WELL NAME:	Nickelson #23-1
COMPANY:	Ron's Oil Operations, Inc.
LOCATION:	23-9S-24W
	Graham County, Kansas
DATE:	1/8/98

TRILOBITE TESTING L.L.C.

OPERATOR : Ron's Oil Operations Inc DATE 1-7-98
WELL NAME: Nickelson #23-1 KB 2468.00 ft TICKET NO: 10725 DST #1
LOCATION : 23-9S-24W CO Graham KS GR 2463.00 ft FORMATION: "C-D" LKC
INTERVAL : 3818.00 To 3850.00 ft TD 3850.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13754	13754	13248		
SI 45	Range(Psi)	7000.0	7000.0	4250.0	0.0	0.0
SF 306	Clock(hrs)	12 HR	12 HR	12 HR		
FS 45	Depth(ft)	3821.0	3821.0	3847.0	0.0	0.0

TIME DATA----------
PF Fr. 0305 to 0335 hr
IS Fr. 0335 to 0420 hr
SF Fr. 0420 to 0450 hr
FS Fr. 0450 to 0535 hr

	Field	1	2	3	4
A. Init Hydro	1946.0	1950.0	0.0	0.0	0.0
B. First Flow	39.0	48.0	0.0	0.0	0.0
B1. Final Flow	98.0	102.0	0.0	0.0	0.0
C. In Shut-in	344.0	352.0	0.0	0.0	0.0
D. Init Flow	127.0	137.0	0.0	0.0	0.0
E. Final Flow	137.0	137.0	0.0	0.0	0.0
F. Fl Shut-in	334.0	331.0	0.0	0.0	0.0
G. Final Hydro	1816.0	1891.0	0.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 0130 hr
T ON BOTM 0300 hr
T OPEN 0305 hr
T PULLED 0535 hr
T OUT 0730 hr

TOOL DATA----------

Tool Wt.	1000.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	80000.00 lbs
Initial Str Wt	50000.00 lbs
Unseated Str Wt	51000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.50 in
D. Pipe ID	3.80 in
D.C. Length	248.00 ft
D.P. Length	3570.00 ft

RECOVERY
Tot Fluid 340.00 ft of 248.00 ft in DC and 92.00 ft in DP
464.00 ft of Gas in pipe 100% gas
30.00 ft of Heavily oil cut gassy mud
0.00 ft of 20% gas 30% oil 50% mud
124.00 ft of Heavily mud cut gass oil
0.00 ft of 30% gas 50% oil 20% mud
124.00 ft of Clean gassy oil 10% gas 90% oil
62.00 ft of Water and mud cut oil
0.00 ft of 60% oil 20% water 20% mud
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	47.00 S/L
W.L.	9.80 in3
F.C.	0.00 in
Mud Drop	

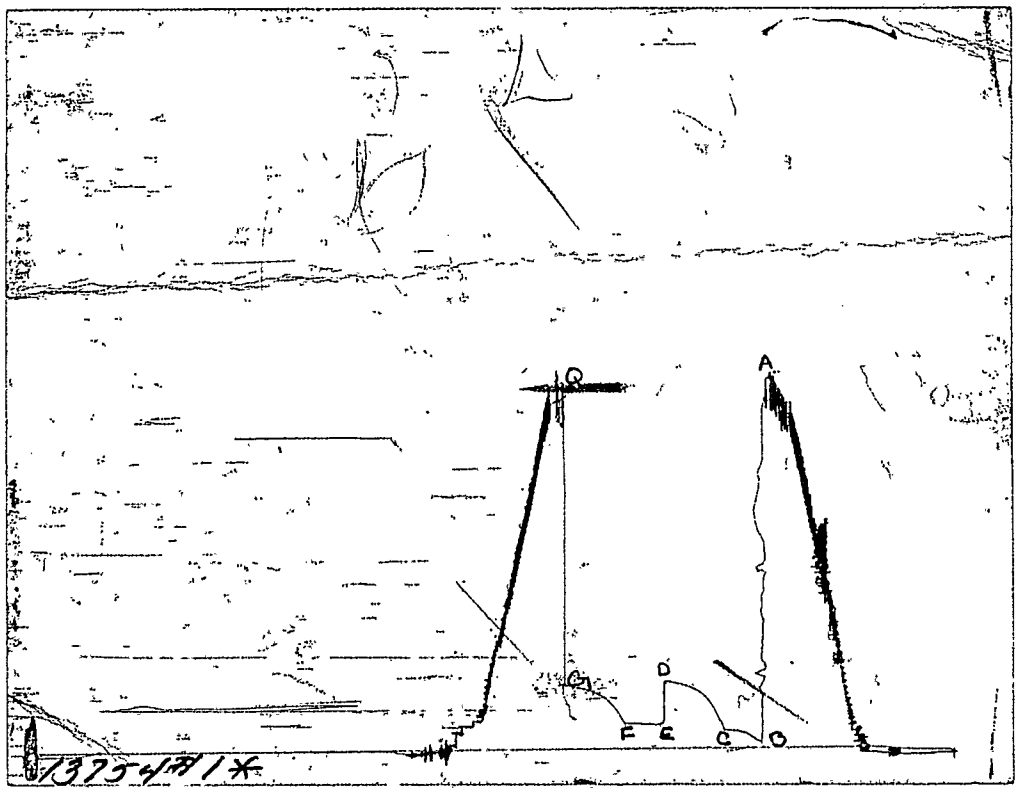
BLOW DESCRIPTION
Initial Flow:
strong, bottom of bucket in 12 min.
Final Flow:
strong, bottom of bucket in 5 min.

Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 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	Dan Bangle
Co. Rep.	Ron Nelson
Contr.	Mallard
Rig #	2
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



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

Well name Nickelson

DST # 1

Recorder # 13754

1				
2	A	1.964	1950	
3	B	.049	48	
4	C	.104	102	
5	D	.358	352	
6	E	.140	137	
7	F	.140	137	
8	G	.337	331	
9	H	1.905	1891	
10				
11				
12				

TRILOBITE TESTING L.L.C.

OPERATOR : Ron's Oil Operations Inc DATE 1-7-98
WELL NAME: Nickelson #23-1 KB 2468.00 ft TICKET NO: 10426 DST #2
LOCATION : 23-9S-24W CO Graham KS GR 2463.00 ft FORMATION: "E" LKC
INTERVAL : 3856.00 To 3880.00 ft TD 3880.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13754	13754	13248		
SI 30	Range(Psi)	7000.0	7000.0	4250.0	0.0	0.0
SF 15	Clock(hrs)	12 HR	12 HR	12 HR		
FS 0	Depth(ft)	3861.0	3861.0	3877.0	0.0	0.0

TIME DATA----------
PF Fr. 1550 to 1620 hr
IS Fr. 1620 to 1650 hr
SF Fr. 1650 to 1705 hr
FS Fr. to hr

	Field	1	2	3	4
A. Init Hydro	1986.0	1974.0	0.0	0.0	0.0
B. First Flow	29.0	10.0	0.0	0.0	0.0
B1. Final Flow	49.0	31.0	0.0	0.0	0.0
C. In Shut-in	324.0	308.0	0.0	0.0	0.0
D. Init Flow	49.0	37.0	0.0	0.0	0.0
E. Final Flow	49.0	38.0	0.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0
G. Final Hydro	1866.0	1823.0	0.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1420 hr
T ON BOTM 1545 hr
T OPEN 1550 hr
T PULLED 1705 hr
T OUT 1830 hr

RECOVERY
Tot Fluid 60.00 ft of 60.00 ft in DC and 0.00 ft in DP
60.00 ft of Watery mud 30% water 70% 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
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	1000.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	65000.00 lbs
Initial Str Wt	50000.00 lbs
Unseated Str Wt	50000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.50 in
D. Pipe ID	3.80 in
D.C. Length	248.00 ft
D.P. Length	0.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak, died in 25 min.
Final Flow:
Flushed tool, no help

