

OPERATOR'S FILE COPY

32-95-42w

JN Cloyd-Jones 11-32

JN Expl. & Prod.

15-181-20295

COMPANY JN EXPLORATION & PROD. LP LEASE & WELL NO. #11-32 JN CLOYD JONES SEC. 32 TWP. 9S RGE. 42W DIST. NO. 12111

FORMATION

TEST

COPY

REPORT

API #15-181-20295



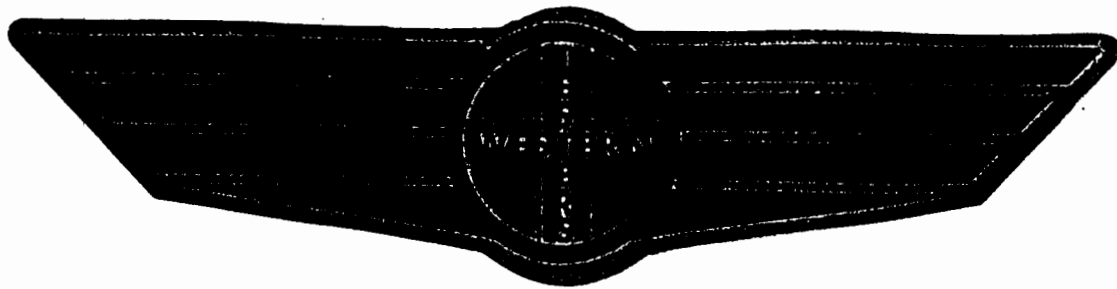
Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone : 1-800-688-7021

COMPANY OR INDUSTRY: _____
OR INDUSTRY: _____
PLEASE & WELL, NO. _____
JONES _____
TWO _____
JONES _____
JONES _____

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DST REPORT

GENERAL INFORMATION

DATE	: 2/24/94	TICKET	: 19033
CUSTOMER	: JN EXPLORATION & PROD LP	LEASE	: JN CLOYD-JONES
WELL	: #11-32	TEST: 2	GEOLOGIST: ?
ELEVATION	: 3970 GL	FORMATION	: MARMATON
SECTION	: 32	TOWNSHIP	: 9S
RANGE	: 42W	COUNTY: SHERMAN	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	4842.00 ft	TO:	4876.00 ft	TVD:	5500.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	4845.0 ft	4848.0 ft			
TEMPERATURE:	140.0				
DRILL COLLAR LENGTH:	536.0 ft	I.D.:	2.200 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	4274.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	32.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	34.0 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:	4837.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	4842.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	4876.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in		

MUD INFORMATION

DRILLING CON. :	MURFIN RIG 3	VISCOSITY :	54.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.200 cc
WEIGHT :	9.200 ppg		
CHLORIDES :	550 ppm	SERIAL NUMBER:	422
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW THROUGHOUT. FINAL FLOW PERIOD STRONG BLOW IN 3 MINUTES DECREASED TO 1/2 INCH BLOW AT END OF FLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
330.0	0.0	0.0	85.0	15.0	MUDDY WATER
2700.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 12000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.6943	STB		
WATER VOLUME:	36.8074	STB		
TOTAL FLUID :	37.5017	STB		
			TOTAL FLOW TIME:	150.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	360.0159 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2389.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	676.00	1132.00
INITIAL SHUT-IN	60.00		1381.00
FINAL FLOW	120.00	1226.00	1381.00
FINAL SHUT-IN	180.00		1381.00

FINAL HYDROSTATIC PRESSURE: 2358.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2452.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	693.00	1154.00
INITIAL SHUT-IN	63.00		1380.00
FINAL FLOW	120.00	1239.00	1380.00
FINAL SHUT-IN	180.00		1388.00

