WELL NAME:	Irwin #1-18
COMPANY:	Brito Oil Company
LOCATION:	18-12S-33W
	Logan County, Kansas
DATE:	4/1/98

TRILOBITE TESTING L.L.C.

OPERATOR : Brito Oil Company — DATE 3-24-98
WELL NAME: Irwin #1-18 — KB 3152.00 ft — TICKET NO: 11235 — DST #1
LOCATION : 18-12S-33W CO Logan KS — GR 3142.00 ft — FORMATION: Lansing/ KC 'A'
INTERVAL : 4064.00 To 4083.00 ft — TD 4083.00 ft — TEST TYPE: CONV

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	13339	13339	13276		
SI	30	Range(Psi)	7000.0	7000.0	4000.0	0.0	0.0
SF	30	Clock(hrs)	12	12	12		
FS	30	Depth(ft)	4078.0	4078.0	4073.0	0.0	0.0

TIME DATA----------
PF Fr. 1130 to 1200 hr
IS Fr. 1200 to 1230 hr
SF Fr. 1230 to 1300 hr
FS Fr. 1300 to 1330 hr

	Field	1	2	3	4
A. Init Hydro	1982.0	1978.0	0.0	0.0	0.0
B. First Flow	72.0	83.0	0.0	0.0	0.0
B1. Final Flow	72.0	84.0	0.0	0.0	0.0
C. In Shut-in	1100.0	1114.0	0.0	0.0	0.0
D. Init Flow	72.0	84.0	0.0	0.0	0.0
E. Final Flow	72.0	85.0	0.0	0.0	0.0
F. Fl Shut-in	1050.0	1092.0	0.0	0.0	0.0
G. Final Hydro	1962.0	1881.0	0.0	0.0	0.0
Inside/Outside	i	i	O		

T STARTED 0945 hr
T ON BOTM 1125 hr
T OPEN 1130 hr
T PULLED 1330 hr
T OUT 1500 hr

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

Tool Wt.	1800.00	lbs
Wt Set On Packer	30000.00	lbs
Wt Pulled Loose	80000.00	lbs
Initial Str Wt	48000.00	lbs
Unseated Str Wt	48000.00	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	4071.00	ft

RECOVERY
Tot Fluid 30.00 ft of 0.00 ft in DC and 30.00 ft in DP
30.00 ft of Drilling 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

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

Mud Type	Chemical	
Weight	9.10	lb/c
Vis.	43.00	S/L
W.L.	8.00	in3
F.C.	0.00	in
Mud Drop		
Amt. of fill	0.00	ft
Btm. H. Temp.	118.00	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	Rod Steinbrink	
Co. Rep.	Ken Dean	
Contr.	White & Ellis	
Rig #	9	
Unit #		
Pump T.		

BLOW DESCRIPTION
Initial Flow:
Slid tool 5', 2" surge blow died in 20 mins.
Final Flow:
Weak surface blow died in 10 mins.

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE

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

TRILOBITE TESTING L.L.C.

OPERATOR : Brito Oil Company
WELL NAME: Irwin #1-18
LOCATION : 18-12S-33W Co Logan KS
INTERVAL : 4090.00 To 4110.00 ft

DATE 3-25-98
KB 3152.00 ft
GR 3142.00 ft
TD 4110.00 ft

TICKET NO: 11236 DST #2
FORMATION: Lansing/ KC 'B'
TEST TYPE: CONV

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	13339	13339	13276		
SI	45	Range(Psi)	7000.0	7000.0	4000.0	0.0	0.0
SF	60	Clock(hrs)	12	12	12		
FS	60	Depth(ft)	4105.0	4105.0	4100.0	0.0	0.0

TIME DATA----------
PF Fr. 0153 to 0223 hr
IS Fr. 0223 to 0308 hr
SF Fr. 0308 to 0408 hr
FS Fr. 0408 to 0508 hr

	Field	1	2	3	4
A. Init Hydro	1942.0	1925.0	0.0	0.0	0.0
B. First Flow	20.0	19.0	0.0	0.0	0.0
B1. Final Flow	20.0	19.0	0.0	0.0	0.0
C. In Shut-in	1060.0	1062.0	0.0	0.0	0.0
D. Init Flow	31.0	38.0	0.0	0.0	0.0
E. Final Flow	41.0	38.0	0.0	0.0	0.0
F. Fl Shut-in	1000.0	999.0	0.0	0.0	0.0
G. Final Hydro	1922.0	1914.0	0.0	0.0	0.0
Inside/Outside	i	i	o		

