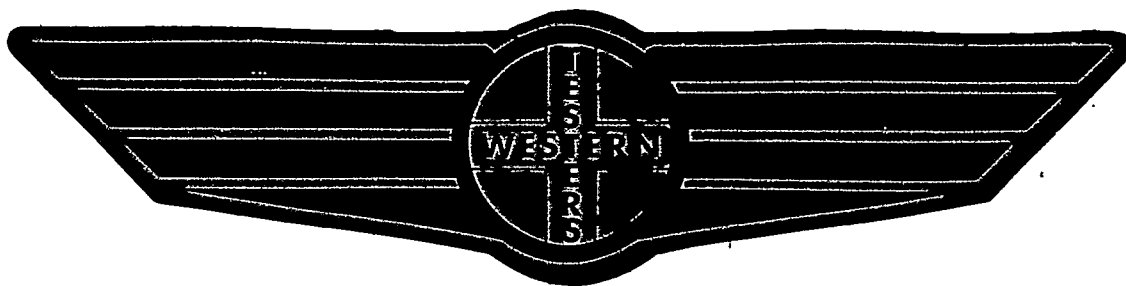


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY RITCHIE EXPLORATION, INC. LEASE & WELL NO. #1 SHAFTER 35A SEC. 35 TWP. 19S RGE. 28W TEST NO. 1 DATE 10/22/92

DST REPORT

GENERAL INFORMATION

DATE	: 10/22/92	TICKET	: 19452
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: SHAFFER 35 A
WELL	: 1	TEST: 1	GEOLOGIST: KEVIN KESSLER
ELEVATION	: 2723 KB	FORMATION	: FORT SCOTT - JOHNSON
SECTION	: 35	TOWNSHIP	: 19S
RANGE	: 28W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 13400	RANGE : 3950	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4480.00 ft	TO:	4594.00 ft	TVD:	4594.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4483.0 ft		4486.0 ft		
TEMPERATURE:	134.0				
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 :	4460.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	114.0 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:	4475.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	4480.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	WHITE & ELLIS RIG 9	VISCOSITY :	65.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.300 ppg		
CHLORIDES :	4000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW, 3/4 INCH IN WATER.
FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
20.0	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:	0.2805	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.2805	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2215.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	50.00	50.00
INITIAL SHUT-IN	30.00		1130.00
FINAL FLOW	30.00	50.00	50.00
FINAL SHUT-IN	30.00		935.00

FINAL HYDROSTATIC PRESSURE: 2175.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2316.00

Description	Duration	p1	p End
INITIAL FLOW	35.00	55.00	55.00
INITIAL SHUT-IN	30.00		1029.00
FINAL FLOW	35.00	54.00	54.00
FINAL SHUT-IN	30.00		937.00

FINAL HYDROSTATIC PRESSURE: 2232.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 10/22/92	TICKET	: 19452
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: SHAFFER 35 A
WELL	: 1	TEST:	1
ELEVATION:	2723 KB	GEOLOGIST:	KEVIN KESSLER
SECTION	: 35	FORMATION:	FORT SCOTT - JOHNSON
RANGE	: 28W	TOWNSHIP	: 19S
GAUGE SN#:	13400	STATE	: KS
		CLOCK	: 12
	COUNTY: LANE		
	RANGE : 3950		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	55.00	55.00
5.00	55.00	0.00
10.00	55.00	0.00
15.00	55.00	0.00
20.00	55.00	0.00
25.00	55.00	0.00
30.00	55.00	0.00
35.00	55.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	246.00	246.00	0.00
6.00	446.00	200.00	0.00
9.00	568.00	122.00	0.00
12.00	707.00	139.00	0.00
15.00	804.00	97.00	0.00
18.00	875.00	71.00	0.00
21.00	938.00	63.00	0.00
24.00	975.00	37.00	0.00
27.00	1006.00	31.00	0.00
30.00	1029.00	23.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
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PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
0.00	54.00	54.00
5.00	54.00	0.00
10.00	54.00	0.00
15.00	54.00	0.00
20.00	54.00	0.00
25.00	54.00	0.00
30.00	54.00	0.00
35.00	54.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	226.00	226.00	0.00
6.00	382.00	156.00	0.00
9.00	524.00	142.00	0.00
12.00	626.00	102.00	0.00
15.00	722.00	96.00	0.00
18.00	786.00	64.00	0.00
21.00	830.00	44.00	0.00
24.00	875.00	45.00	0.00
27.00	908.00	33.00	0.00
30.00	937.00	29.00	0.00

