- 5:04	51.0	1.284	1410.06	3.13	1413.19
- 5:07	54.0	1.290	1416.63	3.15	1419.78
- 5:10	57.0	1.293	1419.91	3.17	1423.08
- 5:12	59.0	1.293	1419.91	3.17	1423.08
-6:12 1ST SHUT-IN	0.0	1.293	1419.91	3.17	1423.08
-6:12 2ND FLOW	0.0	.134	151.69	-4.11	147.58
- 6:17	5.0	.125	141.84	-4.18	137.67
- 6:22	10.0	.114	129.80	-4.25	125.55
- 6:27	15.0	.116	131.99	-4.24	127.75

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : HINKLE OIL COMPANY
 DATE OF TEST : 1-31-1989
 DEPTH : 4714.0

WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 24-25S-21W
 SERIAL NO. : 11087

COMMENTS	TIME min	DEFL in	PRESSURE PSIG		
			----- CALC	CORR	CORRECTED
TEST NO.:4					
- 6:32	20.0	.123	139.65	-4.19	135.46
- 6:37	25.0	.128	145.12	-4.15	140.97
- 6:42	30.0	.133	150.59	-4.12	146.48
- 6:47	35.0	.136	153.88	-4.10	149.78
- 6:52	40.0	.143	161.54	-4.05	157.49
- 6:57	45.0	.144	162.63	-4.04	158.59
- 6:55	43.0	.107	122.14	-4.30	117.84
- 7:07	55.0	.150	169.20	-4.00	165.20
- 7:12	60.0	.151	170.29	-3.99	166.30
-7:12 END FLOW	0.0	.151	170.29	-3.99	166.30
- 7:15	3.0	.846	930.79	.93	931.72
- 7:18	6.0	.994	1092.73	1.77	1094.51
- 7:21	9.0	1.053	1157.29	2.05	1159.34
- 7:24	12.0	1.094	1202.16	2.24	1204.40
- 7:27	15.0	1.129	1240.45	2.40	1242.86
- 7:30	18.0	1.152	1265.62	2.51	1268.13
- 7:33	21.0	1.175	1290.79	2.62	1293.41
- 7:36	24.0	1.191	1308.30	2.69	1310.99
- 7:39	27.0	1.203	1321.43	2.75	1324.18
- 7:42	30.0	1.211	1330.18	2.78	1332.97
- 7:45	33.0	1.216	1335.65	2.81	1338.46
- 7:48	36.0	1.222	1342.22	2.84	1345.05
- 7:51	39.0	1.228	1348.78	2.86	1351.65
- 7:54	42.0	1.234	1355.35	2.89	1358.24
- 7:57	45.0	1.238	1359.73	2.91	1362.64
- 8:00	48.0	1.241	1363.01	2.92	1365.93
- 8:03	51.0	1.243	1365.20	2.93	1368.13
- 8:05	53.0	1.251	1373.95	2.97	1376.92
- 8:09	57.0	1.256	1379.42	2.99	1382.42
- 8:12	60.0	1.263	1387.08	3.03	1390.11
- 8:13	61.0	1.266	1390.37	3.04	1393.41
-8:13 2ND SHUT-IN	0.0	1.266	1390.37	3.04	1393.41
-2ND HYDROSTATIC	0.0	2.152	2359.86	4.77	2364.63

CALCULATED RECOVERY ANALYSIS

DST Number: 4

Test ticket number: 10619

Sample #	Total Feet	***** Gas **** %	***** Gas **** Feet	***** Oil **** %	***** Oil **** Feet	***** Mud **** %	***** Mud **** Feet
1	1200	100.00	1200.00	0.00	0.00	0.00	0.00
2	330	18.00	59.40	82.00	270.60	0.00	0.00
3	64	32.00	20.48	28.00	17.92	40.00	25.60
4	66	18.00	11.88	20.00	13.20	62.00	40.92
TOTAL	1660	77.82	1291.76	18.18	301.72	4.01	66.52

