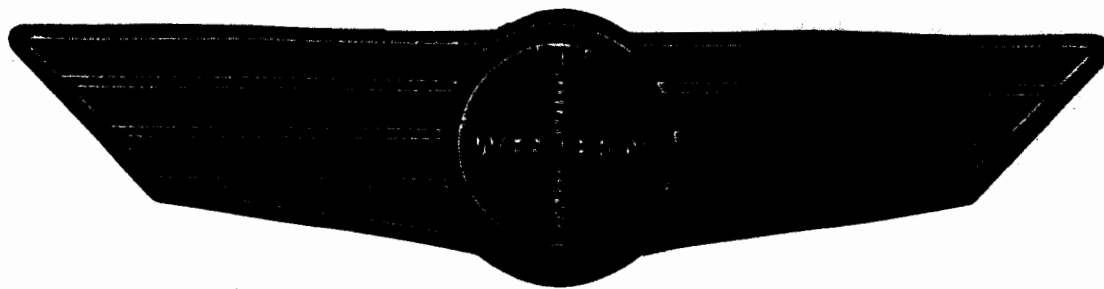


ORIGINAL

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 316-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 10/18/94	TICKET	: 20945
CUSTOMER	: PETROLEUM RESOURCES, LTD	LEASE	: SOEKEN
WELL	: #1	TEST: 1	GEOLOGIST: CRAIG
ELEVATION	: 1826KB	FORMATION	: ARBUCKLE
SECTION	: 30	TOWNSHIP	: 20S
RANGE	: 11W	COUNTY: BARTON	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3383.00 ft	TO:	3391.00 ft	TVD:	3391.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3385.0 ft		3388.0 ft		
TEMPERATURE:	101.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	3257.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	26.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	8.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH		
PACKER DEPTH:	3378.0 ft	SIZE:	6.625 in		
PACKER DEPTH:	3383.0 ft	SIZE:	6.625 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	DUKE RIG #2	VISCOSITY :	63.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT :	9.500 ppg	SERIAL NUMBER:	421
CHLORIDES :	2000 ppm	REVERSED OUT?:	NO
JARS-MAKE :	WTC		
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW: WEAK BLOW THROUGHOUT, 1/2 INCH TO
3/4 INCH. FINAL FLOW: WEAK SURFACE BLOW, DIED IN
16 MINUTES.

ORIGINAL

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	2.0	0.0	0.0	98.0	SLIGHTLY OIL CUT MUD
0.0	0.0	0.0	0.0	0.0	W/SHOW OF CLEAN OIL ON
0.0	0.0	0.0	0.0	0.0	TOP OF TOOL.

RATE INFORMATION

OIL VOLUME:	0.0042	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	5.0495	STB/D
MUD VOLUME:	0.2062	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.2104	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1651.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	41.00	41.00
INITIAL SHUT-IN	60.00		520.00
FINAL FLOW	30.00	41.00	41.00
FINAL SHUT-IN	60.00		62.00

FINAL HYDROSTATIC PRESSURE: 1630.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1662.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	42.00
INITIAL SHUT-IN	57.00		517.00
FINAL FLOW	30.00	45.00	45.00
FINAL SHUT-IN	57.00		64.00

FINAL HYDROSTATIC PRESSURE: 1620.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/18/94	TICKET : 20945
CUSTOMER : PETROLEUM RESOURCES, LTD	LEASE : SOEKEN
WELL : #1 TEST: 1	GEOLOGIST: CRAIG
ELEVATION: 1826KB	FORMATION: ARBUCKLE
SECTION : 30	TOWNSHIP : 20S
RANGE : 11W COUNTY: BARTON	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	42.00	42.00
5.00	42.00	0.00
10.00	42.00	0.00
15.00	42.00	0.00
20.00	42.00	0.00
25.00	42.00	0.00
30.00	42.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	46.00	46.00	11.00
6.00	47.00	1.00	6.00
9.00	49.00	2.00	4.33
12.00	54.00	5.00	3.50
15.00	59.00	5.00	3.00
18.00	67.00	8.00	2.67
21.00	76.00	9.00	2.43
24.00	89.00	13.00	2.25
27.00	104.00	15.00	2.11
30.00	120.00	16.00	2.00
33.00	148.00	28.00	1.91
36.00	175.00	27.00	1.83
39.00	220.00	45.00	1.77
42.00	265.00	45.00	1.71
45.00	320.00	55.00	1.67
48.00	375.00	55.00	1.63
51.00	426.00	51.00	1.59
54.00	477.00	51.00	1.56
57.00	517.00	40.00	1.53

