

15-033-21090

TRILOBITE TESTING L.L.C.

17-32s-18w

OPERATOR : Imperial Oil, Properties
WELL NAME: Bergner"C"17-1
LOCATION : 17-32s-18w Comanche co KS
INTERVAL : 4352.00 To 4385.00 ft

DATE 05/31/200
KB 2154.00 ft TICKET NO: 12843 DST #1
GR 2144.00 ft FORMATION: Toronto
TD 4385.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	2350			PF Fr. 2238 to 2308 hr
SI 30 Range(Psi)	4200.0	4200.0	4495.0	0.0	0.0	IS Fr. 2308 to 2338 hr
SF 30 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 2338 to 0008 hr
FS 30 Depth(ft)	4382.0	4382.0	4358.0	0.0	0.0	FS Fr. 0008 to 0038 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2293.0	0.0	0.0	T STARTED 1758 hr
B. First Flow	0.0	0.0	633.0	0.0	0.0	T ON BOTM 2235 hr
Bl. Final Flow	0.0	0.0	673.0	0.0	0.0	T OPEN 2238 hr
C. In Shut-in	0.0	0.0	2012.0	0.0	0.0	T PULLED 0038 hr
D. Init Flow	0.0	0.0	638.0	0.0	0.0	T OUT 0345 hr
E. Final Flow	0.0	0.0	688.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	1860.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	0.0	0.0	2197.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 105000.00 lbs
						Initial Str Wt 92000.00 lbs
						Unseated Str Wt 98000.00 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 607.41 ft
						D.P. Length 3744.97 ft

RECOVERY

Tot Fluid 1100.00 ft of 607.00 ft in DC and 493.00 ft in DP
1100.00 ft of Drilling Mud
0.00 ft of 100% mud
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Weak blow built to 1 1/2" in H2O bucket.
Initial Shut-In:
Bled down for 30 seconds. No blow back
Final Flow:
No blow.
Final Shut-In:
No blow back.

SAMPLES:
SENT TO:

MUD DATA-----	
Mud Type	Chemical
Weight	9.20 lb/c:
Vis.	43.00 S/L
W.L.	15.20 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	113.00 F
Hole Condition	fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren L.Amerine
Co. Rep.	Jon T.Williams
Contr.	Val Energy
Rig #	2
Unit #	none
Pump T.	none

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Bergner"C"17-1

LOCATION : 17-32s-18w Comanche co KS

TICKET No. 12843 D.S.T. No. 1 DATE 05/31/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 33

TOTAL TOOL 64

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands10 Single Total 607.41

D.P. ABOVE TOOLS.Stands60 Single 1 Total 3744.97

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4416.38

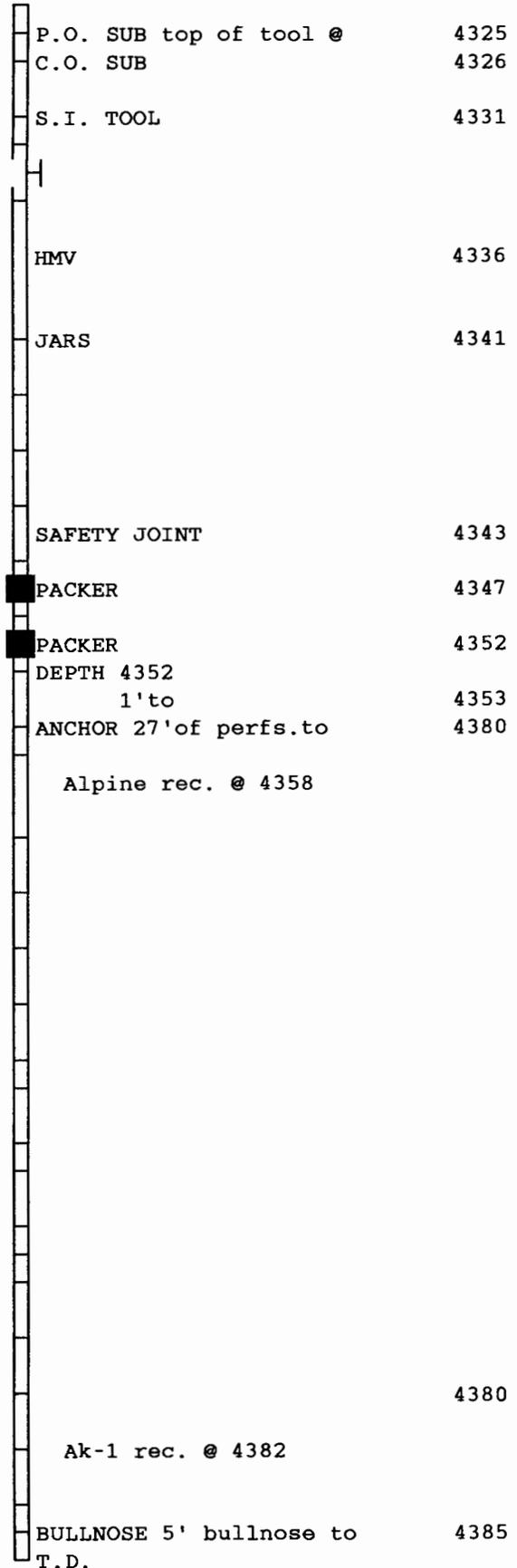
TOTAL DEPTH 4385

TOTAL DRILL PIPE ABOVE K.B. 31.38

REMARKS:

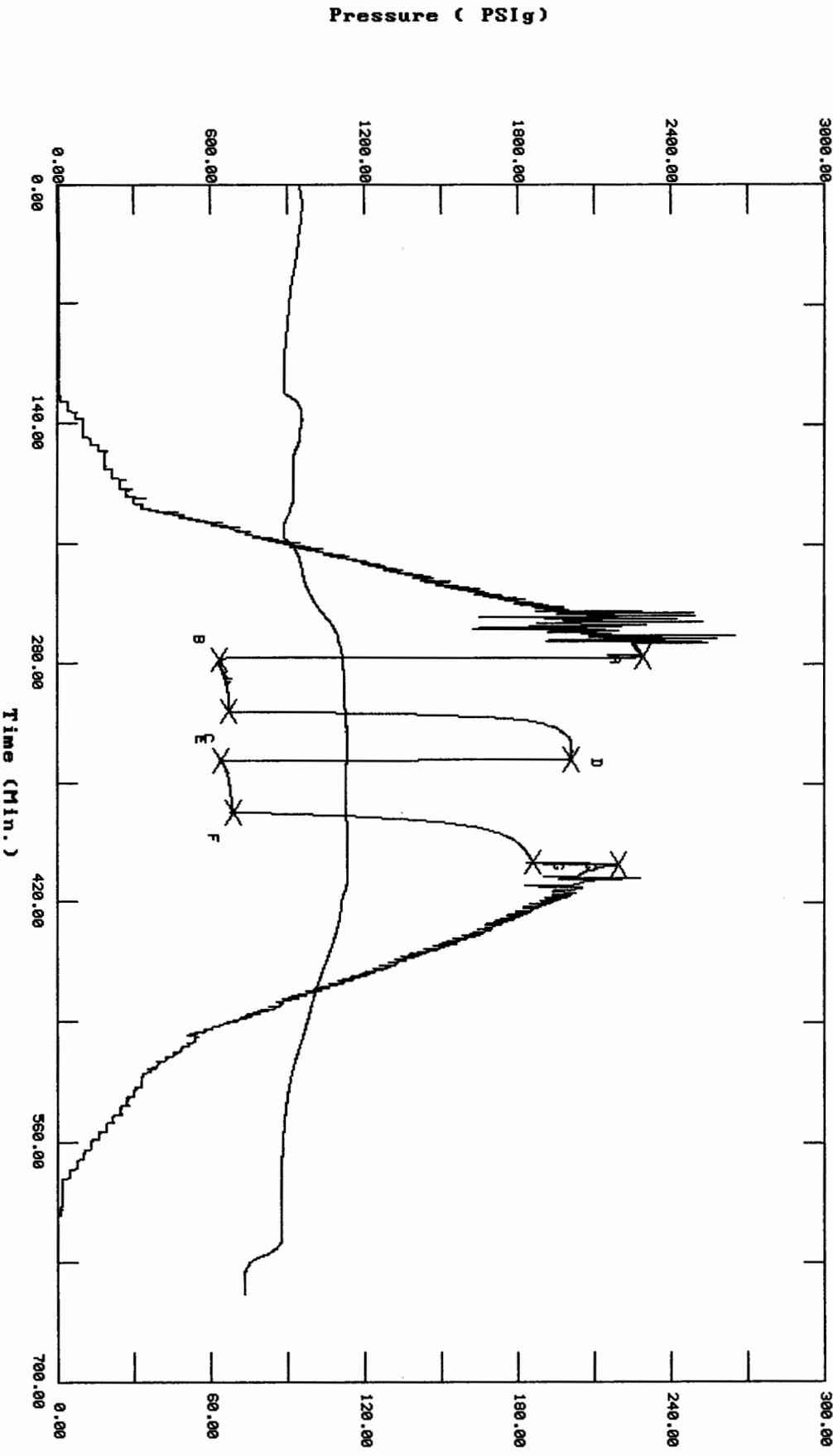
Tool started taking weight 420'off bottom.

