

15-033-21143

11-33s-19w

TRILOBITE TESTING L.L.C.

OPERATOR : Lario Oil & Gas Co.

DATE 10-22-000

WELL NAME: Deewall #1

KB 2046.00 ft

TICKET NO: 13208

DST #1

LOCATION : 11-33s-19w Comanche co KS

GR 2037.00 ft

FORMATION: Altamont

INTERVAL : 5082.00 To 5105.00 ft

TD 5105.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 2110 to 2140 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 2140 to 2240 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 2240 to 2340 hr
FS 90 Depth(ft)	5102.0	5102.0	5088.0	0.0	0.0	FS Fr. 2340 to 0110 hr

	Field	1	2	3	4	
A. Init Hydro	2448.0	0.0	2531.0	0.0	0.0	T STARTED 1857 hr
B. First Flow	25.0	0.0	20.0	0.0	0.0	T ON BOTM 2105 hr
B1. Final Flow	21.0	0.0	22.0	0.0	0.0	T OPEN 2110 hr
C. In Shut-in	1778.0	0.0	1831.0	0.0	0.0	T PULLED 0114 hr
D. Init Flow	25.0	0.0	21.0	0.0	0.0	T OUT 0420 hr
E. Final Flow	28.0	0.0	26.0	0.0	0.0	
F. Fl Shut-in	1747.0	0.0	1800.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2428.0	0.0	2485.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 65000.00 lbs
						Initial Str Wt 56000.00 lbs
						Unseated Str Wt 56000.00 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 5075.00 ft

RECOVERY

Tot Fluid 35.00 ft of 0.00 ft in DC and 35.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 35.00 ft of Drilling mud
 0.00 ft of 100% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----6
 SALINITY 7000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Bottom of bucket in
 1 1/2 minutes.

Initial Shut-In:
 No blow.

Final Flow:
 Strong blow. Gas to surface in 22
 minutes. (see gas volume report)

Final Shut-In:
 No blow.

SAMPLES: Gas sample
 SENT TO: Caraway/Liberal

MUD DATA-----

Mud Type	Chemical
Weight	9.20 lb/c
Vis.	49.00 S/L
W.L.	8.80 in3
F.C.	0.20 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	119.00 F
Hole Condition	Good
% Porosity	12.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Tim Lauer
Contr.	Duke Drlg.
Rig #	4
Unit #	
Pump T.	LCM 2 #/bl

Test Successful: Y

GAS RECOVERY

COMPANY: Lario Oil & Gas Co.

DATE: 10-22-000

WELL NAME: Deewall #1

KB Elev: 2046.00 ft TICKET #13208 DST #1

WELL LOCATION: 11-33s-19w Comanche co KS

GR Elev: 2037.00 ft FORMATION: Altamont

INTERVAL Fr.: 5082.00 To 5105.00 T.D.: 5105.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
25	0.25	0	20	7510.0
35	0.25	0	28	8890.0
45	0.25	0	40	10600.0
55	0.25	0	48	11600.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Deewall #1

LOCATION : 11-33s-19w Comanche co KS

TICKET No. 13208 D.S.T. No. 1 DATE 10-22-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 23

TOTAL TOOL 50

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 50

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands81 Single 1 Total 5075

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5125

TOTAL DEPTH 5105

TOTAL DRILL PIPE ABOVE K.B. 20

REMARKS:

Comments:

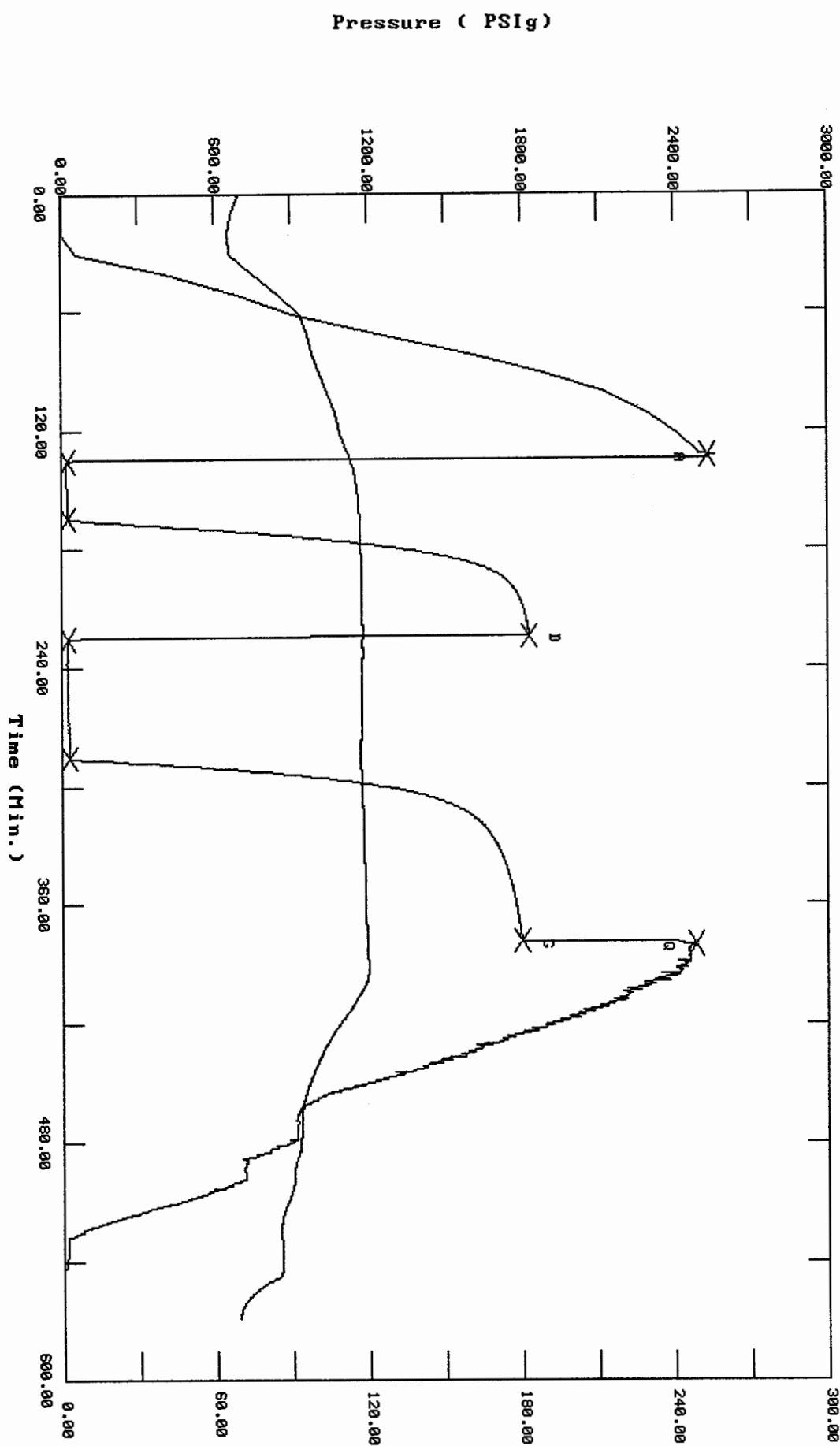
FLUID SAMPLER DATA (not run)

GAS-----
OIL----- ML.
MUD----- ML.
WATER----- ML.
OTHER-----
PRESSURE----- PSI
Rw ----- ohms @ deg. F.
CHLORIDES----- ppm.
GRAVITY----- n/a deg.API

P.O. SUB	
C.O. SUB @ top of tool	5055
S.I. TOOL Sterling	5061
HMV Sterling	5066
JARS bowen	5071
SAFETY JOINT bowen	5073
PACKER top	5077
PACKER Btm.	5082
DEPTH 1 ft.	5083
ANCHOR	
perfs	
Alpine rec. @ 5088	
17'perfs to	5100
AK-1 rec. @	5102
BULLNOSE 5 ft. perforated	5105
T.D.	

