

TRILOBITE TESTING L.L.C.

OPERATOR : Oxy Usa Inc. DATE 3-5-98
WELL NAME: Downing "A" #3 KB 2942.00 ft TICKET NO: 9874 DST #1
LOCATION : 9-32S-34W CO Seward KS GR 2931.00 ft FORMATION: Chester
INTERVAL : 6106.00 To 6153.00 ft TD 6153.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10993	10993	3227			PF Fr. 1347 to 1417 hr
SI 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1417 to 1517 hr
SF 60 Clock(hrs)	12HR.	12Hr.	Elet.			SF Fr. 1517 to 1617 hr
FS 120 Depth(ft)	6149.0	6149.0	6108.0	0.0	0.0	FS Fr. 1617 to 1817 hr

	Field	1	2	3	4	
A. Init Hydro	3216.0	3173.0	3213.0	0.0	0.0	T STARTED 1130 hr
B. First Flow	206.0	204.0	138.0	0.0	0.0	T ON BOTM 1345 hr
B1. Final Flow	217.0	208.0	176.0	0.0	0.0	T OPEN 1347 hr
C. In Shut-in	1188.0	1182.0	1183.0	0.0	0.0	T PULLED 1817 hr
D. Init Flow	217.0	223.0	148.0	0.0	0.0	T OUT 2145 hr
E. Final Flow	217.0	223.0	182.0	0.0	0.0	
F. Fl Shut-in	1188.0	1188.0	1182.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2940.0	2934.0	3074.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 25000.00 lbs
						Wt Pulled Loose 75000.00 lbs
						Initial Str Wt 50000.00 lbs
						Unseated Str Wt 55000.00 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 693.00 ft
						D.P. Length 5415.00 ft

RECOVERY

Tot Fluid 0.00 ft of 0.00 ft in DC and 0.00 ft in DP
0.00 ft of No fluid all GAS
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

BLOW DESCRIPTION

Initial Flow:
Strong blow bottom of bucket in 15
sec. gas to surface in 5 mins.
Initial Shut-in:
Bled off 2 in No blow back
Final Flow:
Opening strong blow bottom of bucket
as soon as tool opened
Final Shut-in:
Bled off 2 in No Blow back.

SAMPLES: Yes 1
SENT TO: Caraway lab. Liberal

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/c
Vis.	50.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop Y	25.0 ft
Amt. of fill	0.00 ft
Btm. H. Temp.	133.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	
Reversed Out N	
Tool Chased N	
Tester	Mike Colantonio
Co. Rep.	Tim Hedrick
Contr.	Cheyenne
Rig #	3
Unit #	
Pump T.	

NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 913-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 316-624-5389
Fax: 316-626-7108

Lab Number: 980516
Sample From: Downing A-3 DST 1
Producer: Oxy USA, Inc.
Date:
Time:
Sampler:
Source:

Analyzed: 03/05/98
Pressure:
Temperature:
Location: 9-32S-34W
County: Seward
State: Kansas
Formation: Chester

	Mole %	GPM
Helium	He: 0.205	0.000
Hydrogen	H2: 0.009	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 4.912	0.000
Carbon Dioxide	CO2: 0.235	0.000
Methane	C1: 85.979	0.000
Ethane	C2: 4.321	1.156
Propane	C3: 2.009	0.554
Iso Butane	iC4: 0.326	0.107
Normal Butane	nC4: 0.782	0.247
Iso Pentane	iC5: 0.221	0.081
Normal Pentane	nC5: 0.317	0.115
Hexanes Plus	C6+: 0.684	0.298
TOTAL:	100.000	2.557
Z Fact:	0.9975	
SP.GR.:	0.6627	
BTU (SAT):	1074.4 @ 14.73 psia	
BTU (DRY):	1093.4 @ 14.73 psia	
OCTANE RATING:	119.7	

COMMENTS:

0.000

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Downing "A" #3

LOCATION : 9-32S-34W

TICKET No. 9874 D.S.T. No. 1 DATE 3-5-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 30

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 46

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

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

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands12 Single Total 693

D.P. ABOVE TOOLS.Stands87 Single Total 5384

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 6154

TOTAL DEPTH 6153

TOTAL DRILL PIPE ABOVE K.B. 1ft.

REMARKS:

SAMPLER DATA

13.6 Cubic ft. Gas

950Psi.