AK-1 Clock stopped



TK#12843 DST#1 Bergner "C" 17-1 Imperial Oil Properties

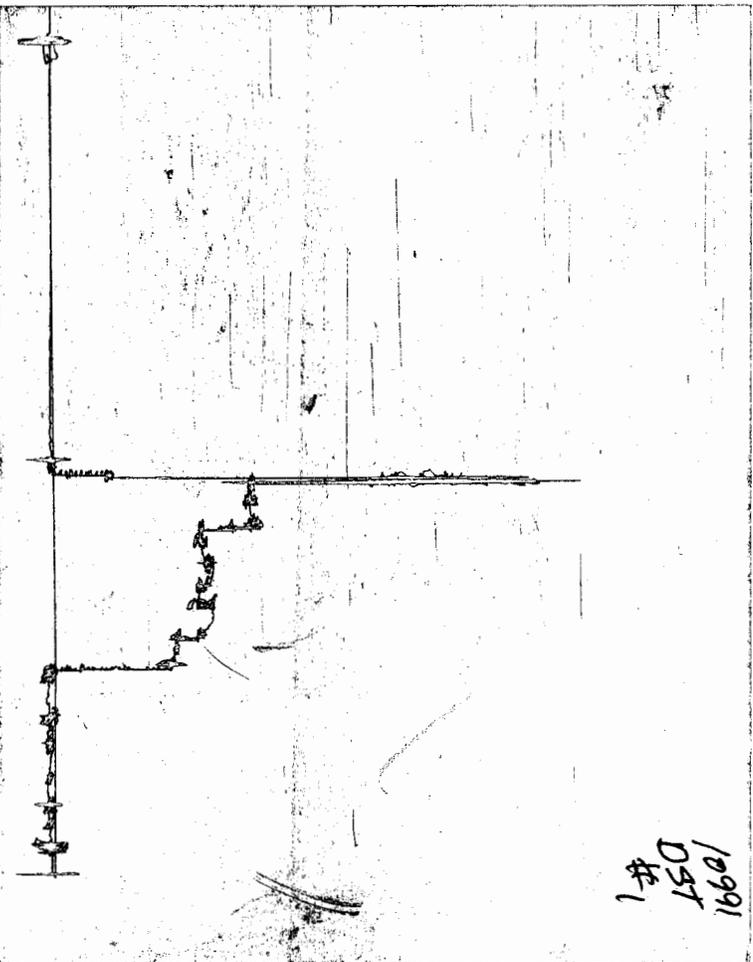
TEST HISTORY



Flag Points

t (Min.)	P (PSIg)
B1	0.00
B2	2293.24
B3	0.00
B4	633.98
C1	30.25
C2	679.09
D1	28.25
D2	2011.67
E1	0.00
E2	637.51
F1	30.00
F2	688.12
G1	29.25
G2	1860.42
G3	0.00
G4	2197.39

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

Test Ticket

N^o 12843

Well Name & No. <u>Bergner "C" 17-1</u>		Test No. <u>#1</u>	Date <u>05/31/2000</u>	
Company <u>Imperial Oil Prop</u>		Zone Tested <u>(Toronto)</u>		
Address <u>200 E. 1st St. #413 Wichita, Ks 67202</u>		Elevation <u>2154</u>	KB <u>2144</u>	GL
Co. Rep / Geo. <u>Jon T. Williams</u>		Cont. <u>Val Energy</u>	Est. Ft. of Pay	Por. %
Location: Sec. <u>17</u>	Twp. <u>32^s</u>	Rge. <u>18^w</u>	Co. <u>Comanche</u>	State <u>Ks</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>—</u>	Turnkey (Y, N) <u>—</u>	Evaluation (Y, N) <u>—</u>	

Interval Tested <u>4352' - 4385'</u>	Initial Str Wt/Lbs. <u>92000</u>	Unseated Str Wt/Lbs. <u>28000</u>
Anchor Length <u>33'</u>	Wt. Set Lbs. <u>20,000</u>	Wt. Pulled Loose/Lbs. <u>105,000</u>
Top Packer Depth <u>4347'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>4352'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>4385'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>607.41</u>
Mud Wt. <u>9.2</u> LCM <u>0</u> Vis. <u>43</u> WL <u>152</u>	Drill Pipe Size <u>4 1/2 X H</u>	Ft. Run <u>3744.97</u>
Blow Description <u>IF: Weak blow built to 1 1/2" in H2O bucket.</u>		
<u>ISI: Bled down for 30 sec. No blow back.</u>		
<u>FF: No blow</u>		
<u>FST: No blow back.</u>		

Recovery — Total Feet <u>1100</u>	GIP	Ft. in DC <u>607</u>	Ft. in DP <u>493</u>
Rec. <u>1100</u> Feet Of <u>Drilling Mud</u>	%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
Rec. _____ Feet Of _____	%gas	%oil	%water %mud
BHT <u>115^d</u> °F Gravity _____	°API D@ _____	°F Corrected Gravity _____ °API	
RW _____ @ _____ °F Chlorides _____	ppm Recovery	Chlorides <u>8,500</u>	ppm System

(A) Initial Hydrostatic Mud <u>Clock</u>	AK-1 <u>2293</u>	Alpine <u>2293</u>	PSI Recorder No. <u>2350</u>	T-On Location <u>1130</u>
(B) First Initial Flow Pressure <u>Stopped</u>	<u>633</u>	<u>633</u>	PSI (depth) <u>4358'</u>	T-Started <u>1758</u>
(C) First Final Flow Pressure _____	<u>623</u>	<u>623</u>	PSI Recorder No. <u>10991</u>	T-Open <u>2238</u>
(D) Initial Shut-In Pressure _____	<u>2012</u>	<u>2012</u>	PSI (depth) <u>4382'</u>	T-Pulled <u>0038</u>
(E) Second Initial Flow Pressure _____	<u>638</u>	<u>638</u>	PSI Recorder No. _____	T-Out <u>0345</u>
(F) Second Final Flow Pressure _____	<u>688</u>	<u>688</u>	PSI (depth) _____	T-Off Location <u>0530</u>
(G) Final Shut-in Pressure _____	<u>1860</u>	<u>1860</u>	PSI Initial Opening <u>30</u>	Test <u>500</u> <input checked="" type="checkbox"/> <u>Miglen</u>
(Q) Final Hydrostatic Mud _____	<u>2197</u>	<u>2197</u>	PSI Initial Shut-in <u>30</u>	Jars <u>200</u> <input checked="" type="checkbox"/>
			Final Flow <u>30</u>	Safety Joint <u>50</u> <input checked="" type="checkbox"/>
			Final Shut-in <u>30</u>	Straddle _____

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 Darren Lamerino

Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Elec. Rec. 150
 Mileage _____
 Other ext 6/3/4 202.50
 TOTAL PRICE \$ 1102.50

TRILOBITE TESTING L.L.C.