13460

KT 19452

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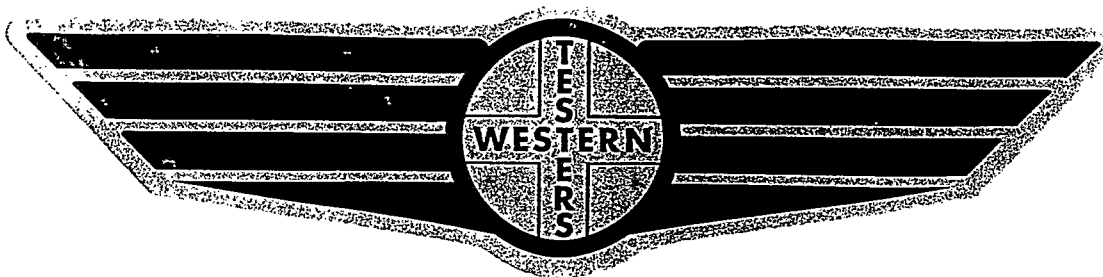
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KT 19452

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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY RITCHIE EXPLORATION, INC. LEASE & WELL NO. #1 H THOMAS

SIC. 7

TWP. 19S RGE. 28W

TEST NO. 1

DATE

8/16/94

DST REPORT

GENERAL INFORMATION

DATE : 8/16/94
CUSTOMER : RITCHIE EXPLORATION, INC
WELL : #1 TEST: 1
ELEVATION : 2800 GL
SECTION : 7
RANGE : 28W COUNTY: LANE
GAUGE SN#: 13760 RANGE : 3950

TICKET : 20073
LEASE : H THOMAS
GEOLOGIST: CHRISTIAN
FORMATION: L KANSAS CITY J
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4268.00 ft TO: 4285.00 ft TVD: 4285.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4271.0 ft 4274.0 ft
TEMPERATURE: 127.0

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 :	4248.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	17.0 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:	4263.0 ft	SIZE:	6.750 in
PACKER DEPTH:	4268.0 ft	SIZE:	6.750 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : WHITE & ELLIS RIG 9
MUD TYPE : CHEMICAL
WEIGHT : 9.200 ppg
CHLORIDES : 2000 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 47.00 cp
WATER LOSS: 9.600 cc

SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD OPENED TO WEAK BLOW - INCREASED TO 10 INCHES IN WATER. FINAL FLOW PERIOD FAIR BLOW - 6 INCHES IN WATER.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
396.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 32000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0000	STB	AVERAGE WATER RATE:	88.8710	STB/D
WATER VOLUME:	5.5544	STB			
TOTAL FLUID :	5.5544	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2075.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	48.00	97.00
INITIAL SHUT-IN	45.00		896.00
FINAL FLOW	45.00	168.00	205.00
FINAL SHUT-IN	45.00		896.00

FINAL HYDROSTATIC PRESSURE: 2025.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2165.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	80.00	117.00
INITIAL SHUT-IN	45.00		907.00
FINAL FLOW	45.00	180.00	215.00
FINAL SHUT-IN	45.00		908.00

FINAL HYDROSTATIC PRESSURE: 2145.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 8/16/94	TICKET	: 20073
CUSTOMER	: RITCHIE EXPLORATION, INC	LEASE	: H THOMAS
WELL	: #1	GEOLOGIST	: CHRISTIAN
ELEVATION	: 2800 GL	FORMATION	: L KANSAS CITY J
SECTION	: 7	TOWNSHIP	: 19S
RANGE	: 28W	STATE	: KS
GAUGE SN#	: 13760	CLOCK	: 12
	COUNTY: LANE		
	RANGE : 3950		