T STARTED 0015 hr
T ON BOTM 0150 hr
T OPEN 0153 hr
T PULLED 0515 hr
T OUT 0715 hr

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

Tool Wt.	1800.00	lbs
Wt Set On Packer	30000.00	lbs
Wt Pulled Loose	60000.00	lbs
Initial Str Wt	48000.00	lbs
Unseated Str Wt	48000.00	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	4100.00	ft

RECOVERY
Tot Fluid 80.00 ft of 0.00 ft in DC and 80.00 ft in DP

80.00	ft of	water
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 30000.00 P.P.M. A.P.I. Gravity 0.00

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

Mud Type	Chemical	
Weight	9.20	lb/c
Vis.	45.00	S/L
W.L.	8.00	in3
F.C.	0.00	in
Mud Drop		
Amt. of fill	0.00	ft
Btm. H. Temp.	128.00	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	Rod Steinbrink	
Co. Rep.	Ken Dean	
Contr.	White & Ellis	
Rig #	9	
Unit #		
Pump T.		

BLOW DESCRIPTION
Initial Flow:
Surface blow built to 1/2"
Initial Shut-in:
No blow back
Final Flow:
Surface blow built to 1"
Final Shut-in:
No blow back

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE

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

TRILOBITE TESTING L.L.C.

OPERATOR : Brito Oil Company
WELL NAME: Irwin #1-18
LOCATION : 18-12W-33w Co Logan KS
INTERVAL : 4135.00 To 4156.00 ft

DATE 3-25-98
KB 3152.00 ft
GR 3142.00 ft
TD 4156.00 ft

TICKET NO: 11237 DST #3
FORMATION: Lansing/KC 'E'
TEST TYPE: CONV

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	13339	13339	13276		
SI	30	Range(Psi)	7000.0	7000.0	4000.0	0.0	0.0
SF	30	Clock(hrs)	12	12	12		
FS	30	Depth(ft)	4151.0	4151.0	4146.0	0.0	0.0

TIME DATA----------
PF Fr. 1650 to 1720 hr
IS Fr. 1720 to 1750 hr
SF Fr. 1750 to 1820 hr
FS Fr. 1820 to 1850 hr

	Field	1	2	3	4
A. Init Hydro	1982.0	1992.0	0.0	0.0	0.0
B. First Flow	20.0	24.0	0.0	0.0	0.0
B1. Final Flow	20.0	24.0	0.0	0.0	0.0
C. In Shut-in	1130.0	1133.0	0.0	0.0	0.0
D. Init Flow	31.0	41.0	0.0	0.0	0.0
E. Final Flow	31.0	31.0	0.0	0.0	0.0
F. Fl Shut-in	659.0	684.0	0.0	0.0	0.0
G. Final Hydro	1942.0	1940.0	0.0	0.0	0.0
Inside/Outside	i	i	o		

T STARTED 1530 hr
T ON BOTM 1645 hr
T OPEN 1650 hr
T PULLED 1850 hr
T OUT 2045 hr

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

Tool Wt.	1800.00	lbs
Wt Set On Packer	30000.00	lbs
Wt Pulled Loose	80000.00	lbs
Initial Str Wt	48000.00	lbs
Unseated Str Wt	48000.00	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	4133.00	ft

RECOVERY
Tot Fluid 20.00 ft of 0.00 ft in DC and 20.00 ft in DP
3.00 ft of Free Oil
17.00 ft of Mud with trace of oil
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

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

Mud Type	Chemcial	
Weight	0.00	lb/c
Vis.	0.00	S/L
W.L.	0.00	in3
F.C.	0.00	in
Mud Drop		
Amt. of fill	0.00	ft
Btm. H. Temp.	123.00	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	Rod Steinbrink	
Co. Rep.	Ken Dean	
Contr.	White & Ellis	
Rig #	9	
Unit #		
Pump T.		

BLOW DESCRIPTION
Initial Flow:
Weak surface blow steady throughout
Final Flow:
Weak surface return died in 15 mins.

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE

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

TRILOBITE TESTING L.L.C.