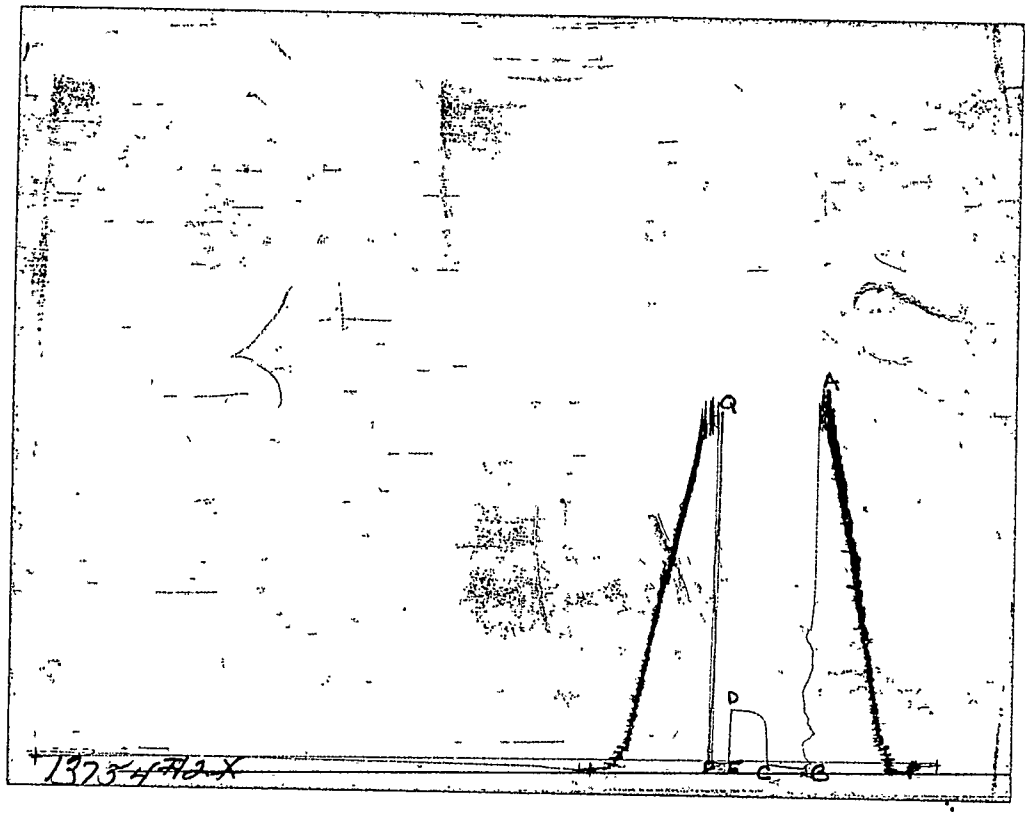
MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	50.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 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	Dan Bangle
Co. Rep.	Ron Nelson
Contr.	Mallard
Rig #	2
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



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

Well name: Nickelson #23-1

DST # 2

Recorder # 13754

1				
2	A	1.988	1974	
3	B	.011	10	
4	C	.032	31	
5	D	.313	308	
6	E	.038	37	
7	F	.039	38	
8	G	—	—	
9	H	1.842	1823	
10				
11				
12				

TRILOBITE TESTING L.L.C.

OPERATOR : Ron's Oil Operations Inc
WELL NAME: Nickelson #23-1
LOCATION : 23-9S-24W CO Graham KS
INTERVAL : 3910.00 To 3963.00 ft

DATE 1-8-98
KB 2468.00 ft
GR 2463.00 ft
TD 3963.00 ft

TICKET NO: 10427 DST #3
FORMATION: "H-I" LKC
TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	13754	13754	13248		
SI 30	Range(Psi)	7000.0	7000.0	4250.0	0.0	0.0
SF 10	Clock(hrs)	12 HR	12 HR	12 HR		
FS 0	Depth(ft)	3916.0	3916.0	3960.0	0.0	0.0

TIME DATA----------
PF Fr. 0745 to 0815 hr
IS Fr. 0815 to 0845 hr
SF Fr. 0845 to 0855 hr
FS Fr. to hr

	Field	1	2	3	4
A. Init Hydro	2016.0	2011.0	0.0	0.0	0.0
B. First Flow	39.0	45.0	0.0	0.0	0.0
B1. Final Flow	78.0	78.0	0.0	0.0	0.0
C. In Shut-in	246.0	242.0	0.0	0.0	0.0
D. Init Flow	88.0	87.0	0.0	0.0	0.0
E. Final Flow	88.0	84.0	0.0	0.0	0.0
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0
G. Final Hydro	1836.0	1800.0	0.0	0.0	0.0
Inside/Outside		O	O	I	