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	80.00	80.00
5.00	64.00	-16.00
10.00	64.00	0.00
15.00	65.00	1.00
20.00	70.00	5.00
25.00	80.00	10.00
30.00	89.00	9.00
35.00	100.00	11.00
40.00	111.00	11.00
45.00	117.00	6.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	240.00	240.00	0.00
6.00	823.00	583.00	0.00
9.00	850.00	27.00	0.00
12.00	869.00	19.00	0.00
15.00	875.00	6.00	0.00
18.00	885.00	10.00	0.00
21.00	891.00	6.00	0.00
24.00	895.00	4.00	0.00
27.00	898.00	3.00	0.00
30.00	901.00	3.00	0.00
33.00	903.00	2.00	0.00
36.00	904.00	1.00	0.00
39.00	905.00	1.00	0.00
42.00	906.00	1.00	0.00
45.00	907.00	1.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	180.00	180.00
5.00	164.00	-16.00
10.00	166.00	2.00
15.00	169.00	3.00
20.00	176.00	7.00
25.00	184.00	8.00
30.00	193.00	9.00
35.00	205.00	12.00
40.00	211.00	6.00
45.00	215.00	4.00

FINAL SHUT IN

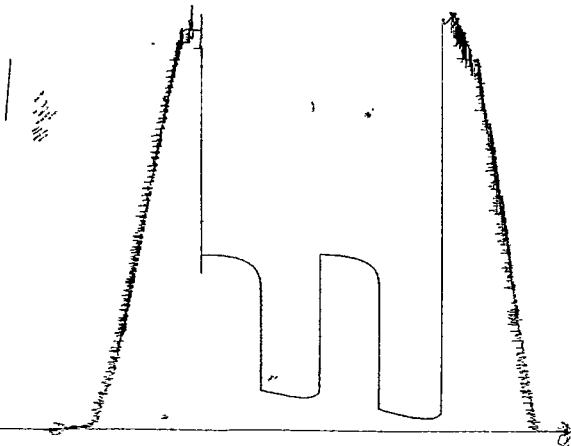
Time (min)	Pressure	Delta P	Horner T
3.00	473.00	473.00	0.00
6.00	844.00	371.00	0.00
9.00	864.00	20.00	0.00
12.00	874.00	10.00	0.00
15.00	881.00	7.00	0.00
18.00	887.00	6.00	0.00
21.00	891.00	4.00	0.00
24.00	897.00	6.00	0.00
27.00	899.00	2.00	0.00
30.00	903.00	4.00	0.00
33.00	904.00	1.00	0.00
36.00	905.00	1.00	0.00
39.00	906.00	1.00	0.00
42.00	907.00	1.00	0.00
45.00	908.00	1.00	0.00

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TR # 20093

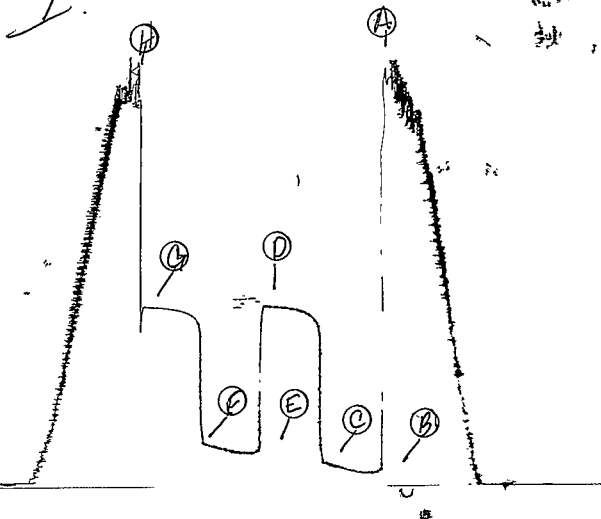
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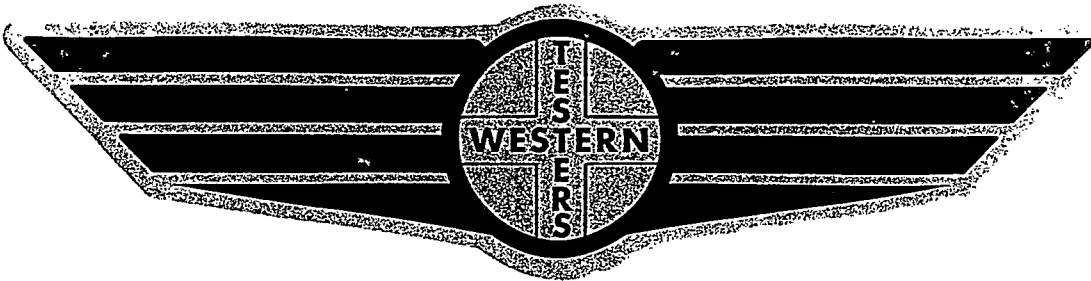
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I.



