

15-129-21576

ORIGINAL

CONFIDENTIAL

KCC
MAR 02 1999
CONFIDENTIAL

Well Name: Breeding 1-715
Company: Harris Oil and Gas
Location: 15-32s-40w
Morton County Kansas
Date: 1-11-99

RECEIVED
STATE CORPORATION COMMISSION
RELEASED
MAR - 5 1999
MAR 02 2000
CONSERVATION DIVISION
Wichita, Kansas
FROM CONFIDENT

*** TOOL DIAGRAM *** CONV.

WELL NAME: Breeding 1-715

LOCATION : 15-32-40

WELL NO. 11646 D.S.T. No. 1 DATE 12-28-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 27

TOTAL TOOL 54

WELL COLLAR ANCHOR IN INTERVAL

C. ANCHOR STANDS Single Total

P. ANCHOR STANDS Single 1 Total 31

TOTAL ASSEMBLY 85

C. ABOVE TOOLS STANDS 9 Single Total 552

P. ABOVE TOOLS STANDS 43 Single Total 2681

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 3318

TOTAL DEPTH 3298

TOTAL DRILL PIPE ABOVE K.B. 20

MARKS:

P.O. SUB	
C.O. SUB 1'	3212
S.I. TOOL 5'	3218
HMV 5'	3223
JARS 5'	3228
SAFETY JOINT 2'	3230
PACKER top	3235
PACKER bottom	3240
DEPTH 3240	
STUBB 1'	3241
ANCHOR 19' perf	3260
1' c.o.	3261
alpine recorder	3261
31' drillpipe	3292
T.C. DEPTH	
1' c.o.	3293
ak-1 recorder	3293
BULLNOSE 5' bullplug	3298
T.D.	3298

3298 1' c.o.

3293 ak-1 recorder

3293 1' c.o.

BULLNOSE 5' bullplug

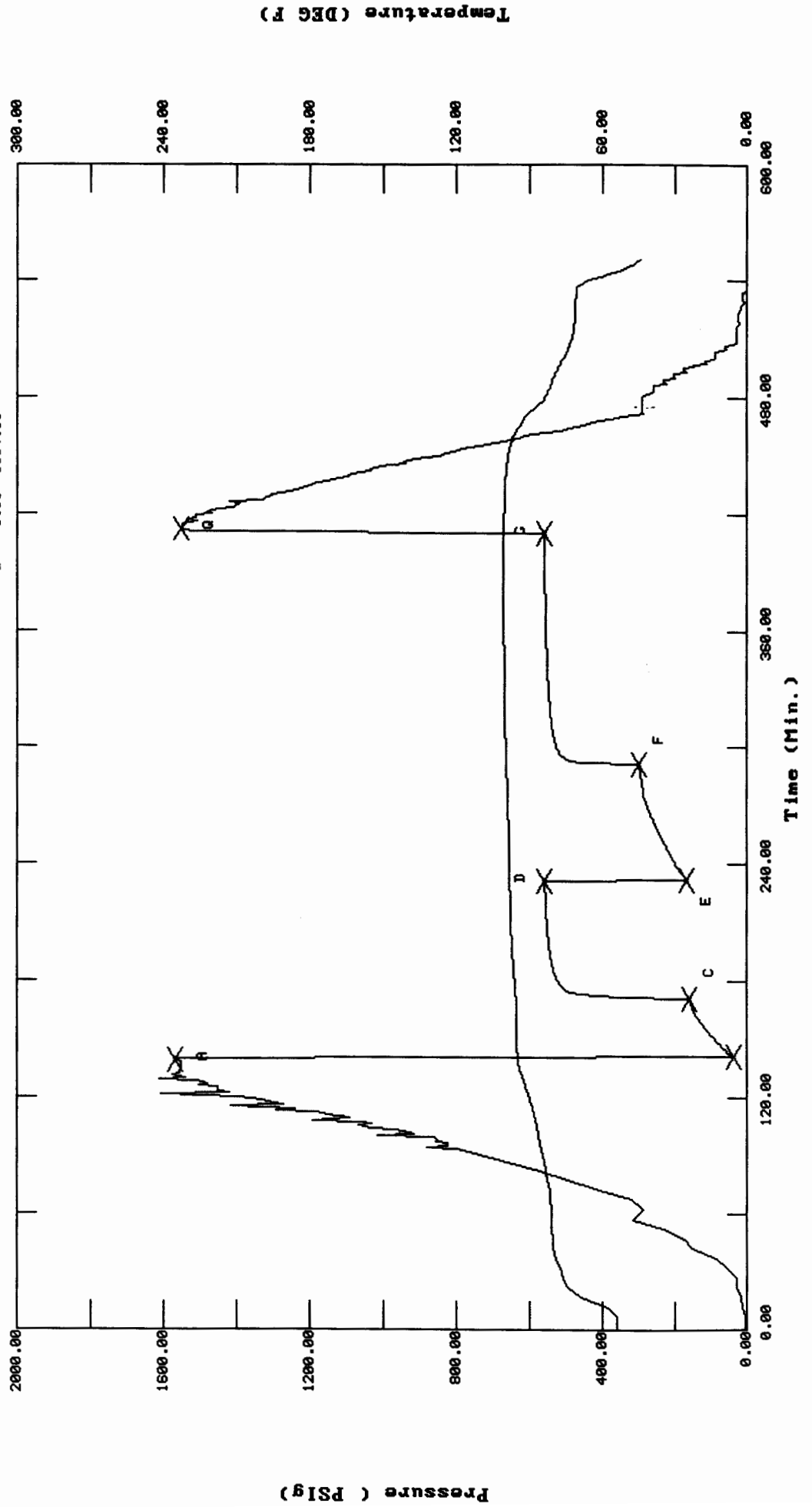
T.D.

TEST HISTORY

11646 DST #1 Breeding #1-715 Harris Oil & Gas

Flag Points

	t (Min.)	P (PSig)
A:	0.00	1567.30
B:	0.00	35.95
C:	30.00	160.04
D:	60.00	557.70
E:	0.00	167.81
F:	59.00	298.81
G:	119.00	559.89
Q:	0.00	1554.10



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

No 11646

Test Ticket

Well Name & No. <u>Breeding #1-715</u>		Test No. <u>1</u>	Date <u>12-28-98</u>
Company <u>Harris Oil & Gas</u>		Zone Tested _____	
Address <u>Box 1125, 17th St, Suite 2290, Denver, Colo, 80202</u>		Elevation <u>3334'</u>	KB <u>3324'</u> GL
Co. Rep/Geo. <u>Dan Sommer</u>	Cont. <u>Ahben #2</u>	Est. Ft. of Pay _____	Por. _____ %
Location: Sec. _____	Twp. _____	Rge. _____	Co. <u>Morton</u> State <u>K5</u>
No. of Copies <u>Norm.</u>	Distribution Sheet (Y, N) _____	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) _____

Interval Tested <u>3240'</u>	<u>3298'</u>	Initial Str Wt./Lbs. <u>76,000</u>	Unseated Str Wt./Lbs. <u>79,000</u>
Anchor Length _____	<u>58'</u>	Wt. Set Lbs. <u>26,000</u>	Wt. Pulled Loose/Lbs. <u>88,000</u>
Top Packer Depth _____	<u>3235'</u>	Tool Weight <u>5,000</u>	
Bottom Packer Depth _____	<u>3240'</u>	Hole Size — <u>7 7/8"</u> ✓	Rubber Size — <u>6 3/4"</u> ✓
Total Depth _____	<u>3298'</u>	Wt. Pipe Run _____	Drill Collar Run <u>552'</u>
Mud Wt. <u>9.1</u> LCM <u>2</u> Vis. <u>43</u> WL <u>9.2</u>		Drill Pipe Size <u>4 1/2 XH</u>	Ft. Run <u>2712'</u>
Blow Description <u>1/4" @ open, built to 11" in.</u>			
<u>Bleed off for 1/2 min - No return.</u>			
<u>Weak surface blow in 3 min, built to 10" in.</u>			
<u>Bleed off for 1 min, No return.</u>			

Recovery — Total Feet <u>572</u>	GIP _____	Ft. in DC <u>552'</u>	Ft. in DP <u>20'</u>
Rec. <u>90'</u>	Feet Of <u>slightly Water Cut Mud</u>	%gas _____	%oil _____
Rec. <u>120</u>	Feet Of <u>Watery Mud</u>	%gas _____	%oil _____
Rec. <u>120</u>	Feet Of <u>muddy Water</u>	%gas _____	%oil _____
Rec. <u>242</u>	Feet Of <u>Water</u>	%gas _____	%oil _____
Rec. _____	Feet Of _____	%gas _____	%oil _____
BHT <u>100°</u>	°F Gravity _____	°API D@ _____	°F Corrected Gravity _____
RW <u>.39</u>	@ <u>55</u> °F	Chlorides <u>28,000</u> ppm	Recovery Chlorides <u>1400</u> ppm System