T STARTED 0630 hr
T ON BOTM 0740 hr
T OPEN 0745 hr
T PULLED 0855 hr
T OUT 1030 hr

RECOVERY
Tot Fluid 120.00 ft of 120.00 ft in DC and 0.00 ft in DP
60.00 ft of Heavily oil cut mud 20% oil 80% mud
60.00 ft of Heavily oil cut mud 40% oil 60% 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
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

Tool Wt.	1000.00 lbs
Wt Set On Packer	30000.00 lbs
Wt Pulled Loose	60000.00 lbs
Initial Str Wt	50000.00 lbs
Unseated Str Wt	50000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.50 in
D. Pipe ID	3.80 in
D.C. Length	120.00 ft
D.P. Length	0.00 ft

BLOW DESCRIPTION
Initial Flow:
weak died in 25 min.
Final Flow:
no blow, flushed tool, no help,

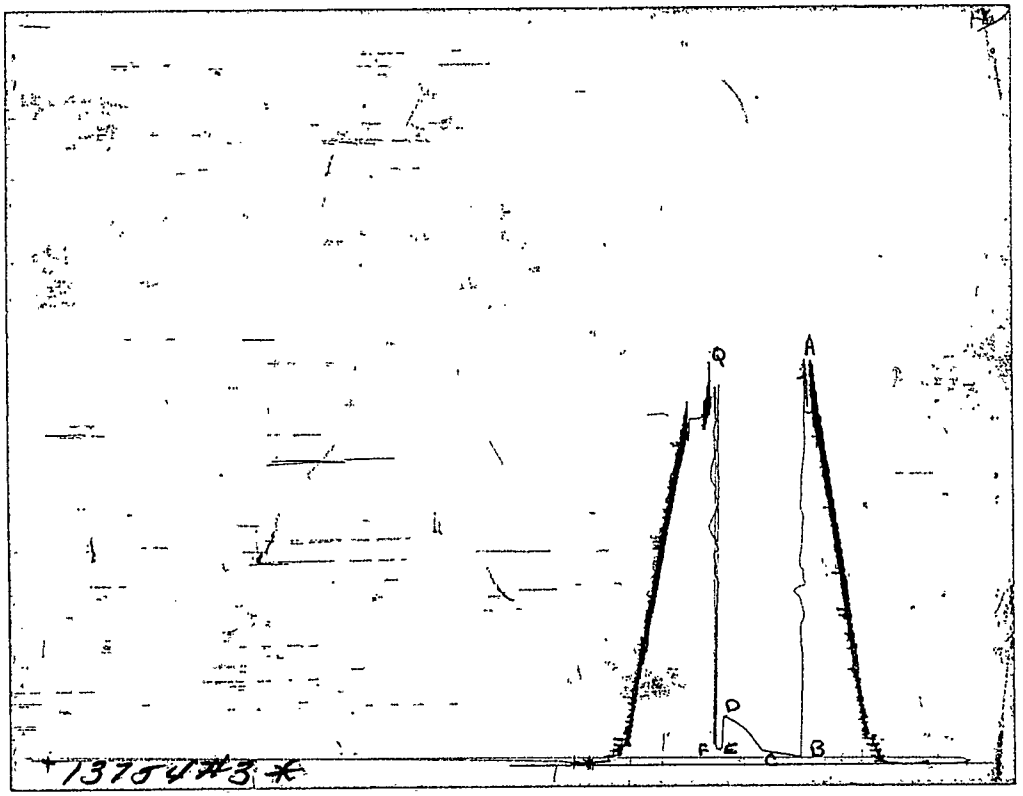
MUD DATA----------

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	48.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	108.00 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	Dan Bangle
Co. Rep.	Ron Nelson
Contr.	Mallard
Rig #	2
Unit #	
Pump T.	

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



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

Well name Nickelson

DST # 3

Recorder # 13754

1				
2	A	8.085	2011	
3	B	.046	45	
4	C	.080	78	
5	D	.246	242	
6	E	.089	87	
7	F	.086	84	
8	G	—		
9	H	1814	1805	
10				
11				
12				