ORIGINAL

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	45.00	45.00
5.00	45.00	0.00
10.00	45.00	0.00
15.00	45.00	0.00
20.00	45.00	0.00
25.00	45.00	0.00
30.00	45.00	0.00

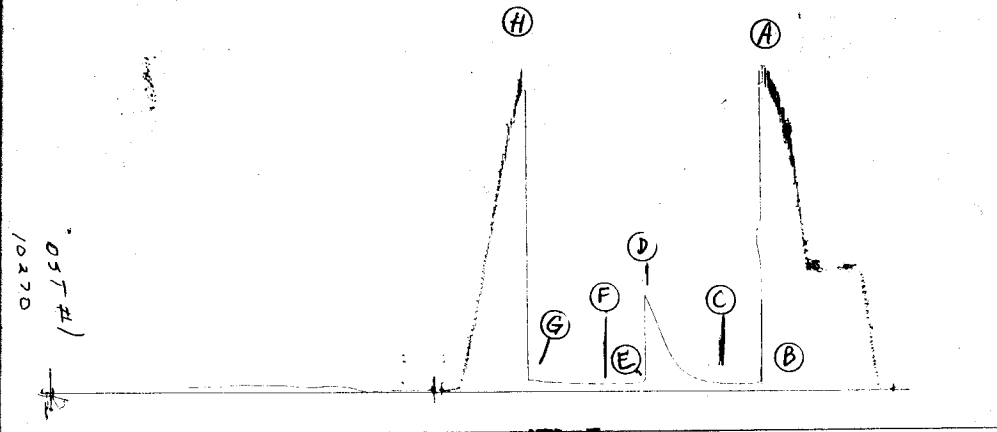
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	45.00	45.00	11.00
6.00	45.00	0.00	6.00
9.00	45.00	0.00	4.33
12.00	45.00	0.00	3.50
15.00	45.00	0.00	3.00
18.00	45.00	0.00	2.67
21.00	45.00	0.00	2.43
24.00	46.00	1.00	2.25
27.00	47.00	1.00	2.11
30.00	48.00	1.00	2.00
33.00	49.00	1.00	1.91
36.00	50.00	1.00	1.83
39.00	51.00	1.00	1.77
42.00	52.00	1.00	1.71
45.00	53.00	1.00	1.67
48.00	56.00	3.00	1.63
51.00	59.00	3.00	1.59
54.00	62.00	3.00	1.56
57.00	64.00	2.00	1.53

