

15-175-21560

29-31S-32W

WELL NAME: Luther "C" #2
COMPANY: Oxy USA Inc
LOCATION: 29-31S-32W
Seward County Kansas
DATE: 08/15/96

TRILOBITE TESTING L.L.C.

OPERATOR : Oxy USA Inc	DATE 08/15/96	
WELL NAME: Luther "C" #2	KB 2866.00 ft	TICKET NO: 9029 DST #1
LOCATION : 29-31S-32W, Seward Cty KS	GR 2855.00 ft	FORMATION: Atoka
INTERVAL : 5402.00 To 5458.00 ft	TD 5458.00 ft	TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11038	11038	5495			PF Fr. 1430 to 1500 hr
SI 60	Range(Psi)	5075.0	5075.0	4200.0	0.0	0.0	IS Fr. 1500 to 1600 hr
SF 60	Clock(hrs)	12	12	12			SF Fr. 1600 to 1700 hr
FS 120	Depth(ft)	5407.0	5407.0	5455.0	0.0	0.0	FS Fr. 1700 to 1900 hr

	Field	1	2	3	4	
A. Init Hydro	2657.0	2658.0	0.0	0.0	0.0	T STARTED 1210 hr
B. First Flow	55.0	50.0	0.0	0.0	0.0	T ON BOTM 1428 hr
Bl. Final Flow	55.0	50.0	0.0	0.0	0.0	T OPEN 1430 hr
C. In Shut-in	82.0	88.0	0.0	0.0	0.0	T PULLED 1900 hr
D. Init Flow	41.0	41.0	0.0	0.0	0.0	T OUT 2200 hr
E. Final Flow	41.0	41.0	0.0	0.0	0.0	
F. Fl Shut-in	95.0	109.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2567.0	2578.0	0.0	0.0	0.0	Tool Wt. 0.00 lbs
Inside/Outside	I	I	O			Wt Set On Packer 25000.00 lbs

RECOVERY

Tot Fluid	60.00 ft of	60.00 ft in DC and	0.00 ft in DP
60.00	ft of Drilling mud w/ trace of oil		

Initial Str Wt	85000.00 lbs
Unseated Str Wt	87000.00 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	575.00 ft
D.P. Length	4822.00 ft

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

BLOW DESCRIPTION

Initial Flow -
Weak blow, built to 2.25"

Final Flow -
Weak blow, died in 40 min

MUD DATA-----

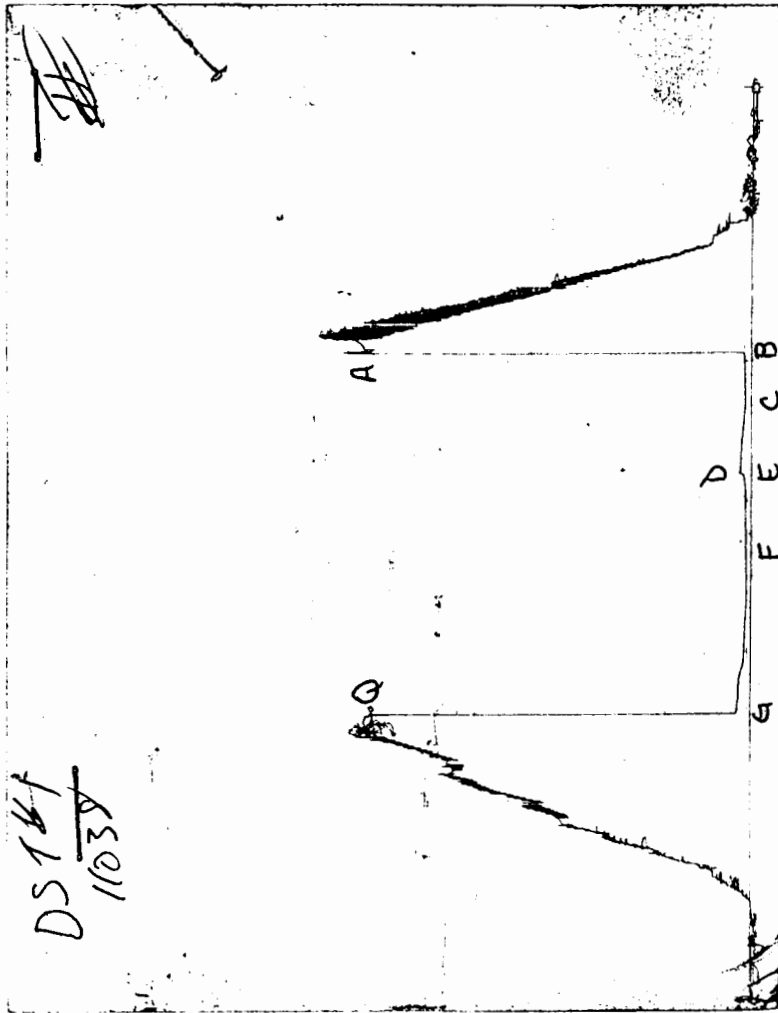
Mud Type	Chemical
Weight	8.90 lb
Vis.	46.00 S/1
W.L.	8.80 in
F.C.	0.00 in
Mud Drop	

Amt. of fill	0.00 ft
Btm. H. Temp.	120.00 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	Tom Horacek
Co. Rep.	Cal Wylie
Contr.	Cheyenne
Rig #	2
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