TEST HISTORY

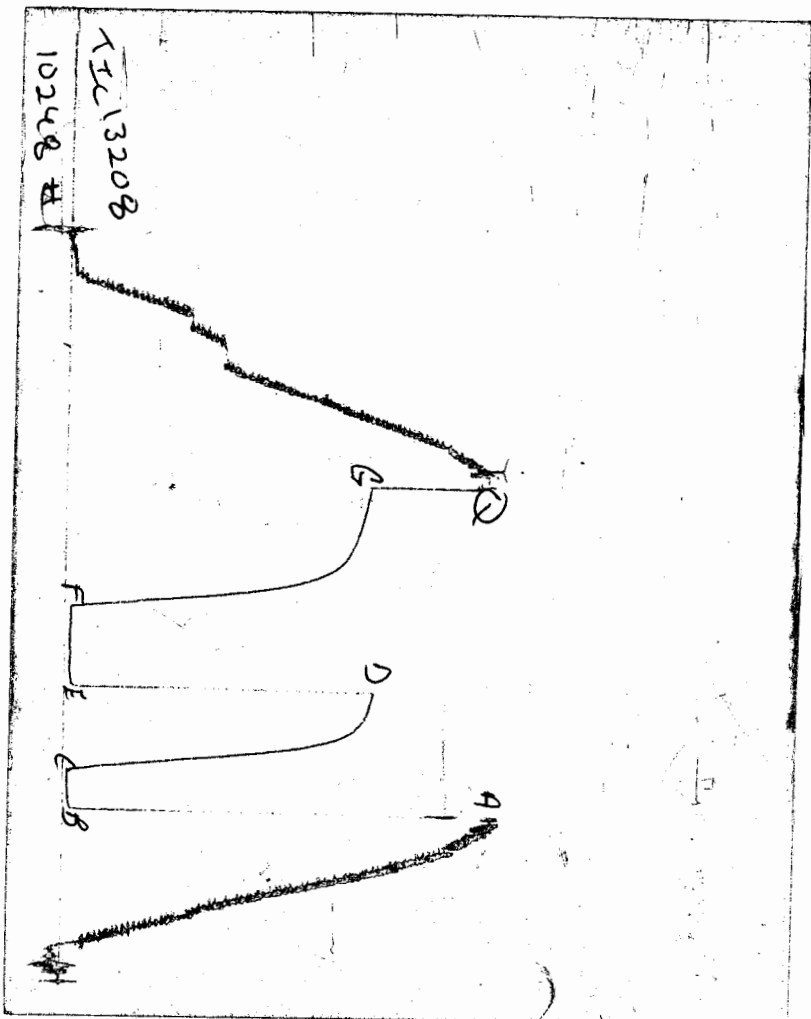
13208 DST#1 DEWALL #1 LARIO OIL & GAS CO.



Flag Points

t (Min.)	P (PSIg)
A: 0.00	2530.92
B: 0.00	20.13
C: 29.50	22.15
D: 60.00	1830.71
E: 0.00	20.64
F: 59.50	26.09
G: 93.00	1800.49
H: 0.00	2485.26

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 • (913) 625-4778

GAS VOLUME REPORT

Lario Oil & Gas Co.
OPERATOR

Deerwall #1
WELL NAME AND NO.

DST NO.

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

N^o 13208

Test Ticket

Well Name & No.	<u>Dewall #1</u>	Test No.	<u>1</u>	Date	<u>10-22-2000</u>
Company	<u>Lario Oil & Gas Co.</u>	Zone Tested	<u>Altamont</u>		
Address	<u>301 S. Market, Wichita, KS 67202</u>	Elevation	<u>2046</u> KB <u>2037</u> GL		
Co. Rep / Geo.	<u>Tim Lauer</u>	Cont.	<u>Dulze Dily #4</u>	Est. Ft. of Pay	<u>6</u> Por. <u>~</u> %
Location: Sec.	<u>11</u>	Twp.	<u>33S</u>	Rge.	<u>19W</u> Co. <u>Comanche</u> State <u>KS</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>Y</u> Evaluation (Y, N) <u>~</u>

Interval Tested 5082 - 5105' Initial Str Wt./Lbs. 56,000 Unseated Str Wt./Lbs. 56,000
Anchor Length 23' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 65,000
Top Packer Depth 5077' Tool Weight 2100#
Bottom Packer Depth 5082' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
Total Depth 5105' Wt. Pipe Run None Drill Collar Run None
Mud Wt. 9.2 LCM 2# Vis. 49 WL 8.8 cc Drill Pipe Size 4 1/2" X.H. Ft. Run 5075'
Blow Description IF: Strong blow, B.O.B. in 1 1/2 mins.
ISI: No blow.
FF: Strong blow, B.T.S. in 22 mins. (see gas volume report)
FSI: No blow.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
<u>35</u>	<u>yes</u>	<u>~</u>	<u>35</u>
Rec. <u>35</u> Feet Of <u>Dily. Mud</u>	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
Rec. _____ Feet Of _____	%gas	%oil	%water %mud

BHT 119 °F Gravity N/A °API D₄₀ ~ °F Corrected Gravity N/A °API
RW N.C. °F Chlorides 7,000 ppm Recovery Chlorides 7,000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2448</u>	<u>2531</u>	<u>alp.</u>	<u>2342</u>	<u>1815</u>
(B) First Initial Flow Pressure	<u>25</u>	<u>20</u>	PSI (depth)	<u>5088'</u>	T-Started <u>1852</u>
(C) First Final Flow Pressure	<u>21</u>	<u>22</u>	PSI Recorder No.	<u>10248</u>	T-Open <u>2110</u>
(D) Initial Shut-in Pressure	<u>1778</u>	<u>1831</u>	PSI (depth)	<u>5102'</u>	T-Pulled <u>0114</u>
(E) Second Initial Flow Pressure	<u>25</u>	<u>21</u>	PSI Recorder No.	<u>~</u>	T-Out <u>0420</u>
(F) Second Final Flow Pressure	<u>28</u>	<u>26</u>	PSI (depth)	<u>~</u>	T-Off Location <u>0500</u>
(G) Final Shut-in Pressure	<u>1747</u>	<u>1800</u>	PSI Initial Opening	<u>30</u>	Test <u>✓</u> <u>850⁰⁰</u>
(Q) Final Hydrostatic Mud	<u>2428</u>	<u>2485</u>	PSI Initial Shut-in	<u>60</u>	Jars <u>✓</u> <u>200⁰⁰</u>
			Final Flow	<u>60</u>	Safety Joint <u>✓</u> <u>50</u>
			Final Shut-in	<u>90</u>	Straddle _____
				<u>1</u>	Circ. Sub _____
					Sampler _____

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

Tim Lauer

Our Representative

Gary Livingston

Extra Packer _____
Elec. Rec. ✓ 150⁰⁰
Mileage ✓ 65
Other _____
TOTAL PRICE \$ ✓ 1315⁰⁰

TRILOBITE TESTING L.L.C.

OPERATOR : Lario Oil & Gas Co.

DATE 10-23-000

WELL NAME: Deewall #1

KB 2046.00 ft

TICKET NO: 13209

DST #2

LOCATION : 11-33s-19w Comanche co KS

GR 2037.00 ft

FORMATION: Ft.Scott

INTERVAL : 5168.00 To 5190.00 ft

TD 5190.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 2320 to 2350 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 2350 to 0050 hr
SF 60 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 0050 to 0150 hr
FS 140 Depth(ft)	5187.0	5187.0	5174.0	0.0	0.0	FS Fr. 0150 to 0410 hr

	Field	1	2	3	4	
A. Init Hydro	2514.0	0.0	2537.0	0.0	0.0	T STARTED 2108 hr
B. First Flow	64.0	0.0	20.0	0.0	0.0	T ON BOTM 2316 hr
B1. Final Flow	55.0	0.0	18.0	0.0	0.0	T OPEN 2320 hr
C. In Shut-in	1683.0	0.0	1695.0	0.0	0.0	T PULLED 0412 hr
D. Init Flow	55.0	0.0	18.0	0.0	0.0	T OUT 0650 hr
E. Final Flow	55.0	0.0	16.0	0.0	0.0	
F. Fl Shut-in	1712.0	0.0	1692.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2503.0	0.0	2516.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 74000.00 lbs
						Initial Str Wt 57000.00 lbs
						Unseated Str Wt 57000.00 lbs

RECOVERY

Tot Fluid 30.00 ft of 0.00 ft in DC and 30.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 30.00 ft of Drilling mud
 0.00 ft of 100% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----5
 SALINITY 5000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	53.00 S/L
W.L.	10.40 in3
F.C.	0.20 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:

Strong blow. Bottom of bucket in 2-3 minutes. Gas to surface in 28 minutes

Initial Shut-In:

No blow.

