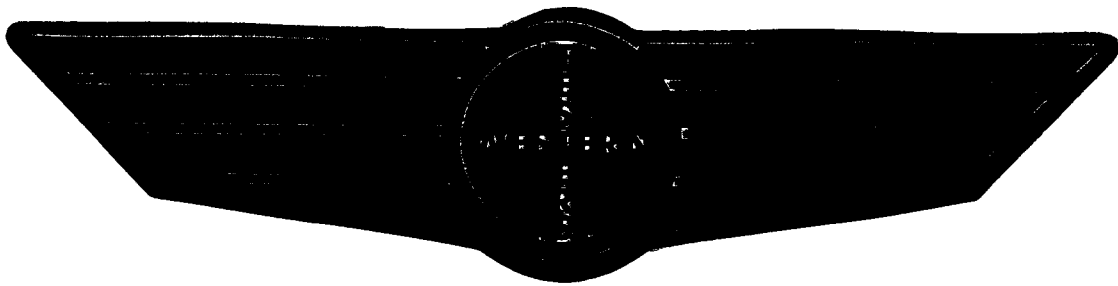


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 4/7/94
CUSTOMER : RITCHIE EXPLORATION, INC.
WELL : #1 TEST: 1
ELEVATION: 2735 GR
SECTION : 1
RANGE : 28W COUNTY: LANE
GAUGE SN#: 13760 RANGE : 3950

TICKET : 20338
LEASE : BUERKLE FARMS
GEOLOGIST: MILFORD
FORMATION: L KANSAS CITY J
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4220.00 ft TO: 4241.00 ft TVD: 4241.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4223.0 ft 4226.0 ft
TEMPERATURE: 126.0

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 :	4205.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	15.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	21.0 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:	4220.0 ft	SIZE:	6.750 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 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 : 9.100 ppg
CHLORIDES : 2600 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 39.00 cp
WATER LOSS: 10.000 cc

SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD OPENED WITH WEAK 1/2 INCH
BLOW- INCREASED TO 4 INCHES IN WATER. FINAL FLOW
PERIOD OPENED WEAK - INCREASED TO 3 INCHES IN

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

WATER.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	6 FT GAS ABOVE FLUID
2.0	100.0	0.0	0.0	0.0	OIL
55.0	15.0	0.0	5.0	80.0	OIL CUT WATERY MUD
60.0	0.0	0.0	30.0	70.0	WATERY MUD
60.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 35000 PPM

RATE INFORMATION

OIL VOLUME:	0.1438	STB	TOTAL FLOW TIME:	90.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	9.7062	STB/D
MUD VOLUME:	1.2063	STB	AVERAGE WATER RATE:	30.0164	STB/D
WATER VOLUME:	1.1326	STB			
TOTAL FLUID :	2.4827	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2135.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	24.00	48.00
INITIAL SHUT-IN	45.00		848.00
FINAL FLOW	45.00	68.00	97.00
FINAL SHUT-IN	45.00		828.00
FINAL HYDROSTATIC PRESSURE:	2055.00		

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2126.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	12.00	49.00
INITIAL SHUT-IN	48.00		840.00
FINAL FLOW	45.00	70.00	95.00
FINAL SHUT-IN	51.00		838.00

FINAL HYDROSTATIC PRESSURE: 2051.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/7/94	TICKET : 20338
CUSTOMER : RITCHIE EXPLORATION, INC.	LEASE : BUERKLE FARMS
WELL : #1 TEST: 1	GEOLOGIST: MILFORD
ELEVATION: 2735 GR	FORMATION: L KANSAS CITY J
SECTION : 1	TOWNSHIP : 19S
RANGE : 28W COUNTY: LANE	STATE : KS
GAUGE SN#: 13760 RANGE : 3950	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	12.00	12.00
5.00	18.00	6.00
10.00	22.00	4.00
15.00	27.00	5.00
20.00	30.00	3.00
25.00	34.00	4.00
30.00	39.00	5.00
35.00	43.00	4.00
40.00	46.00	3.00
45.00	49.00	3.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	204.00	204.00	16.00
6.00	785.00	581.00	8.50
9.00	811.00	26.00	6.00
12.00	819.00	8.00	4.75
15.00	826.00	7.00	4.00
18.00	831.00	5.00	3.50
21.00	834.00	3.00	3.14
24.00	836.00	2.00	2.88
27.00	837.00	1.00	2.67
30.00	838.00	1.00	2.50
33.00	838.00	0.00	2.36
36.00	839.00	1.00	2.25
39.00	840.00	1.00	2.15
42.00	840.00	0.00	2.07
45.00	840.00	0.00	2.00
48.00	840.00	0.00	1.94