(A) Initial Hydrostatic Mud	<u>1567</u>	<u>1565</u>	PSI Recorder No. <u>2347</u>	T-On Location <u>15:45 P.M.</u>
(B) First Initial Flow Pressure	<u>35</u>	<u>77</u>	PSI (depth) <u>3261'</u>	T-Started <u>17:50 P.M.</u>
(C) First Final Flow Pressure	<u>160</u>	<u>155</u>	PSI Recorder No. <u>11058</u>	T-Open <u>20:10 P.M.</u>
(D) Initial Shut-in Pressure	<u>557</u>	<u>556</u>	PSI (depth) <u>3293'</u>	T-Pulled <u>12:40 A.M.</u>
(E) Second Initial Flow Pressure	<u>167</u>	<u>200</u>	PSI Recorder No. _____	T-Out <u>03:25 A.M.</u>
(F) Second Final Flow Pressure	<u>298</u>	<u>300</u>	PSI (depth) _____	T-Off Location _____
(G) Final Shut-in Pressure	<u>559</u>	<u>556</u>	PSI Initial Opening <u>30</u>	Test <u>x</u> <u>600</u>
(Q) Final Hydrostatic Mud	<u>1554</u>	<u>1554</u>	PSI Initial Shut-in <u>60</u>	Jars <u>x</u> <u>200</u>
			Final Flow <u>60</u>	Safety Joint <u>x</u> <u>50</u>
			Final Shut-in <u>120</u>	Straddle _____
				Circ. Sub <u>x</u> <u>N/C</u>
				Sampler _____
				Extra Packer _____
				Elec. Rec. <u>x</u> <u>150</u>
				Mileage _____
				Other _____
				TOTAL PRICE \$ <u>1000</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 [Signature]
 Our Representative [Signature]

TRILOBITE TESTING L.L.C.

OPERATOR : Harris Oil & Gas Co.

DATE 1-4-99

WELL NAME: Breeding "1-715"

KB 3340.00 ft TICKET NO: 10998 DST #2

LOCATION : 15-32S-40W Morton co. KS

GR 3329.00 ft FORMATION: Keyes

INTERVAL : 5420.00 To 5570.00 ft

TD 5693.00 ft TEST TYPE: CONV-STRADDLE

RECORDED DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 105 Rec.	10242	10242	Alpine	13630		PF Fr. 2315 to 0020 hr
SI 0 Range (Psi)	4100.0	4100.0	5000.0	4625.0	0.0	IS Fr. to hr
SF 0 Clock (hrs)	12 HR	12 HR	12 HR	12 HR		SF Fr. to hr
FS 0 Depth (ft)	5564.0	5564.0	5422.0	5690.0	0.0	FS Fr. to hr

	Field	1	2	3	4	
A. Init Hydro	2761.0	2774.0	2647.0	0.0	0.0	T STARTED 2110 hr
B. First Flow	149.0	158.0	30.0	0.0	0.0	T ON BOTM 2312 hr
B1. Final Flow	149.0	158.0	66.0	0.0	0.0	T OPEN 2315 hr
C. In Shut-in	0.0	0.0	0.0	0.0	0.0	T PULLED 0230 hr
D. Init Flow	0.0	0.0	0.0	0.0	0.0	T OUT 0815 hr
E. Final Flow	0.0	0.0	0.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	0.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2725.0	2731.0	2582.0	0.0	0.0	Tool Wt. 5300.00 lbs
Inside/Outside	O	O	I	S		Wt Set On Packer 40000.00 lbs
						Wt Pulled Loose 20000.00 lbs
						Initial Str Wt 91000.00 lbs
						Unseated Str Wt 100000.00 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 552.00 ft
						D.P. Length 4867.00 ft

RECOVERY

Tot Fluid	60.00 ft of	60.00 ft in DC and	0.00 ft in DP
60.00	ft of 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 920.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:

Weak 1/2" built to 3 1/4" in 30 mins.

Would not rotate. Tried pulling loose. Wall-stuck. Dropped bar after 1 hr. 5 min. flow period. Cir. mud, wait on oil. Oil arrived about 3:30 A.M. Spotted 60 bbl. At 1:15 pm. spotted another 70 bbl. Di-alog out at 5:00 pm. Wall-stuck 90 ft. above tool. Backed off, came out of hole, picked up jars, went back in & jarred loose. 2:30 AM. 1-6-99.

SAMPLES: None

SENT TO:

MUD DATA-----	
Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	51.00 S/L
W.L.	8.20 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	135.00 F
Hole Condition	Sticky
% Porosity	18.00
Packer Size	6.75 in
No. of Packers	4
Cushion Amt.	0.00
Cushion Type	
Reversed Out Y	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Tommy Diseker
Contr.	Allen
Rig #	2
Unit #	
Pump T.	

Test Successful: N

*** TOOL DIAGRAM *** CONV-STRADDLE

ELL NAME: Breeding "1-715"

LOCATION : 15-32S-40W

TICKET No. 10998 D.S.T. No. 2 DATE 1-4-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 30

TOTAL TOOL TO BOTTOM OF TOP PACKERS AND ANCHOR 25

TOTAL TOOL 85

DRILL COLLAR ANCHOR IN INTERVAL

.C. ANCHOR STND.	Stands	Single	Total
.P. ANCHOR STND.	3 Stands	1 Single	1 Total 218

TOTAL ASSEMBLY 303

.C. ABOVE TOOLS.	Stands	9 Single	Total 552
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.P. ABOVE TOOLS.	Stands	78 Single	Total 4867
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5722

TOTAL DEPTH 5693

TOTAL DRILL PIPE ABOVE K.B. 29

REMARKS:

FLUID SAMPLER DATA

Total Vol.	5000 ML.
Total Vol. Rec.	5000 ML.
Oil	0 ML.
Mud	5000 ML.
Wtr.	0 ML.
Gas	0 CF.
Psi.	30
Bht.	135 F.
Pit RW. 7.5	Ohms at 55 F. 900 PPM.
Rec RW. 7.2	Ohms at 57 F. 920 PPM.
Gravity ---	at -- F.

P.O. SUB Cir. sub	5330
C.O. SUB Top of tool	5390
Double pin	5391
S.I. TOOL H&T	5396
Sampler	5399
HMV Sterling	5404
JARS Bowen	5409
SAFETY JOINT Bowen	5411
PACKER Sparton	5416
PACKER Shale	5420
DEPTH	
STUBB Rec. sub	5422
ANCHOR Alpine	5422
Pu. sub	5427
8 ft. perfs	5435
Co. sub	5436
2 stds DP	5561
Co. sub	5562
AK-1	5564
Pu. sub	5567
Blank	5567
3 ft. of packer	5570
T.C.	
DEPTH	
PACKER Sparton "Center"	5570
2 ft. of packer	5572
PACKER Shale	5577
19 ft. perfs	5596
Co. sub	5597
1 std 1 single DP	5690
AK-1	5690
Co. sub	5691
BULLNOSE 2 ft. perf	
T.D.	5693