Final Flow:

Strong blow. (see gas volume report)

Final Shut-In:

No blow.

SAMPLES: Gas sample

SENT TO:Caraway/Liberal

Test Successful: Y

Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 F
Hole Condition	Good
% Porosity	10.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Tim Lauer
Contr.	Duke Drlg.
Rig #	4
Unit #	
Pump T.	LCM 3 #/bl

GAS RECOVERY

COMPANY: Lario Oil & Gas Co.

DATE: 10-23-000

WELL NAME: Deewall #1

KB Elev: 2046.00 ft TICKET #13209 DST #2

WELL LOCATION: 11-33s-19w Comanche co KS

GR Elev: 2037.00 ft FORMATION: Ft.Scott

INTERVAL Fr.: 5168.00 To 5190.00 T.D.: 5190.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.25	0	40	10600.0
20	0.25	0	19	7320.0
30	0.25	0	13	6100.0
40	0.25	0	10	5320.0
50	0.25	0	10	5320.0
60	0.25	0	9	5050.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Deewall #1

LOCATION : 11-33s-19w Comanche co KS

TICKET No. 13209 D.S.T. No. 2 DATE 10-23-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 22

TOTAL TOOL 49

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
1	1	1	1
2	1	1	1
3	1	1	1
4	1	1	1
5	1	1	1
6	1	1	1
7	1	1	1
8	1	1	1
9	1	1	1
10	1	1	1
11	1	1	1
12	1	1	1
13	1	1	1
14	1	1	1
15	1	1	1
16	1	1	1
17	1	1	1
18	1	1	1
19	1	1	1
20	1	1	1
21	1	1	1
22	1	1	1
23	1	1	1
24	1	1	1
25	1	1	1
26	1	1	1
27	1	1	1
28	1	1	1
29	1	1	1
30	1	1	1
31	1	1	1
32	1	1	1
33	1	1	1
34	1	1	1
35	1	1	1
36	1	1	1
37	1	1	1
38	1	1	1
39	1	1	1
40	1	1	1
41	1	1	1
42	1	1	1
43	1	1	1
44	1	1	1
45	1	1	1
46	1	1	1
47	1	1	1
48	1	1	1
49	1	1	1
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84	1	1	1
85	1	1	1
86	1	1	1
87	1	1	1
88	1	1	1
89	1	1	1
90	1	1	1
91	1	1	1
92	1	1	1
93	1	1	1
94	1	1	1
95	1	1	1
96	1	1	1
97	1	1	1
98	1	1	1
99	1	1	1
100	1	1	1

D.P. ANCHOR STND.Stands	Single	Total
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TOTAL ASSEMBLY 49

D.C. ABOVE TOOLS.Stands	Single	Total
-------------------------	--------	-------

D.P. ABOVE TOOLS.Stands83 Single Total 5169

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5218

TOTAL DEPTH 5190

TOTAL DRILL PIPE ABOVE K.B. 28

REMARKS :

Comments:

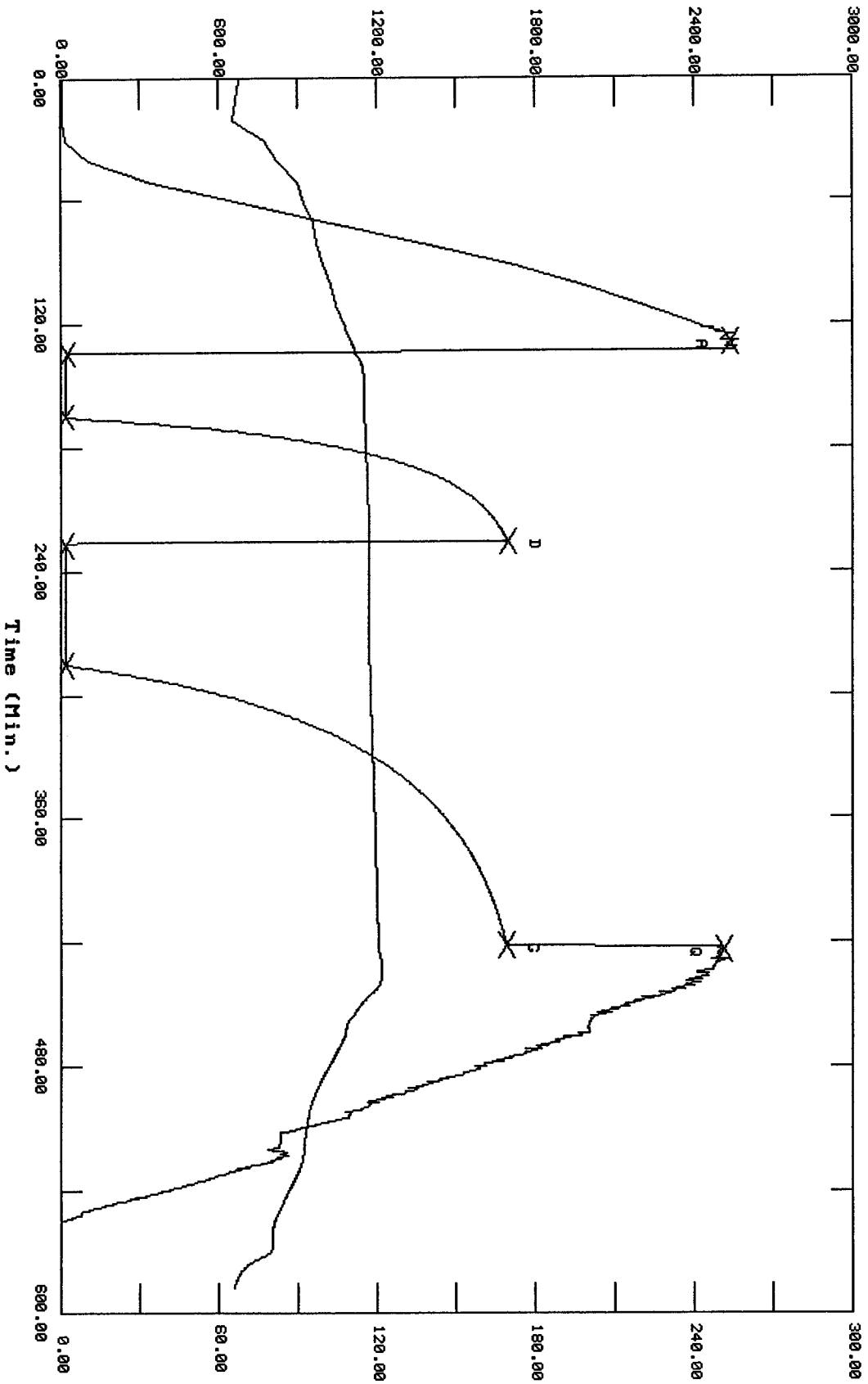
FLUID SAMPLER DATA (not run)

GAS-----	
OIL-----	ML.
MUD-----	ML.
WATER-----	ML.
OTHER-----	
PRESSURE-----	PSI
Rw -----	ohms @ deg. F.
CHLORIDES-----	ppm.
GRAVITY-----	n/a deg.API

[illegible]