OPERATOR : Brito Oil Company
WELL NAME: Irwin #1-18
LOCATION : 18-12S-33W Co Logan KS
INTERVAL : 4207.00 To 4241.00 ft

DATE 3-26-98
KB 3152.00 ft
GR 3142.00 ft
TD 4241.00 ft

TICKET NO: 11238 DST #4
FORMATION: Lansing/KC 'H'
TEST TYPE: CONV

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	13339	13339	13276		
SI	45	Range(Psi)	7000.0	7000.0	4000.0	0.0	0.0
SF	60	Clock(hrs)	12	12	12		
FS	60	Depth(ft)	4236.0	4236.0	4231.0	0.0	0.0

TIME DATA----------
PF Fr. 0817 to 0847 hr
IS Fr. 0847 to 0932 hr
SF Fr. 0932 to 1032 hr
FS Fr. 1032 to 1132 hr

	Field	1	2	3	4
A. Init Hydro	2093.0	2084.0	0.0	0.0	0.0
B. First Flow	41.0	52.0	0.0	0.0	0.0
B1. Final Flow	41.0	52.0	0.0	0.0	0.0
C. In Shut-in	1261.0	1258.0	0.0	0.0	0.0
D. Init Flow	62.0	76.0	0.0	0.0	0.0
E. Final Flow	83.0	88.0	0.0	0.0	0.0
F. Fl Shut-in	1230.0	1236.0	0.0	0.0	0.0
G. Final Hydro	2043.0	2028.0	0.0	0.0	0.0
Inside/Outside	i	i	o		

T STARTED 0700 hr
T ON BOTM 0800 hr
T OPEN 0817 hr
T PULLED 1132 hr
T OUT 1315 hr

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

Tool Wt.	1800.00	lbs
Wt Set On Packer	30000.00	lbs
Wt Pulled Loose	80000.00	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	2.25	in
D. Pipe ID	3.80	in
D.C. Length	0.00	ft
D.P. Length	4194.00	ft

RECOVERY
Tot Fluid 130.00 ft of 0.00 ft in DC and 130.00 ft in DP

10.00	ft of	Free Oil
90.00	ft of	Oil and water cut mud
0.00	ft of	5% oil 45% water 50% mud
30.00	ft of	Slighty oil and water cut mud
0.00	ft of	10% water 90% mud Trace of oil
0.00	ft of	
0.00	ft of	
0.00	ft of	

SALINITY 44000.00 P.P.M. A.P.I. Gravity 0.00

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

Mud Type	Chemical	
Weight	9.30	lb/c
Vis.	47.00	S/L
W.L.	9.60	in3
F.C.	0.00	in
Mud Drop		
Amt. of fill	0.00	ft
Btm. H. Temp.	126.00	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	Rod Steinbrink	
Co. Rep.	Ken Dean	
Contr.	White & Ellis	
Rig #	9	
Unit #		
Pump T.		

BLOW DESCRIPTION
Initial Flow:
Surface blow slowly built to 4"
Initial Shut-in:
No blow back
Final Flow:
Surface blow slowly built to 4"
Final Shut-in:
No blow back

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE

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

TRILOBITE TESTING L.L.C.

OPERATOR : Brito Oil Company
WELL NAME: Irwin #1-18
LOCATION : 18-12S-33W Logan Ks
INTERVAL : 4247.00 To 4293.00 ft

DATE 3-27-98
KB 3152.00 ft
GR 3142.00 ft
TD 4293.00 ft

TICKET NO: 11239 DST #5
FORMATION: Lansing/KC I & J
TEST TYPE: CONV

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	13339	13339	13276		
SI	45	Range(Psi)	7000.0	7000.0	4000.0	0.0	0.0
SF	60	Clock(hrs)	12	12	12		
FS	60	Depth(ft)	4288.0	4288.0	4255.0	0.0	0.0

TIME DATA----------
PF Fr. 0143 to 0226 hr
IS Fr. 0226 to 0311 hr
SF Fr. 0311 to 0411 hr
FS Fr. 0411 to 0511 hr

	Field	1	2	3	4
A. Init Hydro	2123.0	212.0	0.0	0.0	0.0
B. First Flow	41.0	74.0	0.0	0.0	0.0
B1. Final Flow	104.0	113.0	0.0	0.0	0.0
C. In Shut-in	1220.0	1234.0	0.0	0.0	0.0
D. Init Flow	125.0	179.0	0.0	0.0	0.0
E. Final Flow	218.0	335.0	0.0	0.0	0.0
F. Fl Shut-in	1200.0	1211.0	0.0	0.0	0.0
G. Final Hydro	2043.0	2029.0	0.0	0.0	0.0
Inside/Outside	o	o	i		

T STARTED 2400 hr
T ON BOTM 0140 hr
T OPEN 0143 hr
T PULLED 0503 hr
T OUT 0700 hr

