

WELL NAME:

Richardson 1-A

COMPANY:

~~Lavita Oil & Gas~~

Charles Griffin

LOCATION:

36-22S-12W

Stafford County, Kansas

DATE:

3/24/98

TRILOBITE TESTING L.L.C.

OPERATOR : Lavita Oil & Gas

DATE 3/21/98

WELL NAME: Richardson 1-A

KB 1822.00 ft

TICKET NO: 11308

DST #1

LOCATION : 36-22S-12W Stafford Co.KS

GR 1814.00 ft

FORMATION: Lansing "F"

INTERVAL : 3298.00 To 3324.00 ft

TD 3324.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	11018	11018	13547			PF Fr. 2330 to 2400 hr
SI 45 Range(Psi)	4425.0	4425.0	4200.0	0.0	0.0	IS Fr. 0045 to 0045 hr
SF 60 Clock(hrs)	12 hr	12 hr	12 hr			SF Fr. 0045 to 0145 hr
FS 90 Depth(ft)	3321.0	3321.0	3301.0	0.0	0.0	FS Fr. 0145 to 0315 hr

	Field	1	2	3	4	
A. Init Hydro	1592.0	1569.0	0.0	0.0	0.0	T STARTED 2200 hr
First Flow	206.0	178.0	0.0	0.0	0.0	T ON BOTM 2325 hr
B1. Final Flow	556.0	526.0	0.0	0.0	0.0	T OPEN 2330 hr
C. In Shut-in	964.0	904.0	0.0	0.0	0.0	T PULLED 0315 hr
D. Init Flow	690.0	627.0	0.0	0.0	0.0	T OUT 0600 hr
E. Final Flow	888.0	829.0	0.0	0.0	0.0	
F. Fl Shut-in	971.0	903.0	0.0	0.0	0.0	
J. Final Hydro	1570.0	1561.0	0.0	0.0	0.0	
Inside/Outside	I	I	O			

RECOVERY

Tot Fluid 2100.00 ft of 0.00 ft in DC and 2100.00 ft in DP

1000.00 ft of Gas in pipe

150.00 ft of Oil cut gassy muddy water

0.00 ft of 10%gas 10%oil 50%water 30mud

1950.00 ft of Gassy water (strong sulfur odor)

0.00 ft of 15%gas 85%water

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 45000.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA-----

Tool Wt. 3000.00 lbs

Wt Set On Packer 20000.00 lbs

Wt Pulled Loose 70000.00 lbs

Initial Str Wt 40000.00 lbs

Unseated Str Wt 50000.00 lbs

Bot Choke 0.75 in

Hole Size 7.88 in

D Col. ID 2.25 in

D. Pipe ID 3.80 in

D.C. Length 0.00 ft

D.P. Length 3280.00 ft

BLOW DESCRIPTION

Initial Flow:

Strong blow - bottom of bucket in 1 minutes

Weak blow back

Final Flow:

Fair blow to 6" decreased to 1" blow

Weak blow back

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type Chemical

Weight 8.80 lb/

Vis. 44.00 S/L

W.L. 12.00 in3

F.C. 0.00 in

Mud Drop

Amt. of fill 0.00 ft

Btm. H. Temp. 0.00 F

Hole Condition

% Porosity 0.00

Packer Size 6.75 in

No. of Packers 2

Cushion Amt. 0.00

Cushion Type

Reversed Out

Tool Chased

Tester John Riedl

Co. Rep. Jeff Burk

Contr. Duke

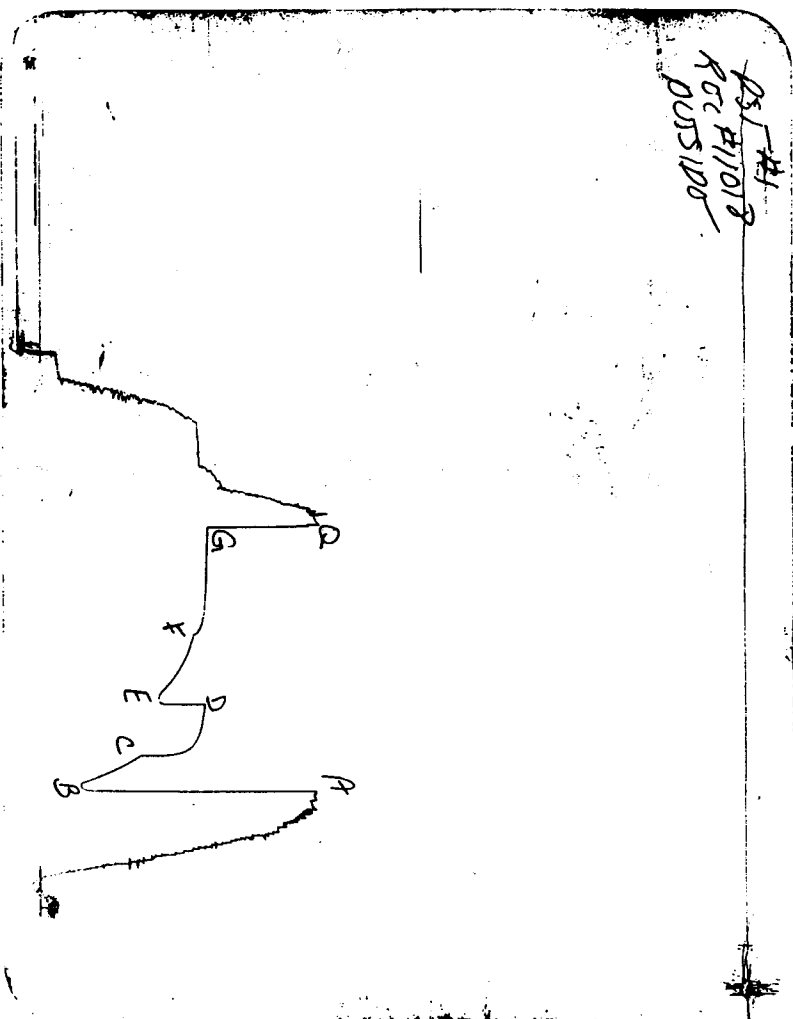
Rig # 1

Unit #

Pump T.

Test Successful: Y

CHART PAGE



This is a photocopy of the actual AK-1 recorder chart

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11308

Well Name & No.	<u>RICHARDSON 1-A</u>		Test No.	<u>1</u>	Date	<u>3-21-98</u>	
Company	<u>LANITA OIL & GAS</u>		Zone Tested	<u>LANING 'F'</u>			
Address	<u>RR 3 BOX 56 STAFFORD KS 67578</u>		Elevation	<u>1822</u>	KB	<u>1814</u>	GL
Co. Rep / Geo.	<u>JEFF BURK</u>	Cont.	<u>DUKE RIG 1</u>	Est. Ft. of Pay	Por. %		
Location: Sec.	<u>36</u>	Twp.	<u>22S</u>	Rge.	<u>12W</u>	Co.	<u>STAFFORD</u> State <u>KS</u>
No. of Copies	<u>806</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>Y</u>	Evaluation (Y, N)	<u>N</u>

Interval Tested	<u>3298-3324</u>	Initial Str Wt/Lbs.	<u>44,000</u>	Unseated Str Wt/Lbs.	<u>50,000</u>
Anchor Length	<u>26 FT</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>20,000</u>
Top Packer Depth	<u>3293</u>	Tool Weight	<u>2,000</u>		
Bottom Packer Depth	<u>3298</u>	Hole Size — 7 7/8"	<u>YES</u>	Rubber Size — 6 3/4"	<u>YES</u>
Total Depth	<u>3324</u>	Wt. Pipe Run	<u>0</u>	Drill Collar Run	<u>0</u>
Mud Wt. <u>8.8</u> LCM <u>—</u> Vis. <u>44</u> WL <u>12</u>	Drill Pipe Size		<u>4 1/2 X H</u>	Ft. Run	<u>3280</u>
Blow Description <u>1ST FLOW: STRONG BLOW (R. OR IN 1 MINUTE) WEAK BLOW</u> <u>2ND FLOW: FAIR BLOW 6" DEC TO 1" BLOW BY END</u> <u>(WEAK BLOW)</u>					