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	70.00	70.00
5.00	70.00	0.00
10.00	70.00	0.00
15.00	73.00	3.00
20.00	77.00	4.00
25.00	80.00	3.00
30.00	84.00	4.00
35.00	88.00	4.00
40.00	92.00	4.00
45.00	95.00	3.00

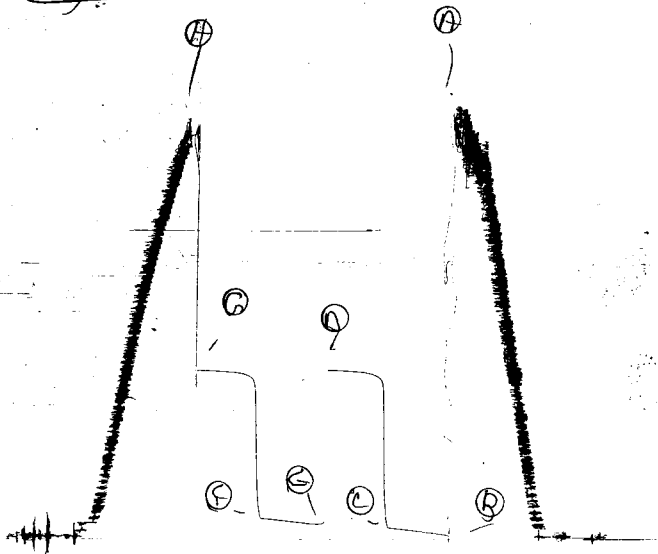
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	214.00	214.00	16.00
6.00	653.00	439.00	8.50
9.00	795.00	142.00	6.00
12.00	810.00	15.00	4.75
15.00	817.00	7.00	4.00
18.00	823.00	6.00	3.50
21.00	825.00	2.00	3.14
24.00	827.00	2.00	2.88
27.00	829.00	2.00	2.67
30.00	831.00	2.00	2.50
33.00	832.00	1.00	2.36
36.00	833.00	1.00	2.25
39.00	834.00	1.00	2.15
42.00	835.00	1.00	2.07
45.00	836.00	1.00	2.00
48.00	837.00	1.00	1.94
51.00	838.00	1.00	1.88

13260

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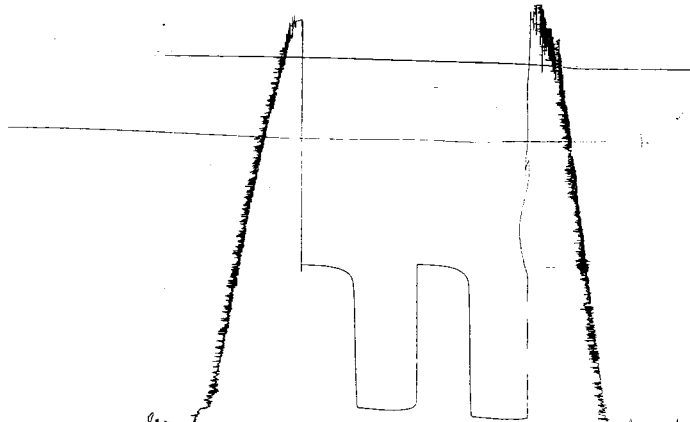
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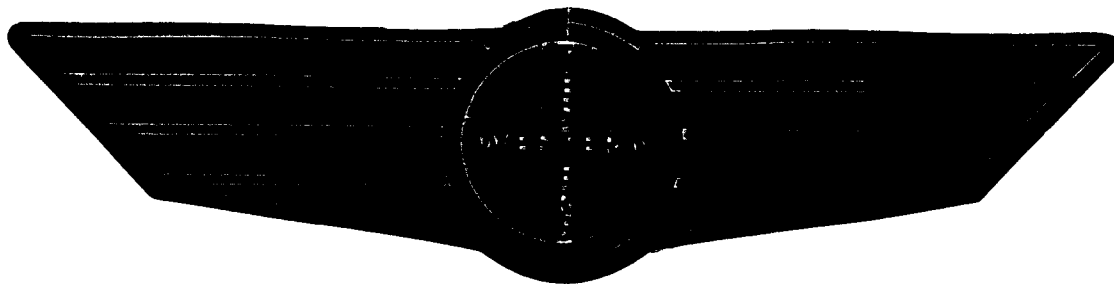
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY RICHTIE EXPLORATION, INC. LEASE & WELL NO. #1 BUEKLE FARMS SEC. 1 TWP. 19S RGE. 28W TEST NO. 2 DATE 4/7/94