FINAL HYDROSTATIC PRESSURE: 2360.00

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PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 2/24/94	TICKET	: 19033
CUSTOMER	: JN EXPLORATION & PROD LP	LEASE	: JN CLOYD-JONES
WELL	: #11-32	TEST:	2
ELEVATION	: 3970 GL	GEOLOGIST	: ?
SECTION	: 32	FORMATION	: MARMATON
RANGE	: 42W	COUNTY	: SHERMAN
GAUGE SN#	: 10270	TOWNSHIP	: 9S
		STATE	: KS
		RANGE	: 4150
		CLOCK	: 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	693.00	693.00
5.00	777.00	84.00
10.00	876.00	99.00
15.00	955.00	79.00
20.00	1033.00	78.00
25.00	1100.00	67.00
30.00	1154.00	54.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1310.00	1310.00	0.00
6.00	1326.00	16.00	0.00
9.00	1340.00	14.00	0.00
12.00	1348.00	8.00	0.00
15.00	1354.00	6.00	0.00
18.00	1358.00	4.00	0.00
21.00	1363.00	5.00	0.00
24.00	1365.00	2.00	0.00
27.00	1368.00	3.00	0.00
30.00	1370.00	2.00	0.00
33.00	1372.00	2.00	0.00
36.00	1374.00	2.00	0.00
39.00	1376.00	2.00	0.00
42.00	1377.00	1.00	0.00
45.00	1378.00	1.00	0.00
48.00	1379.00	1.00	0.00
51.00	1379.00	0.00	0.00
54.00	1380.00	1.00	0.00
57.00	1380.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	1380.00	0.00	0.00
63.00	1380.00	0.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	1239.00	1239.00
5.00	1244.00	5.00
10.00	1270.00	26.00
15.00	1301.00	31.00
20.00	1323.00	22.00
25.00	1340.00	17.00
30.00	1351.00	11.00
35.00	1358.00	7.00
40.00	1363.00	5.00
45.00	1365.00	2.00
50.00	1368.00	3.00
55.00	1370.00	2.00
60.00	1371.00	1.00
65.00	1372.00	1.00
70.00	1373.00	1.00
75.00	1374.00	1.00
80.00	1375.00	1.00
85.00	1376.00	1.00
90.00	1376.00	0.00
95.00	1377.00	1.00
100.00	1377.00	0.00
105.00	1378.00	1.00
110.00	1378.00	0.00
115.00	1379.00	1.00
120.00	1380.00	1.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1380.00	1380.00	0.00
6.00	1380.00	0.00	0.00
9.00	1380.00	0.00	0.00

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PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
12.00	1380.00	0.00	0.00
15.00	1381.00	1.00	0.00
18.00	1381.00	0.00	0.00
21.00	1381.00	0.00	0.00
24.00	1381.00	0.00	0.00
27.00	1381.00	0.00	0.00
30.00	1382.00	1.00	0.00
33.00	1382.00	0.00	0.00
36.00	1382.00	0.00	0.00
39.00	1382.00	0.00	0.00
42.00	1382.00	0.00	0.00
45.00	1382.00	0.00	0.00
48.00	1383.00	1.00	0.00
51.00	1383.00	0.00	0.00
54.00	1383.00	0.00	0.00
57.00	1383.00	0.00	0.00
60.00	1384.00	1.00	0.00
63.00	1384.00	0.00	0.00
66.00	1384.00	0.00	0.00
69.00	1384.00	0.00	0.00
72.00	1384.00	0.00	0.00
75.00	1384.00	0.00	0.00
78.00	1384.00	0.00	0.00
81.00	1384.00	0.00	0.00
84.00	1384.00	0.00	0.00
87.00	1385.00	1.00	0.00
90.00	1385.00	0.00	0.00
93.00	1385.00	0.00	0.00
96.00	1385.00	0.00	0.00
99.00	1385.00	0.00	0.00
102.00	1385.00	0.00	0.00
105.00	1385.00	0.00	0.00
108.00	1385.00	0.00	0.00
111.00	1385.00	0.00	0.00
114.00	1385.00	0.00	0.00
117.00	1385.00	0.00	0.00
120.00	1385.00	0.00	0.00
123.00	1385.00	0.00	0.00
126.00	1385.00	0.00	0.00
129.00	1386.00	1.00	0.00
132.00	1386.00	0.00	0.00
135.00	1387.00	1.00	0.00
138.00	1387.00	0.00	0.00
141.00	1387.00	0.00	0.00
144.00	1387.00	0.00	0.00
147.00	1387.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
150.00	1388.00	1.00	0.00
153.00	1388.00	0.00	0.00
156.00	1388.00	0.00	0.00
159.00	1388.00	0.00	0.00
162.00	1388.00	0.00	0.00
165.00	1388.00	0.00	0.00
168.00	1388.00	0.00	0.00
171.00	1388.00	0.00	0.00
174.00	1388.00	0.00	0.00
177.00	1388.00	0.00	0.00
180.00	1388.00	0.00	0.00