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY RITCHIE EXPLORATION, INC. LEASE & WELF. NO. #1 H THOMAS

SPEC. 7 TWP. 19S RGE. 28W WEST NO. 2 DATE: 8/19/94

DST REPORT

GENERAL INFORMATION

DATE	: 8/17/94	TICKET	: 20074
CUSTOMER	: RITCHIE EXPLORATION, INC	LEASE	: H THOMAS
WELL	: #1	TEST: 2	GEOLOGIST: CHRISTIAN
ELEVATION	: 2800 GL	FORMATION	: L KANSAS CITY L
SECTION	: 7	TOWNSHIP	: 19S
RANGE	: 28W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 13760	RANGE : 3950	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4341.00 ft	TO:	4353.00 ft	TVD:	4353.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4344.0 ft	4347.0 ft			
TEMPERATURE:	132.0				
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 :	4321.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	12.0 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:	4336.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	4341.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	WHITE & ELLIS RIG 9	VISCOSITY :	51.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.000 ppg		
CHLORIDES :	3000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 2 MINUTES. FINAL FLOW PERIOD WEAK BLOW -
2 INCHES IN WATER.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	0.0	0.0	0.0	100.0	MUD W/FEW OIL SPOTS <1%
2197.0	0.0	0.0	100.0	0.0	WATER CHLORIDES 33000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.2104	STB	AVERAGE WATER RATE:	739.5816	STB/D
WATER VOLUME:	30.8159	STB			
TOTAL FLUID :	31.0263	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2105.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	322.00	682.00
INITIAL SHUT-IN	30.00		760.00
FINAL FLOW	30.00	760.00	760.00
FINAL SHUT-IN	30.00		760.00

FINAL HYDROSTATIC PRESSURE: 2075.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2110.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	332.00	751.00
INITIAL SHUT-IN	30.00		768.00
FINAL FLOW	30.00	768.00	770.00
FINAL SHUT-IN	30.00		775.00

FINAL HYDROSTATIC PRESSURE: 2046.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8/17/94	TICKET : 20074
CUSTOMER : RITCHIE EXPLORATION, INC	LEASE : H THOMAS
WELL : #1 TEST: 2	GEOLOGIST: CHRISTIAN
ELEVATION: 2800 GL	FORMATION: L KANSAS CITY L
SECTION : 7	TOWNSHIP : 19S
RANGE : 28W	STATE : KS
GAUGE SN#: 13760	CLOCK : 12
COUNTY: LANE	
RANGE : 3950	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	332.00	332.00
5.00	479.00	147.00
10.00	578.00	99.00
15.00	650.00	72.00
20.00	700.00	50.00
25.00	732.00	32.00
30.00	751.00	19.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	757.00	757.00	0.00
6.00	761.00	4.00	0.00
9.00	763.00	2.00	0.00
12.00	765.00	2.00	0.00
15.00	765.00	0.00	0.00
18.00	766.00	1.00	0.00
21.00	766.00	0.00	0.00
24.00	767.00	1.00	0.00
27.00	767.00	0.00	0.00
30.00	768.00	1.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	768.00	768.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