OPERATOR : Imperial Oil, Prop. DATE 06/03/200
 WELL NAME: Bergner"C"#17-1 KB 2154.00 ft TICKET NO: 12844 DST #2
 LOCATION : 17-32s-18w Comanche co KS GR 2144.00 ft FORMATION: Pawnee
 INTERVAL : 5090.00 To 5134.00 ft TD 5134.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 45	Rec.	10991	10991	2350			PF Fr. 1646 to 1731 hr
SI 60	Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1731 to 1831 hr
SF 60	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1831 to 1931 hr
FS 60	Depth(ft)	5131.0	5131.0	5106.0	0.0	0.0	FS Fr. 1931 to 2031 hr

	Field	1	2	3	4	
A. Init Hydro	2513.0	2529.0	2530.0	0.0	0.0	T STARTED 1312 hr
B. First Flow	53.0	44.0	37.0	0.0	0.0	T ON BOTM 1643 hr
B1. Final Flow	53.0	38.0	69.0	0.0	0.0	T OPEN 1646 hr
C. In Shut-in	1755.0	1754.0	1773.0	0.0	0.0	T PULLED 2031 hr
D. Init Flow	85.0	77.0	74.0	0.0	0.0	T OUT 2315 hr
E. Final Flow	85.0	77.0	101.0	0.0	0.0	
F. Fl Shut-in	1692.0	1689.0	1713.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2502.0	2491.0	2493.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 130.00 ft of 130.00 ft in DC and 0.00 ft in DP	Unseated Str Wt 98000.00 lbs
130.00 ft of Slightly mud cut water	Bot Choke 0.75 in
0.00 ft of 85% water 15% mud	Hole Size 7.88 in
0.00 ft of	D Col. ID 2.25 in
0.00 ft of	D. Pipe ID 3.80 in
0.00 ft of	D.C. Length 607.41 ft
0.00 ft of	D.P. Length 4477.51 ft
0.00 ft of	
SALINITY 38000.00 P.P.M. A.P.I. Gravity 0.00	

BLOW DESCRIPTION

Initial Flow:
 Weak blow built to 1 1/4" in H2O bucket.
 Initial Shut-In:
 Bled down for 30 seconds. No blow back.
 Final Flow:
 Dead blow.
 Final Shut-In:
 No blow back.

SAMPLES: Caraway Analytical
 SENT TO: Liberal, Ks. 67901

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	47.00 S/L
W.L.	9.60 in3
F.C.	0.32 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	124.00 F
Hole Condition	fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren L. Amerine
Co. Rep.	Jon T. Williams
Contr.	Val Energy
Rig #	2
Unit #	none
Pump T.	none

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Bergner"C"#17-1

LOCATION : 17-32s-18w Comanche co KS

TICKET No. 12844 D.S.T. No. 2 DATE 06/03/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 44

TOTAL TOOL 75

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands10 Single Total 607.41

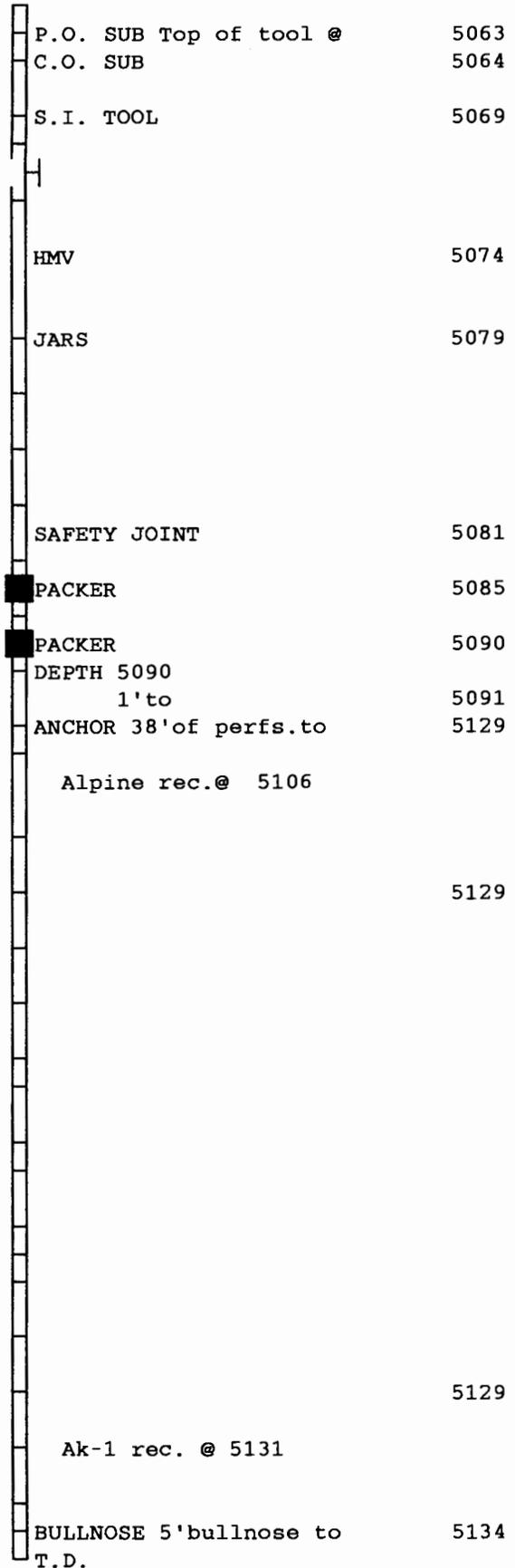
D.P. ABOVE TOOLS.Stands72 Single 1 Total 4477.59

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5160

TOTAL DEPTH 5134

TOTAL DRILL PIPE ABOVE K.B. 26

REMARKS:

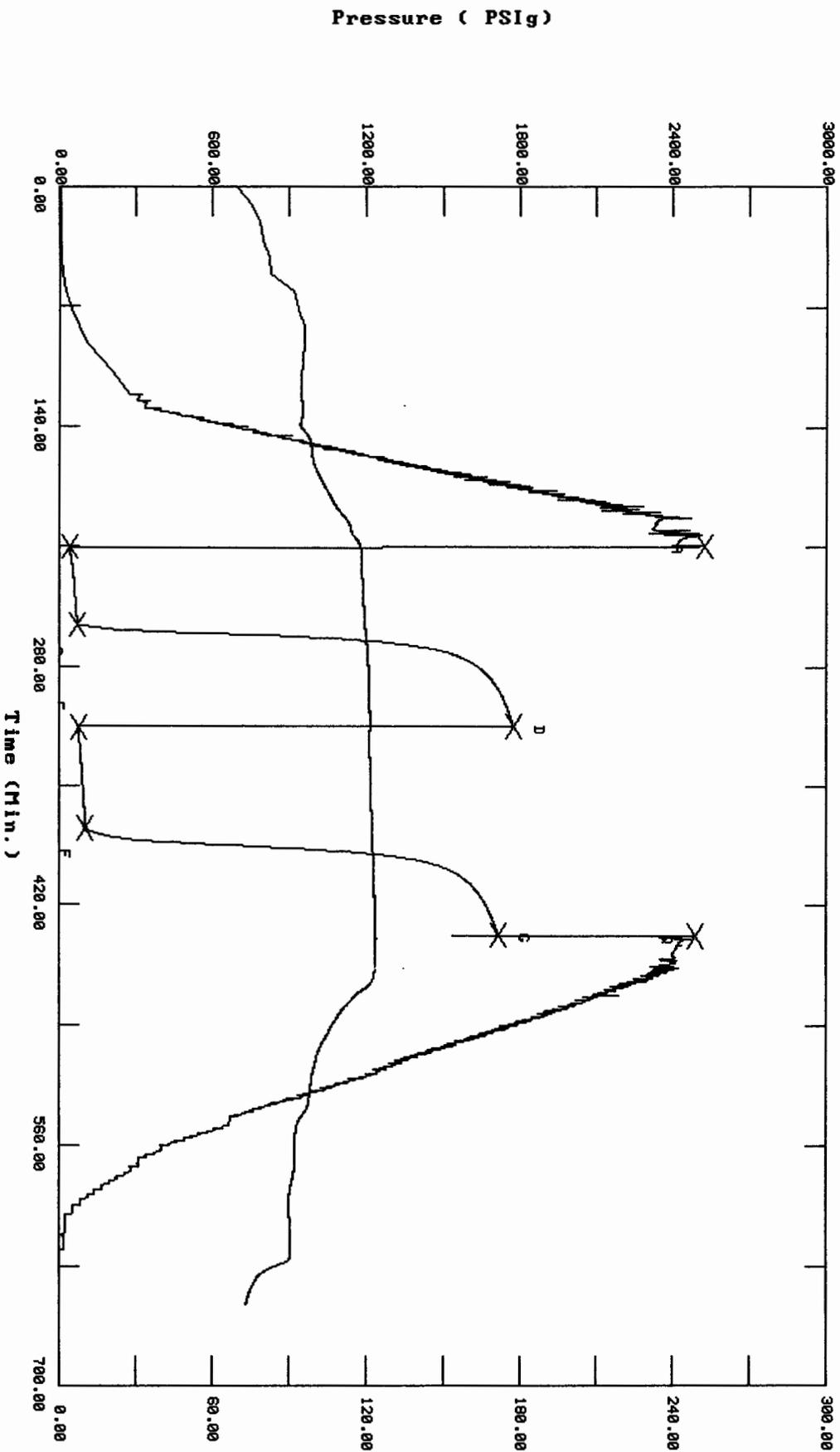


TK#12844 DST#2 Bergner "C" #17-1 Imperial Oil, Prop.