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FLUID SAMPLE REPORT

GENERAL INFORMATION

DATE	: 2/24/94	TICKET	: 19033
CUSTOMER	: JN EXPLORATION & PROD LP	LEASE	: JN CLOYD-JONES
WELL	: #11-32	TEST: 2	GEOLOGIST: ?
ELEVATION	: 3970 GL	FORMATION	: MARMATON
SECTION	: 32	TOWNSHIP	: 9S
RANGE	: 42W	COUNTY: SHERMAN	STATE : KS
GAUGE SN#	: 10270	RANGE : 4150	CLOCK : 12

SAMPLE INFORMATION

PRESSURE IN SAMPLER:	1200.00 PSIG	BHT:	140.0 DEG F
TOTAL VOLUME OF SAMPLER:	3150.00 cc		
TOTAL VOLUME OF SAMPLE:	3000.00 cc		
OIL:	0.00 cc		
WATER:	3000.00 cc		
MUD:	0.00 cc		
GAS:	0.00 cc		
OTHER:	0.00 cc		

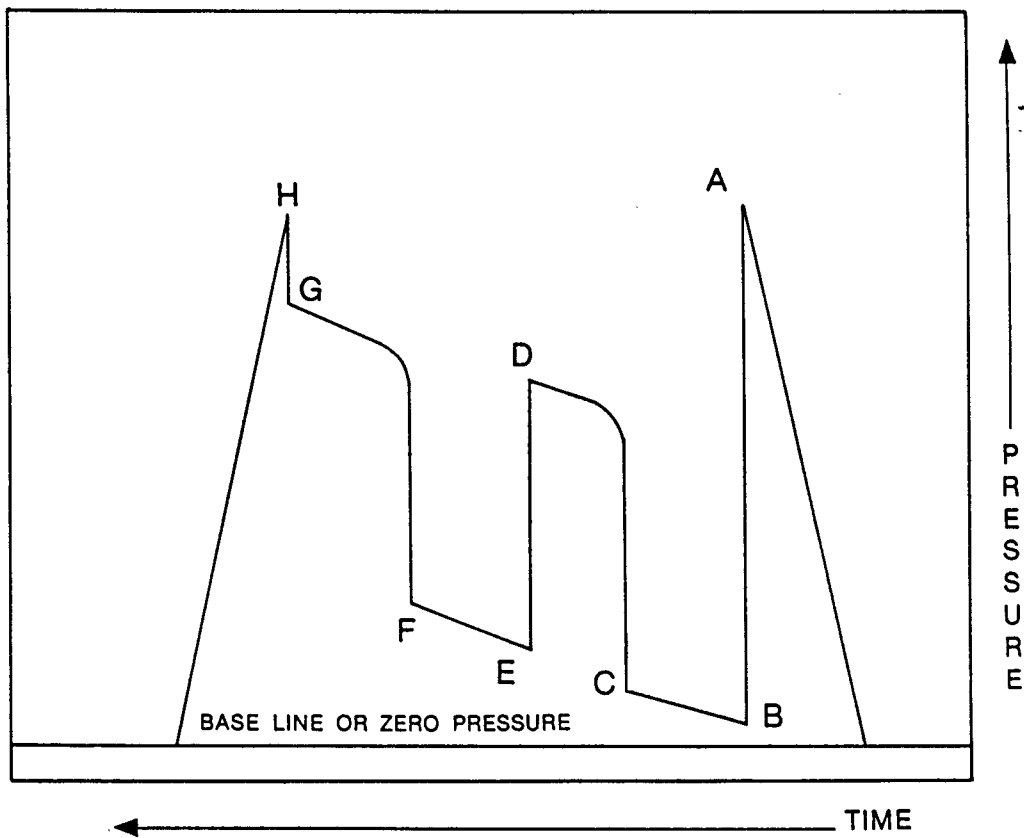
RESISTIVITY

DRILLING MUD:	.30 @ 75 DEGREES F	CHLORIDE CONTENT:	12000.00 ppm
MUD PIT SAMPLE:	6.0 @ 65 DEGREES F	CHLORIDE CONTENT:	550.00 ppm
GAS/OIL RATIO:		GRAVITY:	
WHERE WAS SAMPLE DRAINED:	RIG		
REMARKS:			