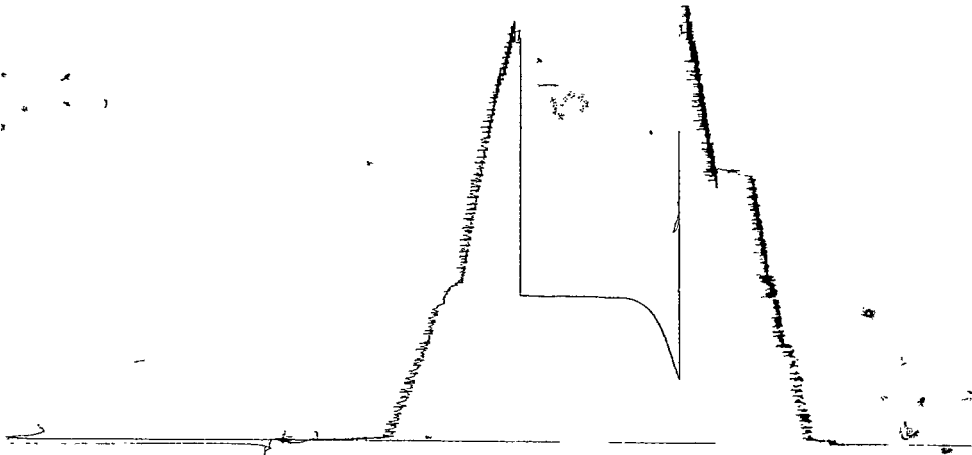
Time (min)	Pressure	Delta P
5.00	768.00	0.00
10.00	769.00	1.00
15.00	769.00	0.00
20.00	770.00	1.00
25.00	770.00	0.00
30.00	770.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	771.00	771.00	0.00
6.00	771.00	0.00	0.00
9.00	772.00	1.00	0.00
12.00	772.00	0.00	0.00
15.00	773.00	1.00	0.00
18.00	773.00	0.00	0.00
21.00	774.00	1.00	0.00
24.00	774.00	0.00	0.00
27.00	775.00	1.00	0.00
30.00	775.00	0.00	0.00

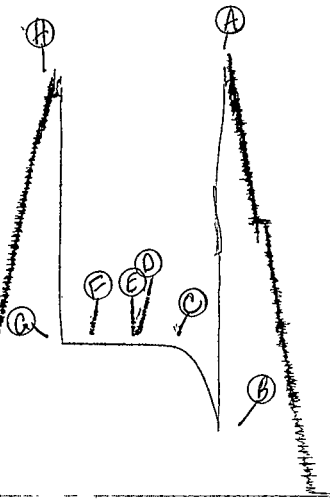
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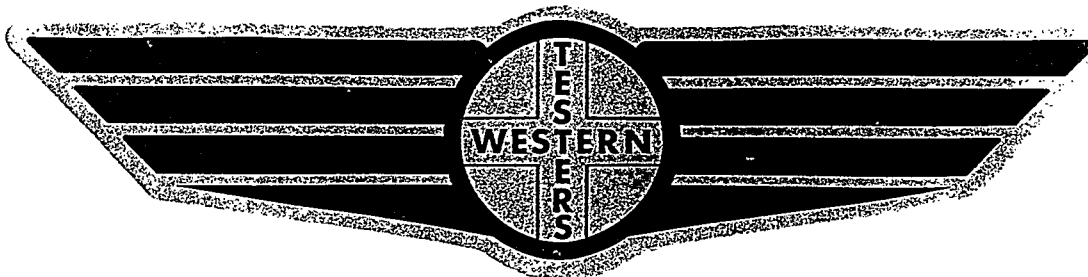


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TR# 20044
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY RITCHIE EXPLORATION, INC. 11/2/84 11/2/84

#1 H THOMAS

7

19S

28W

NO.

3

1/2/84

8/18/94

DST REPORT

GENERAL INFORMATION

DATE	: 8/18/94	TICKET	: 20075
CUSTOMER	: RITCHIE EXPLORATION, INC	LEASE	: H THOMAS
WELL	: #1	TEST: 3	GEOLOGIST: CHRISTIAN
ELEVATION	: 2800 GL	FORMATION:	
SECTION	: 7	TOWNSHIP	: 19S
RANGE	: 28W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 13760	RANGE : 3950	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4384.00 ft	TO:	4550.00 ft	TVD:	4550.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4387.0 ft		4390.0 ft		
TEMPERATURE:	0.0				
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 :	4364.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	166.0 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:	4379.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	4384.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	
PACKER DEPTH:	0.0 ft	SIZE:		0.000 in	