DST REPORT

GENERAL INFORMATION

DATE	: 4/7/94	TICKET	: 20339
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: BUERKLE FARMS
WELL	: #1	TEST: 2	GEOLOGIST: MILFORD
ELEVATION	: 2735 GR	FORMATION	: L KANSAS CITY K
SECTION	: 1	TOWNSHIP	: 19S
RANGE	: 28W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 13400	RANGE : 3950	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4256.00 ft	TO:	4277.00 ft	TVD:	4277.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4259.0 ft	4262.0 ft			
TEMPERATURE:	126.0				
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 :	4236.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	21.0 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:	4251.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	4256.0 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 :	46.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT :	9.200 ppg		
CHLORIDES :	4000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 10 MINUTES. FINAL FLOW PERIOD STRONG BLOW -
BOTTOM OF BUCKET IN 12 MINUTES.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

READ OUTSIDE CHART.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	720 FT GAS ABOVE FLUID
190.0	60.0	20.0	0.0	20.0	GASSY MUD CUT OIL
180.0	0.0	0.0	100.0	0.0	WATER W/FEW OIL SPOTS
0.0	0.0	0.0	0.0	0.0	OIL LESS THAN 1%
0.0	0.0	0.0	0.0	0.0	CHLORIDES 36000 PPM

RATE INFORMATION

OIL VOLUME:	1.5990 STB	TOTAL FLOW TIME:	55.0000 min.
GAS VOLUME:	2.9928 SCF	AVERAGE OIL RATE:	55.8198 STB/D
MUD VOLUME:	0.5330 STB	AVERAGE WATER RATE:	66.1024 STB/D
WATER VOLUME:	2.5247 STB		
TOTAL FLUID :	4.6567 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2055.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	29.00	68.00
INITIAL SHUT-IN	30.00		955.00
FINAL FLOW	30.00	87.00	126.00
FINAL SHUT-IN	30.00		935.00
FINAL HYDROSTATIC PRESSURE:	2015.00		

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2066.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	60.00	88.00
INITIAL SHUT-IN	27.00		955.00
FINAL FLOW	25.00	143.00	156.00
FINAL SHUT-IN	33.00		953.00

FINAL HYDROSTATIC PRESSURE: 2048.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 4/7/94	TICKET	: 20339
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: BUERKLE FARMS
WELL	: #1	GEOLOGIST	: MILFORD
ELEVATION	: 2735 GR	FORMATION	: L KANSAS CITY K
SECTION	: 1	TOWNSHIP	: 19S
RANGE	: 28W	STATE	: KS
GAUGE SN#	: 13400	CLOCK	: 12
	COUNTY: LANE		
	RANGE : 3950		

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	60.00	60.00
5.00	60.00	0.00
10.00	60.00	0.00
15.00	60.00	0.00
20.00	68.00	8.00
25.00	77.00	9.00
30.00	88.00	11.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	680.00	680.00	11.00
6.00	828.00	148.00	6.00
9.00	872.00	44.00	4.33
12.00	898.00	26.00	3.50
15.00	916.00	18.00	3.00
18.00	928.00	12.00	2.67
21.00	939.00	11.00	2.43
24.00	949.00	10.00	2.25
27.00	955.00	6.00	2.11

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	143.00	143.00
5.00	143.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

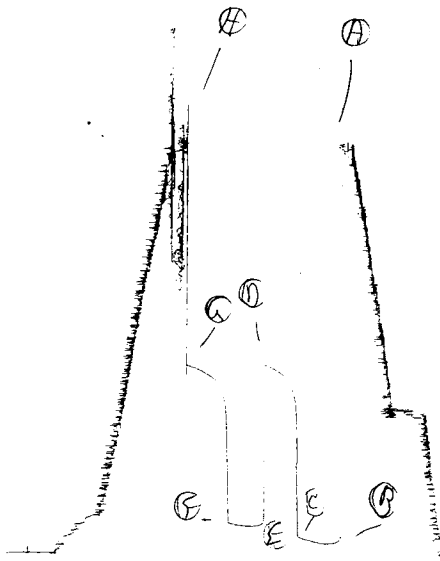
Time (min)	Pressure	Delta P
10.00	143.00	0.00
15.00	145.00	2.00
20.00	148.00	3.00
25.00	156.00	8.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	678.00	678.00	9.33
6.00	813.00	135.00	5.17
9.00	856.00	43.00	3.78
12.00	880.00	24.00	3.08
15.00	898.00	18.00	2.67
18.00	910.00	12.00	2.39
21.00	924.00	14.00	2.19
24.00	932.00	8.00	2.04
27.00	940.00	8.00	1.93
30.00	946.00	6.00	1.83
33.00	953.00	7.00	1.76

