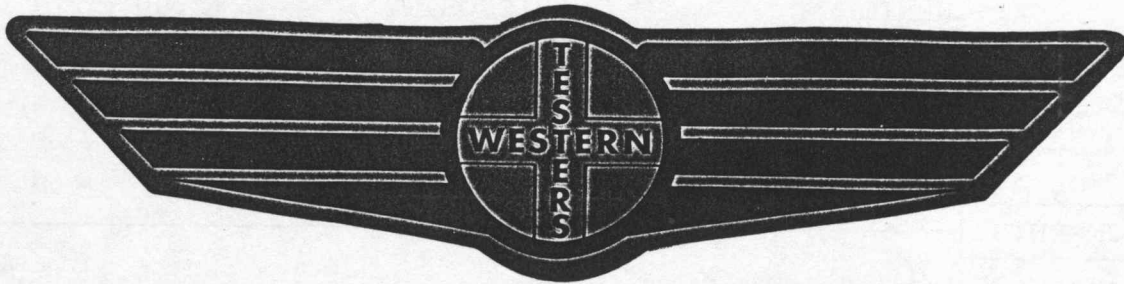


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

COMPANY OIL PRODUCERS INC., OF KS LEASE & WELL NO. #1 LANGHOFER SEC. 23 TWP. 33S RGE. 30W TEST NO. 1 DATE 10/20/93

DST REPORT

GENERAL INFORMATION

DATE : 10/20/93
CUSTOMER : OIL PRODUCERS INC OF KS
WELL : #1 TEST: 1
ELEVATION: 2714 KB
SECTION : 23
RANGE : 30W COUNTY: MEADE
GAUGE SN#: 1051 RANGE : 4250
TICKET : 16171
LEASE : LANGHOFER
GEOLOGIST: MCLEOD
FORMATION: COUNCIL GROVE ZONE B
TOWNSHIP : 33S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3155.00 ft TO: 3190.00 ft TVD: 3190.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3182.0 ft 3185.0 ft
TEMPERATURE: 0.0
DRILL COLLAR LENGTH: 517.0 ft I.D.: 2.250 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 2616.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 22.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 35.0 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: 3150.0 ft SIZE: 6.630 in
PACKER DEPTH: 3155.0 ft SIZE: 6.630 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in
PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN RIG 21
MUD TYPE : CHEMICAL VISCOSITY : 42.00 cp
WEIGHT : 9.300 ppg WATER LOSS: 0.000 cc
CHLORIDES : 15500 ppm
JARS-MAKE :
DID WELL FLOW?: NO SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

MISRUN
HIT BIRIDGE AROUND 1080 FT - COULDN'T GET THROUGH

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
No Data Entered					

RATE INFORMATION

OIL VOLUME: 0.0000 STB	TOTAL FLOW TIME: No Events Created
GAS VOLUME: 0.0000 SCF	AVERAGE OIL RATE: 0.0000 STB/D
MUD VOLUME: 0.0000 STB	AVERAGE WATER RATE: 0.0000 STB/D
WATER VOLUME: 0.0000 STB	
TOTAL FLUID : 0.0000 STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 0.00

Description	Duration	p1	p End
INITIAL FLOW	0.00	0.00	0.00
INITIAL SHUT-IN	0.00		0.00
FINAL FLOW	0.00	0.00	0.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 0.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 0.00

Description	Duration	p1	p End
INITIAL FLOW	0.00	0.00	0.00
INITIAL SHUT-IN	0.00		0.00