TEST HISTORY

Flag Points
(Min.) (K PSIG)

R:	0.00	2529.74
B:	0.00	37.09
C:	45.25	69.23
D:	59.00	1773.47
E:	0.00	74.35
F:	59.50	101.29
G:	62.00	1713.38
Q:	0.00	2492.31

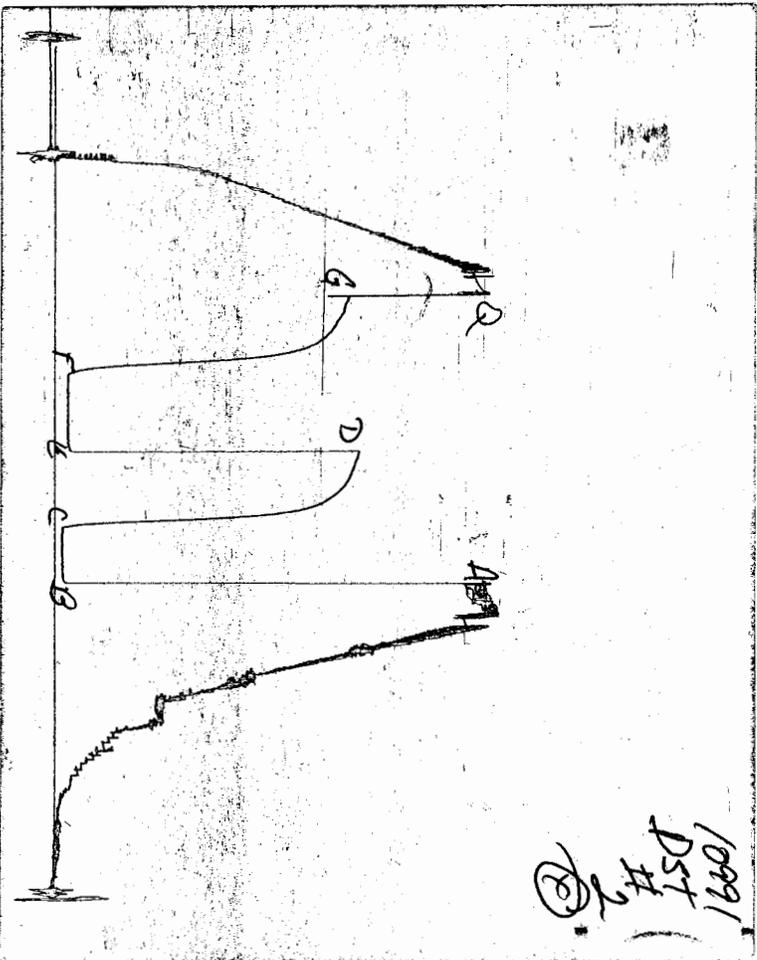


Temperature (DEG F)

Pressure (PSIg)

Time (Min.)

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

Test Ticket

No 12844

Well Name & No. <u>Bergner ac" 17-1</u>	Test No. <u>#2</u>	Date <u>06/13/2000</u>
Company <u>Imperial Oil, Prop.</u>	Zone Tested <u>Lawnee</u>	
Address <u>200 East 1st St #413 Wichita, KS 67202</u>	Elevation <u>2154</u> KB <u>2144</u> GL	
Co. Rep/Geo. <u>Jon T. Williams Cont. Val Energy</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %	
Location: Sec. <u>17</u> Twp. <u>32S</u> Rge. <u>18W</u> Co. <u>Comanche</u> State <u>KS</u>		
No. of Copies <u>5</u> Distribution Sheet (Y, N) <u> </u> Turnkey (Y, N) <u> </u> Evaluation (Y, N) <u> </u>		

Interval Tested <u>5090' - 5134'</u>	Initial Str Wt./Lbs. <u>98000</u>	Unseated Str Wt./Lbs. <u>98000</u>
Anchor Length <u>44'</u>	Wt. Set Lbs. <u>20000</u>	Wt. Pulled Loose/Lbs. <u>115000</u>
Top Packer Depth <u>5085'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>5090'</u>	Hole Size — 7 7/8" <input checked="" type="checkbox"/>	Rubber Size — 6 3/4" <input checked="" type="checkbox"/>
Total Depth <u>5134'</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>607.41</u>
Mud Wt. <u>9.10</u> LCM <input checked="" type="checkbox"/> Vis. <u>47</u> WL <u>9.6</u>	Drill Pipe Size <u>4 1/2 KH</u>	Ft. Run <u>4477.59</u>
Blow Description <u>FF: Weak blow built to 1 1/4" in H2O bucket.</u>		
<u>ISI: Bled down for 30 sec. No blow back.</u>		
<u>FF: Dead blow.</u>		
<u>FST: No blow back.</u>		

Recovery — Total Feet <u>130'</u> GIP <u> </u>	Ft. in DC <u>130'</u>	Ft. in DP <u> </u>
Rec. <u>130'</u> Feet Of <u>MCW</u>	%gas <u> </u> %oil <u> </u> %water <u>85</u> %mud <u>15</u>	
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
Rec. <u> </u> Feet Of <u> </u>	%gas <u> </u> %oil <u> </u> %water <u> </u> %mud <u> </u>	
BHT <u>124°</u> °F Gravity <u> </u> °API D@ <u> </u> °F Corrected Gravity <u> </u> °API		
RW <u>.2</u> @ <u>67°</u> °F Chlorides <u>38,000</u> ppm Recovery Chlorides <u>6,000</u> ppm System		

	AK-1	Alpine		
(A) Initial Hydrostatic Mud	<u>2573</u>	<u>2530</u>	PSI Recorder No. <u>2350</u>	T-On Location <u>1240</u>
(B) First Initial Flow Pressure	<u>53</u>	<u>37</u>	PSI (depth) <u>5106'</u>	T-Started <u>1312</u>
(C) First Final Flow Pressure	<u>53</u>	<u>69</u>	PSI Recorder No. <u>10991</u>	T-Open <u>1646</u>
(D) Initial Shut-In Pressure	<u>1755</u>	<u>1773</u>	PSI (depth) <u>5131'</u>	T-Pulled <u>2031</u>
(E) Second Initial Flow Pressure	<u>85</u>	<u>74</u>	PSI Recorder No. <u> </u>	T-Out <u>2315</u>
(F) Second Final Flow Pressure	<u>85</u>	<u>101</u>	PSI (depth) <u> </u>	T-Off Location <u>0215</u>
(G) Final Shut-in Pressure	<u>1692</u>	<u>1713</u>	PSI Initial Opening <u>95</u>	Test <u>800</u> ✓
(Q) Final Hydrostatic Mud	<u>2502</u>	<u>2492</u>	PSI Initial Shut-in <u>60</u>	Jars <u>200</u> ✓
			Final Flow <u>60</u>	Safety Joint <u>50L</u>
			Final Shut-in <u>60</u>	Straddle <u> </u>

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Approved By *Jon T. Williams*
 Our Representative *Darren L. Lomberg*

Extra Packer
 Elec. Rec. 150L
 Mileage
 Other ext 1 30
 TOTAL PRICE \$ 1230

10.03

TRILOBITE TESTING L.L.C.

OPERATOR : Imperial Oil, Prop.