4000ml Total

P.O. SUB 1ft	6076
C.O. SUB	
S.I. TOOL 5ft Sterling	6082
3ft Sampler	6085
HMV HYD 5ft Sterling	6090
JARS 5ft Sterling	6095
SAFETY JOINT 2ft Sterling	6097
PACKER 5ft	6101
PACKER 5ft	6106
DEPTH	
STUBB 1ft	6107
ANCHOR	
1ft Perf	6108
Alpine Rec.	6108
T.C.	
DEPTH	
3ft Perf	6116
33ft Subs Pipe	6149
AK-1 Rec.	6149
BULLNOSE	
T.D. 4ft Bullplug	6153

GAS RECOVERY

COMPANY: Oxy Usa Inc. DATE: 3-5-98
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GAS RECOVERY MEASURED WITH Merla Data

***** GAS RATES FOR FLOW #1

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.00	9	0	442000.0
10	1.00	11	0	499000.0
15	1.00	14	0	577000.0
20	1.00	17	0	652000.0
25	1.00	19	0	699000.0
30	1.00	21	0	749000.0

***** GAS RATES FOR FLOW #2

Time (min)	Orifice (in)	Pressure (Psi)	H2O (in)	Rate (cf/d)
5	1.00	22	0	773000.0
10	1.00	22	0	773000.0
15	1.00	25	0	840000.0
20	1.00	26	0	865000.0
25	1.00	27	0	887000.0
35	1.00	28	0	907000.0
45	1.00	29	0	930000.0
55	1.00	30	0	951000.0
60	1.00	30	0	951000.0

TEST HISTORY

9874 DST# 1 Downing A #3 Oxy Usa Inc.

Flag Points
t(Min.) P(PSIg)

A: 0.00 3213.85
B: 0.00 138.91
C: 26.25 176.04
D: 60.75 1183.41
E: 0.00 148.03
F: 58.75 182.35
G: 120.25 1182.44
Q: 0.00 3074.65