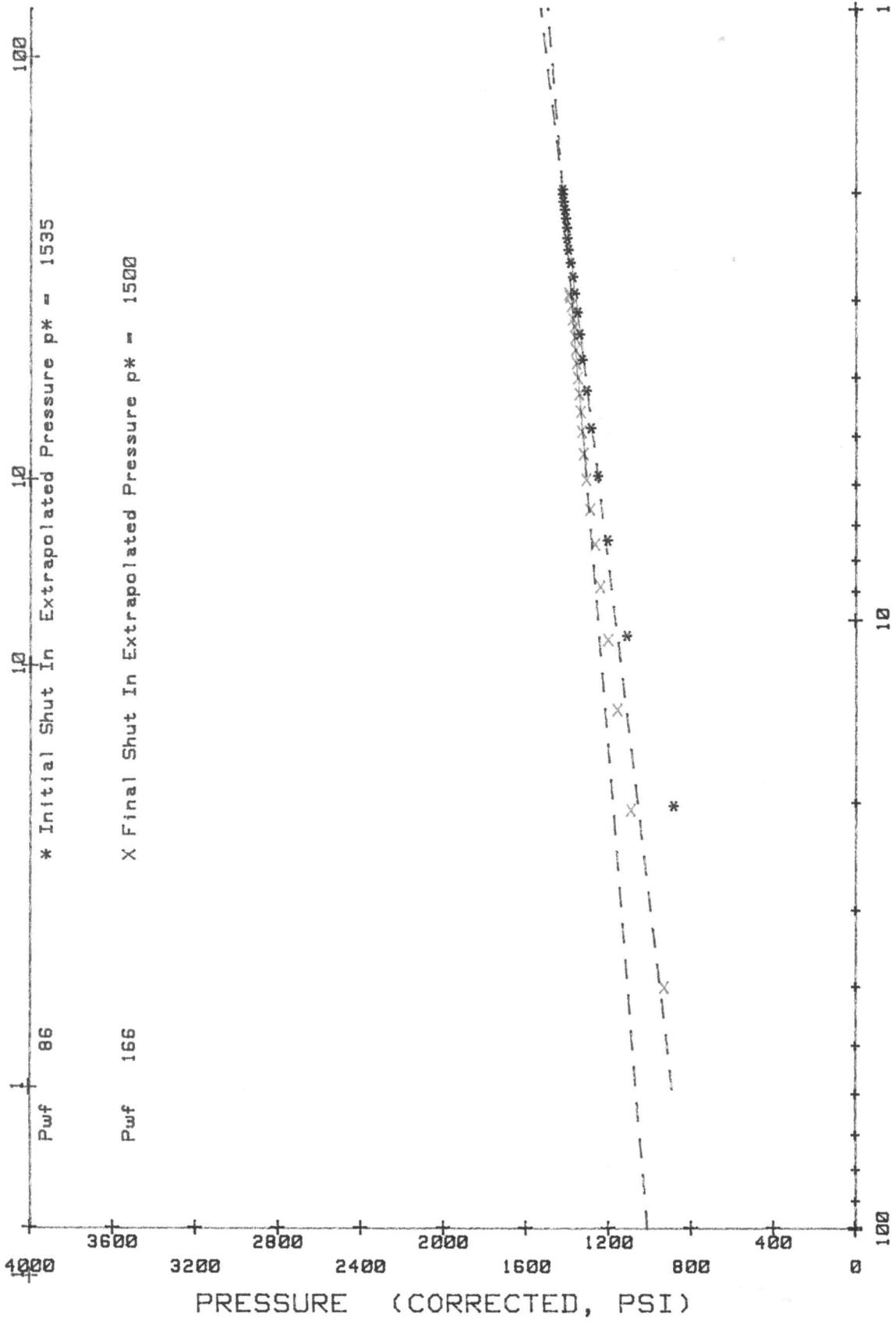
Sample #	Total Feet	**** WATER **** %	**** WATER **** Feet	Chlorides (ppm)	Resistivity (ohms)	Temperature (deg)
1	1200	0.00	0.00	0.00	0.00	0.00
2	330	0.00	0.00	0.00	0.00	0.00
3	64	0.00	0.00	0.00	0.00	0.00
4	66	0.00	0.00	0.00	0.00	0.00
TOTAL	1660	0.00	0.00			

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

GAUGE # : 11087

DATE : 1-31-1989

LOCATION : SW-SW-SE 24-25S-21W



TIME (MINUTES) : (T+dt)/dt - (Semi log scale)

SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : HINKLE OIL COMPANY WELL NAME : WEISS #1
DATE OF TEST : 1-31-1989 LOCATION : SW-SW-SE 24-25S-21W
DST. NO : 4 SHUT-IN PERIOD : 1

INTERPRETIVE DATA (OIL)

EXTRAPOLATED RESERVOIR PRESSURE (psi): 1535.00
Slope of Build-up Curve (psi/log cycle): 362.18
Effective Producing Time (min): 58.00

