TRILOBITE TESTING L.L.C.

OPERATOR : Northern Lights Oil Co. DATE 11-2-99
WELL NAME: Coberly #1 KB 2485.00 ft TICKET NO: 12060 DST #1
LOCATION : 22-15s-28w Gove co KS GR 2481.00 ft FORMATION: LKC "D"
INTERVAL : 3708.00 To 3740.00 ft TD 3740.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 30	Rec.	11085	11085	13547		
SI 45	Range(Psi)	4300.0	4300.0	4200.0	0.0	0.0
SF 30	Clock(hrs)	12	12	12		
FS 60	Depth(ft)	3711.0	3711.0	3714.0	0.0	0.0

TIME DATA----------
PF Fr. 1435 to 1505 hr
IS Fr. 1505 to 1550 hr
SF Fr. 1550 to 1620 hr
FS Fr. 1620 to 1720 hr

	Field	1	2	3	4
A. Init Hydro	1766.0	1756.0	0.0	0.0	0.0
B. First Flow	121.0	132.0	0.0	0.0	0.0
B1. Final Flow	319.0	321.0	0.0	0.0	0.0
C. In Shut-in	1060.0	1057.0	0.0	0.0	0.0
D. Init Flow	407.0	403.0	0.0	0.0	0.0
E. Final Flow	495.0	500.0	0.0	0.0	0.0
F. Fl Shut-in	1060.0	1057.0	0.0	0.0	0.0
G. Final Hydro	1766.0	1756.0	0.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1245 hr
T ON BOTM 1430 hr
T OPEN 1435 hr
T PULLED 1720 hr
T OUT 2005 hr

RECOVERY
Tot Fluid 1010.00 ft of 240.00 ft in DC and 770.00 ft in DP
90.00 ft of Muddy water 75% water 25% mud
920.00 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
SALINITY 92000.00 P.P.M. A.P.I. Gravity 0.00

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	85000.00 lbs
Initial Str Wt	53000.00 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	240.00 ft
D.P. Length	3448.00 ft

BLOW DESCRIPTION
Initial Flow:
Weak building to a strong blow in 4 1/2 mins.
Initial Shut-in:
Weak surface blow
Final Flow:
Weak building to a strong blow in 6 mins.
Final Shut-in:
Weak surface blow

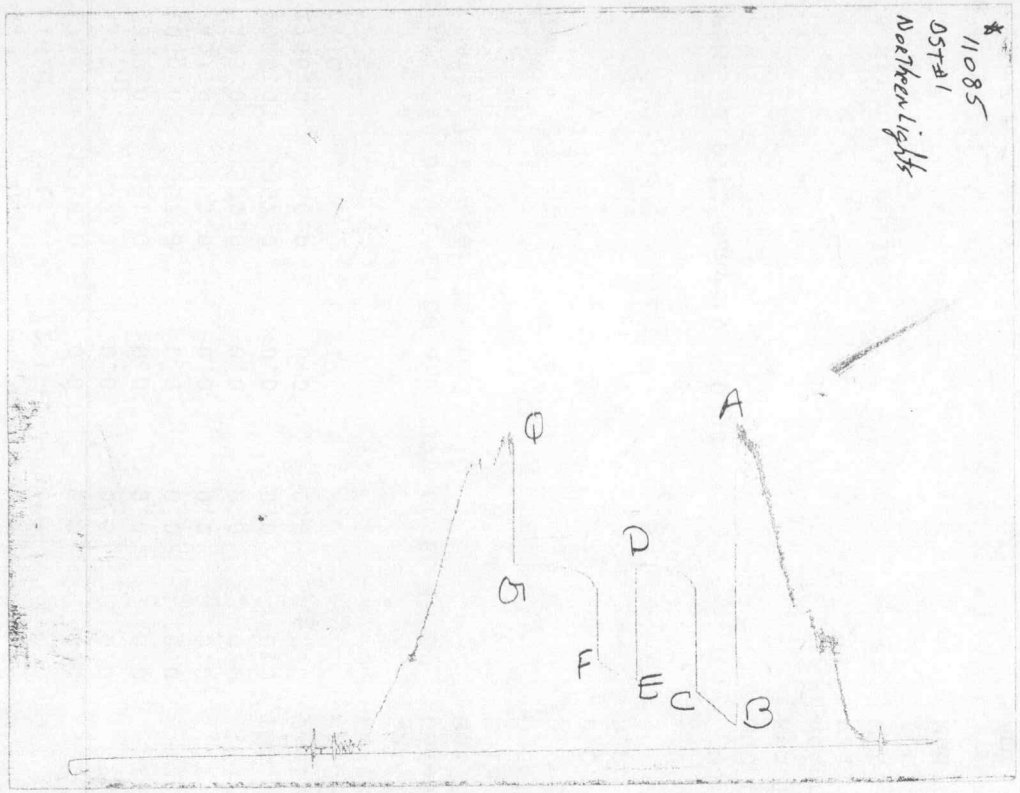
MUD DATA----------

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	42.00 S/L
W.L.	11.20 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	Ray Schwager
Co. Rep.	Kurt Smith
Contr.	Mallard
Rig #	1
Unit #	
Pump T.	