TEST HISTORY

13209 DST#2 DEEWALL #1 LARIO OIL & GAS CO.

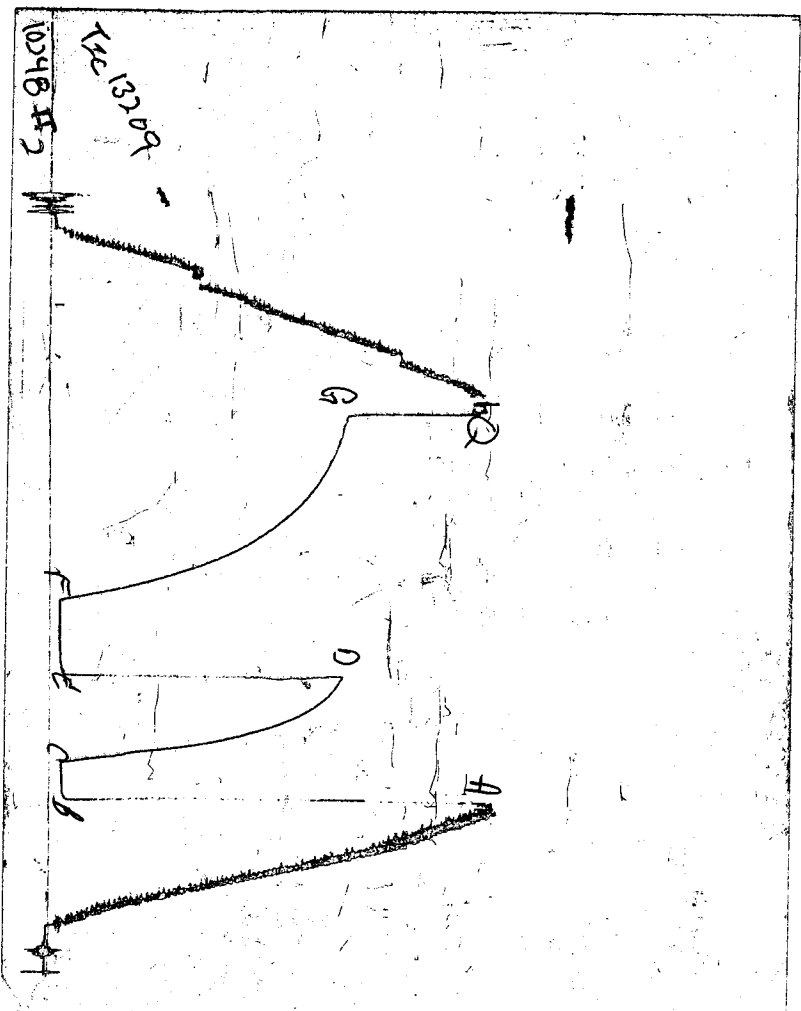


Flag Points

t (Min.)	P (PSig)
0.00	2536.63
0.00	19.80
30.50	16.11
61.00	1695.08
0.00	18.29
56.00	15.77
136.50	1691.98
0.00	2515.56

Temperature (DEG F)

CHART PAGE



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



GAS VOLUME REPORT

Lario Oil & Gas Co. Dr. Well II

OPERATOR

WELL NAME AND NO.

DST NO.

Initial Open

Final Open

[illegible]

Remarks:

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13209

Test Ticket

Well Name & No.	<u>Duwall #1</u>	Test No.	<u>2</u>	Date	<u>10-23-2000</u>
Company	<u>Lario Oil & Gas Co.</u>	Zone Tested	<u>Fl. Scott</u>		
Address	<u>301 S. Market, Wichita Ks. 67202</u>	Elevation	<u>2046</u>	KB	<u>2037</u> GL
Co. Rep / Geo.	<u>Tim Lauer</u>	Cont.	<u>Duke Dwyer #4</u>	Est. Ft. of Pay	<u>5</u> Por. <u> </u> %
Location: Sec.	<u>11</u>	Twp.	<u>33S</u>	Rge.	<u>19W</u> Co. <u>Comanche</u> State <u>Ks.</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>Y</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>5168 - 5190'</u>	Initial Str Wt./Lbs.	<u>57,000</u>	Unseated Str Wt./Lbs.	<u>57,000</u>
Anchor Length	<u>22'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>74,000</u>
Top Packer Depth	<u>5143'</u>	Tool Weight	<u>2100 #</u>		
Bottom Packer Depth	<u>5168'</u>	Hole Size — 7 7/8"	<u>✓</u>	Rubber Size — 6 3/4"	<u>✓</u>
Total Depth	<u>5190'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>None</u>
Mud Wt.	<u>9.0</u> LCM <u>3#</u> Vis. <u>253</u> WL <u>10.4 cc.</u>	Drill Pipe Size	<u>4 1/2" x 14 Ft.</u>	Run	<u>5169</u>
Blow Description	<u>IF: Strong blow. B.O.B. in 2-3 sec. GTS in 28 min.</u>				
	<u>ISI: No blow.</u>				
	<u>FF: Strong blow. (see gas volume report)</u>				
	<u>FSI: No blow.</u>				

Recovery — Total Feet	<u>30</u>	GIP	<u>yes</u>	Ft. in DC	<u> </u>	Ft. in DP	<u>30</u>
Rec.	<u>30</u>	Feet Of	<u>Dry Mud</u>	%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>120</u>	°F Gravity	<u>N/A</u>	°API D@	<u> </u>	°F Corrected Gravity	<u>N/A</u> °API
RW	<u>N.C.</u>	@	<u> </u>	°F Chlorides	<u>5,000</u>	ppm Recovery	Chlorides <u>5,000</u> ppm System

(A) Initial Hydrostatic Mud	<u>2514</u>	AK-1	<u>2537</u>	Alpine	PSI	Recorder No.	<u>2342</u>	T-On Location	<u>2040</u>
(B) First Initial Flow Pressure	<u>64</u>		<u>20</u>		PSI	(depth)	<u>5174'</u>	T-Started	<u>2108</u>
(C) First Final Flow Pressure	<u>55</u>		<u>18</u>		PSI	Recorder No.	<u>10248</u>	T-Open	<u>2320</u>
(D) Initial Shut-In Pressure	<u>1683</u>		<u>1695</u>		PSI	(depth)	<u>5187'</u>	T-Pulled	<u>0412</u>
(E) Second Initial Flow Pressure	<u>55</u>		<u>18</u>		PSI	Recorder No.	<u> </u>	T-Out	<u>0650</u>
(F) Second Final Flow Pressure	<u>55</u>		<u>16</u>		PSI	(depth)	<u> </u>	T-Off Location	<u>0730</u>
(G) Final Shut-in Pressure	<u>1712</u>		<u>1692</u>		PSI	Initial Opening	<u>30</u>	Test	<u>✓ 850⁰⁰</u>
(Q) Final Hydrostatic Mud	<u>2503</u>		<u>2516</u>		PSI	Initial Shut-in	<u>60</u>	Jars	<u>✓ 200⁰⁰</u>
						Final Flow	<u>60</u>	Safety Joint	<u>✓ 50⁰⁰</u>
						Final Shut-in	<u>140</u>	Straddle	<u> </u>
							<u> </u>	Circ. Sub	<u> </u>
							<u> </u>	Sampler	<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 Tim Lauer

Our Representative Gary R. Watson

Extra Packer
Elec. Rec. ✓ 150⁰⁰
Mileage ✓ 65⁰⁰
Other
TOTAL PRICE \$ ✓ 1315⁰⁰

TRILOBITE TESTING L.L.C.

OPERATOR : Lario Oil & Gas Co.

DATE 10-25-000

WELL NAME: Deewall #1

KB 2046.00 ft

TICKET NO: 13210 DST #3

LOCATION : 11-33s-19w Comanche co KS

GR 2037.00 ft

FORMATION: Mississippi

INTERVAL : 5276.00 To 5350.00 ft

TD 5350.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 1000 to 1030 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1030 to 1130 hr
SF 90 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 1130 to 1300 hr
FS 120 Depth(ft)	5347.0	5347.0	5287.0	0.0	0.0	FS Fr. 1300 to 1500 hr

	Field	1	2	3	4	
A. Init Hydro	2636.0	0.0	2622.0	0.0	0.0	T STARTED 0731 hr
B. First Flow	100.0	0.0	65.0	0.0	0.0	T ON BOTM 0955 hr
B1. Final Flow	89.0	0.0	51.0	0.0	0.0	T OPEN 1000 hr
C. In Shut-in	1847.0	0.0	1864.0	0.0	0.0	T PULLED 1501 hr
D. Init Flow	85.0	0.0	77.0	0.0	0.0	T OUT 1720 hr
E. Final Flow	85.0	0.0	52.0	0.0	0.0	
F. Fl Shut-in	1828.0	0.0	1831.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2563.0	0.0	2596.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	O	O	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 68000.00 lbs
						Initial Str Wt 59000.00 lbs
						Unseated Str Wt 59000.00 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 5264.00 ft

RECOVERY

Tot Fluid 95.00 ft of 0.00 ft in DC and 95.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 95.00 ft of Gas cut water mud
 0.00 ft of 12% gas 8% water 80% mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----15
 SALINITY 9000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Intiial Flow:
 Strong blow. Bottom of bucket in 10 seconds. Gas to surface in 13 minutes (see gas volume report)

Initial Shut-In:

NO blow.

