

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
ACO-1 WELL HISTORY  
DESCRIPTION OF WELL AND LEASE

Operator: License # 31990

Name: Cambrian Oil Corp.

Address 2400 W. Pawnee St.  
Suite 104

City/State/Zip Wichita, Ks 67213

Purchaser: Koch

Operator Contact Person: Phil MuGuckin

Phone ( 316 ) 941-9860

Contractor: Name: Nebraska Drilling

License: \_\_\_\_\_

Wellsite Geologist: Rod Andersen

Designate Type of Completion  
 New Well  Re-Entry  Workover

Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBT  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

4/9/97 4/17/97 4/25/97  
Spud Date Date Reached TD Completion Date

API NO. 15- 023-20357 0000

County Cheyenne

- - - - - SW Sec. 30 Twp. 1S Rge. 41 X E W

660 Feet from (S)K (circle one) Line of Section

660 Feet from (N)D (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner: **RECEIVED**  
NE, SE, NW or (SW) (circle one) KANSAS CORPORATION COMMISSION

Lease Name Ochsner "A" Well # 1

Field Name Nuttycombe

Producing Formation Lansing CONSERVATION DIVISION  
Elevation: Ground 3596 KB 3603 WICHITA, KS

Total Depth 5529 PBTD 5505

Amount of Surface Pipe Set and Cemented at 262 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan ALT 1 JK 9-24-97  
(Data must be collected from the Reserve Pit)

Chloride content 600 ppm Fluid volume \_\_\_\_\_

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: 9-9-97

Operator Name \_\_\_\_\_

Lease Name \_\_\_\_\_ License No. \_\_\_\_\_

Quarter Sec. Twp. S Rng. E/W

County \_\_\_\_\_ Docket No. \_\_\_\_\_

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature Rod Andersen

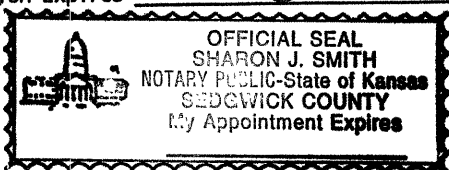
Title Geologist Date 8-4-97

Subscribed and sworn to before me this 4th day of August, 19 97.

Notary Public Sharon J. Smith

Date Commission Expires 3-12-98

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
  
Distribution  
 KCC  SWD/Rep  NGPA  
 KGS  Plug  Other (Specify)



SIDE TWO

Operator Name Cambrian Oil Corp. Lease Name Ochsner "A" Well # 1

Sec. 30 Twp. 1S Rge. 41  East  West  
 County Cheyenne

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets.)  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No  
 Electric Log Run  Yes  No  
 (Submit Copy.)  
 List All E.Logs Run: **DUAL INDUCTION  
 COMPENSATED DENSITY**

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Name	Top	Datum
Niobrara	1517	2086
Topeka	4356	-753
Lansing	4618	-1015
Mississippian	5382	-1779

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	83/4		262			
Production	77/8	4 1/2		5014	60/40 poz		

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
4	4761-4765	500 gal Kcl 1000 gal Hcl

TUBING RECORD		Size <u>27/8</u>	Set At <u>4760</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	5/17/97	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil 90 Bbls.	Gas	Ncf	Water - Bbls.	Gas-Oil Ratio Gravity

Disposition of Gas: **METHOD OF COMPLETION**  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  Open Hole  Perf.  Dually Comp.  Commingled **4761' - 4765'**  
 Other (Specify) \_\_\_\_\_



# ALLIED CEMENTING CO., INC. 5462

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: OKley

DATE <u>4-17-97</u>	SEC. <u>30</u>	TWP. <u>1</u>	RANGE <u>41</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>3:30 AM</u>
LEASE <u>Ochsner</u>		WELL# <u>1</u>	LOCATION <u>St Francis 2W 5N 5W 5N 2W</u>			COUNTY <u>Cheyenne</u>	STATE <u>Kan</u>

OLD OR NEW (Circle one)

CONTRACTOR Neb Drlg  
 TYPE OF JOB Prod String Top Stage  
 HOLE SIZE 7 7/8 T.D. 5528  
 CASING SIZE 4 1/2 DEPTH 5527  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL O.V. DEPTH 2220  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_

OWNER \_\_\_\_\_ CEMENT \_\_\_\_\_

AMOUNT ORDERED 125 Asc 10% Salt  
590 Gal  
500 gal WFR2

COMMON	<u>125 Asc</u>	@	<u>870</u>	<u>1087.50</u>
POZMIX		@		
GEL		@		
CHLORIDE		@		
<u>Salt</u>	<u>12</u>	@	<u>7.00</u>	<u>84.00</u>
<u>Gal</u>	<u>588</u>	@	<u>41</u>	<u>241.08</u>
		@		
		@		
HANDLING		@	<u>10.5</u>	<u>131.25</u>
MILEAGE	<u>105</u>		<u>04</u>	<u>525.00</u>
TOTAL				<u>1984.83</u>
				<u>2068.83</u>

**EQUIPMENT**

PUMP TRUCK CEMENTER M A Doo  
 # 300 HELPER Terry  
 BULK TRUCK  
 # 305 DRIVER Wayne  
 BULK TRUCK  
 # 212 DRIVER Jeff

**REMARKS:**

O.V. Tool at 2220'