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

AK-1 Recorders



A - Initial Hydrostatic

B - First Initial Flow

C - First Final Flow

D - Initial Shut-In

E - Second Initial Flow

F - Second Final Flow

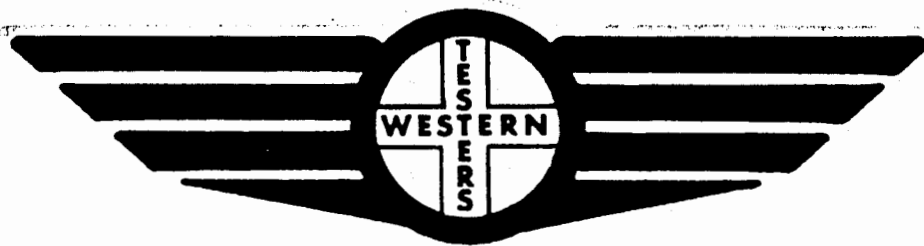
G - Final Shut-In

H - Final Hydrostatic

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FORMATION TEST REPORT

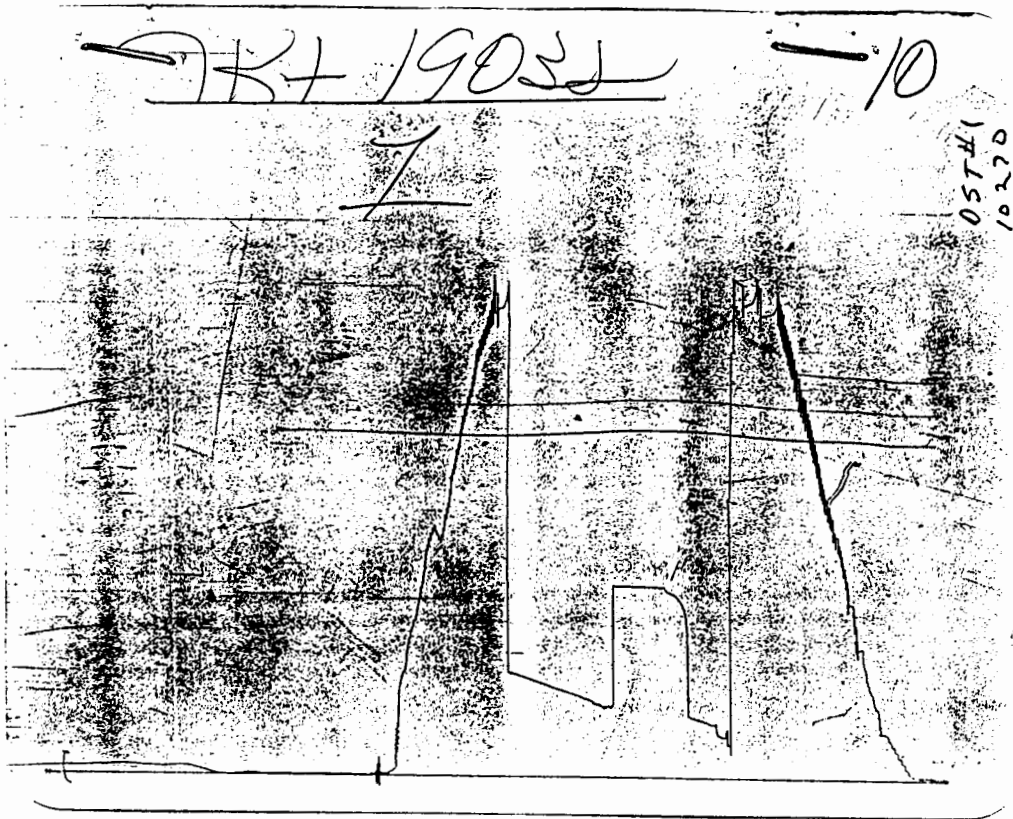
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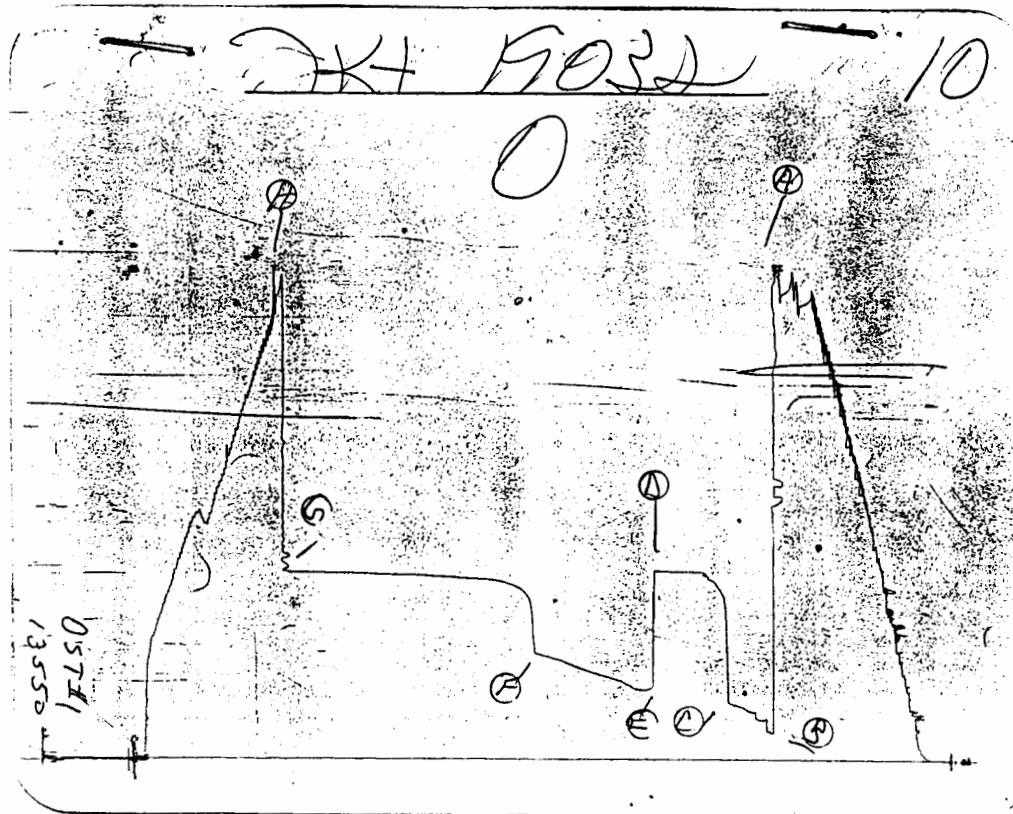
Wichita, Kansas 67201

Phone (316) 262-5861

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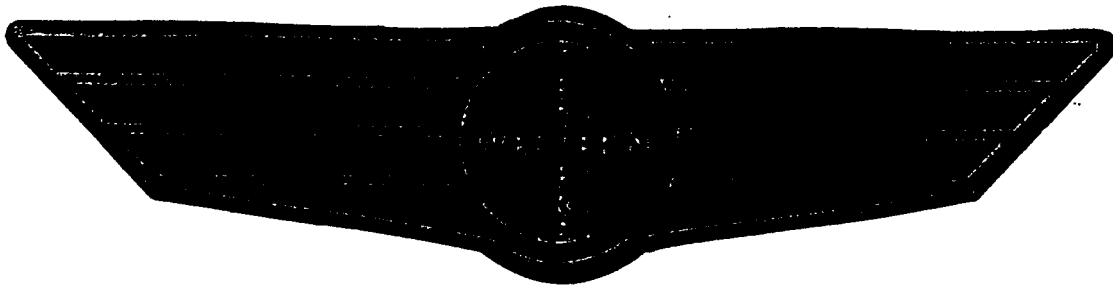