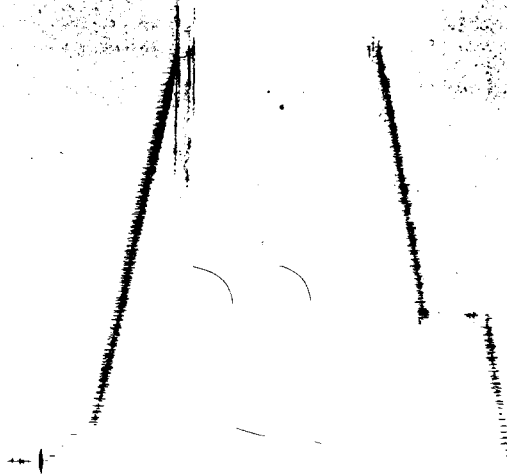
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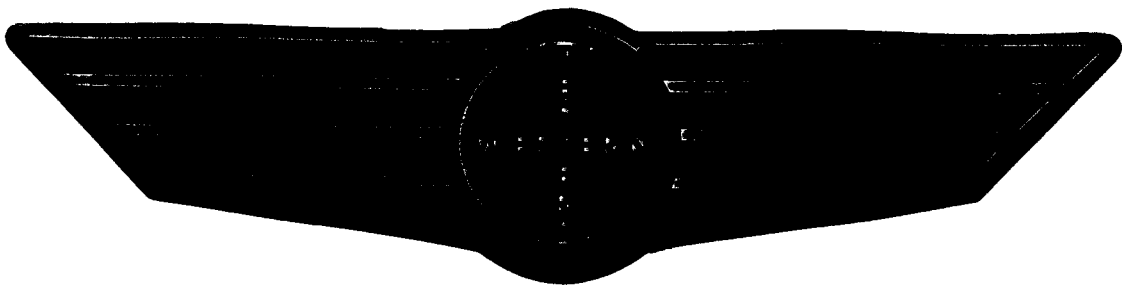


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY RITCHIE EXPLORATION, INC. LEASE & WELL NO. #1 BUEKLE FARMS SEC. 1 TWP. 19S RGE. 28W TEST NO. 3 DATE 4/8/94

DST REPORT

GENERAL INFORMATION

DATE	: 4/8/94	TICKET	: 20340
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: BUERKLE FARMS
WELL	: #1	TEST: 3	GEOLOGIST: MILFORD
ELEVATION	: 2735 GR	FORMATION	: L KANSAS CITY M C-L
SECTION	: 1	TOWNSHIP	: 19S
RANGE	: 28W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 13400	RANGE : 3950	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4296.00 ft	TO:	4324.00 ft	TVD:	4324.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4299.0 ft	4302.0 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 :	4276.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	28.0 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:	4291.0 ft	SIZE:	6.750 in		
PACKER DEPTH:	4296.0 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 :	45.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.200 cc
WEIGHT :	9.200 ppg		
CHLORIDES :	5000 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 STRONG BLOW -
BOTTOM OF BUCKET IN 1 MINUTE.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

READ OUTSIDE CHART.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	720 FT GAS ABOVE FLUID
434.0	90.0	10.0	0.0	0.0	GASSY OIL
124.0	60.0	10.0	0.0	30.0	GASSY MUD CUT OIL
174.0	75.0	10.0	15.0	0.0	GASSY WATER CUT OIL
0.0	0.0	0.0	0.0	0.0	GRAVITY 39 CORR. TO 60 DG
70.0	0.0	0.0	100.0	0.0	WATER CHLORIDES 35000PPM

RATE INFORMATION

OIL VOLUME:	8.3527 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	5.7651 SCF	AVERAGE OIL RATE:	212.9874 STB/D
MUD VOLUME:	0.5218 STB	AVERAGE WATER RATE:	32.3504 STB/D
WATER VOLUME:	1.3479 STB		
TOTAL FLUID :	10.2224 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2105.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	48.00	146.00
INITIAL SHUT-IN	30.00		1131.00
FINAL FLOW	30.00	214.00	322.00
FINAL SHUT-IN	30.00		1102.00
FINAL HYDROSTATIC PRESSURE:	2095.00		

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2120.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	84.00	149.00
INITIAL SHUT-IN	30.00		1085.00
FINAL FLOW	30.00	228.00	288.00
FINAL SHUT-IN	30.00		1051.00