TEST HISTORY

10998 D.S.T.#2 Breeding "1-715" Harris Oil & Gas Corp.

Flag Points

t(Min.)	PX PSIG
A: 0.00	2647.04
B: 0.00	43.72
C: 62.50	66.73
Q: 0.00	2582.52

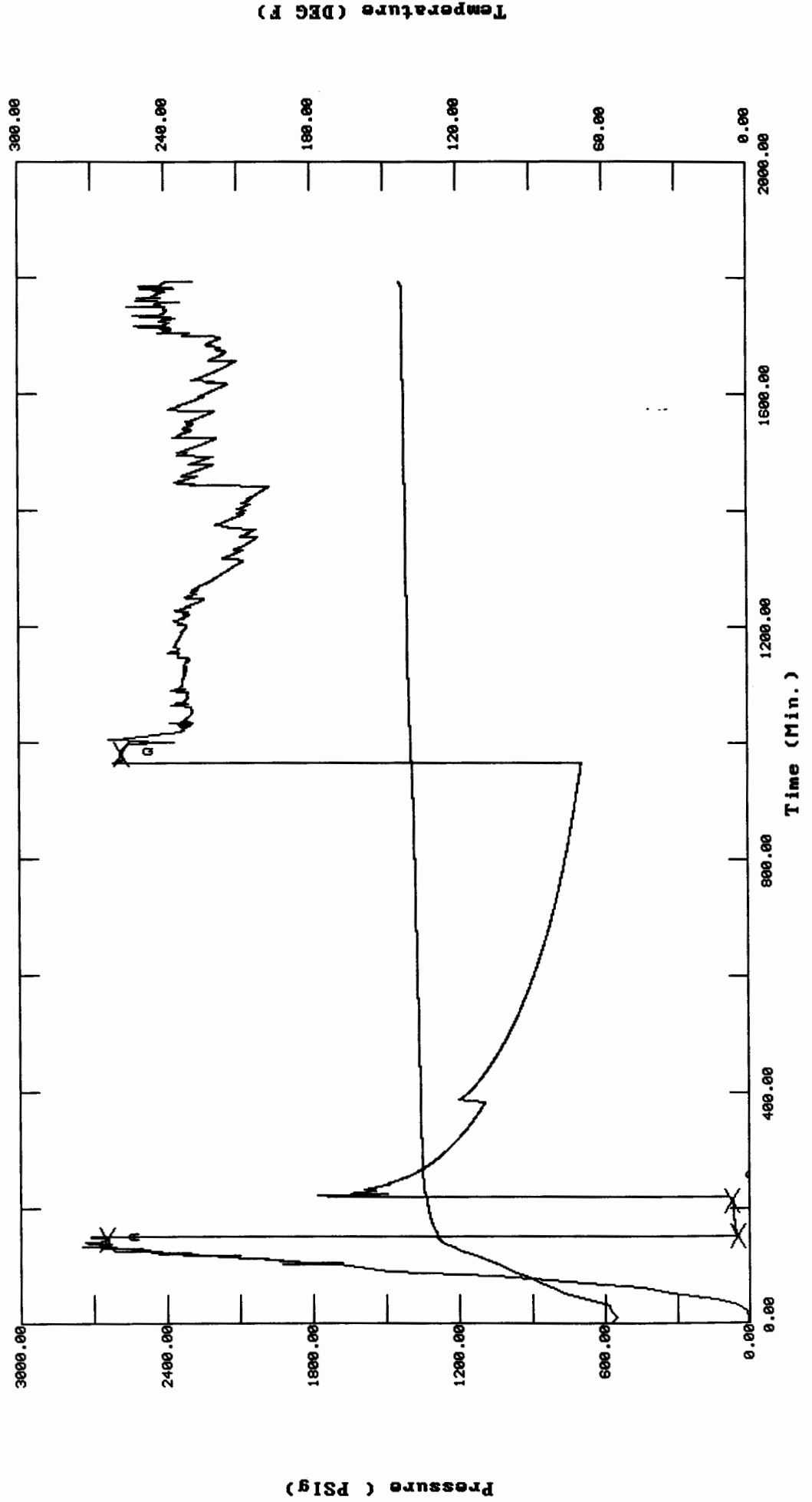
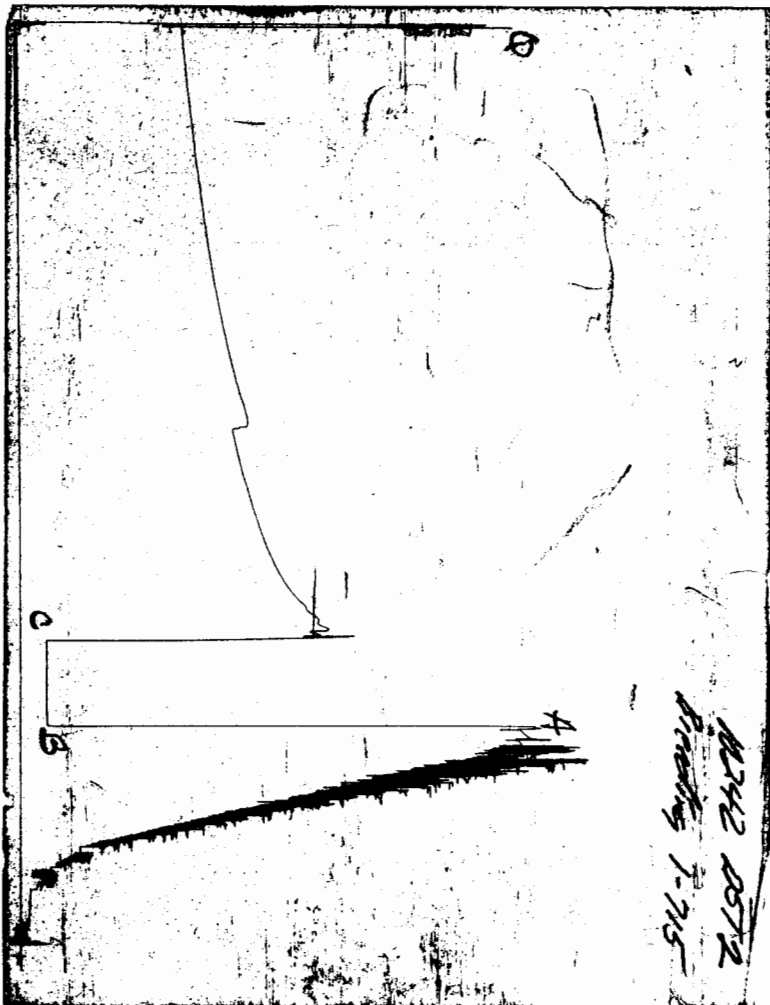
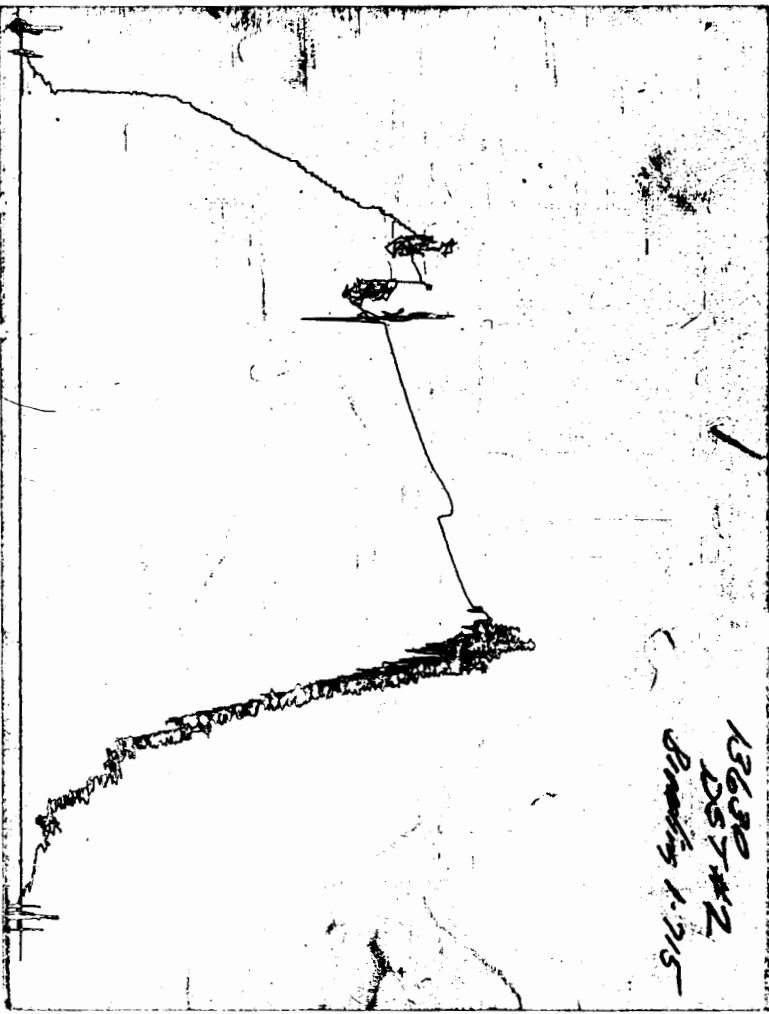


CHART PAGE



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

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

FLUID SAMPLER DATA

Ticket No. 10998 Date 1-4 to 1-6-98
Company Name Harris Oil & Gas
Lease Bleeding "1-715" Test No. 2
County Morton Ks. Sec. 15 Twp. 32S Rng. 40W

SAMPLER RECOVERY

Gas 0 G.F. ML
Oil 0 ML
Mud 5000 ML
Water 0 ML
Other 0 ML
Pressure 30 PSI
Total Vol. Rec. = 5000 ML
Total Vol. of chamber 5000 ML.

SAMPLER ANALYSIS

Resistivity 7.2 ohms @ 57 F
Chlorides 920 ppm.
Gravity — corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 900 ppm.
Resistivity 7.5 ohms @ 55 F
Viscosity 51
Mud Weight 9.1
Filtrate 8.2
Other 5# L.C.M.

PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.
MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.
BOTTOM
Resistivity 7.2 ohms @ 57 F
Chlorides 920 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10998

Well Name & No. <u>Breeding "1-715"</u>	Test No. <u>2</u>	Date <u>1-4-99</u>
Company <u>Harris Oil & Gas Co.</u>	Zone Tested <u>Keyes</u>	
Address <u>Denver Cab. 80202</u>	Elevation <u>3340</u> KB <u>3329</u> GL	
Co. Rep / Geo. <u>Tommy Discker</u>	Cont. <u>Allen Rig 2</u>	Est. Ft. of Pay <u>21</u> Por. <u>18%</u>
Location: Sec. <u>15</u>	Twp. <u>32 S</u>	Rge. <u>40 W</u> Co. <u>Martin</u> State <u>KS</u>
No. of Copies <u>Req</u> Distribution Sheet (Y, N) <u>Harris</u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) _____

Interval Tested 5420-5570 Initial Str Wt./Lbs. 91000 Unseated Str Wt./Lbs. 100000
 Anchor Length 150' Test=123' Test=30' Wt. Set Lbs. 40000 Wt. Pulled Loose/Lbs. 20000
 Top Packer Depth 5415 S-Packer 5570 Tool Weight 5,300
 Bottom Packer Depth 5420 S-Packer 5575 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Total Depth 5693 Wt. Pipe Run _____ Drill Collar Run 552
 Mud Wt. 9.1 LCM 5# Vis. 51 WL 8.2 Drill Pipe Size 4 1/2 XH Ft. Run 4867 29' up

Blow Description Went 1/2", built to 3 1/4" in 30 min. I.F.P.
Wanted not rotate "Well-Struck"
Dropped bar at 12:20. Circ. end, was an oil. Oil arrived about
3:30 AM. Spilled oil + wait 60 bbl. + 70 bbl. Got off, and back in, Jarsed la

Recovery — Total Feet <u>60</u>	GIP _____	Ft. in DC <u>+60</u>	Ft. in DP <u>0</u>
Rec. <u>60</u> Feet Of <u>Mud</u>	%gas _____	%oil _____	%water <u>100</u> %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT 135° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API

RW 7.2 @ 57 °F Chlorides 920 ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud <u>2761</u> <u>2647</u> PSI	Recorder No. <u>3017</u> <u>20=47</u> T-Started <u>9:10 P.M.</u>
(B) First Initial Flow Pressure <u>149</u> <u>43</u> PSI	(depth) <u>5422</u> T-Open <u>11:15 P.M.</u>
(C) First Final Flow Pressure <u>149</u> <u>66</u> PSI	Recorder No. <u>10242</u> T-Pulled <u>2:30 A.M. 1-6'</u>
(D) Initial Shut-in Pressure _____ _____ PSI	(depth) <u>5564</u> T-Out <u>8:15 A.M.</u>
(E) Second Initial Flow Pressure _____ _____ PSI	Recorder No. <u>13630</u>
(F) Second Final Flow Pressure _____ _____ PSI	(depth) <u>5690</u>
(G) Final Shut-in Pressure _____ _____ PSI	Initial Opening <u>105</u> Test <u>1</u>
(H) Final Hydrostatic Mud <u>2725</u> <u>2582</u> PSI	Initial Shut-in <u>Dropped Bar</u> Jars <u>1</u>

10492047017

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Approved By Richard Stevenson
 Our Representative Tommy Discker

2 Extra Packer /
 Elect. Rec. /
 2 Stroke Other Test 1
 TOTAL PRICE \$ _____

TRILOBITE TESTING L.L.C.

OPERATOR : Harris Oil & Gas Co.

DATE 1-6-99

WELL NAME: Breeding "1-715"

KB 3340.00 ft

TICKET NO: 10999

DST #3

LOCATION : 15-32S-40W Morton co.KS

GR 3329.00 ft

FORMATION: Keyes

INTERVAL : 5415.00 To 5570.00 ft

TD 5693.00 ft

TEST TYPE: CONV-SRADDLE

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 15	Rec.	10242	10242	Alpine	13630		PF Fr. 1955 to 2010 hr
SI 60	Range(Psi)	4100.0	4100.0	5000.0	4625.0	0.0	IS Fr. 2010 to 2110 hr
SF 60	Clock(hrs)	12 HR	12 HR	12 HR	12 HR		SF Fr. 2110 to 2210 hr
FS 120	Depth(ft)	5564.0	5564.0	5417.0	5690.0	0.0	FS Fr. 2210 to 0010 hr

	Field	1	2	3	4	
A. Init Hydro	2550.0	2576.0	2463.0	0.0	0.0	T STARTED 1720 hr
B. First Flow	144.0	175.0	45.0	0.0	0.0	T ON BOTM 1953 hr
B1. Final Flow	149.0	176.0	59.0	0.0	0.0	T OPEN 1955 hr
C. In Shut-in	245.0	271.0	175.0	0.0	0.0	T PULLED 0010 hr
D. Init Flow	158.0	182.0	66.0	0.0	0.0	T OUT 0515 hr
E. Final Flow	165.0	182.0	76.0	0.0	0.0	
F. Fl Shut-in	282.0	313.0	220.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2543.0	2554.0	2447.0	0.0	0.0	Tool Wt. 5300.00 lbs
Inside/Outside	0	0	I	S		Wt Set On Packer 40000.00 lbs
						Wt Pulled Loose 28000.00 lbs
						Initial Str Wt 92000.00 lbs
						Unseated Str Wt 92000.00 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 506.00 ft
						D.P. Length 4896.00 ft

RECOVERY

Tot Fluid 120.00 ft of 120.00 ft in L. Mud 0.00 ft in DP
 590.00 ft of Gas in pipe
 120.00 ft of Oil & Gas cut Mud 8%Gas 7%Oil 85%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 900.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	8.70 lb/c
Vis.	75.00 S/L
W.L.	5.40 in3
F.C.	0.00 in
Mud Drop Y	10.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	134.00 F
Hole Condition	Good
% Porosity	18.00
Packer Size	6.75 in
No. of Packers	4
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Lanny Saloga
Co. Rep.	Tommy Diseker
Contr.	Allen
Rig #	2
Unit #	
Pump T.	

BLOW DESCRIPTION

Initial Flow:
 Weak 1" built to 2 1/4" in
 8 minutes. Stabilized
 Initial Shutin:
 No blow back
 Final Flow:
 Surface blow built to 4" in 60 min
 Final Shutin:
 No blow back
 Remark: Had 492' drill collars plus
 Weatherfords Jars & subs 14'
 Total 506'. Ran jars 120' above
 tool. At 5295'

SAMPLES: None

SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV-SRADDLE

WELL NAME: Breeding "1-715"

LOCATION : 15-32S-40W

TICKET No. 10999 D.S.T. No. 3 DATE 1-6-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 30

BOTTOM PACKERS AND ANCHOR 30

TOTAL TOOL 90

DRILL COLLAR ANCHOR IN INTERVAL

.C. ANCHOR STND.Stands Single Total

.P. ANCHOR STND.Stands 3 Single 1 Total 218

TOTAL ASSEMBLY 308

.C. ABOVE TOOLS.Stands 8 Single Total 506

.P. ABOVE TOOLS.Stands 78 Single 1 Total 4896

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5710

TOTAL DEPTH 5693

TOTAL DRILL PIPE ABOVE K.B. 17

REMARKS:

FLUID SAMPLER DATA

Total Vol. 5000 ML.

Total Vol. Rec. 1800 ML.

Oil 90 ML.

Mud 1710 ML.

Wtr. 0 ML.

Gas 2.7 CF.

Psi. 180

ght. 134 F.

Pit RW. 8.0 Ohms at 53 F. 900 PPM.

Rec RW. 8.6 Ohms at 49 F. 900 PPM.

Gravity -- at -- F.

P.O. SUB Cir. sub	5355
C.O. SUB Top of tool	5385
Double pin	5386
S.I. TOOL H&T	5391
Sampler	5394
HMV Sterling	5399
JARS Bowen	5404
SAFETY JOINT Bowen	5406
PACKER Sparton	5411
PACKER Shale	5415
DEPTH	
STUBB Rec. sub	5417
ANCHOR Alpine	5417
Pu. sub	5422
13 ft. perfs	5435
Co. sub	5436
2 stds DP	5561
Co. sub	5562
AK-1	5564
Pu. sub	5567
Blank	5567
3 ft. of packer	5570
T.C.	
DEPTH	
PACKER Sparton "Center"	5570
2 ft. of packer	5572
PACKER Shale	5577
19 ft. perfs	5596
Co. sub	5597
1 std 1 single DP	5690
AK-1	5690
Co. sub	5691
BULLNOSE 2 ft. perf	
T.D.	5693

TEST HISTORY

10999 D.S.T.#3 Breeding "1-715" Harris Oil & Gas Co.

Flag Points

t (Min.) P (PSig)

A:	0.00	2463.85
B:	0.00	45.85
C:	15.50	59.91
D:	60.50	175.08
E:	0.00	66.88
F:	60.50	76.35
G:	121.50	220.32
Q:	0.00	2447.47