Inside Recorder



Outside Recorder

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY JN EXPLORATION & PROD. LP LEASE & WELL NO. #11-32 JN CLOYD- SEC. 32 TWP. 9S RGE. 42W JESP NO. 1 DATE 2/22/94
JONES

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DST REPORT

GENERAL INFORMATION

DATE	: 2/22/94	TICKET	: 19032
CUSTOMER	: JN EXPLORATION & PROD LP	LEASE	: JN CLOYD-JONES
WELL	: #11-32	TEST: 1	GEOLOGIST: ?
ELEVATION	: 3970 GL	FORMATION	: MORROW
SECTION	: 32	TOWNSHIP	: 9S
RANGE	: 42W	COUNTY: SHERMAN	STATE : KS
GAUGE SN#	: 13550	RANGE : 4175	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	5234.00 ft	TO:	5373.00 ft	TVD:	5373.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	OIL
DEPTH OF RECORDERS:	5237.0 ft	5240.0 ft			
TEMPERATURE:	146.0				
DRILL COLLAR LENGTH:	536.0 ft	I.D.:	2.200 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	4666.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	32.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	139.0 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:	5229.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	5234.0 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 3	VISCOSITY :	49.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	8.200 cc
WEIGHT :	9.000 ppg		
CHLORIDES :	350 ppm	SERIAL NUMBER:	422
JARS-MAKE :	WTC	REVERSED OUT?:	NO
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A GOOD BLOW -
1 TO 9 INCH BLOW. FINAL FLOW PERIOD WEAK BUILDING
TO A STRONG BLOW IN 70 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
330.0	0.0	0.0	80.0	20.0	MUDDY WATER
900.0	0.0	0.0	100.0	0.0	WATER

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.9257	STB		
WATER VOLUME:	11.3285	STB		
TOTAL FLUID :	12.2542	STB		
			TOTAL FLOW TIME:	125.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	141.1686 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2493.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	127.00	286.00
INITIAL SHUT-IN	60.00		997.00
FINAL FLOW	90.00	360.00	560.00
FINAL SHUT-IN	180.00		987.00

FINAL HYDROSTATIC PRESSURE: 2493.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2642.00

Description	Duration	p1	p End
INITIAL FLOW	35.00	153.00	317.00
INITIAL SHUT-IN	60.00		1020.00
FINAL FLOW	90.00	383.00	578.00
FINAL SHUT-IN	186.00		1006.00

FINAL HYDROSTATIC PRESSURE: 2611.00

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PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/22/94	TICKET : 19032
CUSTOMER : JN EXPLORATION & PROD LP	LEASE : JN CLOYD-JONES
WELL : #11-32 TEST: 1	GEOLOGIST: ?
ELEVATION: 3970 GL	FORMATION: MORROW
SECTION : 32	TOWNSHIP : 9S
RANGE : 42W	COUNTY: SHERMAN
GAUGE SN#: 13550	STATE : KS
	CLOCK : 12
	RANGE : 4175