FINAL HYDROSTATIC PRESSURE: 2078.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/8/94	TICKET : 20340
CUSTOMER : RITCHIE EXPLORATION, INC.	LEASE : BUERKLE FARMS
WELL : #1 TEST: 3	GEOLOGIST: MILFORD
ELEVATION: 2735 GR	FORMATION: L KANSAS CITY M C-L
SECTION : 1	TOWNSHIP : 19S
RANGE : 28W COUNTY: LANE	STATE : KS
GAUGE SN#: 13400 RANGE : 3950	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	84.00	84.00
5.00	84.00	0.00
10.00	84.00	0.00
15.00	99.00	15.00
20.00	116.00	17.00
25.00	136.00	20.00
30.00	149.00	13.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	846.00	846.00	11.00
6.00	966.00	120.00	6.00
9.00	1021.00	55.00	4.33
12.00	1041.00	20.00	3.50
15.00	1054.00	13.00	3.00
18.00	1062.00	8.00	2.67
21.00	1072.00	10.00	2.43
24.00	1078.00	6.00	2.25
27.00	1080.00	2.00	2.11
30.00	1085.00	5.00	2.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	228.00	228.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

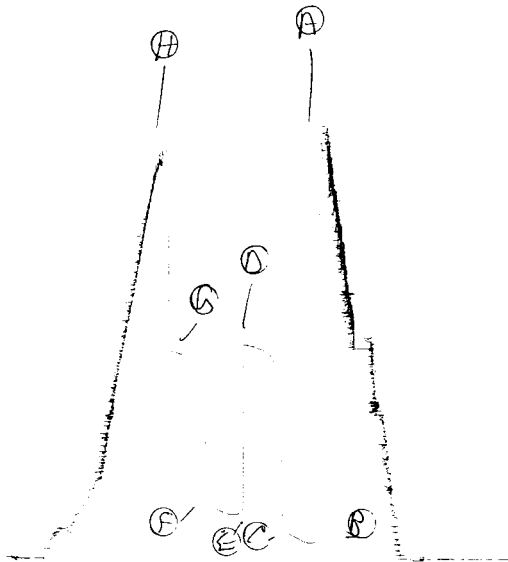
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5.00	228.00	0.00
10.00	228.00	0.00
15.00	236.00	8.00
20.00	257.00	21.00
25.00	277.00	20.00
30.00	288.00	11.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	902.00	902.00	11.00
6.00	964.00	62.00	6.00
9.00	992.00	28.00	4.33
12.00	1012.00	20.00	3.50
15.00	1022.00	10.00	3.00
18.00	1033.00	11.00	2.67
21.00	1040.00	7.00	2.43
24.00	1044.00	4.00	2.25
27.00	1048.00	4.00	2.11
30.00	1051.00	3.00	2.00

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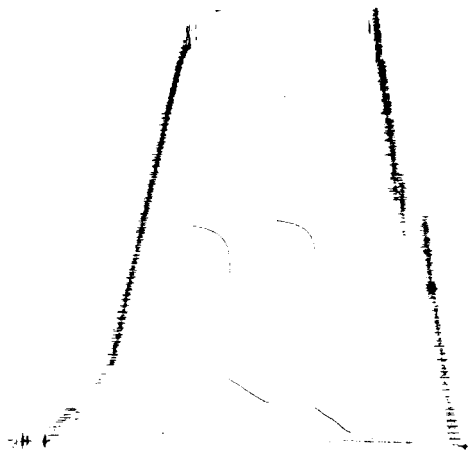
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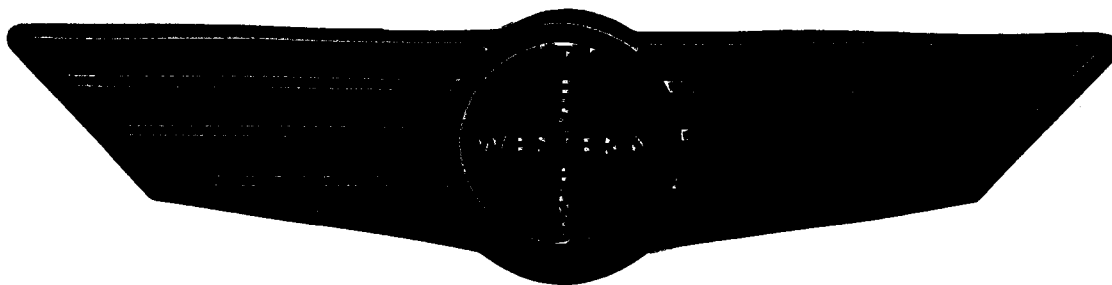
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 4/9/94	TICKET	: 20341
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: BUERKLE FARMS
WELL	: #1	TEST: 4	GEOLOGIST: MILFORD
ELEVATION	: 2735 GR	FORMATION	: PLES - PAWNEE
SECTION	: 1	TOWNSHIP	: 19S
RANGE	: 28W	STATE	: KS
GAUGE SN#	: 13400	RANGE	: 3950
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4334.00 ft	TO:	4475.00 ft	TVD:	4475.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4437.0 ft		4440.0 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 :	4314.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	141.0 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:	4429.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	4434.0 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 :	45.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.800 cc
WEIGHT :	9.200 ppg		
CHLORIDES :	4000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - DIED IN 20
MINUTES. FINAL FLOW PERIOD NO BLOW - FLUSHED TOOL
READ OUTSIDE CHART.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
10.0	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:	0.1403	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.1403	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2156.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	58.00	58.00
INITIAL SHUT-IN	30.00		68.00
FINAL FLOW	30.00	58.00	58.00
FINAL SHUT-IN	30.00		58.00