DATE 06/04/200

WELL NAME: Bergner"C"#17-1

KB 2154.00 ft

TICKET NO: 12845

DST #3

LOCATION : 17-32s-18w Comanche co KS

GR 2144.00 ft

FORMATION: Mississippi

INTERVAL : 5210.00 To 5232.00 ft

TD 5232.00 ft

TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	10991	10991	2350			PF Fr. 1727 to 1757 hr
SI 60	Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1757 to 1857 hr
SF 75	Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1857 to 2012 hr
FS 90	Depth(ft)	5229.0	5229.0	5216.0	0.0	0.0	FS Fr. 2012 to 2142 hr

	Field	1	2	3	4	
A. Init Hydro	2596.0	2552.0	2596.0	0.0	0.0	T STARTED 1504 hr
B. First Flow	43.0	45.0	72.0	0.0	0.0	T ON BOTM 1724 hr
B1. Final Flow	21.0	21.0	46.0	0.0	0.0	T OPEN 1727 hr
C. In Shut-in	1098.0	1087.0	1138.0	0.0	0.0	T PULLED 2142 hr
D. Init Flow	11.0	21.0	30.0	0.0	0.0	T OUT 0045 hr
E. Final Flow	11.0	7.0	19.0	0.0	0.0	
F. Fl Shut-in	906.0	897.0	959.0	0.0	0.0	TOOL DATA-----
3. Final Hydro	2554.0	2508.0	2595.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs

RECOVERY

Tot Fluid 0.50 ft of 0.50 ft in DC and 0.00 ft in DP
 5207.50 ft of Gas in pipe.
 0.50 ft of Water cut mud
 0.00 ft of 35% water 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 98000.00 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 607.41 ft
 D.P. Length 4600.59 ft

SALINITY 10000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
 Strong blow bottom of bucket in 15 seconds. Gas to surface in 6 minutes. Gauge gas.
 Initial Shut-In:
 Bled down for 10 minutes. No blow back.
 Final Flow:
 Strong blow bottom of bucket in 10 seconds. Gauge gas.
 Final Shut-In:
 Bled down for 5 minutes. No blow back

MUD DATA-----
 Mud Type Chemical
 Weight 9.30 lb/cf
 Vis. 58.00 S/L
 W.L. 12.00 in3
 F.C. 0.32 in
 Mud Drop N

Amt. of fill 0.00 ft
 Btm. H. Temp. 124.00 F
 Hole Condition Good
 % Porosity 0.00
 Packer Size 6.75 in
 No. of Packers 2
 Cushion Amt. 0.00 n
 Cushion Type none
 Reversed Out N
 Tool Chased N
 Tester Darren L.Amerine
 Co. Rep. Jon T.Williams
 Contr. Val Energy
 Rig # 2
 Unit # none
 Pump T. none

SAMPLES: Caraway analytical 728 N.Roosevelt
 SENT TO: Liberal, Ks 67901

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Bergner"C"#17-1

LOCATION : 17-32s-18w Comanche co KS

TICKET No. 12845 D.S.T. No. 3 DATE 06/04/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 22

TOTAL TOOL 53

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands10 Single Total 607.41

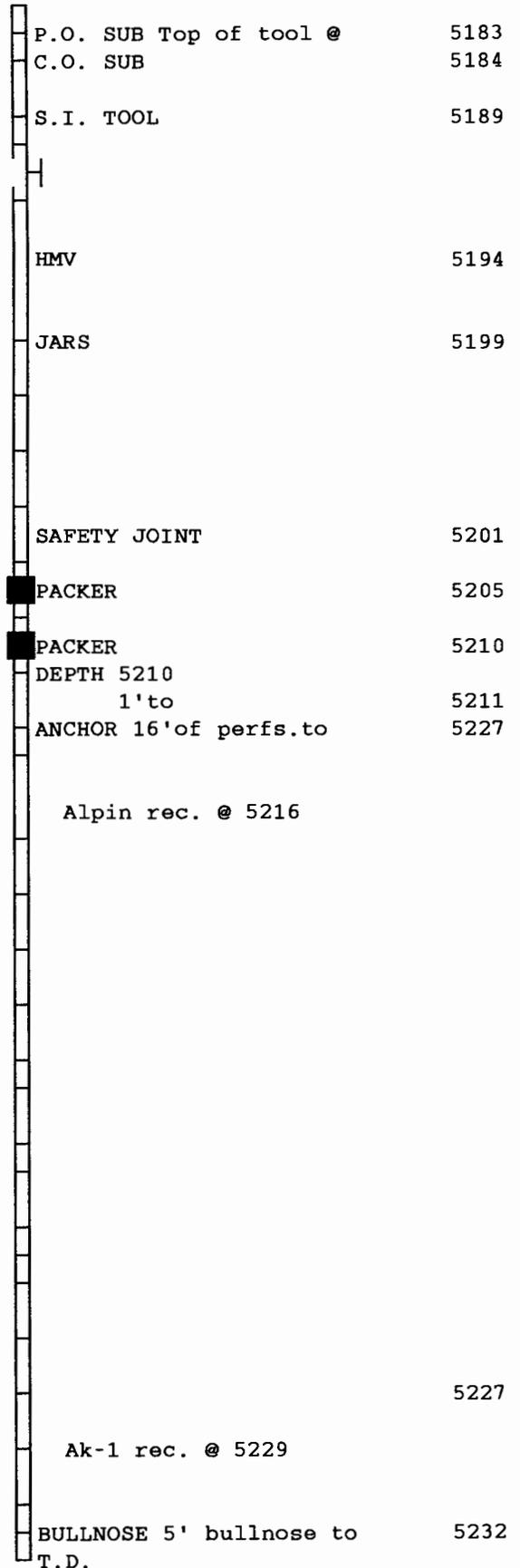
D.P. ABOVE TOOLS.Stands74 Single 1 Total 4600.59

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5261

TOTAL DEPTH 5232

TOTAL DRILL PIPE ABOVE K.B. 29

REMARKS:



TEST HISTORY

TK#12845 DST#3 Bergner'C'17-1 Imperial Oil, Prop.

Flag Points

t (Min.)	P (PSig)
R: 0.00	2595.88
B: 0.00	71.58
C: 28.25	45.90
D: 61.25	1137.72
E: 0.00	30.21
F: 71.00	19.29
G: 94.75	959.12
Q: 0.00	2595.29

