

DST REPORT

GENERAL INFORMATION

DATE	: 2/5/95	TICKET	: 20704
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: MAUGHLIN
WELL	: #1	TEST: 1	GEOLOGIST: MILFORD
ELEVATION	: 2736 K.B.	FORMATION	: LANSING
SECTION	: 18	TOWNSHIP	: 19S
RANGE	: 27W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4270.00 ft	TO:	4289.00 ft	TVD:	4289.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4281.0 ft		4284.0 ft		
TEMPERATURE:	120.0				
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 :	4250.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	19.0 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:	4265.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4270.0 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. :	WHITE & ELLIS RIG #9	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.000 cc
WEIGHT :	9.200 ppg	SERIAL NUMBER:	
CHLORIDES :	2700 ppm	REVERSED OUT?:	NO
JARS-MAKE :	NONE		
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW: WEAK BUILDING TO A STRONG BLOW IN 28 MINUTES.
FINAL FLOW: WEAK BUILDING TO A FAIR BLOW, 1/2 INCH

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

TO 4-1/2 INCH BLOW.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
120.0	0.0	0.0	80.0	20.0	MUDDY WATER W/SHOW OF OIL
240.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	R.W.- .09 @ 75 DEG. F.
0.0	0.0	0.0	0.0	0.0	CHLORIDES- 46,000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.3366	STB		
WATER VOLUME:	4.7129	STB		
TOTAL FLUID :	5.0495	STB		
			TOTAL FLOW TIME:	90.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	80.7918 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2108.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	41.00	93.00
INITIAL SHUT-IN	45.00		966.00
FINAL FLOW	45.00	124.00	166.00
FINAL SHUT-IN	45.00		904.00

FINAL HYDROSTATIC PRESSURE: 2097.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2188.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	44.00	114.00
INITIAL SHUT-IN	45.00		965.00
FINAL FLOW	45.00	138.00	189.00
FINAL SHUT-IN	45.00		937.00

FINAL HYDROSTATIC PRESSURE: 2173.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

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WELL : #1 TEST: 1	GEOLOGIST: MILFORD
ELEVATION: 2736 K.B.	FORMATION: LANSING
SECTION : 18	TOWNSHIP : 19S
RANGE : 27W COUNTY: LANE	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	44.00	44.00
5.00	44.00	0.00
10.00	46.00	2.00
15.00	55.00	9.00
20.00	67.00	12.00
25.00	77.00	10.00
30.00	86.00	9.00
35.00	97.00	11.00
40.00	105.00	8.00
45.00	114.00	9.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	729.00	729.00	0.00
6.00	794.00	65.00	0.00
9.00	834.00	40.00	0.00
12.00	856.00	22.00	0.00
15.00	876.00	20.00	0.00
18.00	890.00	14.00	0.00
21.00	902.00	12.00	0.00
24.00	916.00	14.00	0.00
27.00	925.00	9.00	0.00
30.00	936.00	11.00	0.00
33.00	942.00	6.00	0.00
36.00	948.00	6.00	0.00
39.00	954.00	6.00	0.00
42.00	959.00	5.00	0.00
45.00	965.00	6.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	138.00	138.00
5.00	138.00	0.00
10.00	141.00	3.00
15.00	143.00	2.00
20.00	151.00	8.00
25.00	159.00	8.00
30.00	168.00	9.00
35.00	176.00	8.00
40.00	183.00	7.00
45.00	189.00	6.00

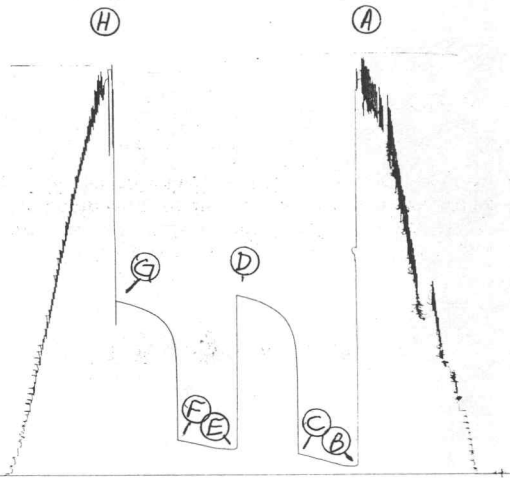
FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	732.00	732.00	0.00
6.00	782.00	50.00	0.00
9.00	815.00	33.00	0.00
12.00	838.00	23.00	0.00
15.00	854.00	16.00	0.00
18.00	867.00	13.00	0.00
21.00	878.00	11.00	0.00
24.00	889.00	11.00	0.00
27.00	896.00	7.00	0.00
30.00	905.00	9.00	0.00
33.00	911.00	6.00	0.00
36.00	918.00	7.00	0.00
39.00	925.00	7.00	0.00
42.00	930.00	5.00	0.00
45.00	937.00	7.00	0.00