FINAL HYDROSTATIC PRESSURE: 2146.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2133.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	45.00	45.00
INITIAL SHUT-IN	30.00		55.00
FINAL FLOW	30.00	44.00	44.00
FINAL SHUT-IN	24.00		47.00

FINAL HYDROSTATIC PRESSURE: 2133.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/9/94	TICKET : 20341
CUSTOMER : RITCHIE EXPLORATION, INC.	LEASE : BUERKLE FARMS
WELL : #1 TEST: 4	GEOLOGIST: MILFORD
ELEVATION: 2735 GR	FORMATION: PLES - PAWNEE
SECTION : 1	TOWNSHIP : 19S
RANGE : 28W	STATE : KS
GAUGE SN#: 13400	CLOCK : 12
COUNTY: LANE	
RANGE : 3950	

INITIAL 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

INITIAL 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	46.00	1.00	0.00
15.00	46.00	0.00	0.00
18.00	47.00	1.00	0.00
21.00	49.00	2.00	0.00
24.00	51.00	2.00	0.00
27.00	53.00	2.00	0.00
30.00	55.00	2.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	44.00	44.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

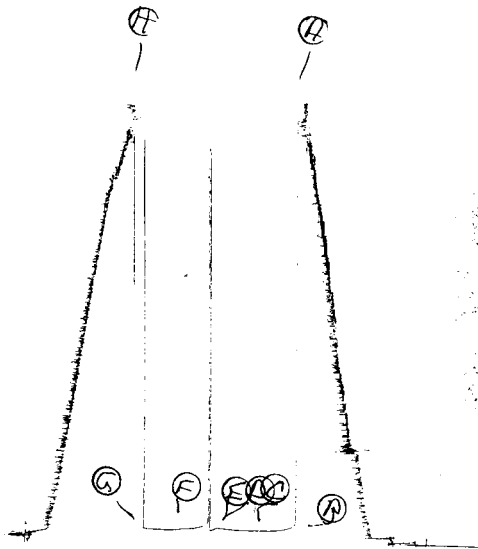
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
5.00	44.00	0.00
10.00	67.00	23.00
15.00	57.00	-10.00
20.00	51.00	-6.00
25.00	48.00	-3.00
30.00	44.00	-4.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	44.00	44.00	0.00
6.00	44.00	0.00	0.00
9.00	44.00	0.00	0.00
12.00	44.00	0.00	0.00
15.00	45.00	1.00	0.00
18.00	45.00	0.00	0.00
21.00	46.00	1.00	0.00
24.00	47.00	1.00	0.00

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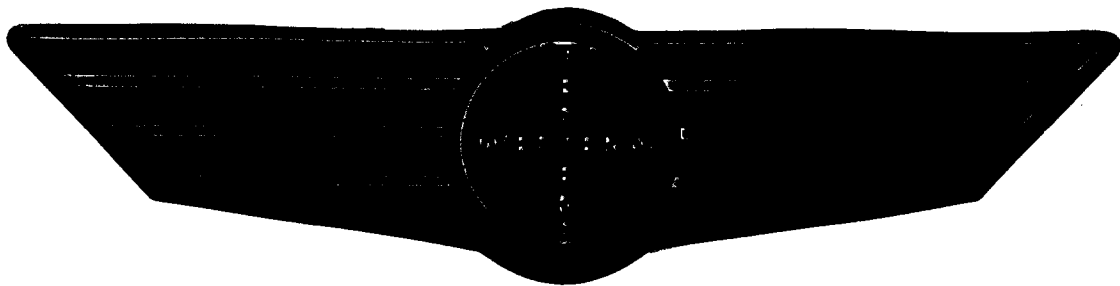
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 4/10/94	TICKET	: 20342
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: BUERKLE FARMS
WELL	: #1	TEST: 5	GEOLOGIST: MILFORD
ELEVATION	: 2735 GR	FORMATION	: FT SCOTT-JOHNSON
SECTION	: 1	TOWNSHIP	: 19S
RANGE	: 28W	STATE	: KS
GAUGE SN#	: 13400	CLOCK	: 12
	COUNTY: LANE		
	RANGE : 3950		