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

Tool Wt.	1800.00	lbs
Wt Set On Packer	30000.00	lbs
Wt Pulled Loose	60000.00	lbs
Initial Str Wt	50000.00	lbs
Unseated Str Wt	54000.00	lbs
Bot Choke	0.75	in
Hole Size	7.78	in
D Col. ID	2.25	in
D. Pipe ID	3.80	in
D.C. Length	0.00	ft
D.P. Length	4253.00	ft

RECOVERY
Tot Fluid 585.00 ft of 0.00 ft in DC and 585.00 ft in DP
150.00 ft of Gas in pipe
120.00 ft of Free oil
90.00 ft of Mud
375.00 ft of Water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 65000.00 P.P.M. A.P.I. Gravity 0.00

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

Mud Type	Chemical	
Weight	9.30	lb/c
Vis.	47.00	S/L
W.L.	9.60	in3
F.C.	0.00	in
Mud Drop		
Amt. of fill	0.00	ft
Btm. H. Temp.	132.00	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	Rod Steinbrink	
Co. Rep.	Ken Dean	
Contr.	White & Ellis	
Rig #	9	
Unit #		
Pump T.		

BLOW DESCRIPTION
Initial Flow:
Fair to strong blow off bottom in 11 1/2 mins.
Initial Shut-in:
Bled off blow, surface return built to 1/2"
Final Flow:
Fair to strong blow off bottom in 15 mins.
Final Shut-in:
Bled off blow, surface blow built to 1/2"

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE

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

TRILOBITE TESTING L.L.C.

OPERATOR : Brito Oil Company
WELL NAME: Irwin #1-18
LOCATION : 18-12S-33W Logan KS
INTERVAL : 4300.00 To 4324.00 m.

DATE 3-27-98
KB 3152.00 m. TICKET NO: 11240 DST #6
GR 3142.00 m. FORMATION: Lansing/KC K
TD 4324.00 m. TEST TYPE: CONV

RECORDER DATA

	Mins		Field	1	2	3	4
PF	30	Rec.	13339	13339	13276		
SI	45	Range(kPa)	7000.0	7000.0	4000.0	0.0	0.0
SF	45	Clock(hrs)	12	12	12		
FS	60	Depth(m.)	4319.0	4319.0	4314.0	0.0	0.0

TIME DATA----------
PF Fr. 1750 to 1820 hr
IS Fr. 1820 to 1905 hr
SF Fr. 1905 to 1950 hr
FS Fr. 1950 to 2050 hr

	Field	1	2	3	4
A. Init Hydro	2163.0	2145.0	0.0	0.0	0.0
B. First Flow	31.0	38.0	0.0	0.0	0.0
B1. Final Flow	62.0	63.0	0.0	0.0	0.0
C. In Shut-in	1070.0	1058.0	0.0	0.0	0.0
D. Init Flow	104.0	119.0	0.0	0.0	0.0
E. Final Flow	145.0	165.0	0.0	0.0	0.0
F. Fl Shut-in	979.0	976.0	0.0	0.0	0.0
G. Final Hydro	2073.0	2095.0	0.0	0.0	0.0
Inside/Outside	o	o	i		

T STARTED 1545 hr
T ON BOTM 1745 hr
T OPEN 1750 hr
T PULLED 2050 hr
T OUT 1800 hr

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

Tool Wt.	180.00 daN
Wt Set On Packer	30000.00 daN
Wt Pulled Loose	70000.00 daN
Initial Str Wt	50000.00 daN
Unseated Str Wt	50000.00 daN
Bot Choke	0.75 mm
Hole Size	7.78 mm
D Col. ID	2.25 mm
D. Pipe ID	3.80 mm
D.C. Length	0.00 m.
D.P. Length	4288.00 m.

RECOVERY
Tot Fluid 380.00 m. of 0.00 m. in DC and 380.00 m. in DP
380.00 m. of Sulpher water
0.00 m. of
0.00 m. of
0.00 m. of
0.00 m. of
0.00 m. of
0.00 m. of
0.00 m. of
SALINITY 60000.00 P.P.M. A.P.I. Gravity 0.00

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

Mud Type	Chemical
Weight	9.30 kg/m
Vis.	45.00 S/L
W.L.	9.60 cm3
F.C.	0.00 mm
Mud Drop	
Amt. of fill	0.00 m.
Btm. H. Temp.	130.00 C
Hole Condition	
% Porosity	0.00
Packer Size	6.75 mm
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Rod Steinbrink
Co. Rep.	Ken Dean
Contr.	White & Ellis
Rig #	9
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Weak to fair blow built to 11"
Initial Shut-in:
No return blow
Final Flow:
Weak to fair blow built to 9"
Final Shut-in:
No return blow

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE

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