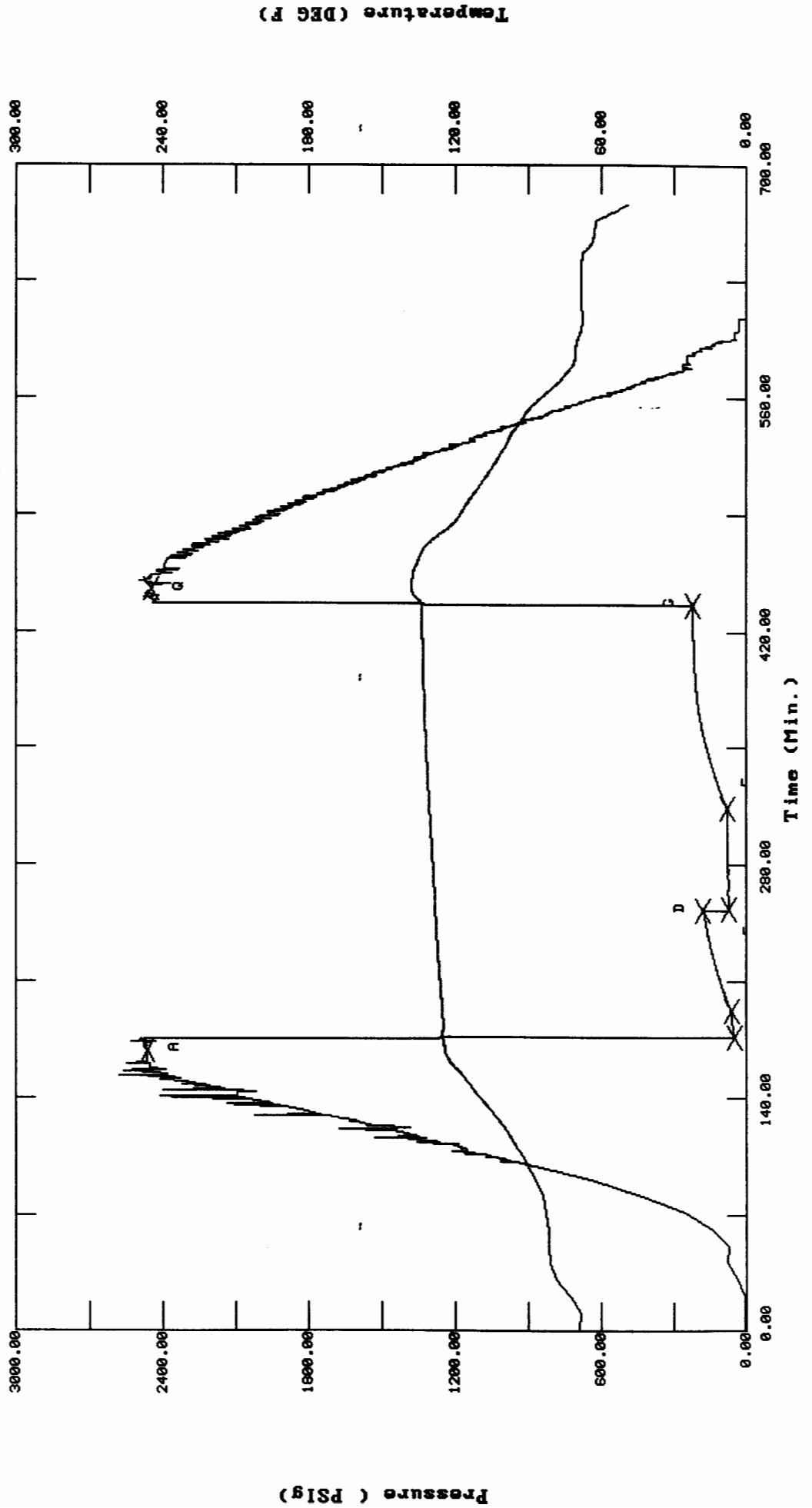
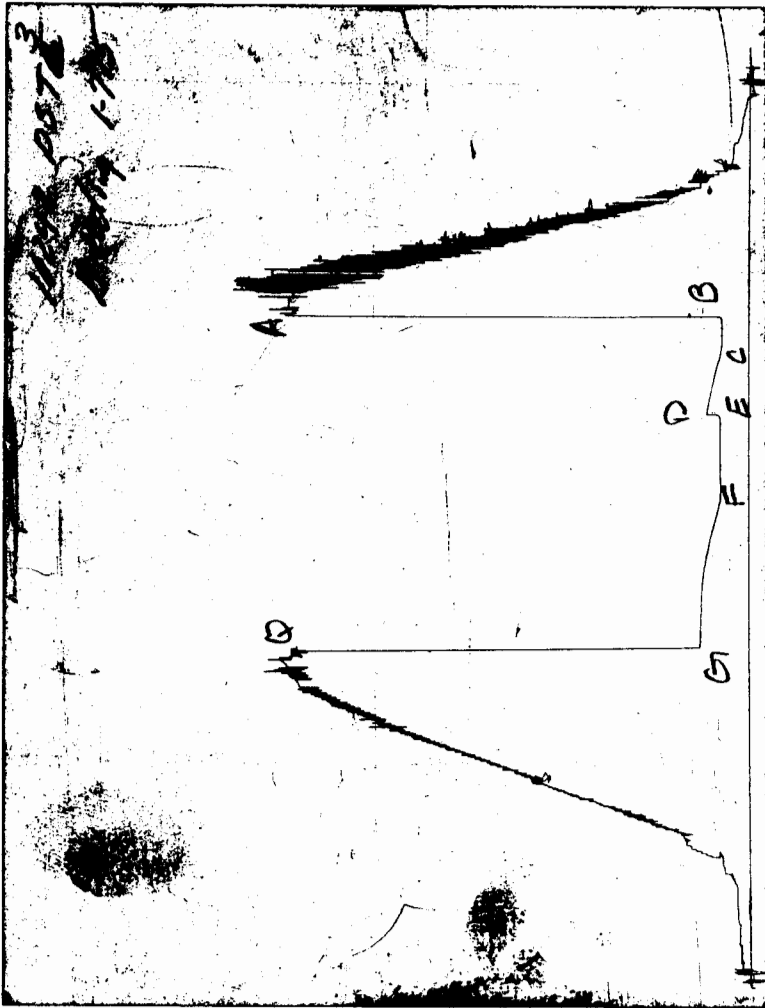
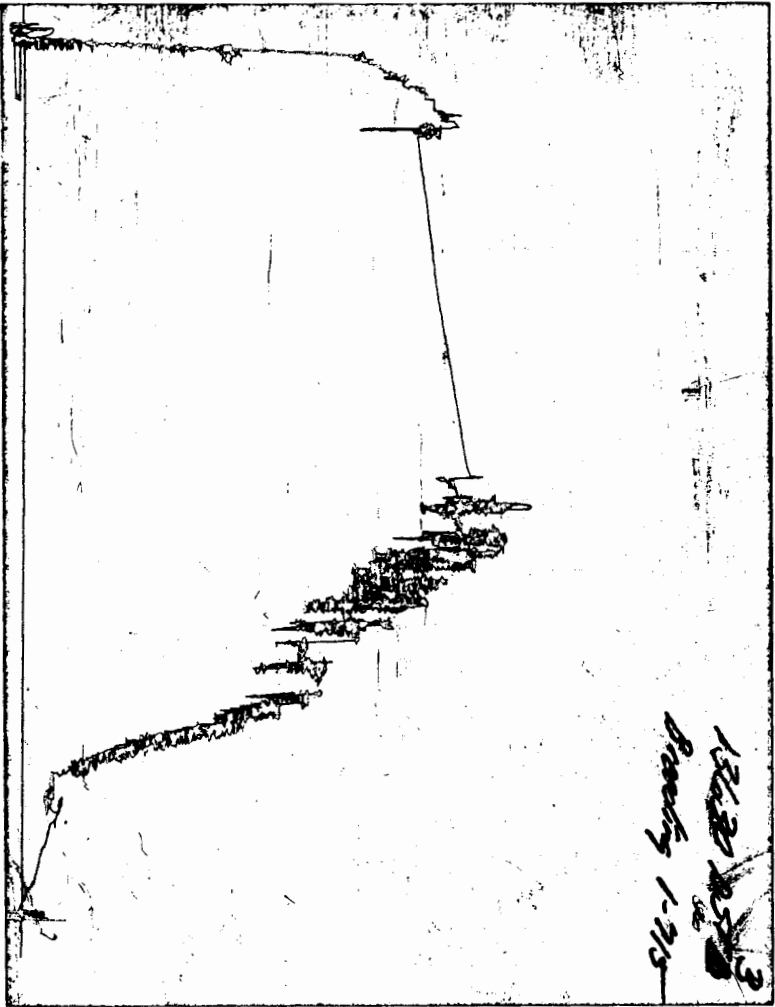


CHART PAGE



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

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

FLUID SAMPLER DATA

Ticket No. 10999 Date 1-6-99
Company Name Harris Oil & Gas
Lease Breeding "1-715" Test No. 3
County Morton KS. Sec. 15 Twp. 32S Rng. 40W

SAMPLER RECOVERY

Gas 2.7 ~~CFE~~ ~~ML~~
Oil 90 ML
Mud 1710 ML
Water 0 ML
Other 0 ML
Pressure 180 PSI

Total Vol. Rec. = 1800 ML
Total Vol. held = 5000 ML.