Final Flow:

Strong blow. (see gas volume report)

Final Shut-In:

No blow.

SAMPLES: Gas sample

SENT TO:Caraway/Liberal

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/c:
Vis.	53.00 S/L
W.L.	9.60 in3
F.C.	0.20 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	134.00 F
Hole Condition	Good
% Porosity	16.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 N
Cushion Type	None
Reversed Out N	
Tool Chased N	
Tester	Gary Pevoteaux
Co. Rep.	Tim Lauer
Contr.	Duke Drlg.
Rig #	4
Unit #	
Pump T.	LCM 2 #/bl

Test Successful: Y

GAS RECOVERY

COMPANY: Lario Oil & Gas Co.

DATE: 10-25-000

WELL NAME: Deewall #1

KB Elev: 2046.00 ft TICKET #13210 DST #3

WELL LOCATION: 11-33s-19w Comanche co KS

GR Elev: 2037.00 ft FORMATION: Mississippi

INTERVAL Fr.: 5276.00 To 5350.00 T.D.: 5350.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
15	0.38	3	0	59800.0
20	0.38	4	0	61000.0
30	0.38	4	0	63200.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.50	12	0	166500.0
20	0.50	4	0	116400.0
30	0.50	3	0	110200.0
40	0.50	3	0	110200.0
50	0.50	2	0	107000.0
60	0.50	2	0	107000.0
70	0.50	2	0	107000.0
80	0.50	2	0	107000.0
90	0.50	2	0	107000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Deewall #1

LOCATION : 11-33s-19w Comanche co KS

TICKET No. 13210 D.S.T. No. 3 DATE 10-25-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 14

TOTAL TOOL 41

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.	Stands	Single	Total
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D.P. ANCHOR STND.	Stands 1	Single	Total 60
-------------------	----------	--------	----------

TOTAL ASSEMBLY 101

D.C. ABOVE TOOLS	Stands	Single	Total
1	1	1	2
2	1	1	2
3	1	1	2
4	1	1	2
5	1	1	2
6	1	1	2
7	1	1	2
8	1	1	2
9	1	1	2
10	1	1	2
11	1	1	2
12	1	1	2
13	1	1	2
14	1	1	2
15	1	1	2
16	1	1	2
17	1	1	2
18	1	1	2
19	1	1	2
20	1	1	2
21	1	1	2
22	1	1	2
23	1	1	2
24	1	1	2
25	1	1	2
26	1	1	2
27	1	1	2
28	1	1	2
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32	1	1	2
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88	1	1	2
89	1	1	2
90	1	1	2
91	1	1	2
92	1	1	2
93	1	1	2
94	1	1	2
95	1	1	2
96	1	1	2
97	1	1	2
98	1	1	2
99	1	1	2
100	1	1	2

D.P. ABOVE TOOLS.Stands84 Single 1 Total 5264

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5365

TOTAL DEPTH 5350

TOTAL DRILL PIPE ABOVE K.B. 15

REMARKS:

Comments:

FLUID SAMPLER DATA (not run)

GAS-----

OIL-----ML.

MUD-----ML.

WATER-----ML.

OTHER-----

PRESSURE-----PSI

Rw ----- ohms @ deg. F

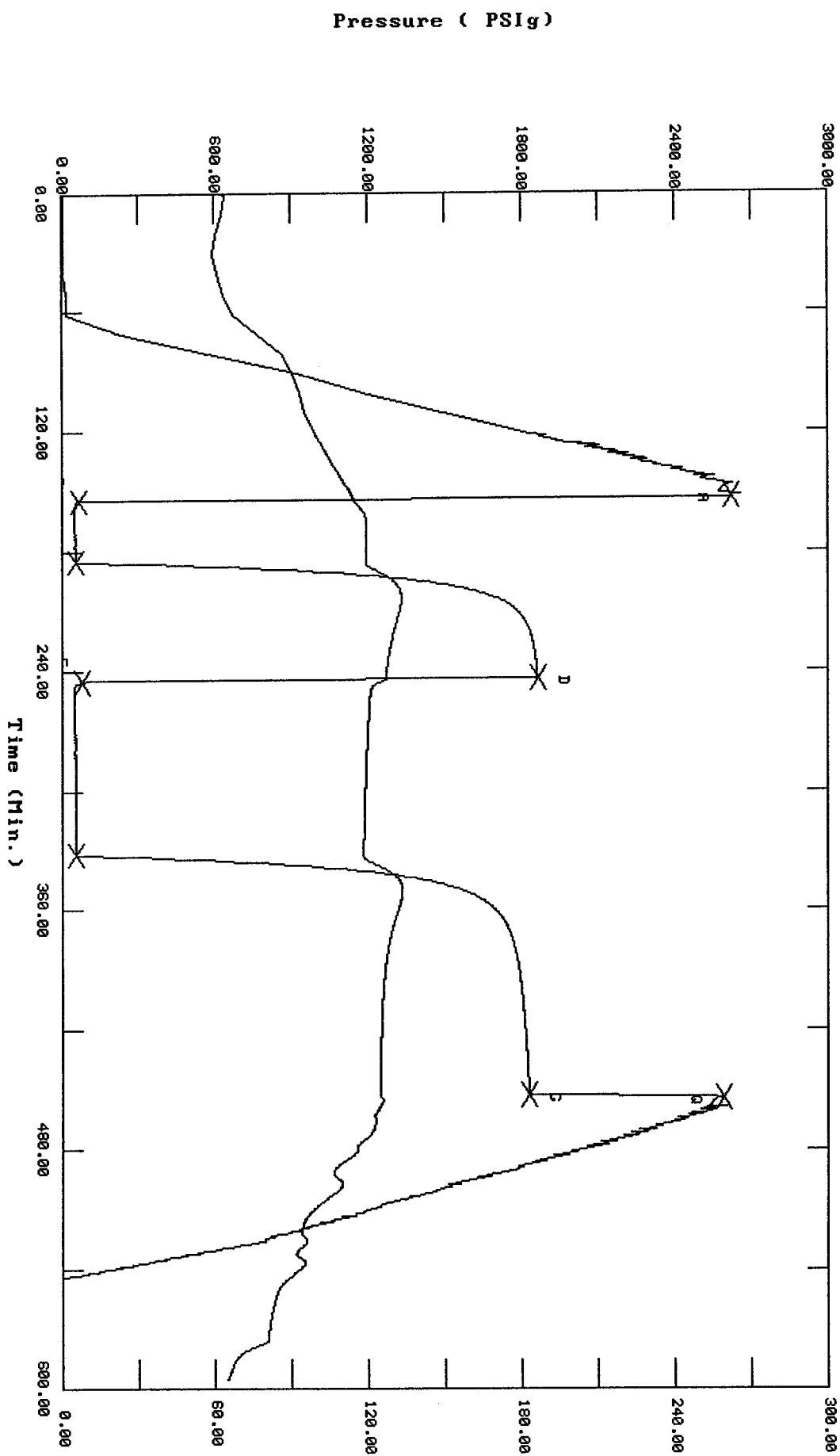
CHLORIDES-----ppm

GRAVITY----- n/a deg.AP

[illegible]