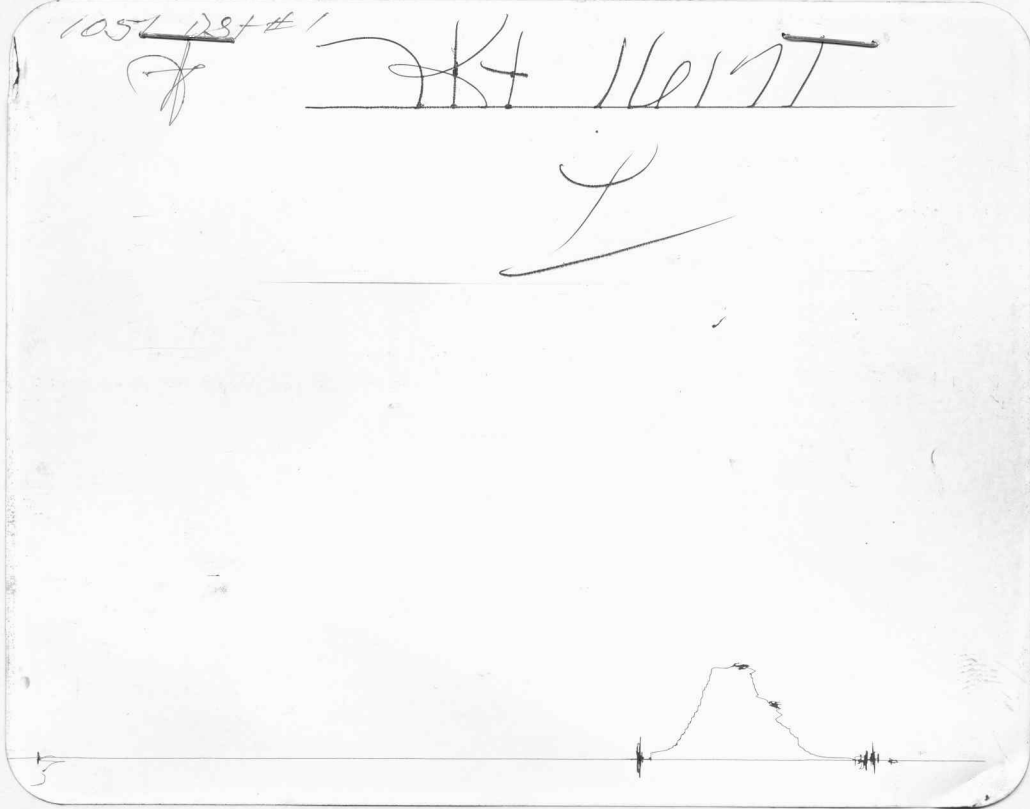
FINAL HYDROSTATIC PRESSURE: 0.00

1051 D8T #1

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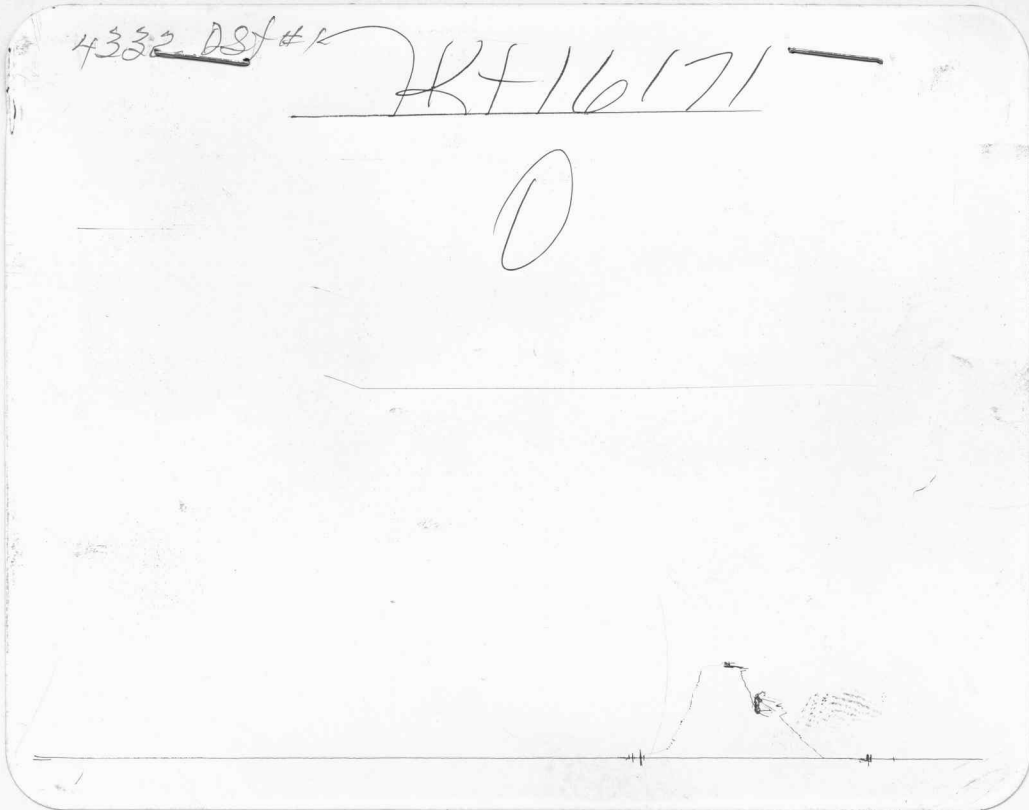