ikt # 20945

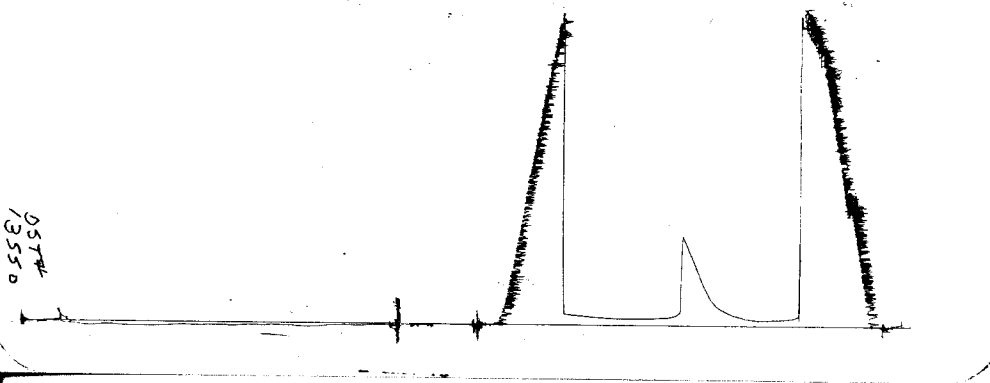
⑤

I



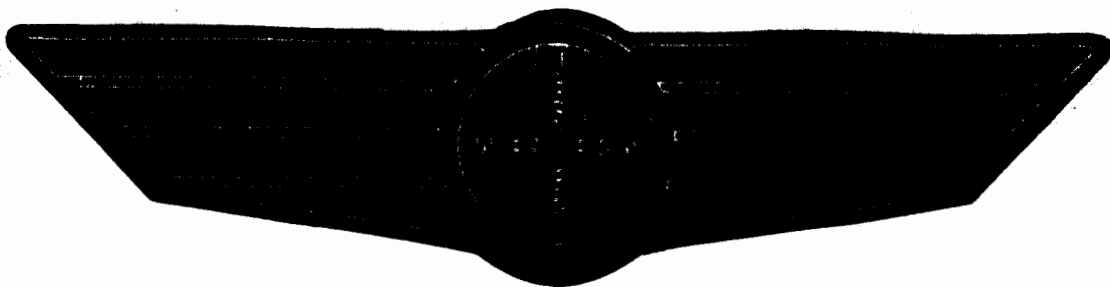
ikt # 20945

O



FORMATION TEST REPORT

ORIGINAL



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY PETROLEUM RESOURCES, LTD. I.F.A.S.F. & W.F.I.L. NO. #1 SOEKEN

API #15-009-24585
SFC. 30 TWP. 20S RGF. 11W TEST NO. 2 DATE 10/18/94

DST REPORT

GENERAL INFORMATION

DATE	: 10/18/94	TICKET	: 20946
CUSTOMER	: PETROLEUM RESOURCES, LTD	LEASE	: SOEKEN
WELL	: #1	TEST: 2	GEOLOGIST: CRAIG
ELEVATION	: 1826KB	FORMATION	: ARBUCKLE
SECTION	: 30	TOWNSHIP	: 20S
RANGE	: 11W	COUNTY: BARTON	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3385.00 ft	TO:	3405.00 ft	TVD:	3405.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3397.0 ft		3400.0 ft		
TEMPERATURE:	105.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	3359.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	26.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	20.0 ft	ANCHOR SIZE:	5.500 in		
SURFACE CHOKE SIZE :	0.750 in	BOTTOM CHOKE SIZE:	0.750 in		
MAIN HOLE SIZE :	7.875 in	TOOL JOINT SIZE :	4.5XH		
PACKER DEPTH:	3380.0 ft	SIZE:	6.625 in		
PACKER DEPTH:	3385.0 ft	SIZE:	6.625 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	DUKE RIG #2	VISCOSITY :	55.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT :	9.400 ppg	SERIAL NUMBER:	421
CHLORIDES :	2000 ppm	REVERSED OUT?:	NO
JARS-MAKE :	WTC		
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW: WEAK BLOW THROUGHOUT 1/4 INCH TO
SURFACE BLOW.
FINAL FLOW: NO BLOW.

ORIGINAL

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	1.0	0.0	0.0	99.0	SLIGHTLY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0007	STB	TOTAL FLOW TIME:	40.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	2.5247	STB/D
MUD VOLUME:	0.0694	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0701	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1630.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	31.00
INITIAL SHUT-IN	60.00		62.00
FINAL FLOW	10.00	31.00	31.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 1620.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1677.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	42.00
INITIAL SHUT-IN	60.00		69.00
FINAL FLOW	10.00	39.00	39.00

FINAL HYDROSTATIC PRESSURE: 1662.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 10/18/94	TICKET	: 20946
CUSTOMER	: PETROLEUM RESOURCES, LTD	LEASE	: SOEKEN
WELL	: #1	TEST: 2	GEOLOGIST: CRAIG
ELEVATION	: 1826KB	FORMATION	: ARBUCKLE
SECTION	: 30	TOWNSHIP	: 20S
RANGE	: 11W	COUNTY: BARTON	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	42.00	42.00
5.00	42.00	0.00
10.00	42.00	0.00
15.00	42.00	0.00
20.00	42.00	0.00
25.00	42.00	0.00
30.00	42.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	42.00	42.00	11.00
6.00	42.00	0.00	6.00
9.00	42.00	0.00	4.33
12.00	42.00	0.00	3.50
15.00	42.00	0.00	3.00
18.00	42.00	0.00	2.67
21.00	42.00	0.00	2.43
24.00	42.00	0.00	2.25
27.00	42.00	0.00	2.11
30.00	42.00	0.00	2.00
33.00	42.00	0.00	1.91
36.00	43.00	1.00	1.83
39.00	44.00	1.00	1.77
42.00	48.00	4.00	1.71
45.00	50.00	2.00	1.67
48.00	55.00	5.00	1.63
51.00	58.00	3.00	1.59
54.00	61.00	3.00	1.56
57.00	65.00	4.00	1.53

ORIGINAL

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	69.00	4.00	1.50

FINAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	39.00	39.00
5.00	39.00	0.00
10.00	39.00	0.00

FINAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
			No Data Entered

ikt # 20946

(5)

I

(H)

(A)

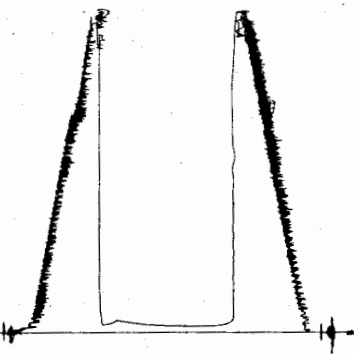
(E)
(D)

(C)
(B)

OST # 2
10270

ikt # 20946

O



OST # 2
13550