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	153.00	153.00
5.00	225.00	72.00
10.00	220.00	-5.00
15.00	263.00	43.00
20.00	278.00	15.00
25.00	294.00	16.00
30.00	305.00	11.00
35.00	317.00	12.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	648.00	648.00	0.00
6.00	853.00	205.00	0.00
9.00	910.00	57.00	0.00
12.00	938.00	28.00	0.00
15.00	963.00	25.00	0.00
18.00	975.00	12.00	0.00
21.00	992.00	17.00	0.00
24.00	1010.00	18.00	0.00
27.00	1013.00	3.00	0.00
30.00	1015.00	2.00	0.00
33.00	1015.00	0.00	0.00
36.00	1015.00	0.00	0.00
39.00	1016.00	1.00	0.00
42.00	1016.00	0.00	0.00
45.00	1016.00	0.00	0.00
48.00	1017.00	1.00	0.00
51.00	1017.00	0.00	0.00
54.00	1018.00	1.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
57.00	1019.00	1.00	0.00
60.00	1020.00	1.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	383.00	383.00
5.00	383.00	0.00
10.00	386.00	3.00
15.00	397.00	11.00
20.00	416.00	19.00
25.00	432.00	16.00
30.00	443.00	11.00
35.00	456.00	13.00
40.00	466.00	10.00
45.00	478.00	12.00
50.00	491.00	13.00
55.00	505.00	14.00
60.00	518.00	13.00
65.00	530.00	12.00
70.00	544.00	14.00
75.00	553.00	9.00
80.00	565.00	12.00
85.00	573.00	8.00
90.00	578.00	5.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	787.00	787.00	0.00
6.00	869.00	82.00	0.00
9.00	902.00	33.00	0.00
12.00	919.00	17.00	0.00
15.00	933.00	14.00	0.00
18.00	944.00	11.00	0.00
21.00	949.00	5.00	0.00
24.00	956.00	7.00	0.00
27.00	960.00	4.00	0.00

COPY

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
30.00	965.00	5.00	0.00
33.00	970.00	5.00	0.00
36.00	972.00	2.00	0.00
39.00	973.00	1.00	0.00
42.00	974.00	1.00	0.00
45.00	975.00	1.00	0.00
48.00	976.00	1.00	0.00
51.00	977.00	1.00	0.00
54.00	978.00	1.00	0.00
57.00	979.00	1.00	0.00
60.00	980.00	1.00	0.00
63.00	981.00	1.00	0.00
66.00	982.00	1.00	0.00
69.00	984.00	2.00	0.00
72.00	986.00	2.00	0.00
75.00	988.00	2.00	0.00
78.00	989.00	1.00	0.00
81.00	990.00	1.00	0.00
84.00	991.00	1.00	0.00
87.00	992.00	1.00	0.00
90.00	993.00	1.00	0.00
93.00	993.00	0.00	0.00
96.00	994.00	1.00	0.00
99.00	994.00	0.00	0.00
102.00	995.00	1.00	0.00
105.00	995.00	0.00	0.00
108.00	996.00	1.00	0.00
111.00	996.00	0.00	0.00
114.00	997.00	1.00	0.00
117.00	997.00	0.00	0.00
120.00	998.00	1.00	0.00
123.00	998.00	0.00	0.00
126.00	999.00	1.00	0.00
129.00	999.00	0.00	0.00
132.00	1000.00	1.00	0.00
135.00	1000.00	0.00	0.00
138.00	1001.00	1.00	0.00
141.00	1002.00	1.00	0.00
144.00	1003.00	1.00	0.00
147.00	1003.00	0.00	0.00
150.00	1003.00	0.00	0.00
153.00	1003.00	0.00	0.00
156.00	1004.00	1.00	0.00
159.00	1004.00	0.00	0.00
162.00	1004.00	0.00	0.00
165.00	1004.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
168.00	1005.00	1.00	0.00
171.00	1005.00	0.00	0.00
174.00	1005.00	0.00	0.00
177.00	1006.00	1.00	0.00
180.00	1006.00	0.00	0.00
183.00	1006.00	0.00	0.00
186.00	1006.00	0.00	0.00

COPY

FLUID SAMPLE REPORT

GENERAL INFORMATION

DATE	: 2/22/94	TICKET	: 19032
CUSTOMER	: JN EXPLORATION & PROD LP	LEASE	: JN CLOYD-JONES
WELL	: #11-32	TEST:	1
ELEVATION:	3970 GL	GEOLOGIST:	?
SECTION	: 32	FORMATION:	MORROW
RANGE	: 42W	TOWNSHIP	: 9S
Gauge SN#:	13550	STATE	: KS
		CLOCK	: 12
	COUNTY: SHERMAN		
	RANGE : 4175		