TEST HISTORY

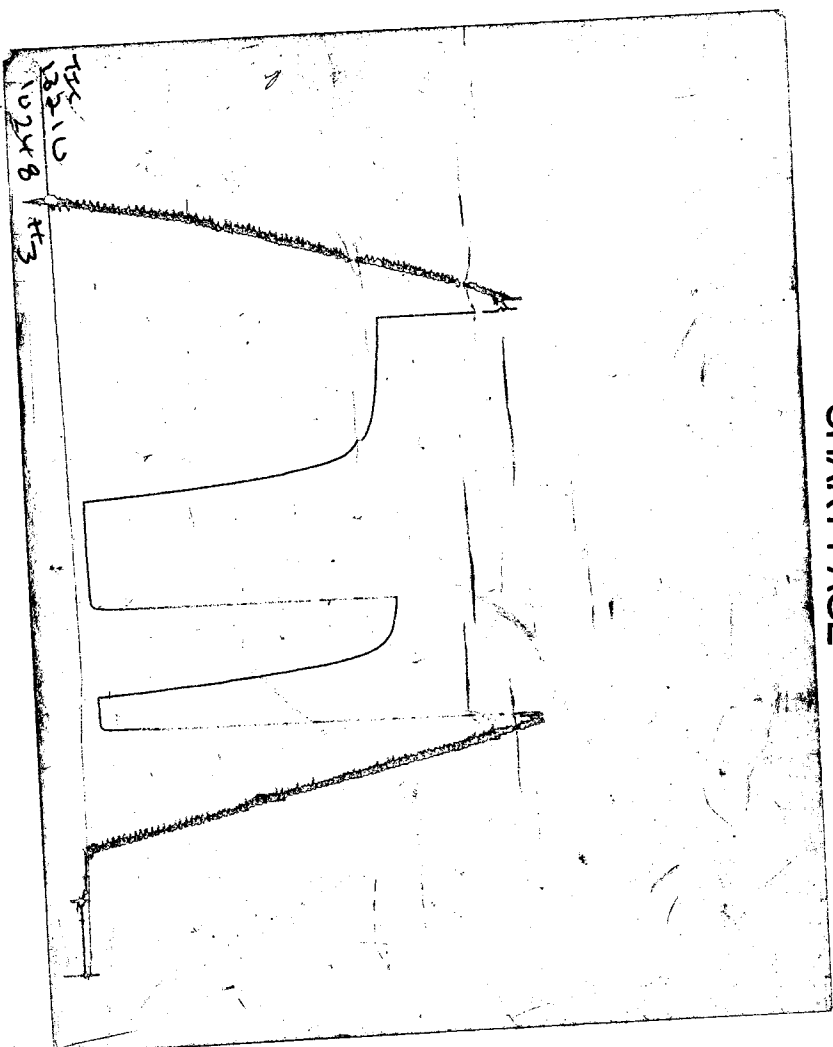
13210 DST#3 DEWALL #1 LARIO OIL & GAS CO.



Flag Points
(Min.) P (PSIg)

A:	0.00	2621.90
B:	0.00	65.46
C:	30.50	51.10
D:	59.00	1863.86
E:	0.00	78.62
F:	86.50	52.28
G:	121.00	1830.71
H:	0.00	2595.71

CHART PAGE



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



GAS VOLUME REPORT

Lario Oil & Gas Co.
OPERATOR

VOLUME REPORT
Pencilwell #4

3
DST NO

[illegible]

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13210

Test Ticket

Well Name & No.	Duffall #1	Test No.	3	Date	10-25-2000
Company	Lano Oil & Gas Co.	Zone Tested	Miss		
Address	3015 Market, Wichita, Ks. 67202	Elevation	2046 KB 2037 GL		
Co. Rep / Geo.	Kevin Jones	Cont.	Duke Dwyer #4	Est. Ft. of Pay	15 Por. %
Location: Sec.	11	Twp.	33S	Rge.	19W Co. Comanche State Ks.
No. of Copies	5	Distribution Sheet (Y, N)	N	Turnkey (Y, N)	Y Evaluation (Y, N)

Interval Tested 5276 - 5350' Initial Str Wt/Lbs. 57,000 Unseated Str Wt/Lbs. 57,000
Anchor Length 74' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 68,000
Top Packer Depth 5271' Tool Weight 2100#
Bottom Packer Depth 5276' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
Total Depth 5350' Wt. Pipe Run None Drill Collar Run None
Mud Wt. 9.3 LCM 2# Vis. 53 WL 9.6cc. Drill Pipe Size 4 1/2" x 11' Ft. Run 5264'
Blow Description IF: Strong blow. B.O.B. in 10 secs. GTS in 13 mins.
(see gas volume report) FSI: No blow.
FF: Strong blow. (see gas volume report) FSI: No blow.

Recovery — Total Feet 95 GIP yes Ft. in DC — Ft. in DP 95
Rec. 95 Feet Of GCM 12 %gas %oil 8 %water 80 %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
Rec. Feet Of %gas %oil %water %mud
BHT 134 °F Gravity N/A °API D@ — °F Corrected Gravity N/A °API
RW N.C. @ — °F Chlorides 9,000 ppm Recovery Chlorides 9,000 ppm System

(A) Initial Hydrostatic Mud	AK-1 <u>2636</u>	Alpine <u>2622</u>	PSI Recorder No. <u>2342</u>	T-On Location <u>0530</u>
(B) First Initial Flow Pressure	<u>100</u>	<u>65</u>	PSI (depth) <u>5287'</u>	T-Started <u>0731</u>
(C) First Final Flow Pressure	<u>89</u>	<u>51</u>	PSI Recorder No. <u>10248</u>	T-Open <u>1000</u>
(D) Initial Shut-In Pressure	<u>1847</u>	<u>1864</u>	PSI (depth) <u>5347'</u>	T-Pulled <u>1501</u>
(E) Second Initial Flow Pressure	<u>85</u>	<u>77</u>	PSI Recorder No. <u>—</u>	T-Out <u>1720</u>
(F) Second Final Flow Pressure	<u>85</u>	<u>52</u>	PSI (depth) <u>—</u>	T-Off Location <u>1800</u>
(G) Final Shut-in Pressure	<u>1828</u>	<u>1831</u>	PSI Initial Opening <u>30</u>	Test <u>✓</u> <u>850.00</u>
(Q) Final Hydrostatic Mud	<u>2563</u>	<u>2596</u>	PSI Initial Shut-in <u>60</u>	Jars <u>✓</u> <u>200.00</u>
			Final Flow <u>90</u>	Safety Joint <u>✓</u> <u>50.00</u>
			Final Shut-in <u>120</u>	Straddle <u>—</u>
				Circ. Sub <u>—</u>
				Sampler <u>—</u>

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Approved By Tim Jones
Our Representative Greg Cavanaugh

Extra Packer —
Elec. Rec. ✓ 150.00
Mileage ✓ 65.00
Other STAND BY ✓ 30.00
TOTAL PRICE \$ ✓ 1345.00

TRILOBITE TESTING L.L.C.

OPERATOR : Lario Oil & Gas Co.

DATE 10-28-000

WELL NAME: Deewall #1

KB 2046.00 ft

TICKET NO: 13211 DST #4

LOCATION : 11-33s-19w Comanche co KS

GR 2037.00 ft

FORMATION: Viola

INTERVAL : 6000.00 To 6015.00 ft

TD 6015.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10248	10248	2342			PF Fr. 1900 to 1930 hr
SI 60 Range(Psi)	4400.0	4400.0	4995.0	0.0	0.0	IS Fr. 1930 to 2030 hr
SF 90 Clock(hrs)	12 hr	12 hr	batt.			SF Fr. 2030 to 2200 hr
FS 120 Depth(ft)	6012.0	6012.0	6005.0	0.0	0.0	FS Fr. 2200 to 0000 hr

	Field	1	2	3	4	
A. Init Hydro	2944.0	0.0	3020.0	0.0	0.0	T STARTED 1646 hr
B. First Flow	71.0	0.0	55.0	0.0	0.0	T ON BOTM 1854 hr
B1. Final Flow	57.0	0.0	59.0	0.0	0.0	T OPEN 1900 hr
C. In Shut-in	2155.0	0.0	2225.0	0.0	0.0	T PULLED 0002 hr
D. Init Flow	73.0	0.0	51.0	0.0	0.0	T OUT 0303 hr
E. Final Flow	57.0	0.0	68.0	0.0	0.0	
F. Fl Shut-in	2122.0	0.0	2208.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2939.0	0.0	2988.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I	T		Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 75000.00 lbs
						Initial Str Wt 62000.00 lbs
						Unseated Str Wt 62000.00 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 5978.00 ft

RECOVERY

Tot Fluid 5.00 ft of 0.00 ft in DC and 5.00 ft in DP
 0.00 ft of Gas in all fluid free pipe.
 5.00 ft of Heavy mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of Rw n.c. ohms @ degrees F.
 0.00 ft of EST.FT. of PAY-----4
 SALINITY 7000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow. Bottom of bucket immediately. Gas to surface in 6 minutes. (see gas volume report)
 Initial Shut-In:
 No blow
 Final Flow:
 Strong blow. (see gas volume report)
 Final Shut-In:
 No blow.