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : HINKLE OIL COMPANY
 WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 24-25S-21W
 STATE & COUNTY : KANSAS, FORD
 DATE OF TEST : 1-31-1989
 TEST INT. KB : 4736 to 4760
 TOTAL INTERVAL (ft) K.B. : 24.00
 ELEV. (GR) : 2284 (KB) : 2289
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG
Refer. depth :	4714.0 ft-kb		
-4:13 END FLOW	0.00	0.00	85.90
	3.00	20.33	885.46
	6.00	10.67	1111.23
	9.00	7.44	1204.85
	12.00	5.83	1252.20
	15.00	4.87	1286.34
	18.00	4.22	1308.37
	21.00	3.76	1328.19
	24.00	3.42	1341.41
	27.00	3.15	1351.32
	30.00	2.93	1365.64
	33.00	2.76	1374.45
	36.00	2.61	1385.46
	39.00	2.49	1396.48
	42.00	2.38	1401.98
	45.00	2.29	1404.19
	48.00	2.21	1408.59
	51.00	2.14	1414.10
	54.00	2.07	1420.70
	57.00	2.02	1424.01
	59.00	1.98	1424.01
-6:12 1ST SHUT-IN	0.00	0.00	1424.01

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

SUPERIOR TESTERS ENTERPRISES INC.

HORNER ANALYSIS

COMPANY : HINKLE OIL COMPANY
 WELL NAME : WEISS #1
 LOCATION : SW-SW-SE 24-256-21W
 STATE & COUNTY : KANSAS, FORD
 DATE OF TEST : 1-31-1989
 TEST INT. KB : 4736 to 4760
 TOTAL INTERVAL (ft) K.B. : 24.00
 ELEV. (GR) : 2284 (KB) : 2289
 FIELD :

ELEMENT SERIAL NO. : 11087
 LATEST CALIBRATION :

COMMENTS	TIME min	(T+dt)/dt min	----- PRESSURES CORR PSIG -----
Refer. depth :	4714.0 ft-kb		
-7:12 END FLOW	0.00	0.00	166.30
	3.00	40.33	931.72
	6.00	20.67	1094.71
	9.00	14.11	1159.69
	12.00	10.83	1204.85
	15.00	8.87	1243.39
	18.00	7.56	1268.72
	21.00	6.62	1294.05
	24.00	5.92	1311.67
	27.00	5.37	1324.89
	30.00	4.93	1333.70
	33.00	4.58	1339.21
	36.00	4.28	1345.81
	39.00	4.03	1352.42
	42.00	3.81	1359.03
	45.00	3.62	1363.44
	48.00	3.46	1366.74
	51.00	3.31	1368.94
	53.00	3.23	1377.75
	57.00	3.07	1383.26
	60.00	2.97	1390.97
	61.00	2.93	1394.27
-8:13 2ND SHUT-IN	0.00	0.00	1394.27

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES, INC.