PIT MUD ANALYSIS

Chlorides 900 ppm.
Resistivity 8.0 ohms @ 53 F
Viscosity 75
Mud Weight 8.7
Filtrate 5.4
Other 4# Lo. Co. Mo.

SAMPLER ANALYSIS

Resistivity 8.6 ohms @ 49 F
Chlorides 900 ppm.
Gravity — corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.

MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.

BOTTOM
Resistivity 8.6 ohms @ 49 F
Chlorides 900 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 10999

Well Name & No. <u>Breeding "1-715"</u>	Test No. <u>3</u>	Date <u>1-6-99</u>
Company <u>Harris Oil & Gas Co.</u>	Zone Tested <u>Areyes</u>	
Address <u>Denver Colo 80202</u>	Elevation <u>3340</u> KB <u>3329</u> GL	
Co. Rep / Geo. <u>Tammy Diseker</u>	Cont. <u>Allen Rig 2</u>	Est. Ft. of Pay <u>21</u> Por. <u>18</u> %
Location: Sec. <u>15</u> Twp. <u>32 S.</u> Rge. <u>40 W</u> Co. <u>Marion</u> State <u>Ks.</u>		
No. of Copies <u>Rep. Distribution Sheet (Y, N)</u>	<u>Harris + Harold</u> Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) _____

Interval Tested <u>5415-5570</u>	Initial Str Wt./Lbs. <u>92,000</u>	Unseated Str Wt./Lbs. <u>92,000</u>
Anchor Length <u>155' Tail=123' Tool=30'</u>	Wt. Set Lbs. <u>40,000</u>	Wt. Pulled Loose/Lbs. <u>28,000</u>
Top Packer Depth <u>5410</u> <u>St.P.=5570'</u>	Tool Weight <u>5,300</u>	
<i>stake</i> Bottom Packer Depth <u>5415</u> <u>St.P.=5575'</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>5693</u>	Wt. Pipe Run _____	<u>8 1/4" WF Jars & Subs</u> Drill Collar Run <u>506</u>
Mud Wt. <u>8.7</u> LCM <u>4#</u> Vis. <u>75</u> WL <u>5.4</u>	Drill Pipe Size <u>4 1/2 x 4</u>	Ft. Run <u>4896</u> <u>17' up</u>
Blow Description <u>Weak 1" built to 2 1/4" in 8 min. Stabilized. T.F.P.</u>		
<u>No blow-back. T.S.T.P.</u>		
<u>Surface blow, built to 4" in 60 min. F.F.P.</u>		
<u>No blow-back. F.S.T.P.</u>		

Recovery — Total Feet <u>120</u>	GIP <u>590</u>	Ft. in DC <u>120</u>	Ft. in DP <u>0</u>
Rec. <u>120</u> Feet Of <u>Oil & Gas cut mud</u>	<u>8</u> % gas	<u>7</u> % oil	<u>85</u> % water <u>85</u> % 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 _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW 8.6 @ 49 °F Chlorides 900 ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud <u>2550</u> <u>2463</u> PSI	Recorder No. <u>3017 "16:55"</u>	T-Started <u>5:20 P.M.</u>
(B) First Initial Flow Pressure <u>144</u> <u>45</u> PSI	(depth) <u>5417</u>	T-Open <u>7:55 P.M.</u>
(C) First Final Flow Pressure <u>149</u> <u>59</u> PSI	Recorder No. <u>10242</u>	T-Pulled <u>12:10 A.M.</u>
(D) Initial Shut-in Pressure <u>245</u> <u>175</u> PSI	(depth) <u>5564</u>	T-Out <u>5:15 A.M.</u>
(E) Second Initial Flow Pressure <u>158</u> <u>66</u> PSI	Recorder No. <u>13630</u>	
(F) Second Final Flow Pressure <u>165</u> <u>76</u> PSI	(depth) <u>5690</u>	
(G) Final Shut-in Pressure <u>282</u> <u>220</u> PSI	Initial Opening <u>15</u>	Test/ <input checked="" type="checkbox"/>
(H) Final Hydrostatic Mud <u>2543</u> <u>2447</u> PSI	Initial Shut-in <u>60</u>	Jars/ <input checked="" type="checkbox"/>
<u>AK-1 Alpine</u>	Final Flow <u>60</u>	Safety Joint/ <input checked="" type="checkbox"/>
	Final Shut-in <u>120</u>	Straddle/ <input checked="" type="checkbox"/>
		Circ. Sub/ <input checked="" type="checkbox"/>
		Sampler/ <input checked="" type="checkbox"/>
		2 Extra Packer/ <input checked="" type="checkbox"/>
		Elect. Rec/ <input checked="" type="checkbox"/>
		2 <i>stake</i> Other Packers/ <input checked="" type="checkbox"/>

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 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 Tammy Diseker
 Our Representative Tammy S. Diseker

TOTAL PRICE \$ _____

TRILOBITE TESTING L.L.C.

OPERATOR : Harris Oil & Gas Co.

DATE 1-7-99

WELL NAME: Breeding "1-715"

KB 3340.00 ft

TICKET NO: 11000

DST #4

LOCATION : 15-32S-40W Morton co KS

GR 3329.00 ft

FORMATION: Morrow

INTERVAL : 5170.00 To 5410.00 ft

TD 5693.00 ft

TEST TYPE: CONV-STRADDLE

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 15 Rec.	10242	10242	Alpine	13630		PF Fr. 1045 to 1100 hr
SI 60 Range(Psi)	4100.0	4100.0	5000.0	4625.0	0.0	IS Fr. 1100 to 1200 hr
SF 60 Clock(hrs)	12 HR	12 HR	12 HR	12 HR		SF Fr. 1200 to 1300 hr
FS 120 Depth(ft)	5404.0	5404.0	5172.0	5690.0	0.0	FS Fr. 1300 to 1500 hr

	Field	1	2	3	4	
A. Init Hydro	2462.0	2489.0	2710.0	0.0	0.0	T STARTED 0830 hr
B. First Flow	205.0	214.0	62.0	0.0	0.0	T ON BOTM 1042 hr
B1. Final Flow	205.0	214.0	80.0	0.0	0.0	T OPEN 1045 hr
C. In Shut-in	606.0	624.0	481.0	0.0	0.0	T PULLED 1500 hr
D. Init Flow	240.0	241.0	84.0	0.0	0.0	T OUT 2030 hr
E. Final Flow	240.0	241.0	113.0	0.0	0.0	
F. Fl Shut-in	667.0	688.0	540.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2432.0	2404.0	2318.0	0.0	0.0	Tool Wt. 9300.00 lbs
Inside/Outside	0	0	I	S		Wt Set On Packer 40000.00 lbs

RECOVERY

Tot Fluid 215.00 ft of 215.00 ft in DC and 0.00 ft in DP
 4938.00 ft of Gas in pipe
 95.00 ft of Oil cut Mud 22%Oil 78%Mud
 120.00 ft of Oil cut Gassy Mud 25%Gas 10%Oil 65%Mud
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of
 0.00 ft of

Unseated Str Wt 92000.00 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 506.00 ft
 D.P. Length 4647.00 ft

SALINITY 860.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type Chemical
 Weight 8.70 lb/c
 Vis. 75.00 S/L
 W.L. 5.40 in3
 F.C. 0.00 in
 Mud Drop Y 15.0 ft

BLOW DESCRIPTION

Initial Flow:
 Fair 2" built to 9" in 15 minutes
 Initial Shutin:
 Strong - bottom of bucket blow back
 Final Flow:
 Strong immediatley. Gas to surface
 in 47 minutes. Gauged 15,500 cf/d
 Final Shutin:
 1" blow back

Amt. of fill 0.00 ft
 Btm. H. Temp. 135.00 F
 Hole Condition Good
 % Porosity 8.00
 Packer Size 6.75 in
 No. of Packers 4
 Cushion Amt. 0.00
 Cushion Type
 Reversed Out N
 Tool Chased N
 Tester Lanny Saloga
 Co. Rep. Tommy Diseker
 Contr. Allen
 Rig # 2
 Unit #
 Pump T.

Remark: Gas burned
 SAMPLES: None
 SENT TO:

Test Successful: Y

GAS RECOVERY

COMPANY: Harris Oil & Gas Co.