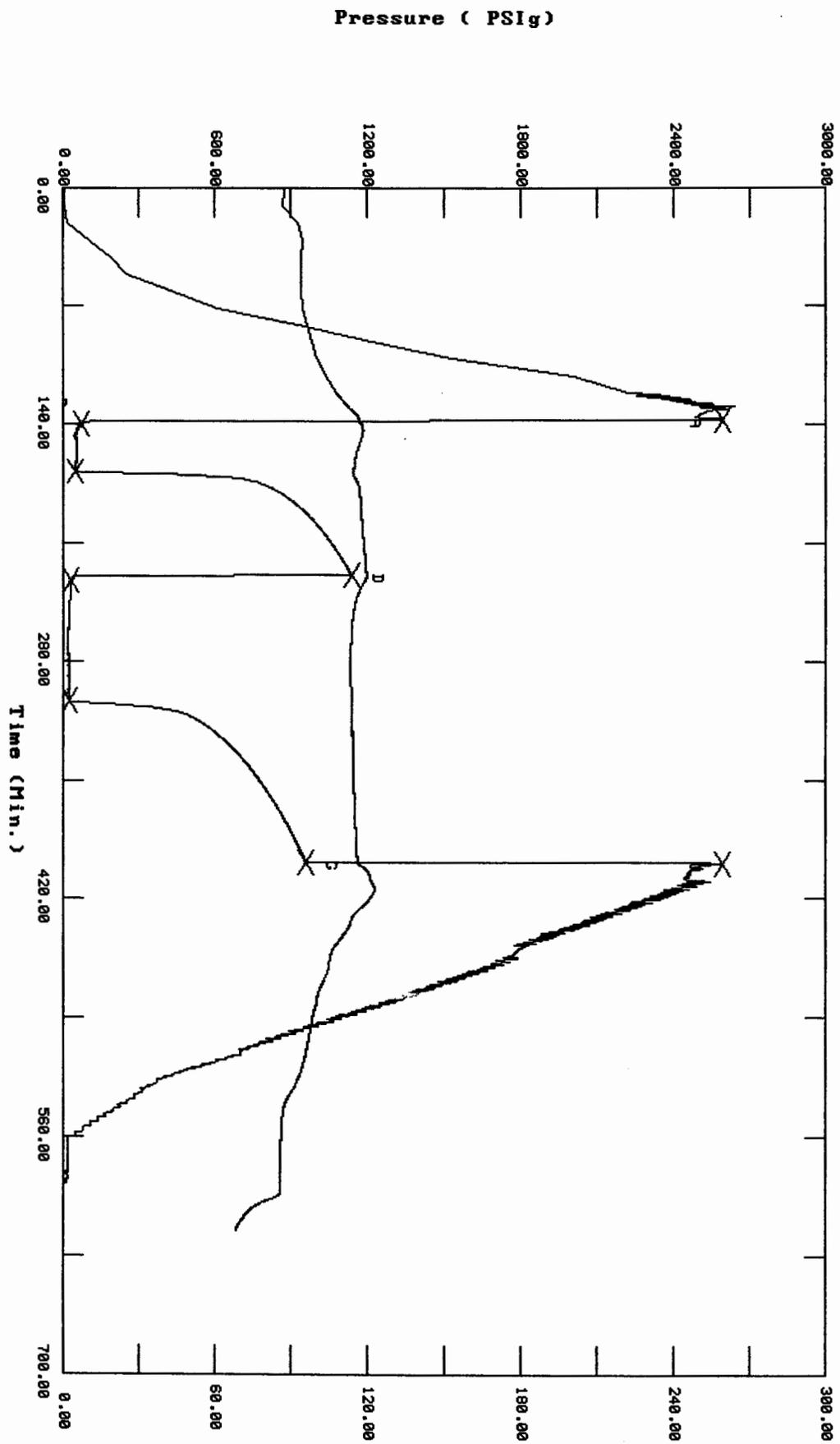
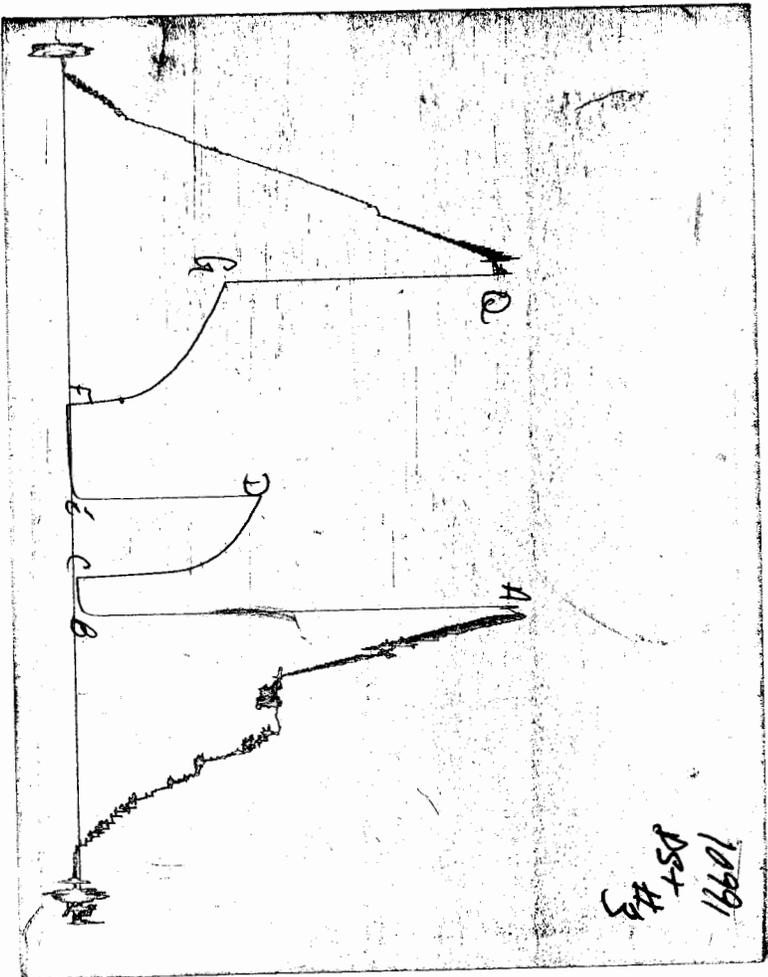


CHART PAGE



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

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

N^o 12845

Well Name & No. <u>Bergner "C" #17-1</u>		Test No. <u>#3</u>	Date <u>06/04/2000</u>
Company <u>Imperial Oil Prop</u>		Zone Tested <u>(Miss)</u>	
Address <u>200 East 15th St #413 Wichita, KS 67202</u>		Elevation <u>2154</u>	KB <u>2144</u> GL
Co. Rep / Geo. <u>Jon T. Williams</u> Cont. <u>Val Energy #2</u>		Est. Ft. of Pay <u>—</u>	Por. <u>—</u> %
Location: Sec. <u>17</u>	Twp. <u>32^S</u>	Rge. <u>18^W</u>	Co. <u>Comanche</u> State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet (Y, N) <u>—</u>	Turnkey (Y, N) <u>—</u>	Evaluation (Y, N) <u>—</u>

Interval Tested <u>5210' - 5232'</u>	Initial Str Wt./Lbs. <u>28000</u>	Unseated Str Wt./Lbs. <u>28000</u>
Anchor Length <u>22'</u>	Wt. Set Lbs <u>20000</u>	Wt. Pulled Loose/Lbs. <u>105000</u>
Top Packer Depth <u>5205'</u>	Tool Weight <u>2100</u>	
Bottom Packer Depth <u>5210'</u>	Hole Size — <u>7 7/8"</u>	Rubber Size — <u>6 3/4"</u>
Total Depth <u>5232</u>	Wt. Pipe Run <u>N/A</u>	Drill Collar Run <u>607.41</u>
Mud Wt. <u>9.3</u> LCM <u>0</u> Vis. <u>58</u> WL <u>12.0</u>	Drill Pipe Size <u>4 1/2 KH</u>	Ft. Run <u>4600.59</u>

Blow Description IF: Strong blow 50.0 in 15 sec. BTS in 6 mins.
ISI: Bled down for 10 mins No blow back
FF: Strong blow 50.0 in 10 sec Gauge Bad
FST: Bled down for 5 mins No blow back

Recovery — Total Feet <u>.5</u>	GIP <u>5207.5</u>	Ft. in DC <u>.5</u>	Ft. in DP <u>—</u>
Rec. <u>.5</u> Feet Of <u>WCM</u>	%gas	%oil	<u>35%</u> water <u>65%</u> mud
Rec. <u>5207.5</u> Feet Of <u>Gas In Pipe</u>	%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 124° °F Gravity _____ °API D@ _____ °F Corrected Gravity _____ °API
 RW .4 @ 60 °F Chlorides 10000 ppm Recovery Chlorides 8000 ppm System

	AK-1	Alpine	PSI	Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2596</u>	<u>2596</u>		<u>2350</u>	<u>1415</u>
(B) First Initial Flow Pressure	<u>43</u>	<u>72</u>		(depth) <u>5216</u>	T-Started <u>1504</u>
(C) First Final Flow Pressure	<u>21</u>	<u>46</u>		Recorder No. <u>10991</u>	T-Open <u>1727</u>
(D) Initial Shut-In Pressure	<u>1098</u>	<u>1138</u>		(depth) <u>5229</u>	T-Pulled <u>2142</u>
(E) Second Initial Flow Pressure	<u>11</u>	<u>30</u>		Recorder No. _____	T-Out <u>0045</u>
(F) Second Final Flow Pressure	<u>11</u>	<u>19</u>		(depth) _____	T-Off Location <u>0130</u>
(G) Final Shut-in Pressure	<u>906</u>	<u>959</u>		PSI Initial Opening <u>30</u>	Test <u>800</u> ✓
(Q) Final Hydrostatic Mud	<u>2554</u>	<u>2595</u>		PSI Initial Shut-in <u>60</u>	Jars <u>200</u> ✓
				Final Flow <u>75</u>	Safety Joint <u>50</u> ✓
				Final Shut-in <u>90</u>	Straddle _____

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]

Extra Packer _____
 Elec. Rec. 150 ✓
 Mileage _____
 Other est. 3/4 22.50
 TOTAL PRICE \$ 1222.50

TRILOBITE TESTING L.L.C.