Ticket # 20704

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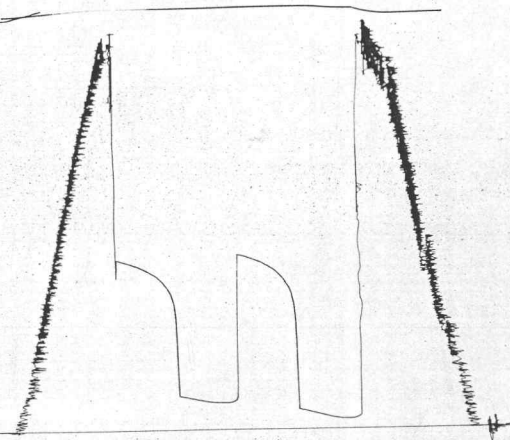
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Ticket # 20704

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DST REPORT

GENERAL INFORMATION

DATE	: 2/7/95	TICKET	: 20705
CUSTOMER	: RITCHIE EXPLORATION, INC.	LEASE	: MAUGHLIN
WELL	: #1	TEST: 2	GEOLOGIST: MILFORD
ELEVATION	: 2736 K.B.	FORMATION	: JOHNSON/CONG-SAND
SECTION	: 18	TOWNSHIP	: 19S
RANGE	: 27W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4508.00 ft	TO:	4614.00 ft	TVD:	4614.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4511.0 ft		4514.0 ft		
TEMPERATURE:	117.0				
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 :	4488.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	106.0 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:	4503.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	4508.0 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. :	WHITE & ELLIS RIG #9	VISCOSITY :	47.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.000 cc
WEIGHT :	9.400 ppg	SERIAL NUMBER:	
CHLORIDES :	2900 ppm	REVERSED OUT?:	NO
JARS-MAKE :	NONE		
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW: WEAK BLOW, DIED IN 27 MINUTES.
STARTED WITH 1/4 INCH BLOW.
FINAL FLOW: NO BLOW, FLUSHED TOOL 10 MINUTES INTO

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

FINAL FLOW.

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: 2295.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	31.00	31.00
INITIAL SHUT-IN	30.00		52.00
FINAL FLOW	30.00	31.00	31.00
FINAL SHUT-IN	30.00		41.00

FINAL HYDROSTATIC PRESSURE: 2295.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2315.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	40.00	40.00
INITIAL SHUT-IN	27.00		46.00
FINAL FLOW	30.00	39.00	40.00
FINAL SHUT-IN	30.00		47.00

FINAL HYDROSTATIC PRESSURE: 2315.00

PRESSURE TRANSIENT REPORT

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WELL	: #1	TEST: 2	GEOLOGIST: MILFORD
ELEVATION	: 2736 K.B.	FORMATION	: JOHNSON/CONG-SAND
SECTION	: 18	TOWNSHIP	: 19S
RANGE	: 27W	COUNTY: LANE	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

INITIAL FLOW

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

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	40.00	40.00	0.00
6.00	40.00	0.00	0.00
9.00	41.00	1.00	0.00
12.00	43.00	2.00	0.00
15.00	44.00	1.00	0.00
18.00	45.00	1.00	0.00
21.00	45.00	0.00	0.00
24.00	45.00	0.00	0.00
27.00	46.00	1.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	39.00	39.00
5.00	39.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

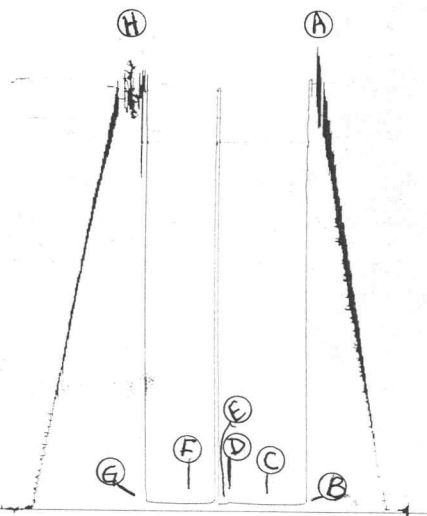
Time (min)	Pressure	Delta P
10.00	250.00	211.00
15.00	40.00	-210.00
20.00	40.00	0.00
25.00	40.00	0.00
30.00	40.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	40.00	40.00	0.00
6.00	40.00	0.00	0.00
9.00	40.00	0.00	0.00
12.00	40.00	0.00	0.00
15.00	40.00	0.00	0.00
18.00	40.00	0.00	0.00
21.00	40.00	0.00	0.00
24.00	43.00	3.00	0.00
27.00	44.00	1.00	0.00
30.00	47.00	3.00	0.00

Ticket # 20705
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OST# 2
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Ticket # 20705
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