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

*** TOOL DIAGRAM *** CONV

WELL NAME: Luther "C" #2

LOCATION : 29-31S-32W, Seward Cty KS

TICKET No. 9029 D.S.T. No. 1 DATE 08/15/96

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 25

TOTAL TOOL 55

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single 1 Total 31

TOTAL ASSEMBLY 86

D.C. ABOVE TOOLS.Stands Single Total 575

D.P. ABOVE TOOLS.Stands Single Total 4822

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5483

TOTAL DEPTH 5458

TOTAL DRILL PIPE ABOVE K.B. 25

REMARKS:

FLUID SAMPLER DATA

SAMPLER RECOVERY -

Oil trace, Mud 4000 ml, Pressure 60 PSI,
Total 4000 ml

PIT MUD ANALYSIS -

Chlorides 2400 ppm, Vis 46, Mud Wt 8.9,
Filtrate 8.8, LCM 2#

P.O. SUB	
C.O. SUB	5372
S.I. TOOL	5378
Sampler	5381
HMV	5386
JARS	5391
SAFETY JOINT	5393
PACKER	5397
PACKER	5402
DEPTH 5402	
STUBB	5403
ANCHOR	
perf	
AK-1 recorder	5407
perf	
jt pipe	
T.C.	
DEPTH	
AK-1 recorder	5455
BULLNOSE bull plug	
T.D.	5458

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 9029

Well Name & No.	<u>Luther "C" #2</u>	Test No.	<u>41</u>	Date	<u>8-15-96</u>
Company	<u>Oxy USA Inc</u>	Zone Tested	<u>Atoka</u>		
Address	<u>Box 300, Tulsa OK 74102-0300</u>	Elevation	<u>2866</u> KB <u>2855</u> GL		
Co. Rep / Geo.	<u>Cal Wylie</u>	Cont.	<u>Cheyenne Drilling #2</u>	Est. Ft. of Pay	<u> </u> Por. <u> </u> %
Location: Sec.	<u>29</u>	Twp.	<u>31 S</u>	Rge.	<u>32 W</u> Co. <u>Seward</u> State <u>Ks</u>
No. of Copies	<u> </u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u> </u>

Interval Tested	<u>5402-5458</u>	Initial Str Wt./Lbs.	<u>85,000</u>	Unseated Str Wt./Lbs.	<u>87,000</u>
Anchor Length	<u>56'</u>	Wt. Set Lbs.	<u>25,000</u>	Wt. Pulled Loose/Lbs.	<u>120,000</u>
Top Packer Depth	<u>5397</u>	Hole Size — 7 7/8"	<u> </u>	Rubber Size — 6 3/4"	<u> </u>
Bottom Packer Depth	<u>5402</u>	Wt. Pipe I.D. — 2.7 Ft. Run	<u> </u>		
Total Depth	<u>5458</u>	Drill Collar — 2.25 Ft. Run	<u>575'</u>		
Mud Wt.	<u>8.9</u> LCM <u>2*</u> Vis. <u>46</u> WL <u>8.8</u>	Drill Pipe Size	<u>4.5 x 1 1/2</u> Ft. Run	<u>4822'</u>	
Blow Description	<u>1st. weak blow - built to 2 1/4 in.</u>				

2nd. weak blow - Died in 40 min.

Recovery — Total Feet	<u>60'</u>	Ft. in DC	<u>60'</u>	Ft. in WP	<u> </u>	Ft. in DP	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u>60'</u>	Feet Of	<u>Drilg mud w/trace oil</u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
Rec.	<u> </u>	Feet Of	<u> </u>	%gas	<u> </u>	%oil	<u> </u>
BHT	<u>120</u>	°F Gravity	<u> </u>	°API D@	<u> </u>	°F Corrected Gravity	<u> </u>
RW	<u> </u>	@	<u> </u>	°F Chlorides	<u> </u>	ppm Recovery	<u>2400</u>
(A) Initial Hydrostatic Mud	<u>2657</u>	PSI	Recorder No.	<u>11038</u>	T-Started	<u>1210</u>	
(B) First Initial Flow Pressure	<u>55</u>	PSI	@ (depth)	<u>5407</u>	T-Open	<u>1430</u>	
(C) First Final Flow Pressure	<u>55</u>	PSI	Recorder No.	<u>5495</u>	T-Pulled	<u>1900</u>	
(D) Initial Shut-in Pressure	<u>82</u>	PSI	@ (depth)	<u>5455</u>	T-Out	<u>2200</u>	
(E) Second Initial Flow Pressure	<u>41</u>	PSI	Recorder No.	<u> </u>			
(F) Second Final Flow Pressure	<u>41</u>	PSI	@ (depth)	<u> </u>			
(G) Final Shut-in Pressure	<u>95</u>	PSI	Initial Opening	<u>30 min.</u>	Test	<u>X</u>	<u>700</u>
(H) Final Hydrostatic Mud	<u>2567</u>	PSI	Initial Shut-in	<u>60 min.</u>	Jars	<u>X</u>	<u>200</u>
			Final Flow	<u>60 min.</u>	Safety Joint	<u>X</u>	<u>50</u>
			Final Shut-in	<u>120 min.</u>	Straddle	<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 Tom Horacek

Our Representative Tom Horacek

Extra Packer

Elect. Rec.

Other

TOTAL PRICE \$ 1150

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 9029 Date 8-15-96
Company Name Oxy USA Inc.
Lease Luther C-2 Test No. #1
County Seward Ks. Sec. 29 Twp. 31s Rng. 32w

SAMPLER RECOVERY

Gas _____ ML
Oil Trace ML
Mud 4000 ML
Water _____ ML
Other _____ ML
Pressure 60 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 2400 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 46
Mud Weight 8.9
Filtrate 8.8
Other LCM 2 #

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.