Inside Recorder

4332 D8T #1

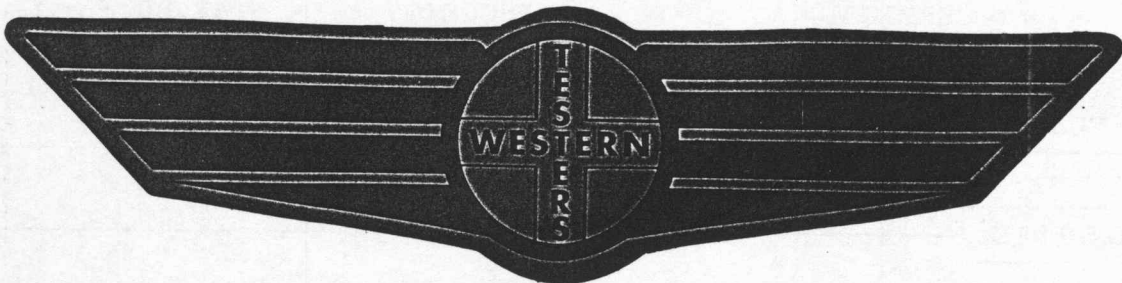
~~KT 1617T~~

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Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

COMPANY OIL PRODUCERS INC., OF KS LEASE & WELL NO. #1 LANGHOFER SEC. 23 TWP. 33S RGE. 30W TEST NO. 2 DATE 10/20/93

DST REPORT

GENERAL INFORMATION

DATE	: 10/20/93	TICKET	: 16172
CUSTOMER	: OIL PRODUCERS INC OF KS	LEASE	: LANGHOFER
WELL	: #1	TEST: 2	GEOLOGIST: MCLEOD
ELEVATION	: 2714 KB	FORMATION	: COUNCIL GROVE ZONE B
SECTION	: 23	TOWNSHIP	: 33S
RANGE	: 30W	COUNTY: MEADE	STATE : KS
GAUGE SN#	: 1051	RANGE : 4250	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3155.00 ft	TO:	3190.00 ft	TVD:	3190.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	3182.0 ft		3185.0 ft		
TEMPERATURE:	102.0				
DRILL COLLAR LENGTH:	517.0 ft	I.D.:		2.250 in	
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:		0.000 in	
DRILL PIPE LENGTH :	2616.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	35.0 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:	3150.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3155.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	MURFIN RIG 21	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	15.200 cc
WEIGHT :	9.200 ppg	SERIAL NUMBER:	
CHLORIDES :	10000 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW IN 15 MINUTES.
FINAL FLOW PERIOD WEAK TO 4 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	%	%	%	%	Comments
Oil	Gas	Water	Mud		
70.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	70.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.3442	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.3442	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2059.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	107.00	107.00
INITIAL SHUT-IN	45.00		644.00
FINAL FLOW	45.00	129.00	129.00
FINAL SHUT-IN	45.00		591.00

FINAL HYDROSTATIC PRESSURE: 2027.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1659.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	95.00	95.00
INITIAL SHUT-IN	51.00		650.00
FINAL FLOW	40.00	120.00	120.00
FINAL SHUT-IN	45.00		566.00

FINAL HYDROSTATIC PRESSURE: 1634.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10/20/93	TICKET : 16172
CUSTOMER : OIL PRODUCERS INC OF KS	LEASE : LANGHOFER
WELL : #1 TEST: 2	GEOLOGIST: MCLEOD
ELEVATION: 2714 KB	FORMATION: COUNCIL GROVE ZONE B
SECTION : 23	TOWNSHIP : 33S
RANGE : 30W COUNTY: MEADE	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	95.00	95.00
5.00	95.00	0.00
10.00	95.00	0.00
15.00	95.00	0.00
20.00	95.00	0.00
25.00	95.00	0.00
30.00	95.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	117.00	117.00	0.00
6.00	195.00	78.00	0.00
9.00	269.00	74.00	0.00
12.00	329.00	60.00	0.00
15.00	378.00	49.00	0.00
18.00	419.00	41.00	0.00
21.00	450.00	31.00	0.00
24.00	474.00	24.00	0.00
27.00	515.00	41.00	0.00
30.00	540.00	25.00	0.00
33.00	557.00	17.00	0.00
36.00	583.00	26.00	0.00
39.00	594.00	11.00	0.00
42.00	611.00	17.00	0.00
45.00	628.00	17.00	0.00
48.00	641.00	13.00	0.00
51.00	650.00	9.00	0.00