WELL INFORMATION

PERFORATION INTERVAL FROM:	4501.00 ft	TO:	4595.00 ft	TVD:	4595.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4504.0 ft		4507.0 ft		
TEMPERATURE:	130.0				
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 :	4481.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	94.0 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:	4496.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	4501.0 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 :	45.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.400 cc
WEIGHT :	9.300 ppg		
CHLORIDES :	3000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK STEADY BLOW - 1/2 INCH
IN WATER. FINAL FLOW PERIOD NO BLOW-FLUSHED TOOL.
READ OUTSIDE CHART

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	75.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0701	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: 2206.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	48.00	48.00
INITIAL SHUT-IN	45.00		77.00
FINAL FLOW	30.00	48.00	48.00
FINAL SHUT-IN	30.00		48.00

FINAL HYDROSTATIC PRESSURE: 2196.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2204.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	69.00	39.00
INITIAL SHUT-IN	39.00		70.00
FINAL FLOW	30.00	55.00	43.00
FINAL SHUT-IN	24.00		38.00

FINAL HYDROSTATIC PRESSURE: 2196.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 4/10/94	TICKET	: 20342
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: BUERKLE FARMS
WELL	: #1 TEST: 5	GEOLOGIST	: MILFORD
ELEVATION	: 2735 GR	FORMATION	: FT SCOTT-JOHNSON
SECTION	: 1	TOWNSHIP	: 19S
RANGE	: 28W COUNTY: LANE	STATE	: KS
GAUGE SN#	: 13400 RANGE : 3950	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	69.00	69.00
5.00	69.00	0.00
10.00	63.00	-6.00
15.00	55.00	-8.00
20.00	52.00	-3.00
25.00	48.00	-4.00
30.00	45.00	-3.00
35.00	43.00	-2.00
40.00	41.00	-2.00
45.00	39.00	-2.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	39.00	39.00	0.00
6.00	40.00	1.00	0.00
9.00	41.00	1.00	0.00
12.00	42.00	1.00	0.00
15.00	43.00	1.00	0.00
18.00	45.00	2.00	0.00
21.00	48.00	3.00	0.00
24.00	51.00	3.00	0.00
27.00	54.00	3.00	0.00
30.00	57.00	3.00	0.00
33.00	61.00	4.00	0.00
36.00	65.00	4.00	0.00
39.00	70.00	5.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	55.00	55.00
5.00	55.00	0.00
10.00	68.00	13.00
15.00	57.00	-11.00
20.00	49.00	-8.00
25.00	46.00	-3.00
30.00	43.00	-3.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	41.00	41.00	0.00
6.00	40.00	-1.00	0.00
9.00	39.00	-1.00	0.00
12.00	38.00	-1.00	0.00
15.00	38.00	0.00	0.00
18.00	38.00	0.00	0.00
21.00	38.00	0.00	0.00
24.00	38.00	0.00	0.00

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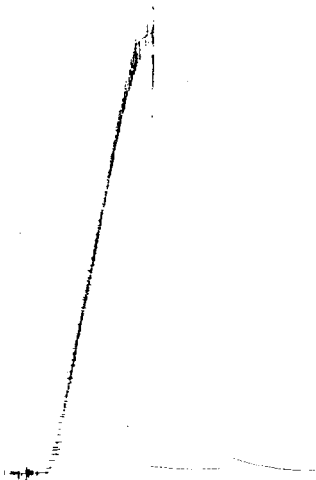


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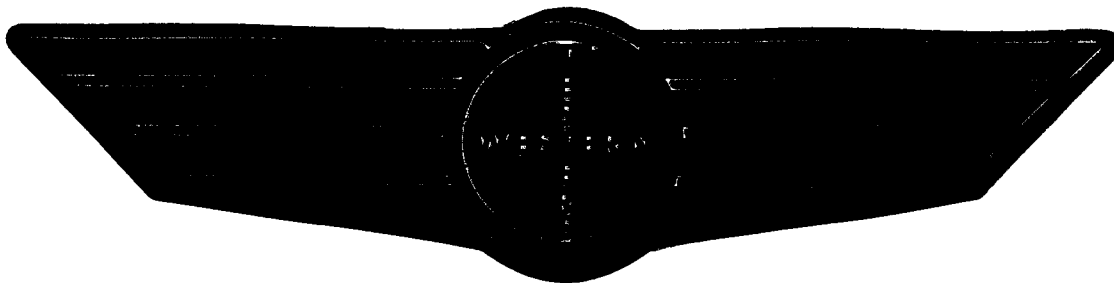