SAMPLES: Gas sample
 SENT TO: Caraway/Liberal

MUD DATA-----
 Mud Type Chemical
 Weight 9.20 lb/c
 Vis. 60.00 S/L
 W.L. 9.60 in3
 F.C. 0.20 in
 Mud Drop N
 Amt. of fill 0.00 ft
 Btm. H. Temp. 124.00 F
 Hole Condition Good
 % Porosity 14.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 N
 Cushion Type None
 Reversed Out N
 Tool Chased N
 Tester Gary Pevoteaux
 Co. Rep. Tim Lauer
 Contr. Duke Drlg.
 Rig # 4
 Unit #
 Pump T. LCM 6 #/bl

Test Successful: Y

GAS RECOVERY

COMPANY: Lario Oil & Gas Co.

DATE: 10-28-000

WELL NAME: Deewall #1

KB Elev: 2046.00 ft TICKET #13211 DST #4

WELL LOCATION: 11-33s-19w Comanche co KS

GR Elev: 2037.00 ft FORMATION: Viola

INTERVAL Fr.: 6000.00 To 6015.00 T.D.: 6015.00 ft TEST TYPE: CONVENTIONAL

GAS RECOVERY MEASURED WITH Adjusting Choke

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	5	0	285000.0
20	0.75	7	0	314000.0
30	0.75	8	0	326600.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
10	0.75	6	0	299500.0
20	0.75	8	0	326600.0
30	0.75	8	0	326600.0
40	0.75	8	0	335000.0
50	0.75	9	0	343000.0
60	0.75	9	0	343000.0
70	0.75	9	0	343000.0
80	0.75	10	0	358000.0
90	0.75	10	0	358000.0

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Deewall #1

LOCATION : 11-33s-19w Comanche co KS

TICKET No. 13211 D.S.T. No. 4 DATE 10-28-000

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 15

TOTAL TOOL 42

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands	Single	Total
1	1	1
2	2	2
3	3	3
4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
11	11	11
12	12	12
13	13	13
14	14	14
15	15	15
16	16	16
17	17	17
18	18	18
19	19	19
20	20	20
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84	84	84
85	85	85
86	86	86
87	87	87
88	88	88
89	89	89
90	90	90
91	91	91
92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

D. P. ANCHOR STND.	Stands	Single	Total
--------------------	--------	--------	-------

TOTAL ASSEMBLY 42

D.C. ABOVE TOOLS.Stands	Single	Total
-------------------------	--------	-------

D.P. ABOVE TOOLS.Stands96 Single Total 5978

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 6020

TOTAL DEPTH 6015

TOTAL DRILL PIPE ABOVE K.B. 5

REMARKS:

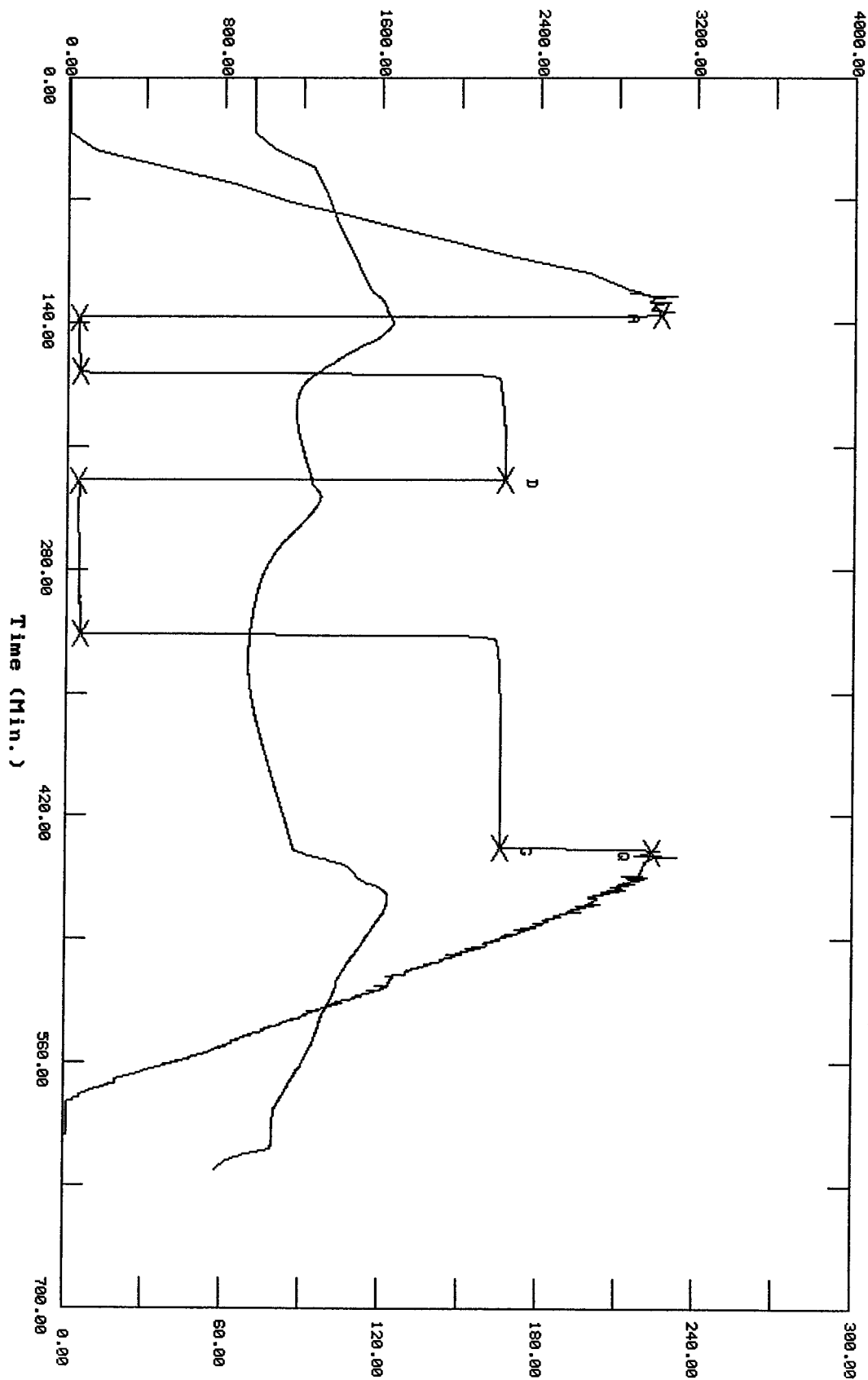
Comments:

FLUID SAMPLER DATA (not run)

GAS-----		
OIL-----		ML.
MUD-----		ML.
WATER-----		ML.
OTHER-----		
PRESSURE-----		PSI
Rw -----	ohms @	deg. F.
CHLORIDES-----		ppm.
GRAVITY-----	n/a	deg.API

[illegible]

TEST HISTORY 13211 DST#4 DEEWALL #1 LARIO OIL & GAS CO.