MUD INFORMATION

DRILLING CON. :	WHITE & ELLIS RIG 9	VISCOSITY :	49.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.300 ppg		
CHLORIDES :	4000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK SURFACE BLOW. FINAL FLOW
PERIOD NO BLOW.
PIPE WOULD NOT ROTATE FOR FINAL SHUT-IN.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.2104	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	0.2104	STB		
			TOTAL FLOW TIME:	No Events Created
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 0.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	0.00	0.00
INITIAL SHUT-IN	30.00		0.00
FINAL FLOW	30.00	0.00	0.00
FINAL SHUT-IN	30.00		0.00

FINAL HYDROSTATIC PRESSURE: 0.00

OFFICE TIME & PRESSURE INFORMATION

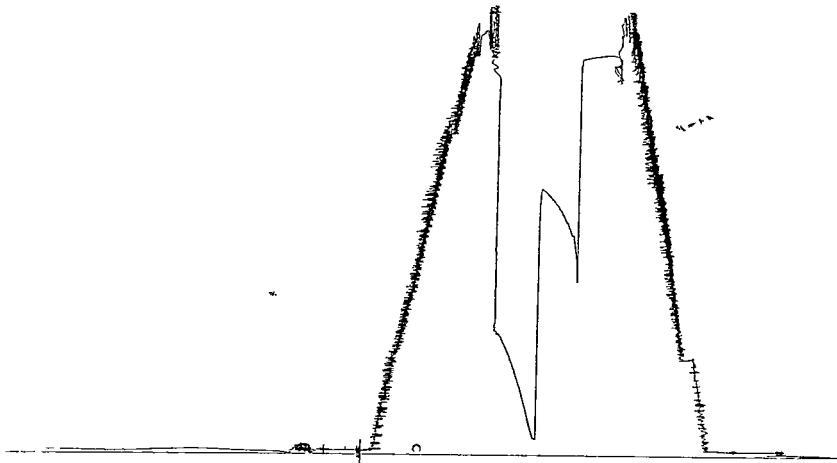
INITIAL HYDROSTATIC PRESSURE: 2217.00

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

FINAL HYDROSTATIC PRESSURE: 2197.00

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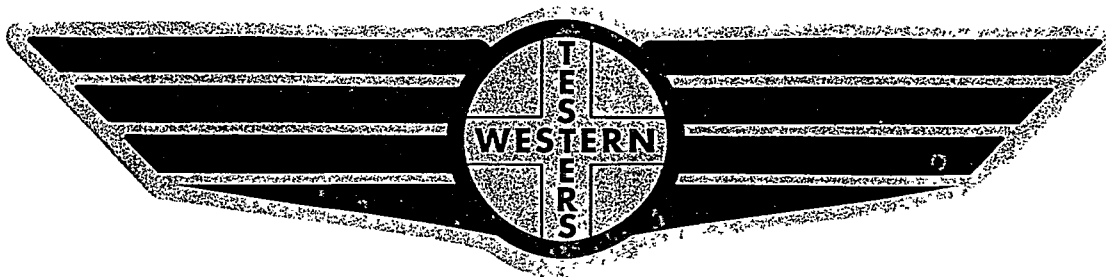
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-663-7021

COMPANY RITCHIE EXPLORATION, INC. PLEASE & WELL, NO. #1 H THOMAS

SIC: 7

TWP 19S

RCFT, 28W

TEST NO. 4

DATE:

8/19/94

DST REPORT

GENERAL INFORMATION

DATE	: 8/19/94	TICKET	: 20426
CUSTOMER	: RITCHIE EXPLORATION, INC	LEASE	: H THOMAS
WELL	: #1	TEST: 4	GEOLOGIST: CHRISTIAN
ELEVATION	: 2800 GL	FORMATION	: JOHNSON
SECTION	: 7	TOWNSHIP	: 19S
RANGE	: 28W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 13760	RANGE : 3950	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4383.00 ft	TO:	4630.00 ft	TVD:	4630.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4386.0 ft	4389.0 ft			
TEMPERATURE:	132.0				
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 :	4363.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	247.0 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:	4378.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	4383.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	WHITE & ELLIS RIG 9	VISCOSITY :	52.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.400 cc
WEIGHT :	9.300 ppg	SERIAL NUMBER:	
CHLORIDES :	4500 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK DECREASING BLOW - 1/2
INCH IN WATER. FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.2104	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: 2155.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	48.00	48.00
INITIAL SHUT-IN	30.00		439.00
FINAL FLOW	30.00	48.00	48.00
FINAL SHUT-IN	30.00		371.00