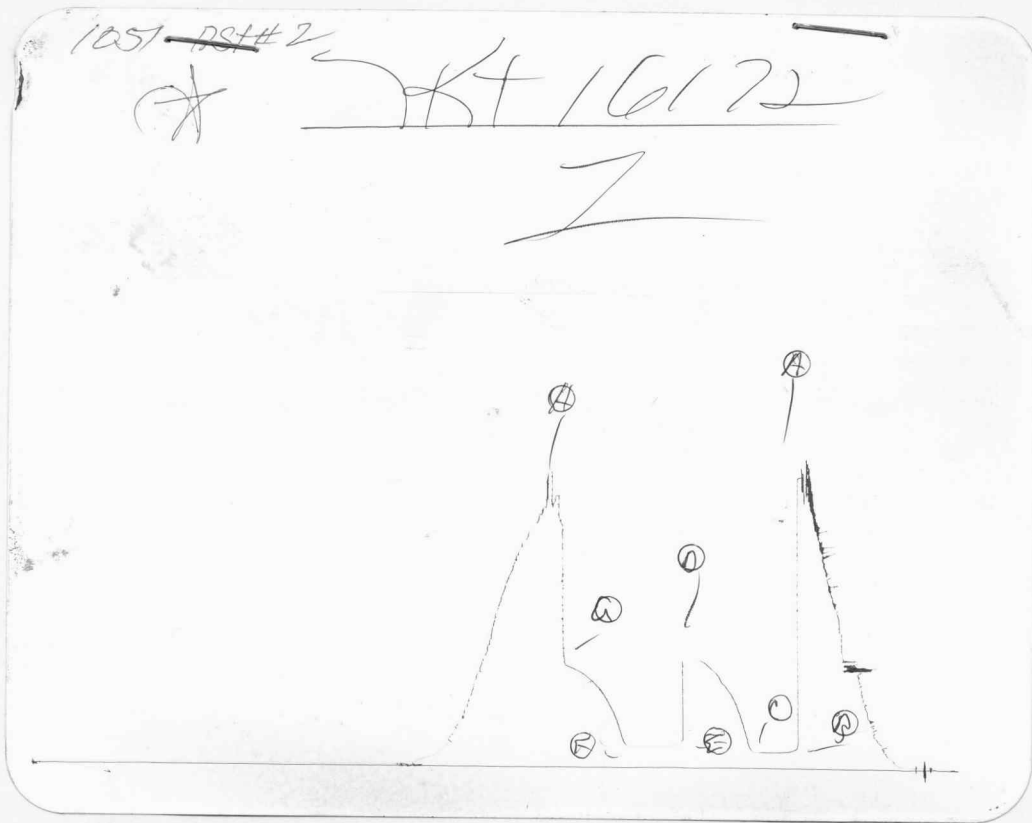
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