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 : Northern Lights Oil Co. DATE 11-3-99
WELL NAME: Coberly #1 KB 2485.00 ft TICKET NO: 12061 DST #2
LOCATION : 22-15s-28w Gove co KS GR 2481.00 ft FORMATION: LKC "L"
INTERVAL : 3948.00 To 3985.00 ft TD 3985.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4
PF 45	Rec.	11085	11085	13547		
SI 45	Range(Psi)	4300.0	4300.0	4200.0	0.0	0.0
SF 45	Clock(hrs)	12	12	12		
FS 60	Depth(ft)	3950.0	3950.0	3953.0	0.0	0.0

TIME DATA----------
PF Fr. 2058 to 2143 hr
IS Fr. 2143 to 2228 hr
SF Fr. 2228 to 2313 hr
FS Fr. 2313 to 0013 hr

	Field	1	2	3	4
A. Init Hydro	1874.0	1865.0	0.0	0.0	0.0
B. First Flow	88.0	103.0	0.0	0.0	0.0
B1. Final Flow	253.0	246.0	0.0	0.0	0.0
C. In Shut-in	952.0	957.0	0.0	0.0	0.0
D. Init Flow	308.0	318.0	0.0	0.0	0.0
E. Final Flow	396.0	396.0	0.0	0.0	0.0
F. Fl Shut-in	952.0	957.0	0.0	0.0	0.0
G. Final Hydro	1842.0	1842.0	0.0	0.0	0.0
Inside/Outside	O	O	I		

T STARTED 1958 hr
T ON BOTM 2050 hr
T OPEN 2058 hr
T PULLED 0013 hr
T OUT 0325 hr

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

Tool Wt.	2000.00 lbs
Wt Set On Packer	20000.00 lbs
Wt Pulled Loose	62000.00 lbs
Initial Str Wt	53000.00 lbs
Unseated Str Wt	57000.00 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	240.00 ft
D.P. Length	3688.00 ft

RECOVERY
Tot Fluid 785.00 ft of 240.00 ft in DC and 345.00 ft in DP
5.00 ft of Clean oil
180.00 ft of Slight oil and gas cut muddy water
0.00 ft of 3% gas 1% oil 76% water 20% mud
600.00 ft of Water
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 36000.00 P.P.M. A.P.I. Gravity 0.00

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

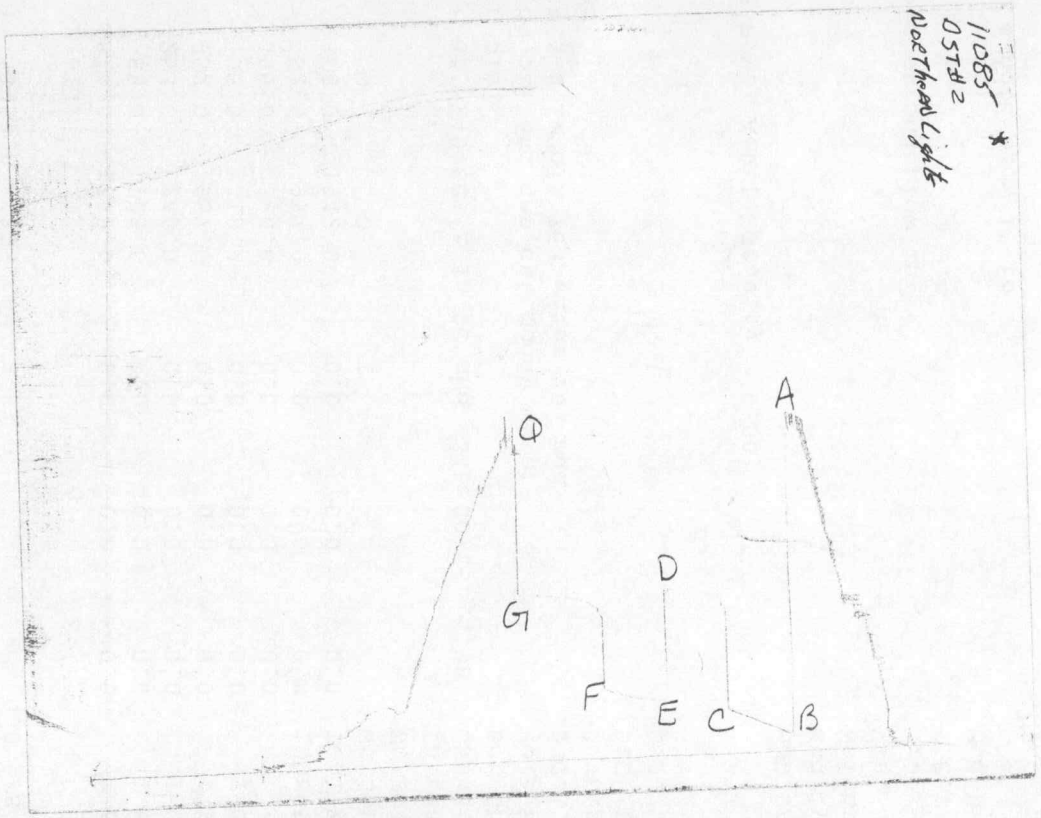
Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	45.00 S/L
W.L.	12.00 in3
F.C.	0.00 in
Mud Drop	
Amt. of fill	0.00 ft
Btm. H. Temp.	113.00 F
Hole Condition	
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out	
Tool Chased	
Tester	Ray Schwager
Co. Rep.	Kurt Smith
Contr.	Mallard
Rig #	1
Unit #	
Pump T.	

BLOW DESCRIPTION
Initial Flow:
Weak building to a strong blow in 15 mins.
Final Flow:
Weak building to a good blow 1" to 8" blow

SAMPLES:
SENT TO:

Test Successful: Y

CHART PAGE



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