FINAL HYDROSTATIC PRESSURE: 2135.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2215.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	82.00	51.00
INITIAL SHUT-IN	27.00		451.00
FINAL FLOW	30.00	65.00	53.00
FINAL SHUT-IN	30.00		373.00

FINAL HYDROSTATIC PRESSURE: 2179.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8/19/94	TICKET : 20426
CUSTOMER : RITCHIE EXPLORATION, INC	LEASE : H THOMAS
WELL : #1	GEOLOGIST: CHRISTIAN
ELEVATION: 2800 GL	FORMATION: JOHNSON
SECTION : 7	TOWNSHIP : 19S
RANGE : 28W	STATE : KS
GAUGE SN#: 13760	CLOCK : 12
COUNTY: LANE	
RANGE : 3950	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	82.00	82.00
5.00	64.00	-18.00
10.00	55.00	-9.00
15.00	52.00	-3.00
20.00	51.00	-1.00
25.00	51.00	0.00
30.00	51.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	64.00	64.00	0.00
6.00	99.00	35.00	0.00
9.00	154.00	55.00	0.00
12.00	208.00	54.00	0.00
15.00	266.00	58.00	0.00
18.00	318.00	52.00	0.00
21.00	371.00	53.00	0.00
24.00	407.00	36.00	0.00
27.00	451.00	44.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	65.00	65.00
5.00	65.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
10.00	58.00	-7.00
15.00	56.00	-2.00
20.00	55.00	-1.00
25.00	54.00	-1.00
30.00	53.00	-1.00

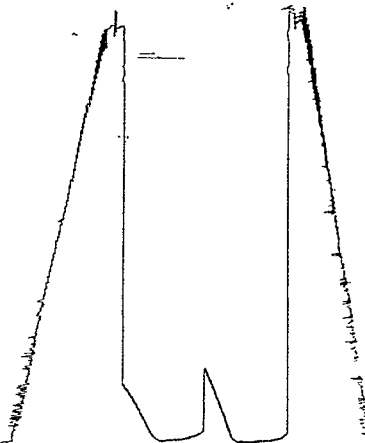
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	65.00	65.00	0.00
6.00	88.00	23.00	0.00
9.00	121.00	33.00	0.00
12.00	166.00	45.00	0.00
15.00	203.00	37.00	0.00
18.00	242.00	39.00	0.00
21.00	280.00	38.00	0.00
24.00	313.00	33.00	0.00
27.00	351.00	38.00	0.00
30.00	373.00	22.00	0.00

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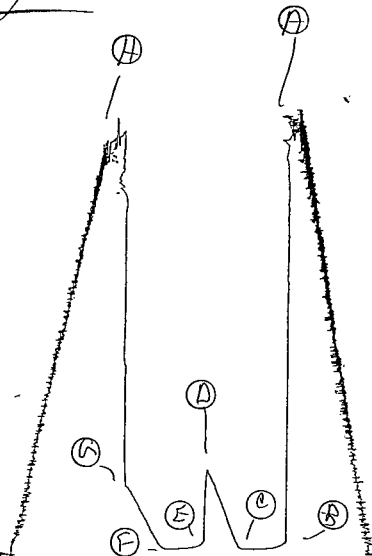
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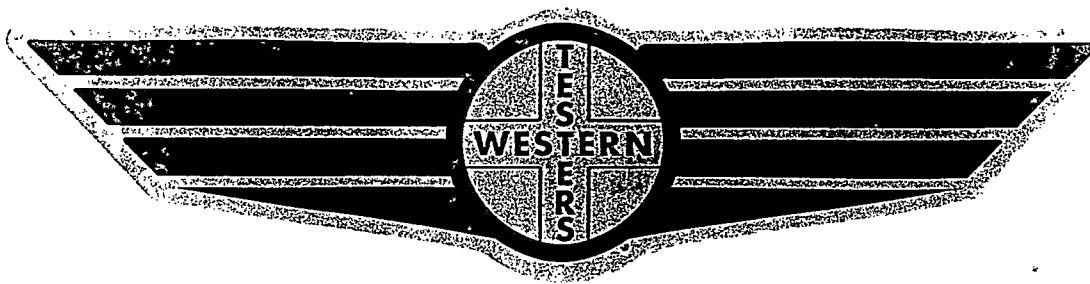
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P O. Box 1599