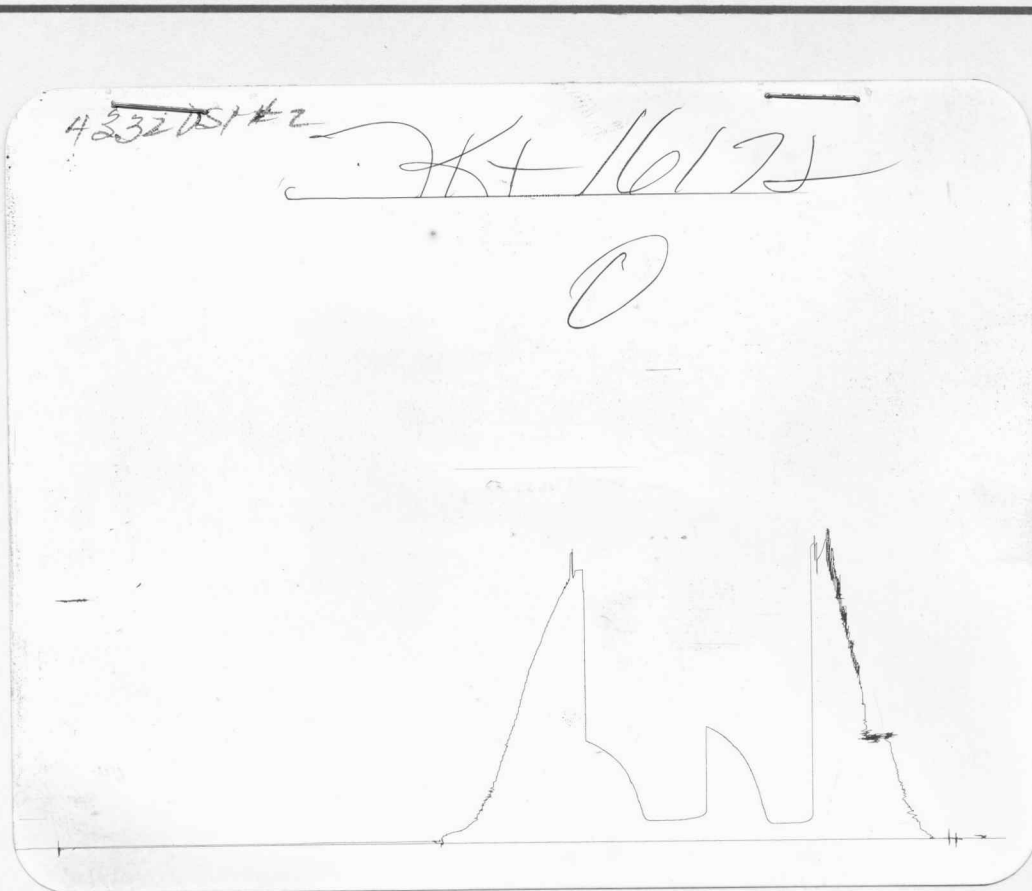
Time (min)	Pressure	Delta P
0.00	120.00	120.00
5.00	120.00	0.00
10.00	120.00	0.00
15.00	120.00	0.00
20.00	120.00	0.00
25.00	120.00	0.00
30.00	120.00	0.00
35.00	120.00	0.00
40.00	120.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	148.00	148.00	0.00
6.00	220.00	72.00	0.00
9.00	279.00	59.00	0.00
12.00	326.00	47.00	0.00
15.00	364.00	38.00	0.00
18.00	406.00	42.00	0.00
21.00	435.00	29.00	0.00
24.00	459.00	24.00	0.00
27.00	482.00	23.00	0.00
30.00	501.00	19.00	0.00
33.00	520.00	19.00	0.00
36.00	534.00	14.00	0.00
39.00	546.00	12.00	0.00
42.00	556.00	10.00	0.00
45.00	566.00	10.00	0.00