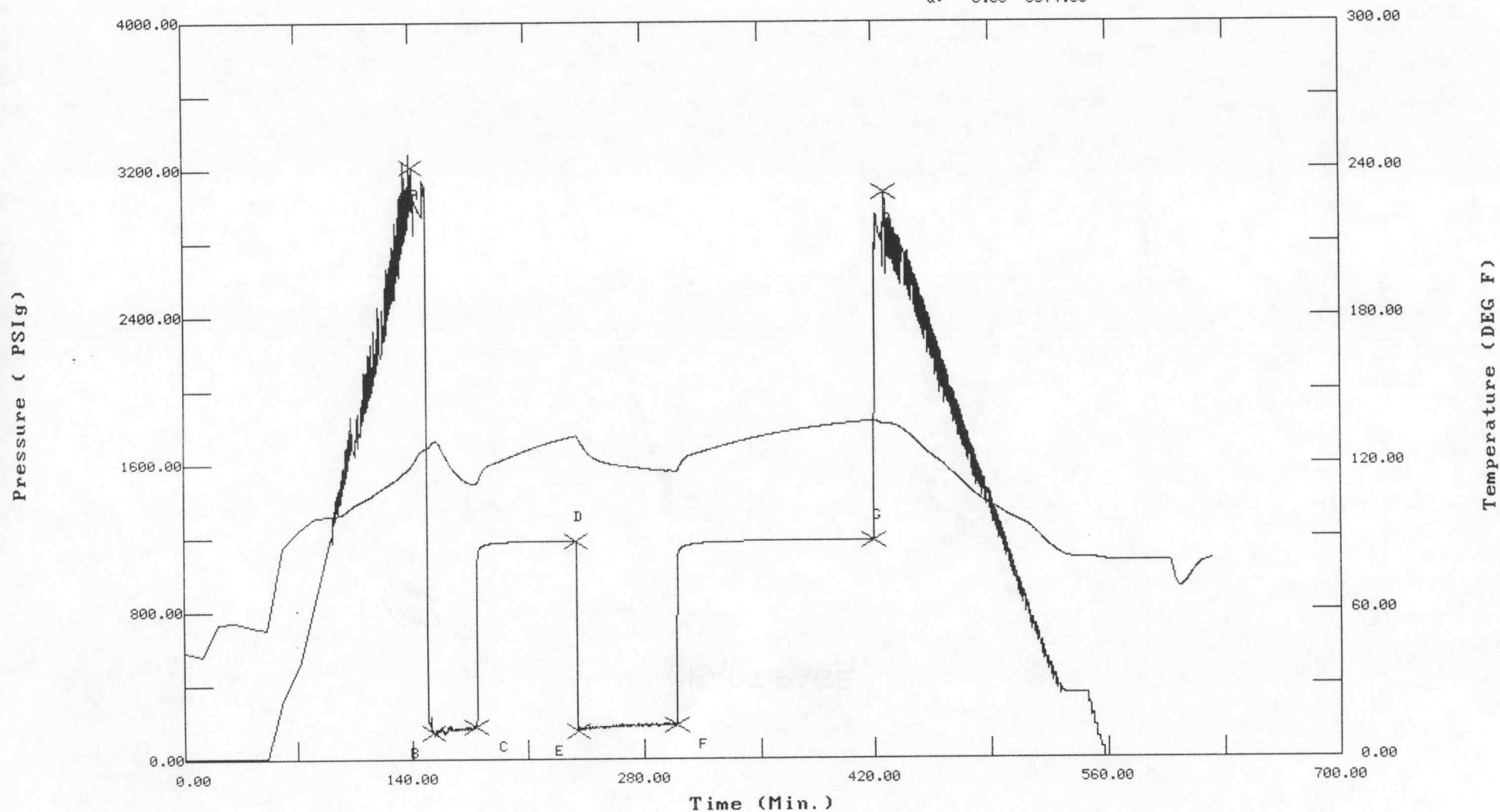
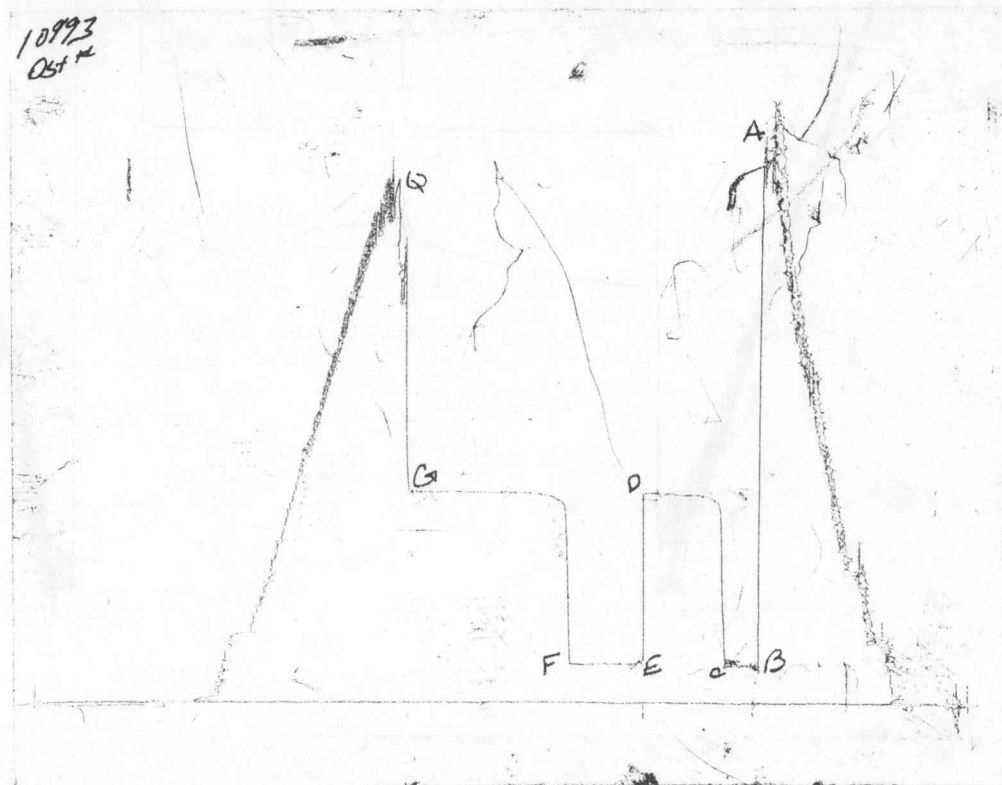


CHART PAGE



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