OPERATOR : Imperial Oil, Prop.
 WELL NAME: Bergner"C" #17-1
 LOCATION : 17-32s-18w Comanche co KS
 INTERVAL : 5232.00 To 5252.00 ft

DATE 06/05/200
 KB 2154.00 ft TICKET NO: 12846 DST #4
 GR 2144.00 ft FORMATION: Mississippi
 TD 5252.00 ft TEST TYPE: CONVENTIONAL

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	10991	10991	2350			PF Fr. 1637 to 1707 hr
SI 60 Range(Psi)	4200.0	4200.0	4995.0	0.0	0.0	IS Fr. 1707 to 1807 hr
SF 60 Clock(hrs)	12hr.	12hr.	elec.			SF Fr. 1807 to 1907 hr
FS 90 Depth(ft)	5249.0	5249.0	5238.0	0.0	0.0	FS Fr. 1907 to 2037 hr

	Field	1	2	3	4	
A. Init Hydro	2680.0	2660.0	2690.0	0.0	0.0	T STARTED 1240 hr
B. First Flow	32.0	26.0	27.0	0.0	0.0	T ON BOTM 1634 hr
B1. Final Flow	32.0	20.0	33.0	0.0	0.0	T OPEN 1637 hr
C. In Shut-in	1703.0	1710.0	1740.0	0.0	0.0	T PULLED 2037 hr
D. Init Flow	32.0	29.0	19.0	0.0	0.0	T OUT 2330 hr
E. Final Flow	21.0	24.0	43.0	0.0	0.0	
F. Fl Shut-in	1734.0	1745.0	1759.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2659.0	2642.0	2590.0	0.0	0.0	Tool Wt. 2100.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 20000.00 lbs
						Wt Pulled Loose 105000.00 lbs
						Initial Str Wt 98000.00 lbs
						Unseated Str Wt 98000.00 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 607.41 ft
						D.P. Length 4602.59 ft

RECOVERY

Tot Fluid 65.00 ft of 65.00 ft in DC and 0.00 ft in DP
 2234.00 ft of Gas in pipe.
 65.00 ft of Slightly gas cut water mud
 0.00 ft of 10% gas 50% water 40% mud
 0.00 ft of
 SALINITY 40000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	47.00 S/L
W.L.	12.80 in3
F.C.	0.32 in
Mud Drop N	

BLOW DESCRIPTION

Initial Flow:
 Fair blow bottom of bucket in 3 minutes.
 Initial Shut-In:
 Bled down for 3 minutes. No blow back
 Final Flow:
 Strong blow bottom of bucket in 10 seconds.
 Final Shut-In:
 Bled down for 5 minutes. No blow back

Amt. of fill	0.00 ft
Btm. H. Temp.	127.00 F
Hole Condition	fair
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00 n
Cushion Type	none
Reversed Out N	
Tool Chased N	
Tester	Darren L.Amerine
Co. Rep.	Jon T.Williams
Contr.	Val Energy
Rig #	2
Unit #	none
Pump T.	none

SAMPLES:
 SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONVENTIONAL

WELL NAME: Bergner"C" #17-1

LOCATION : 17-32s-18w Comanche co KS

TICKET No. 12846 D.S.T. No. 4 DATE 06/05/200

TOTAL TOOL TO BOTTOM OF TOP PACKERS 31

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 20

TOTAL TOOL 51

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY

D.C. ABOVE TOOLS.Stands10 Single Total 607.41

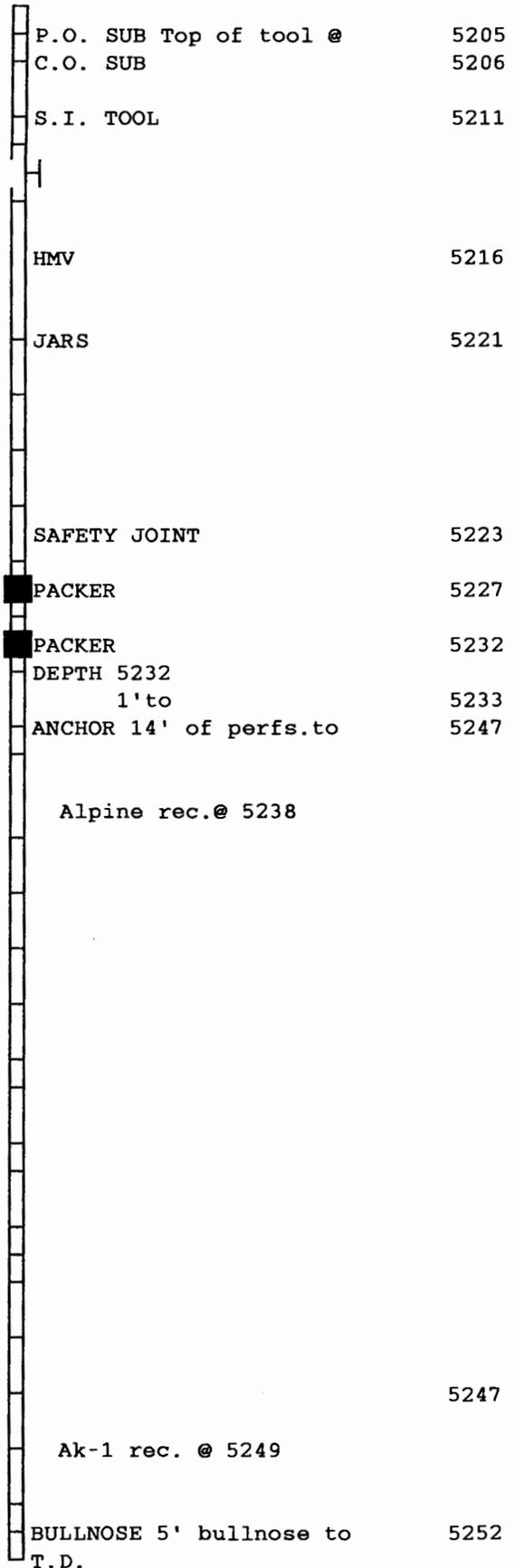
D.P. ABOVE TOOLS.Stands74 Single 1 Total 4602.59

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5261

TOTAL DEPTH 5252

TOTAL DRILL PIPE ABOVE K.B. 9

REMARKS:

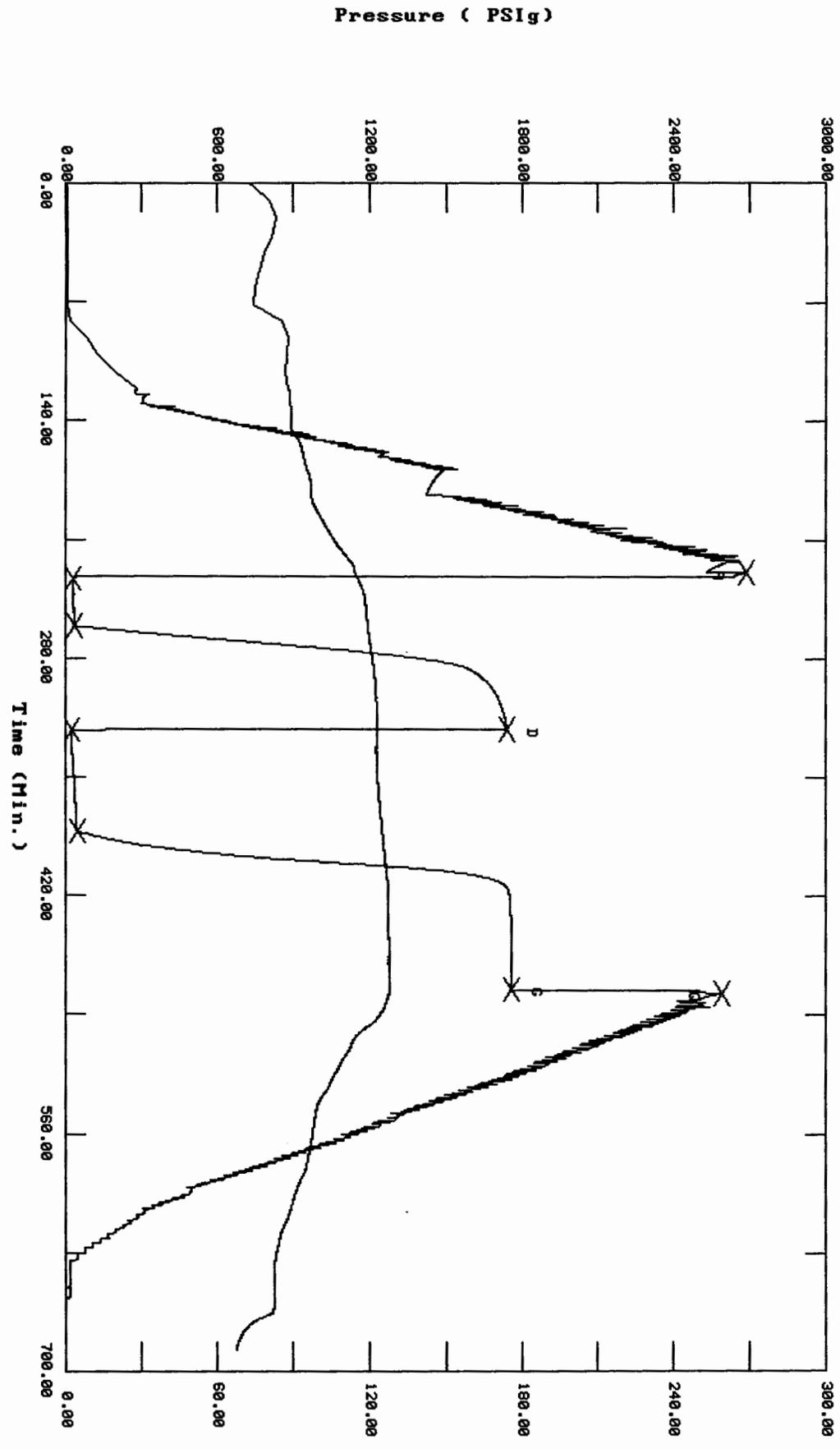


TEST HISTORY

TK#12946 DST#4 Bergner'C'#17-1 Imperial Oil, Prop.

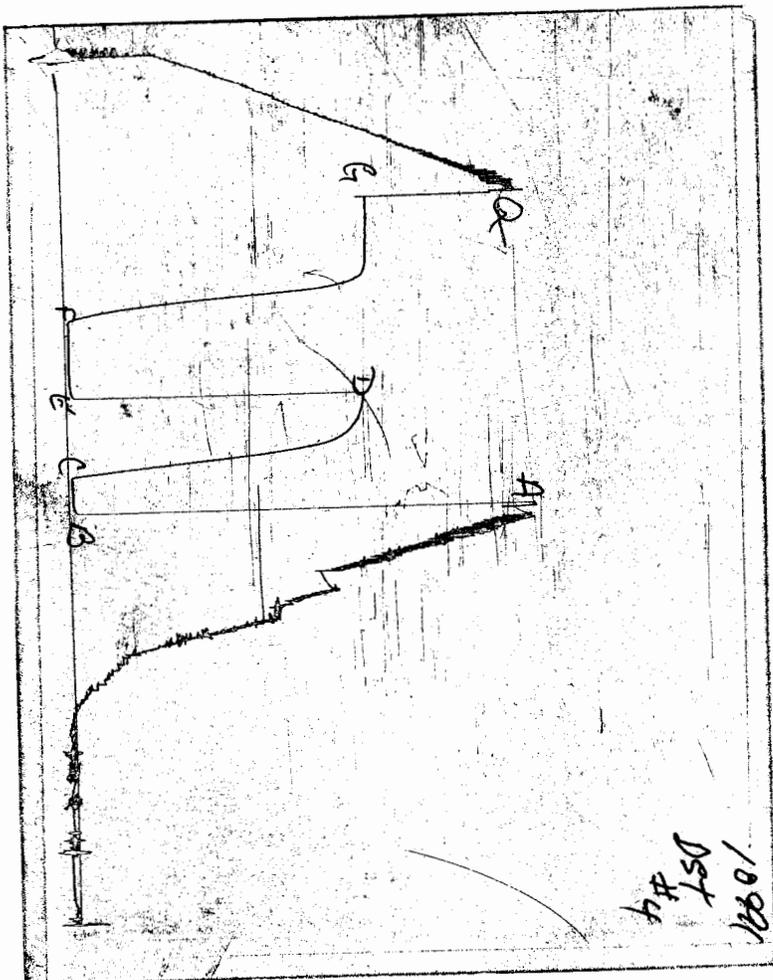
Flag Points

Time (Min.)	Pressure (PSIG)
R: 0.00	2690.30
B: 0.00	27.18
C: 28.00	33.39
D: 61.25	1739.90
E: 0.00	18.96
F: 59.50	42.88
G: 93.25	1758.88
H: 0.00	2590.34



Temperature (DEG F)

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

Test Ticket

No 12846

Well Name & No. Bergner #C" #17-1 Test No. #4 Date 06/05/2000
Company Imperial Oil, Prop. 200 East 1st Zone Tested (Miss)
Address St #413 Wichita, KS 67202 Elevation 2154 KB 2144 GL
Co. Rep / Geo. Jon T Williams Cont. Val Energy #2 Est. Ft. of Pay — Por. — %
Location: Sec. 17 Twp. 32S Rge. 18W Co. Comanche State KS
No. of Copies — Distribution Sheet (Y, N) — Turnkey (Y, N) — Evaluation (Y, N) —

Interval Tested 5232' - 5252' Initial Str Wt./Lbs. 98,000 Unseated Str Wt./Lbs. 98,000
Anchor Length 20' Wt. Set Lbs. 20,000 Wt. Pulled Loose/Lbs. 105,000
Top Packer Depth 5227 Tool Weight 2100
Bottom Packer Depth 5232 Hole Size — 7 7/8" L Rubber Size — 6 3/4" L
Total Depth 5252 Wt. Pipe Run N/A Drill Collar Run 60241
Mud Wt. 9.3 LCM 0 Vis. 47 WL 12.8 Drill Pipe Size 4 1/2 KH Ft. Run 4502.59
Blow Description IF: Fair blow b.o.p. in 3 mins.
ISI: Bled down for 3 mins No blow back.
FF: Strong blow b.o.p. in 10 sec.
FSL: Bled down for 5 mins. No blow back.

Recovery — Total Feet 65' GIP 2234 Ft. in DC 65' Ft. in DP —
Rec. 65 Feet Of 56 CWM 10% gas %oil 50% water 40% mud
Rec. 2234' Feet Of Gas In pipe %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 129" °F Gravity — °API D@ — °F Corrected Gravity — °API
RW .21 @ 68 °F Chlorides 40,000 ppm Recovery Chlorides 7,500 ppm System

	AK-1	Alpine	PSI Recorder No.	T-On Location
(A) Initial Hydrostatic Mud	<u>2680</u>	<u>2690</u>	<u>2350</u>	<u>1220</u>
(B) First Initial Flow Pressure	<u>32</u>	<u>27</u>	(depth) <u>5238'</u>	T-Started <u>1240</u>
(C) First Final Flow Pressure	<u>32</u>	<u>33</u>	PSI Recorder No. <u>10991</u>	T-Open <u>1637</u>
(D) Initial Shut-In Pressure	<u>1703</u>	<u>1940</u>	(depth) <u>5249'</u>	T-Pulled <u>2037</u>
(E) Second Initial Flow Pressure	<u>32</u>	<u>19</u>	PSI Recorder No. <u>—</u>	T-Out <u>2330</u>
(F) Second Final Flow Pressure	<u>21</u>	<u>43</u>	(depth) <u>—</u>	T-Off Location <u>0130</u>
(G) Final Shut-in Pressure	<u>1754</u>	<u>1759</u>	PSI Initial Opening <u>30</u>	Test <u>800 L</u>
(Q) Final Hydrostatic Mud	<u>2659</u>	<u>2590</u>	PSI Initial Shut-in <u>60</u>	Jars <u>200 L</u>
			Final Flow <u>60</u>	Safety Joint <u>50 L</u>
			Final Shut-in <u>90</u>	Straddle <u>—</u>

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Approved By [Signature]
Our Representative Danex J. [Signature]

Extra Packer —
Elec. Rec. 150 L
Mileage —
Other at 2 60
TOTAL PRICE \$ 1260