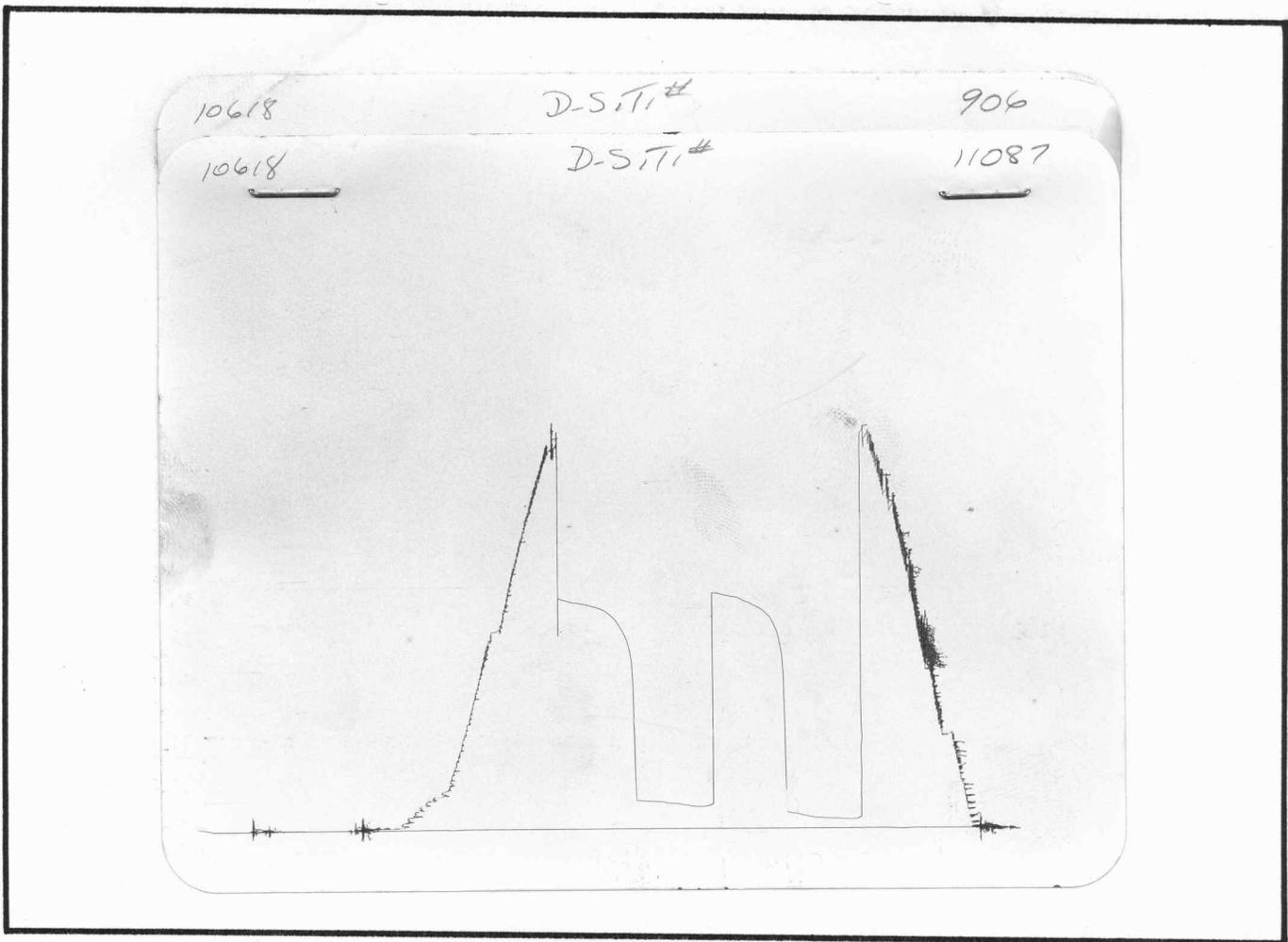
SUPERIOR TESTERS ENTERPRISES INC.

DATA SUMMARY

COMPANY : HINKLE OIL COMPANY WELL NAME : WEISS #1
 DATE OF TEST : 1-31-1989 LOCATION : SW-SW-SE 24-25S-21W
 DST. NO : 4 SHUT-IN PERIOD : 2

INTERPRETIVE DATA (OIL)

TRANSMISSIBILITY	
Oil (md.ft/cp):	17.79
Gas (md.ft/cp):	0.00
EFFECTIVE PERMEABILITY	
Oil (md):	1.72
Gas (md):	0.00
TOTAL MOBILITY (md/cp):	2.15
TOTAL COMPRESSIBILITY (psi ⁻¹):	8.78E-06
ESTIMATED DAMAGE RATIO:	1.16
CALCULATED DAMAGE RATIO:	1.32
Reservoir Temperature (F):	122.00
Formation Porosity :18
Formation Thickness (ft):	10.00
Wellbore Radius (in):	3.94
Reservoir Compressibility (psi ⁻¹):	4.80E-07
Calculated Skin Factor :	1.53
PRODUCTION WITH DAMAGE REMOVED (bbl/D):	35.03
PRODUCTIVITY INDEX (bbl/psi):02
Final Flow Pressure (psi):	166.00
APPROXIMATE RADIUS OF INVESTIGATION (ft):	52.82
Total Flowing Time (min):	118.00
EXTRAPOLATED RESERVOIR PRESSURE (psi):	1500.00
Slope of Build-up Curve (psi/log cycle):	242.82
Effective Producing Time (min):	118.00



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>2395</u>	<u>2390</u>	P.S.I.
(B) First Initial Flow Pressure	<u>55</u>	<u>49</u>	P.S.I.
(C) First Final Flow Pressure	<u>88</u>	<u>85</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>1430</u>	<u>1423</u>	P.S.I.
(E) Second Initial Flow Pressure	<u>121</u>	<u>147</u>	P.S.I.
(F) Second Final Flow Pressure	<u>165</u>	<u>166</u>	P.S.I.
(G) Final Closed-in Pressure	<u>1397</u>	<u>1393</u>	P.S.I.
(H) Final Hydrostatic Mud	<u>2340</u>	<u>2364</u>	P.S.I.