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY RITCHIE EXPLORATION, INC. LEASE & WELL NO. #1 BUEKLE FARMS SEC. 1 TWP. 19S RGE. 28W TEST NO. 6 DATE 4/11/94

DST REPORT

GENERAL INFORMATION

DATE	: 4/11/94	TICKET	: 20343
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: BUERKLE FARMS
WELL	: #1	TEST: 6	GEOLOGIST: MILFORD
ELEVATION	: 2735 GR	FORMATION	: CONGLOMERATE-MISS.
SECTION	: 1	TOWNSHIP	: 19S
RANGE	: 28W	STATE	: KS
GAUGE SN#	: 13400	RANGE	: 3950
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4579.00 ft	TO:	4612.00 ft	TVD:	4612.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4582.0 ft		4585.0 ft		
TEMPERATURE:	137.0				
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 :	4559.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	33.0 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:	4574.0 ft	SIZE:		6.750 in	
PACKER DEPTH:	4579.0 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 :	45.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.400 cc
WEIGHT :	9.300 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 10 MINUTES. FINAL FLOW PERIOD STRONG BLOW -
BOTTOM OF BUCKET IN 15 MINUTES.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

READ OUTSIDE CHART.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
186.0	100.0	0.0	0.0	0.0	OIL
0.0	0.0	0.0	0.0	0.0	34 GRAVITY @ 60 DEGREES F
186.0	20.0	0.0	0.0	80.0	OIL CUT MUD
124.0	10.0	0.0	60.0	30.0	OIL CUT MUDDY WATER
186.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 16000 PPM

RATE INFORMATION

OIL VOLUME:	3.3046	STB	TOTAL FLOW TIME:	60.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	131.1905	STB/D
MUD VOLUME:	2.6089	STB	AVERAGE WATER RATE:	98.3929	STB/D
WATER VOLUME:	3.6525	STB			
TOTAL FLUID :	9.5660	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2275.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	77.00	155.00
INITIAL SHUT-IN	30.00		1169.00
FINAL FLOW	30.00	213.00	281.00
FINAL SHUT-IN	30.00		1150.00
FINAL HYDROSTATIC PRESSURE:	2265.00		

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2296.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	89.00	160.00
INITIAL SHUT-IN	30.00		1161.00
FINAL FLOW	30.00	232.00	292.00
FINAL SHUT-IN	30.00		1157.00

FINAL HYDROSTATIC PRESSURE: 2276.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/11/94 CUSTOMER : RITCHIE EXPLORATION, INC. WELL : #1 TEST: 6 ELEVATION: 2735 GR SECTION : 1 RANGE : 28W COUNTY: LANE GAUGE SN#: 13400 RANGE : 3950	TICKET : 20343 LEASE : BUERKLE FARMS GEOLOGIST: MILFORD FORMATION: CONGLOMERATE-MISS. TOWNSHIP : 19S STATE : KS CLOCK : 12
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INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	89.00	89.00
5.00	89.00	0.00
10.00	89.00	0.00
15.00	102.00	13.00
20.00	121.00	19.00
25.00	143.00	22.00
30.00	160.00	17.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	909.00	909.00	11.00
6.00	987.00	78.00	6.00
9.00	1037.00	50.00	4.33
12.00	1068.00	31.00	3.50
15.00	1092.00	24.00	3.00
18.00	1114.00	22.00	2.67
21.00	1129.00	15.00	2.43
24.00	1142.00	13.00	2.25
27.00	1152.00	10.00	2.11
30.00	1161.00	9.00	2.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	232.00	232.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

Time (min)	Pressure	Delta P
5.00	232.00	0.00
10.00	232.00	0.00
15.00	242.00	10.00
20.00	261.00	19.00
25.00	279.00	18.00
30.00	292.00	13.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	915.00	915.00	11.00
6.00	988.00	73.00	6.00
9.00	1031.00	43.00	4.33
12.00	1063.00	32.00	3.50
15.00	1087.00	24.00	3.00
18.00	1105.00	18.00	2.67
21.00	1122.00	17.00	2.43
24.00	1136.00	14.00	2.25
27.00	1146.00	10.00	2.11
30.00	1157.00	11.00	2.00

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