SAMPLE INFORMATION

PRESSURE IN SAMPLER:	500.00 PSIG	BHT:	146.0 DEG F
TOTAL VOLUME OF SAMPLER:	3150.00 cc		
TOTAL VOLUME OF SAMPLE:	3100.00 cc		
OIL:	0.00 cc		
WATER:	2900.00 cc		
MUD:	200.00 cc		
GAS:	0.28 cc		
OTHER:	0.00 cc		

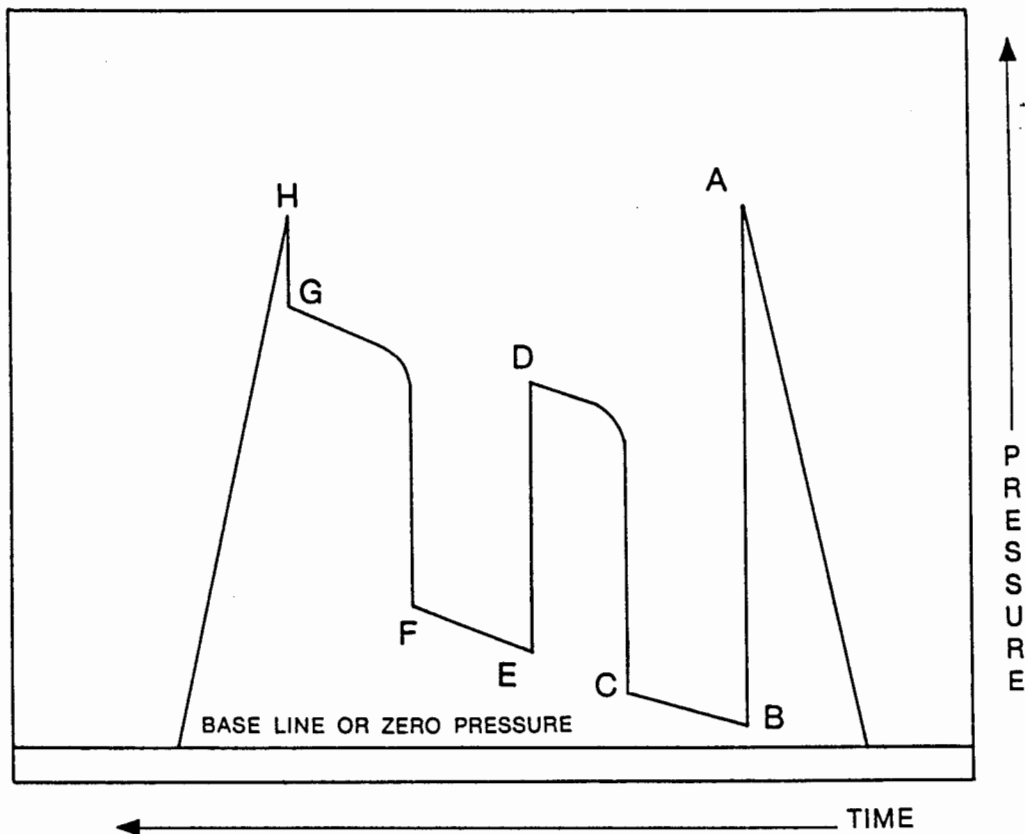
RESISTIVITY

DRILLING MUD:	.14 @ 80 DEGREES F	CHLORIDE CONTENT:	26000.00 ppm
MUD PIT SAMPLE:	9.0 @ 50 DEGREES F	CHLORIDE CONTENT:	350.00 ppm
GAS/OIL RATIO:		GRAVITY:	
WHERE WAS SAMPLE DRAINED:	RIG		
REMARKS:			

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

AK-1 Recorders



A - Initial Hydrostatic

B - First Initial Flow

C - First Final Flow

D - Initial Shut-In

E - Second Initial Flow

F - Second Final Flow

G - Final Shut-In

H - Final Hydrostatic