Recovery — Total Feet	<u>2100</u>	GIP	<u>1000</u>	Ft. in DC	<u>NA</u>	Ft. in DP	<u>2100</u>
Rec.	<u>150</u>	Feet Of	<u>OIL CUT GASSY MUD</u>	<u>10% gas</u>	<u>10% oil</u>	<u>50% water</u>	<u>30% mud</u>
Rec.	<u>1950</u>	Feet Of	<u>GASSY WATER</u>	<u>15% gas</u>	<u>% oil</u>	<u>85% water</u>	<u>% mud</u>
Rec.		Feet Of	<u>(STRONG SULFUR ODOUR)</u>	<u>% gas</u>	<u>% oil</u>	<u>% water</u>	<u>% mud</u>
Rec.		Feet Of		<u>% gas</u>	<u>% oil</u>	<u>% water</u>	<u>% mud</u>
Rec.		Feet Of		<u>% gas</u>	<u>% oil</u>	<u>% water</u>	<u>% mud</u>
BHT		*F Gravity	<u>—</u>	*API D@	<u>—</u>	*F Corrected Gravity	<u>—</u>
RW	<u>10</u>	@	<u>70</u>	*F Chlorides	<u>45000</u>	ppm Recovery	<u>7000</u>
(A) Initial Hydrostatic Mud	<u>1592</u>	PSI	Recorder No.	<u>13547</u>	T-Started	<u>2200</u>	
(B) First Initial Flow Pressure	<u>206</u>	PSI	(depth)	<u>3301</u>	T-Open	<u>2330</u>	
(C) First Final Flow Pressure	<u>556</u>	PSI	Recorder No.	<u>11012</u>	T-Pulled	<u>0315</u>	
(D) Initial Shut-in Pressure	<u>964</u>	PSI	(depth)	<u>3321</u>	T-Out	<u>0600</u>	
(E) Second Initial Flow Pressure	<u>690</u>	PSI	Recorder No.	<u>—</u>			
(F) Second Final Flow Pressure	<u>888</u>	PSI	(depth)	<u>—</u>			
(G) Final Shut-in Pressure	<u>971</u>	PSI	Initial Opening	<u>30</u>	Test	<u>✓</u>	
(H) Final Hydrostatic Mud	<u>1570</u>	PSI	Initial Shut-in	<u>45</u>	Jars	<u>✓</u>	
			Final Flow	<u>60</u>	Safety Joint	<u>✓</u>	
			Final Shut-in	<u>90</u>	Straddle	<u>—</u>	
					Circ. Sub	<u>✓</u>	
					Sampler	<u>—</u>	
					Extra Packer	<u>—</u>	
					Elect. Rec.	<u>—</u>	
					Other	<u>—</u>	
					TOTAL PRICE \$	<u>—</u>	

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF 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, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Approved By [Signature]
Our Representative [Signature]

Well Name: Richardson 1A
Company: LaVeta Operating
Location: 36-22s-12w
Stafford County Kansas
Date: 11-10-98

FieldNotes

Gas Meter 1

Meter Type:

Meter Size:

Previous Gas Production:

Tap Type:

Tap Location:

Orifice Meter

2.000 in

0.000 MMCF

Flange

Downstream

Gas Gravity (G):

CO₂:

H₂S:

N₂:

Critical Temperature (T_C):

Critical Pressure (P_C):