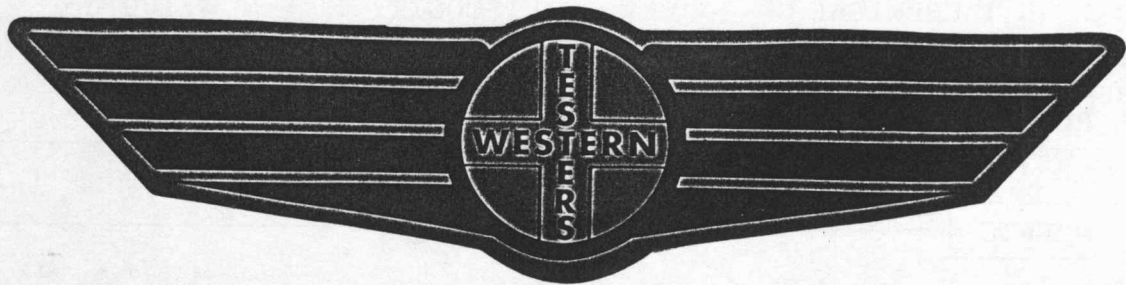


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-80-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 10-21-93	TICKET : 19935
CUSTOMER : OIL PRODUCERS INC. OF KS.	LEASE : LANGHOFER
WELL : #1 TEST: 3	GEOLOGIST: TERRY MCLEOD
ELEVATION:	FORMATION: COUNCIL GROVE
SECTION : 23	TOWNSHIP : 33S
RANGE : 30W COUNTY: MEADER	STATE : KS
GAUGE SN#: 10242 RANGE : 4100	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3212.00 ft	TO: 3247.00 ft	TVD: 3247.0 ft
DEPTH OF SELECTIVE ZONE:	TEST TYPE: OIL	
DEPTH OF RECORDERS: 3236.0 ft	3239.0 ft	
TEMPERATURE: 98.0		
DRILL COLLAR LENGTH: 517.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 2817.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 23.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 53.0 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 :	3.5XH
PACKER DEPTH: 3207.0 ft	SIZE:	6.630 in
PACKER DEPTH: 3212.0 ft	SIZE:	6.630 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN #21	VISCOSITY : 47.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 15.200 cc
WEIGHT : 9.200 ppg	
CHLORIDES : 10000 ppm	
JARS-MAKE : NO	SERIAL NUMBER:
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

WEAK SLOWLY BUILDING TO 4.25" IN BUCKET ON INITIAL FLOW PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
105.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	45.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.5163 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.5163 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1809.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	56.00	81.00
INITIAL SHUT-IN	45.00		827.00
FINAL FLOW	0.00	0.00	0.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 1790.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1795.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	63.00	93.00
INITIAL SHUT-IN	48.00		836.00
FINAL FLOW	0.00	0.00	0.00

FINAL HYDROSTATIC PRESSURE: 1785.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10-21-93	TICKET : 19935
CUSTOMER : OIL PRODUCERS INC. OF KS.	LEASE : LANGHOFER
WELL : #1	GEOLOGIST: TERRY MCLEOD
ELEVATION: TEST: 3	FORMATION: COUNCIL GROVE
SECTION : 23	TOWNSHIP : 33S
RANGE : 30W	STATE : KS
COUNTY: MEADER	CLOCK : 12
GAUGE SN#: 10242	RANGE : 4100

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	63.00	63.00
5.00	51.00	-12.00
10.00	54.00	3.00
15.00	59.00	5.00
20.00	65.00	6.00
25.00	72.00	7.00
30.00	79.00	7.00
35.00	84.00	5.00
40.00	91.00	7.00
45.00	93.00	2.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	516.00	516.00	0.00
6.00	629.00	113.00	0.00
9.00	692.00	63.00	0.00
12.00	728.00	36.00	0.00
15.00	748.00	20.00	0.00
18.00	760.00	12.00	0.00
21.00	778.00	18.00	0.00
24.00	789.00	11.00	0.00
27.00	800.00	11.00	0.00
30.00	809.00	9.00	0.00
33.00	814.00	5.00	0.00
36.00	821.00	7.00	0.00
39.00	825.00	4.00	0.00
42.00	832.00	7.00	0.00
45.00	834.00	2.00	0.00
48.00	836.00	2.00	0.00

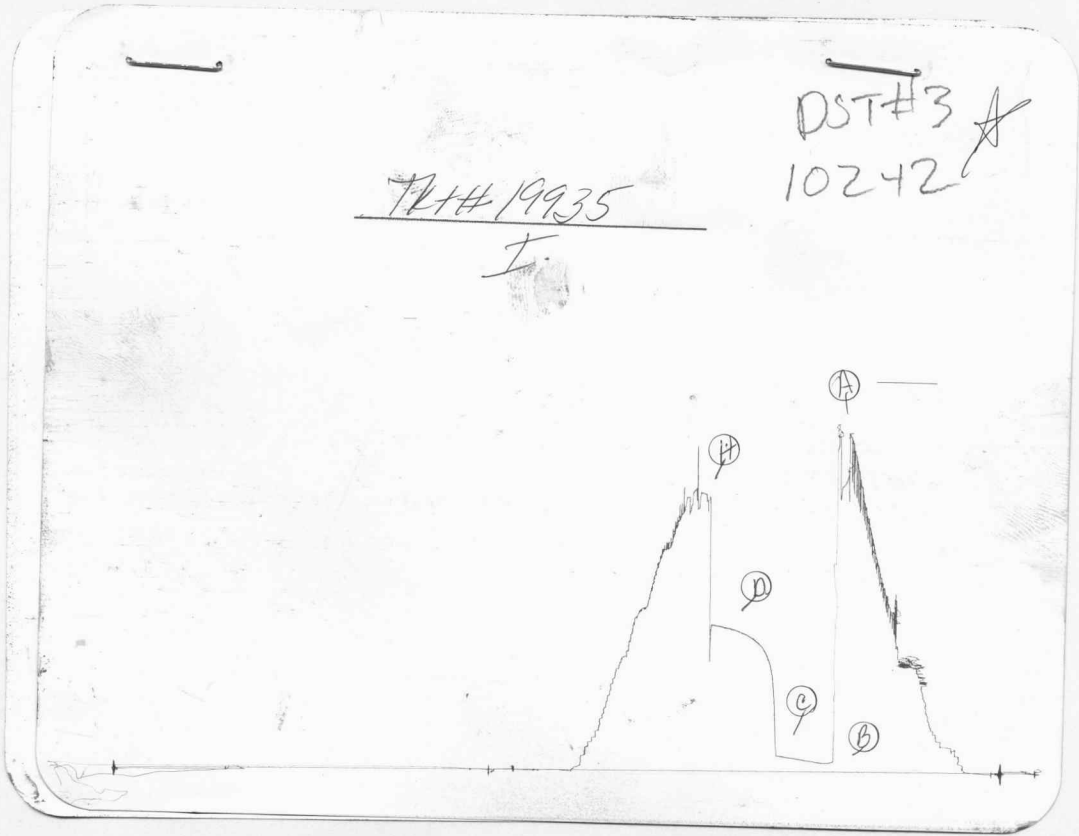
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