DATE: 1-7-99

WELL NAME: Breeding "1-715"

KB Elev: 3340.00 ft TICKET #11000 DST #4

WELL LOCATION: 15-32S-40W

GR Elev: 3329.00 ft FORMATION: Morrow

INTERVAL Fr.: 5170.00 To 5410.00 T.D.: 5693.00 ft TEST TYPE: CONV-STRADDLE

GAS RECOVERY MEASURED WITH Merla Orifice

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
50	0.50	0	4	12500.0
60	0.50	0	4	12500.0

*** TOOL DIAGRAM *** CONV-STRADDLE

WELL NAME: Breeding "1-715"

LOCATION : 15-32S-40W

TICKET No. 11000 D.S.T. No. 4 DATE 1-7-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL 31

BOTTOM PACKERS AND ANCHOR 25

TOTAL TOOL 86

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 7 Single 1 Total 467

TOTAL ASSEMBLY 553

D.C. ABOVE TOOLS.Stands 8 Single Total 506

D.P. ABOVE TOOLS.Stands 74 Single 1 Total 4647

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5706

TOTAL DEPTH 5693

TOTAL DRILL PIPE ABOVE K.B. 13

REMARKS:

FLUID SAMPLER DATA

Total Vol. 5000 ML.
 Total Vol. Rec. 2800 ML.
 Oil 336 ML.
 Mud 2464 ML.
 Wtr. 0 ML.
 Gas 6.2 CF.
 Psi. 420
 Bht. 135 F.
 Pit RW. 8.0 Ohms at 53 F. 900 PPM.
 Rec RW. 7.6 Ohms at 57 F. 860 PPM.
 Gravity -- at -- F.

P.O. SUB Cir. sub	5110
C.O. SUB Top of tool	5140
Double pin	5141
S.I. TOOL H&T	5146
Sampler	5149
HMV Sterling	5154
JARS Bowen	5159
SAFETY JOINT Bowen	5161
PACKER Sparton	5166
PACKER Shale	5170
DEPTH	
STUBB Rec. sub	5172
ANCHOR Alpine	5172
Pu. sub	5177
8 ft. perms	5185
Co. sub	5186
3 stds 1 single DP	5401
Co. sub	5402
AK-1	5404
Pu. sub	5407
Blank	5407
3 ft. of packer	5410
T.C.	
DEPTH	
PACKER Sparton "Center"	5410
2 ft. of packer	5412
PACKER Shale	5417
20 ft. perms	5437
Co. sub	5438
4 stds DP	5690
AK-1	5690
Co. sub	5691
BULLNOSE 2 ft. perf	
T.D.	5693

11000 D.S.T. #4 Breeding "1-715" Harris Oil & Gas

TEST HISTORY

Flag Points

t (Min.)	Pk (PSig)
A: 0.00	2340.61
B: 0.00	62.93
C: 15.00	80.89
D: 60.00	481.00
E: 0.00	94.48
F: 58.00	113.96
G: 122.00	540.34
Q: 0.00	2318.68

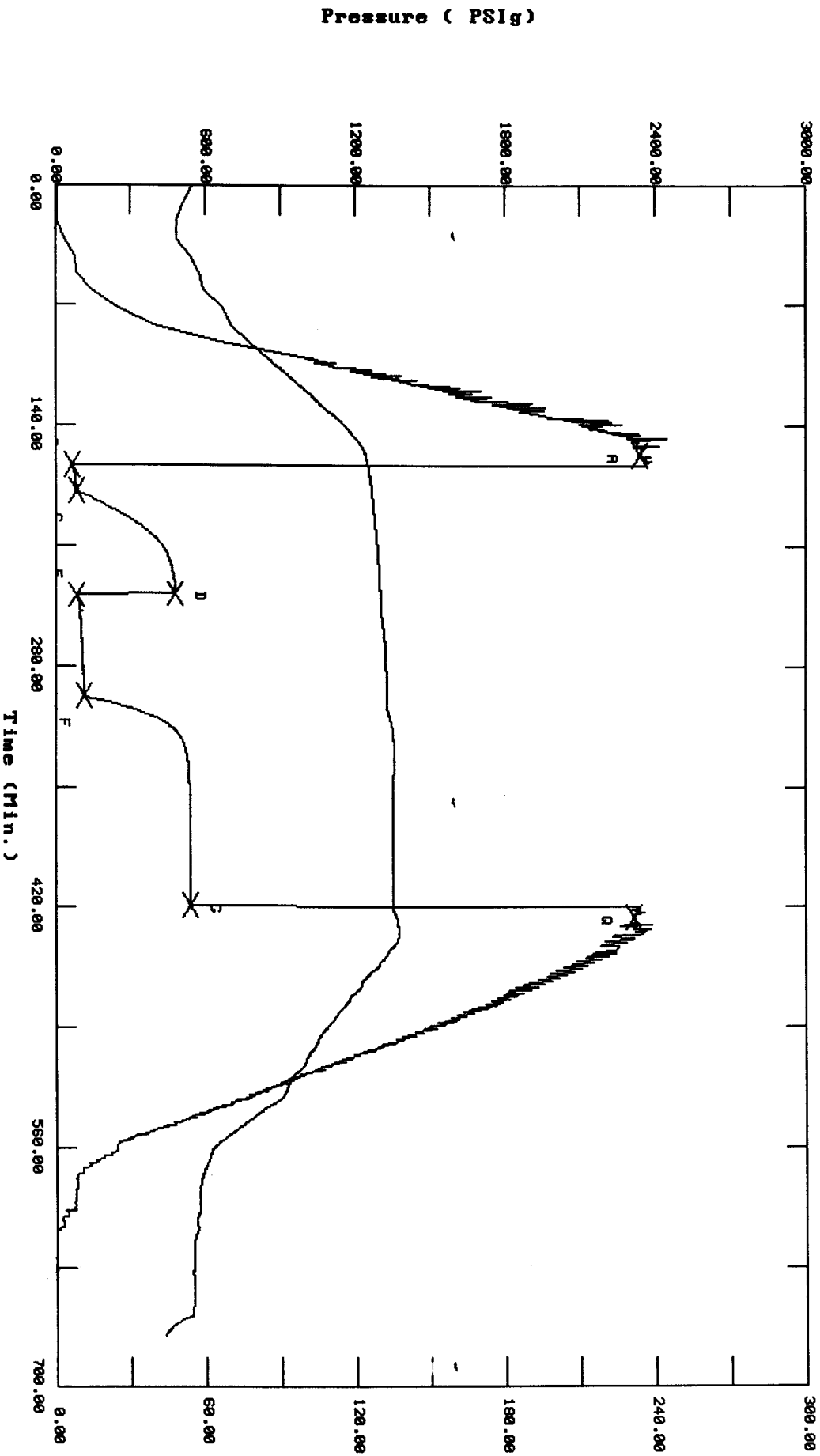
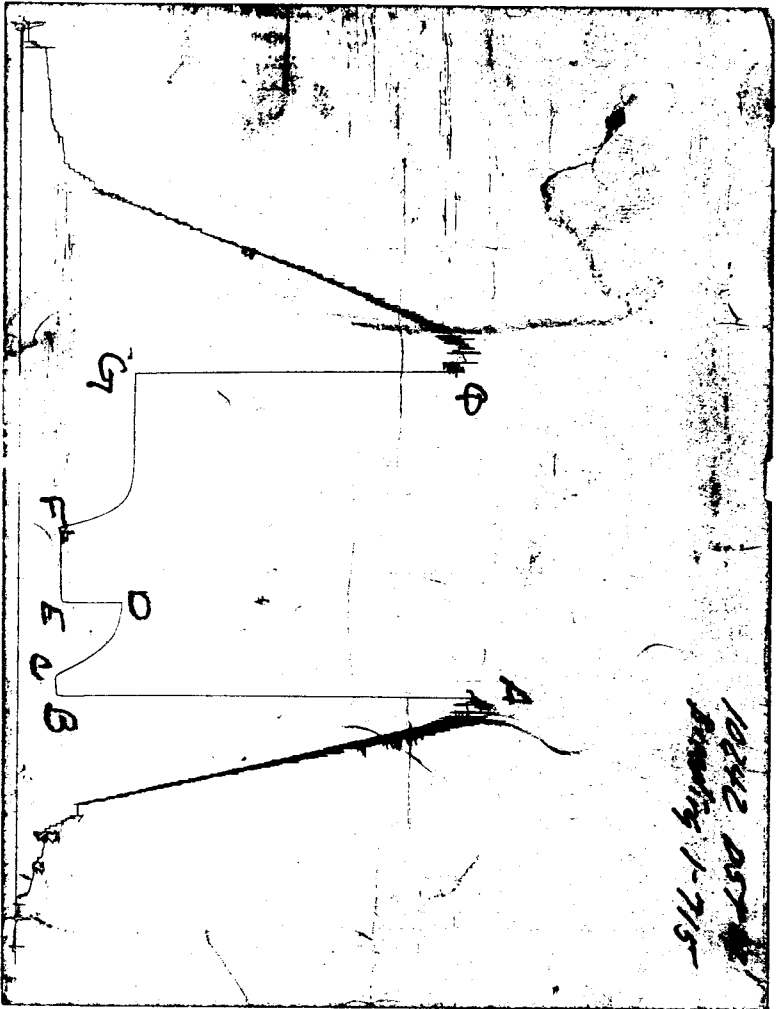
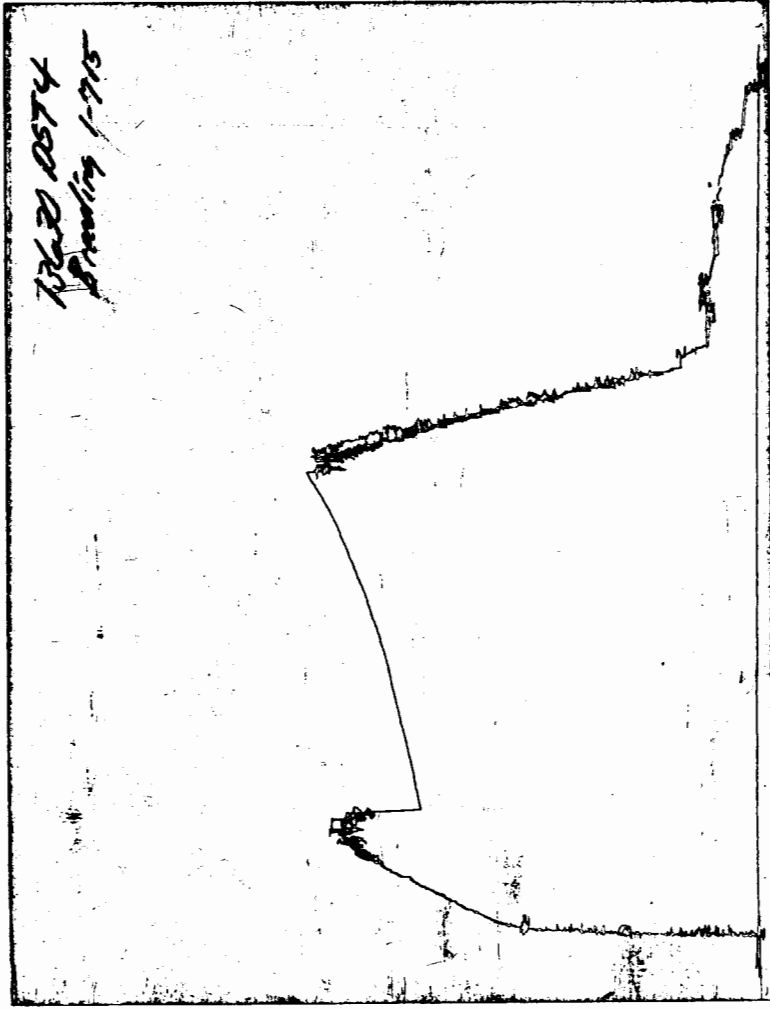