0.724

0.08 %

0.00 %

27.91 %

328.29 R

622.10 psi

LaVeta Operating
SE SE SE Sec 36 22s 12w
Start Test Date: 1998/11/02
Final Test Date: 1998/11/03

FieldNotes

Field Measurements

Richardson
Formation: Severy
Pool: Richardson

	Date	Clock Time	Cum Time	Comments	Tubing		Tubing		Static1		Diff1		Meter1		Orifice1		Gas1 Rate
					Pres	Temp	Pres	Temp	Pres	Temp	in of H2O	°F	°F	in	in	MMCF/D	
	yyyy/mm/dd	hh:mm:ss	hr		psi(g)	°F	psi(g)										
1	1998/11/02	08:15:00	0.0000		484.00									0.000		0.000	
2		08:30:00	0.2500		440.00		65.00		3.00	55.00	3.00		55.00	0.500		0.022	
3		08:45:00	0.5000		410.00		70.00		4.00	50.00	4.00		50.00			0.027	
4		09:00:00	0.7500		386.00		71.00		3.00	48.00	3.00		48.00			0.023	
5		09:15:00	1.0000	1st point	364.00		72.00		2.00	50.00	2.00		50.00			0.019	
6		09:30:00	1.2500		346.00		74.00		3.00	51.00	3.00		51.00			0.024	
7		09:45:00	1.5000		330.00		78.00		3.00	52.00	3.00		52.00			0.024	
8		10:00:00	1.7500		310.00		82.00		3.00	52.00	3.00		52.00			0.025	
9		10:15:00	2.0000	2nd point	281.00		85.00		5.00	52.00	5.00		52.00			0.033	
10		10:30:00	2.2500		239.00		86.00		5.00	53.00	5.00		53.00			0.033	
11		10:45:00	2.5000		211.00		89.00		5.00	53.00	5.00		53.00			0.033	
12		11:00:00	2.7500	3rd point	160.00		65.00		5.00	53.00	5.00		53.00			0.029	
13		11:15:00	3.0000		147.00		90.00		4.00	53.00	4.00		53.00			0.030	
14		11:30:00	3.2500		130.00		90.00		10.00	53.00	10.00		53.00			0.047	
15		11:45:00	3.5000		115.00		90.00		10.00	53.00	10.00		53.00			0.047	
16		12:00:00	3.7500		102.00		90.00		9.00	53.00	9.00		53.00			0.045	
17		12:15:00	4.0000		84.00		70.00		9.00	53.00	9.00		53.00			0.040	
18		12:30:00	4.2500		65.00		60.00		9.00	53.00	9.00		53.00			0.038	
19		12:45:00	4.5000	4th point	55.00		58.00		5.00	53.00	5.00		53.00			0.028	

LaVeta Operating
SE SE SE Sec 36 22s 12w
Start Test Date: 1998/11/02
Final Test Date: 1998/11/03