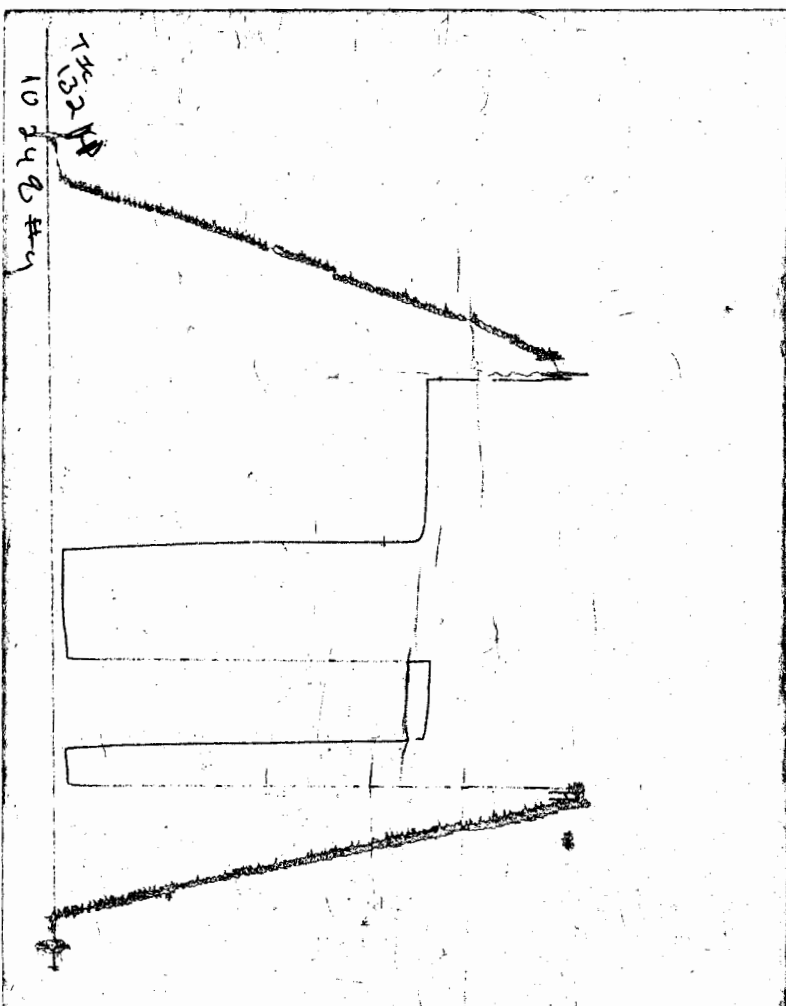


Flag Points

	Time (Min.)	Pressure (PSig)
A:	0.00	3020.05
B:	0.00	54.96
C:	30.50	59.33
D:	61.00	2224.78
E:	0.00	50.94
F:	87.00	68.22
G:	122.00	2208.08
H:	0.00	2988.24

Temperature (DEG F)

CHART PAGE



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



Lario Oil & Gas Co.

VOLUME REPORT *DeWall* *26* *1*

OPERATOR

WELL NAME AND NO.

D&T NO.

Initial Open

Final Open

[illegible]

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Nº 13211

Test Ticket

Well Name & No.	<u>Dunwall #1</u>	Test No.	<u>9</u>	Date	<u>10-28-2000</u>
Company	<u>Lario Oil & Gas Co.</u>	Zone Tested	<u>Viola</u>		
Address	<u>Wichita Ks. 67202</u>	Elevation	<u>2046</u> KB <u>2037</u> GL		
Co. Rep / Geo.	<u>Tim Lauer</u>	Cont.	<u>Duke Dreyer</u>	Est. Ft. of Pay	<u>4</u> Por. <u> </u> %
Location: Sec.	<u>11</u>	Twp.	<u>33</u>	Rge.	<u>19W</u> Co. <u>Comanche</u> State <u>Ks.</u>
No. of Copies	<u>5</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u> </u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>6000-6015'</u>	Initial Str Wt./Lbs.	<u>62,000</u>	Unseated Str Wt./Lbs.	<u>62,000</u>
Anchor Length	<u>15'</u>	Wt. Set Lbs.	<u>20,000</u>	Wt. Pulled Loose/Lbs.	<u>75,000</u>
Top Packer Depth	<u>5995'</u>	Tool Weight	<u>2100</u> #		
Bottom Packer Depth	<u>6000'</u>	Hole Size — 7 7/8"	☒	Rubber Size — 6 3/4"	☒
Total Depth	<u>6015'</u>	Wt. Pipe Run	<u>None</u>	Drill Collar Run	<u>None</u>
Mud Wt.	<u>9.2</u> LCM <u>6th</u> Vis. <u>60</u> WL <u>9.6cc.</u>	Drill Pipe Size	<u>4 1/2" X 14 Ft.</u>	Run	<u>5978'</u>
Blow Description	<u>FF: Strong blow. B.O.B. immediately. (see gas volume report) ISI: No blow.</u> <u>FF: Strong blow. (see gas volume report)</u> <u>FSI: No blow.</u>				

Recovery — Total Feet	<u>5</u>	GIP	<u>yes</u>	Ft. in DC	<u> </u>	Ft. in DP	<u>5</u>
Rec.	<u>5</u>	Feet Of	<u>Heavy Mud</u>	%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
Rec.		Feet Of		%gas	%oil	%water	%mud
BHT	<u>124</u>	°F Gravity	<u>N/A</u>	°API D@	<u> </u>	°F Corrected Gravity	<u>N/A</u> °API
RW	<u>N/C</u>	@	<u> </u>	°F Chlorides	<u>1,000</u> ppm Recovery	Chlorides	<u>4000</u> ppm System

	AK-1	Alpine				
(A) Initial Hydrostatic Mud	<u>2944</u>	<u>3020</u>	PSI Recorder No.	<u>2342</u>	T-On Location	<u>1615</u>
(B) First Initial Flow Pressure	<u>71</u>	<u>55</u>	PSI (depth)	<u>6005'</u>	T-Started	<u>1646</u>
(C) First Final Flow Pressure	<u>57</u>	<u>59</u>	PSI Recorder No.	<u>10240</u>	T-Open	<u>1900</u>
(D) Initial Shut-In Pressure	<u>2155</u>	<u>2225</u>	PSI (depth)	<u>6012'</u>	T-Pulled	<u>0002</u>
(E) Second Initial Flow Pressure	<u>73</u>	<u>51</u>	PSI Recorder No.	<u> </u>	T-Out	<u>0303</u>
(F) Second Final Flow Pressure	<u>55</u>	<u>68</u>	PSI (depth)	<u> </u>	T-Off Location	<u>0400</u>
(G) Final Shut-in Pressure	<u>2122</u>	<u>2200</u>	PSI Initial Opening	<u>30</u>	Test	☒ <u>950</u>
(Q) Final Hydrostatic Mud	<u>2939</u>	<u>2988</u>	PSI Initial Shut-in	<u>60</u>	Jars	☒ <u>200</u>
			Final Flow	<u>90</u>	Safety Joint	☒ <u>50</u>
			Final Shut-in	<u>120</u>	Straddle	<u> </u>
				<u> </u>	Circ. Sub	<u> </u>
				<u> </u>	Sampler	<u> </u>
				<u> </u>	Extra Packer	<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

Tim Lauer

Our Representative

Cory R. [Signature]

TOTAL PRICE \$ ✓ 1415.00

NATURAL GAS ANALYSIS REPORT

Sampled by:

Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:

Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 20005802

Analyzed: 11/01/00

Sample From: Deewall #1 DST 4
Producer: Lario Oil & Gas

Pressure:
Temperature:

Date/Location: 11-33-19

Time:
Sampler:
Source:

County: Comanche
State: Kansas
Formation: Viola

	Mole %	GPM
Helium	He: 0.288	0.000
Hydrogen	H2: 0.003	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 7.990	0.000
Carbon Dioxide	CO2: 0.073	0.000
Methane	C1: 82.294	0.000
Ethane	C2: 5.068	1.355
Propane	C3: 2.388	0.658
Iso Butane	iC4: 0.279	0.091
Normal Butane	nC4: 0.800	0.252
Iso Pentane	iC5: 0.154	0.056
Normal Pentane	nC5: 0.248	0.090
Hexanes Plus	C6+: 0.415	0.181

TOTAL: 100.000 2.684

Z Fact: 0.9976

SP.GR.: 0.6705

BTU (SAT): 1040.1 @ 14.73 psia
BTU (DRY): 1058.5 @ 14.73 psia

OCTANE RATING: 115.9

COMMENTS:

0.000