CHART PAGE



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

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

FLUID SAMPLER DATA

Ticket No. 11000 Date 1-7-99
Company Name Harris Oil & Gas
Lease Brading "1-715" Test No. 4
County Morton KS. Sec. 15 Twp. 32S Rng. 40W

SAMPLER RECOVERY

Gas 662 ~~CF~~ ~~ML~~
Oil 336 ML
Mud 2464 ML
Water 0 ML
Other 0 ML
Pressure 420 PSI
Total Vol. Rec. 2800 ML
Total Vol. hold = 5000 ML

PIT MUD ANALYSIS

Chlorides 900 ppm.
Resistivity 8.0 ohms @ 53 F
Viscosity 75
Mud Weight 8.7
Filtrate 5.4
Other 4# L.C.M.

SAMPLER ANALYSIS

Resistivity 7.6 ohms @ 57 F
Chlorides 860 ppm.
Gravity — corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity — ohms @ — F
Chlorides — ppm.

MIDDLE
Resistivity — ohms @ — F
Chlorides — ppm.

BOTTOM
Resistivity 7.6 ohms @ 57 F
Chlorides 860 ppm.

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11000

Well Name & No. <u>Breeding "1-215"</u>	Test No. <u>4</u>	Date <u>1-7-99</u>
Company <u>Harris Oil & Gas Co.</u>	Zone Tested <u>Moccasin "G-2"</u>	
Address <u>Derner Lake 80202</u>	Elevation <u>3240</u> KB <u>3329</u> GL	
Co. Rep / Geo. <u>Tammy Discher</u>	Cont. <u>Allen Rig 2</u>	Est. Ft. of Pay <u>20</u> Por. <u>8</u> %
Location: Sec. <u>15</u>	Twp. <u>32S</u>	Rge. <u>40W</u> Co. <u>Madison</u> State <u>Ks</u>
No. of Copies <u>Req</u>	Distribution Sheet (Y, N) <u>Harris + Harold</u>	Turnkey (Y, N) <u>N</u> Evaluation (Y, N) _____

Interval Tested <u>5170-5410</u>	Initial Str Wt./Lbs. <u>90000</u>	Unseated Str Wt./Lbs. <u>92000</u>
Anchor Length <u>240' Tail=283 Tail=30'</u>	Wt. Set Lbs. <u>40000</u>	Wt. Pulled Loose/Lbs. <u>18000</u>
Top Packer Depth <u>5165 SLP=5410</u>	Tool Weight <u>9,300</u>	
Bottom Packer Depth <u>5170 SLP=5415</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>5693</u>	Wt. Pipe Run _____	Drill Collar Run <u>506</u>
Mud Wt. <u>8.7</u> LCM <u>4#</u> Vis. <u>75</u> WL <u>5.4</u>	Drill Pipe Size <u>4 1/2 x 14</u>	Ft. Run <u>4647</u> 13' up
Blow Description <u>Fair 2", built to 9" in 15 min T.F.P.</u>		
<u>Strong, OBB blow-back. T.S. T.O.P.</u>		
<u>Strong immed. GTS in 47 min See Flow Chart. F.F.P.</u>		
<u>1" blow-back. F.S. T.O.P.</u>		

Recovery — Total Feet <u>215</u>	GIP <u>4938</u>	Ft. in DC <u>215</u>	Ft. in DP <u>0</u>
Rec. <u>95</u> Feet Of <u>Oil cut mud</u>	%gas <u>22</u>	%oil _____	%water <u>78</u> %mud _____
Rec. <u>120</u> Feet Of <u>Oil cut lumpy mud</u>	%gas <u>25</u>	%oil <u>10</u>	%water <u>65</u> %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____
Rec. _____ Feet Of _____	%gas _____	%oil _____	%water _____ %mud _____

BHT 135 °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW 7.6 @ 57 °F Chlorides 860 ppm Recovery Chlorides 900 ppm System

(A) Initial Hydrostatic Mud <u>2462</u> <u>2340</u> PSI	Recorder No. <u>3017 "08:02"</u>	T-Started <u>8:30 AM</u>
(B) First Initial Flow Pressure <u>205</u> <u>62</u> PSI	(depth) <u>5172</u>	T-Open <u>10:45 AM</u>
(C) First Final Flow Pressure <u>205</u> <u>80</u> PSI	Recorder No. <u>10242</u>	T-Pulled <u>3:00 PM</u>
(D) Initial Shut-in Pressure <u>606</u> <u>481</u> PSI	(depth) <u>5404</u>	T-Out <u>8:30 P.M.</u>
(E) Second Initial Flow Pressure <u>240</u> <u>84</u> PSI	Recorder No. <u>13630</u>	
(F) Second Final Flow Pressure <u>240</u> <u>113</u> PSI	(depth) <u>5690</u>	
(G) Final Shut-in Pressure <u>667</u> <u>540</u> PSI	Initial Opening <u>15</u>	Test <input checked="" type="checkbox"/>
(H) Final Hydrostatic Mud <u>2432</u> <u>2318</u> PSI	Initial Shut-in <u>60</u>	Jars <input checked="" type="checkbox"/>
<u>AK-1 Alpine</u>	Final Flow <u>60</u>	Safety Joint <input checked="" type="checkbox"/>
	Final Shut-in <u>120</u>	Straddle <input checked="" type="checkbox"/>
		Circ. Sub <input checked="" type="checkbox"/>
		Sampler <input checked="" type="checkbox"/>
		2 Extra Packer <input checked="" type="checkbox"/>
		Elect. Rec <input checked="" type="checkbox"/>
		2 shale Packer <input checked="" type="checkbox"/>
		Other <input checked="" type="checkbox"/>

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Approved By Tammy Discher
 Our Representative Tammy S. Discher

TOTAL PRICE \$ _____