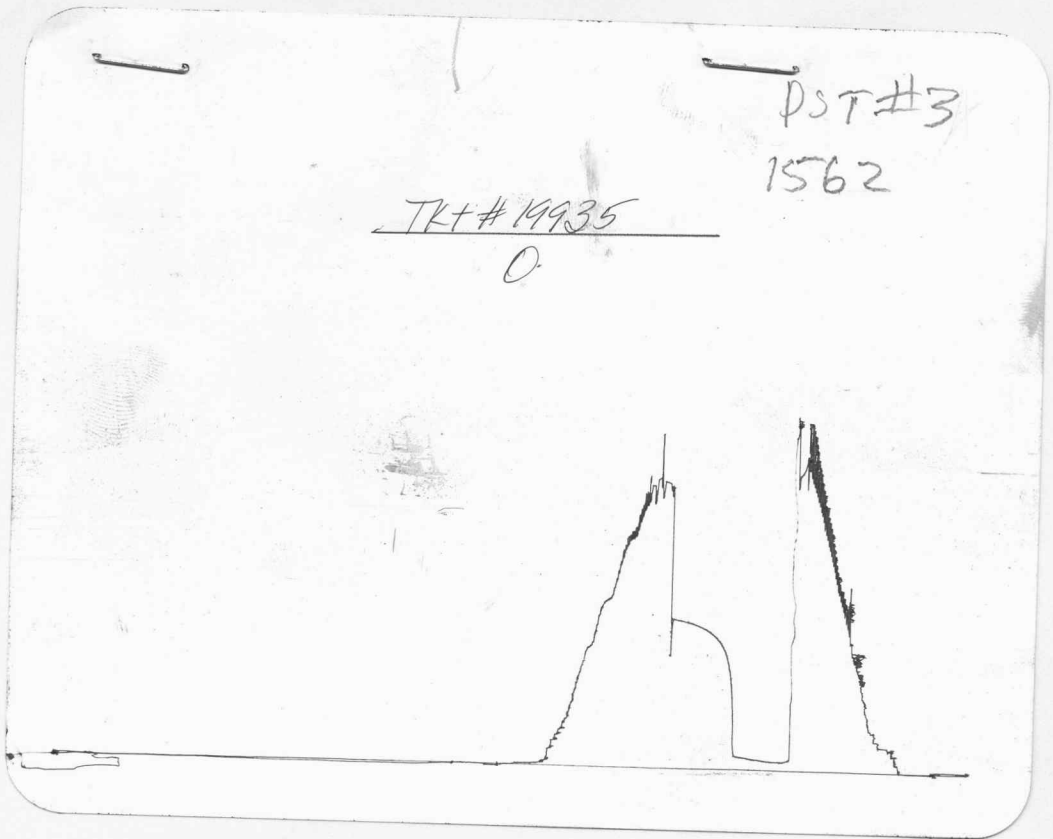
<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	0.00	0.00

FINAL SHUT IN

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



Inside Recorder



Outside Recorder