FieldNotes

Field Measurements

Richardson
Formation: Severy
Pool: Richardson

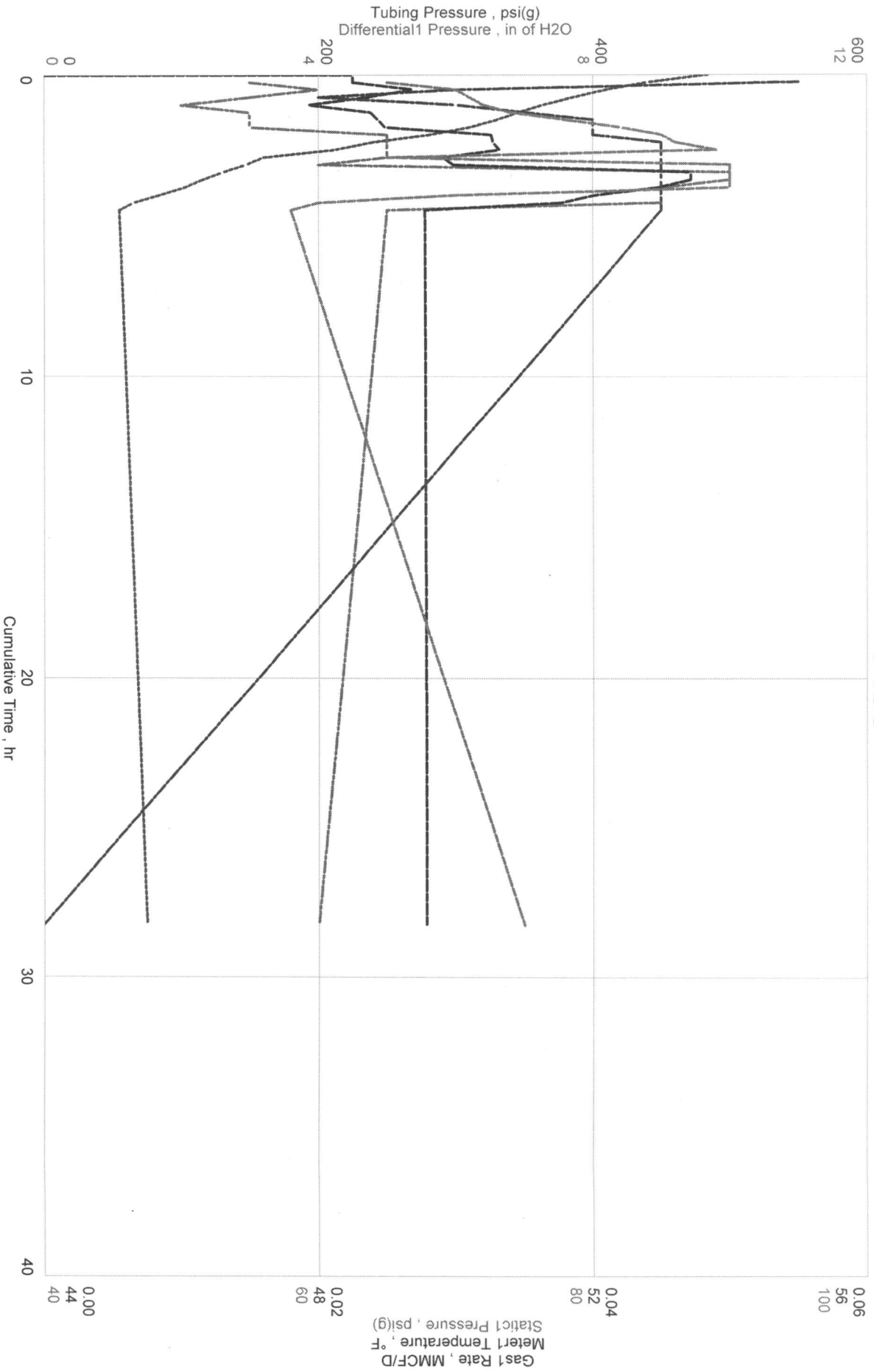
Date	Clock Time	Cum Time	Comments	Tubing		Tubing		Static1		Diff1		Meter1		Orifice1	Gas1 Rate
				Pres	psi(g)	Temp	°F	Pres	psi(g)	Pres	in of H2O	Temp	°F	in	
1998/11/03	12:30:00	28.2500			75.00			75.00		4.00		44.00			0.028

1998/11/03 08:15:00 To 1998/11/03 12:30:00
Gas 0.033 Cum. 0.033 MMCF

LaVeta Operating
SE SE SE Sec 36 22s 12w
Start Test Date: 1998/11/02
Final Test Date: 1998/11/03

Richardson
Formation: Severy
Pool: Richardson

Plot



457
435

Jeffrey A. B.

Job Number:
Customer:
Wellname: *Richards Sen A-1*
Well Location:
Formation:

0281