Phone 1-800-688-7021

COMPANY RITCHIE EXPLORATION, INC. LEASE #1 H THOMAS

7 19S 28W NO. 5 DATE 8/20/94

DST REPORT

GENERAL INFORMATION

DATE	: 8/20/94	TICKET	: 20427
CUSTOMER	: RITCHIE EXPLORATION, INC	LEASE	: H THOMAS
WELL	: #1	TEST: 5	GEOLOGIST: CHRISTIAN
ELEVATION	: 2800 GL	FORMATION	: CONGLOMERATE SAND
SECTION	: 7	TOWNSHIP	: 19S
RANGE	: 28W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 13760	RANGE : 3950	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4624.00 ft	TO:	4650.00 ft	TVD:	4650.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4627.0 ft		4630.0 ft		
TEMPERATURE:	133.0				
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 :	4604.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	26.0 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:	4619.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	4624.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	WHITE & ELLIS RIG 9	VISCOSITY :	52.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.400 cc
WEIGHT :	9.300 ppg	SERIAL NUMBER:	
CHLORIDES :	4500 ppm	REVERSED OUT?:	NO
JARS-MAKE :			
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - DIED IN 15
MINUTES. FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2.0	0.0	0.0	0.0	100.0	MUD W/SCUM OF OIL ON TOP

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0281	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0281	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2304.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	48.00	48.00
INITIAL SHUT-IN	30.00		48.00
FINAL FLOW	30.00	48.00	48.00
FINAL SHUT-IN	30.00		48.00

FINAL HYDROSTATIC PRESSURE: 2294.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2402.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	63.00	47.00
INITIAL SHUT-IN	30.00		47.00
FINAL FLOW	30.00	47.00	45.00
FINAL SHUT-IN	30.00		46.00

FINAL HYDROSTATIC PRESSURE: 2343.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 8/20/94	TICKET : 20427
CUSTOMER : RITCHIE EXPLORATION, INC	LEASE : H THOMAS
WELL : #1	GEOLOGIST: CHRISTIAN
ELEVATION: 2800 GL	FORMATION: CONGLOMERATE SAND
SECTION : 7	TOWNSHIP : 19S
RANGE : 28W	STATE : KS
COUNTY: LANE	CLOCK : 12
GAUGE SN#: 13760	RANGE : 3950

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	63.00	63.00
5.00	63.00	0.00
10.00	53.00	-10.00
15.00	50.00	-3.00
20.00	48.00	-2.00
25.00	47.00	-1.00
30.00	47.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	47.00	47.00	0.00
6.00	47.00	0.00	0.00
9.00	47.00	0.00	0.00
12.00	47.00	0.00	0.00
15.00	47.00	0.00	0.00
18.00	47.00	0.00	0.00
21.00	47.00	0.00	0.00
24.00	47.00	0.00	0.00
27.00	47.00	0.00	0.00
30.00	47.00	0.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	47.00	47.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
5.00	47.00	0.00
10.00	47.00	0.00
15.00	47.00	0.00
20.00	46.00	-1.00
25.00	45.00	-1.00
30.00	45.00	0.00

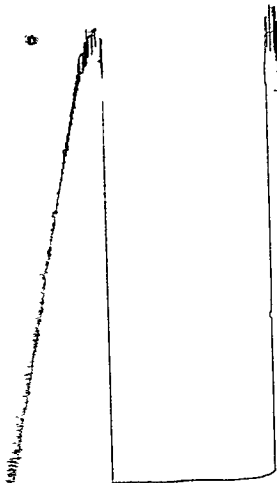
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	45.00	45.00	0.00
6.00	45.00	0.00	0.00
9.00	45.00	0.00	0.00
12.00	45.00	0.00	0.00
15.00	45.00	0.00	0.00
18.00	45.00	0.00	0.00
21.00	46.00	1.00	0.00
24.00	46.00	0.00	0.00
27.00	46.00	0.00	0.00
30.00	46.00	0.00	0.00

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