**SERVICE**

DEPTH OF JOB \_\_\_\_\_  
 PUMP TRUCK CHARGE \_\_\_\_\_ 550.00  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE \_\_\_\_\_ @ \_\_\_\_\_  
 PLUG \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

TOTAL 550.00

CHARGE TO: Cambrian Oil Co.  
 STREET 4480 S Meridian #92  
 CITY Wichita STATE Kan ZIP 67213

**FLOAT EQUIPMENT**

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

To Allied Cementing Co., Inc.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE \_\_\_\_\_

TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

# ALLIED CEMENTING CO., INC. 5461

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: OKley

DATE <u>4-17-97</u>	SEC. <u>30</u>	TWP. <u>1</u>	RANGE <u>41</u>	CALLED OUT	ON LOCATION <u>7:30 PM</u>	JOB START	JOB FINISH <u>3 AM</u>
LEASE <u>Ochsner</u>		WELL# <u>1</u>	LOCATION <u>St Francis 2W5N5W5N</u>		COUNTY <u>Cheyenne</u>	STATE <u>Kan</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR <u>Web Drlg</u>	OWNER _____
TYPE OF JOB <u>Prod String Bottom Stage</u>	CEMENT _____
HOLE SIZE <u>7 7/8</u> T.D. <u>5528</u>	AMOUNT ORDERED <u>125 Lite &amp; Flo Seal</u>
CASING SIZE _____ DEPTH _____	<u>200 ASC 10% Salt 5% Gil</u>
TUBING SIZE _____ DEPTH _____	<u>500 gal w/ K2</u>
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	COMMON <u>200 ASC</u> @ <u>870</u> <u>1740.00</u>
MEAS. LINE _____ SHOE JOINT _____	POZMIX _____ @ _____
CEMENT LEFT IN CSG. _____	GEL _____ @ _____
PERFS. _____	CHLORIDE _____ @ _____

**EQUIPMENT**

PUMP TRUCK # <u>300</u>	CEMENTER <u>B McAldoo</u>
BULK TRUCK # <u>305</u>	HELPER <u>Terry</u>
BULK TRUCK # <u>212</u>	DRIVER <u>Wayne</u>
	DRIVER <u>Jeff</u>

Salt	20	@	700	140.00
Gil	9.40	@	41	385.40
Lite	125	@	6.65	831.25
Flo Seal	31#	@	1.15	35.65
HANDLING		@	105	341.25
MILEAGE	105		3.4	1365.00
<b>TOTAL</b>				<b>4838.55</b>

**REMARKS:**

Cent on 1, 4-9-14-18-21-83

DV Tool on Bottom 84 2220'

Basket on to 83

Float Held.

**SERVICE**

DEPTH OF JOB	5528			
PUMP TRUCK CHARGE				1312.00
EXTRA FOOTAGE		@		
MILEAGE	105	@	2.85	298.25
PLUG		@		
		@		
		@		
<b>TOTAL</b>				<b>1611.25</b>

CHARGE TO: Cambrian Oil Co.

STREET 4480 S Meridian #92

CITY Wichita STATE Kan ZIP 67213

**FLOAT EQUIPMENT**

(4 1/2) Guide shoe	@		140.00	
In sent	@		235.00	
7 Cent	@	53.00	371.00	
1 Basket	@		129.00	
1 DV Tool	@		3654.00	
3 Rep sct.		29.00	87.00	
<b>TOTAL</b>				<b>4616.00</b>

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE \_\_\_\_\_

# ALLIED CEMENTING CO., INC.

5519

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT:

Oakley

DATE <u>4-7-97</u>	SEC. <u>30</u>	TWP. <u>1</u>	RANGE <u>41</u>	CALLED OUT	ON LOCATION <u>8:45 AM</u>	JOB START	JOB FINISH <u>11:30 AM</u>
LEASE <u>Oshner</u>	WELL # <u>1</u>	LOCATION <u>Hagler 65-24-ns</u>			COUNTY <u>Cherokee</u>	STATE <u>Kan</u>	

OLD OR NEW (Circle one)

CONTRACTOR <u>Nebraska Drilling #1</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/4</u>	T.D. <u>262'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>261'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'-20'</u>	
PERFS.	

AMOUNT ORDERED 170 SKS 60/40 per  
3% cc, 2% gel

COMMON	<u>102 SKS</u>	@	<u>7.20</u>	<u>734.40</u>
POZMIX	<u>68 SKS</u>	@	<u>3.15</u>	<u>214.20</u>
GEL	<u>3 SKS</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5 SKS</u>	@	<u>28.00</u>	<u>140.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>170 SKS</u>	@	<u>1.05</u>	<u>178.50</u>
MILEAGE	<u>4 1/2 per sk/mile</u>			<u>714.00</u>

**EQUIPMENT**

PUMP TRUCK	CEMENTER <u>Walt</u>
# <u>102</u>	HELPER <u>Walt</u>
BULK TRUCK	
# <u>218</u>	DRIVER <u>Wayne</u>
BULK TRUCK	
#	DRIVER

TOTAL 2009.60

**REMARKS:**

**SERVICE**

Cement Did Circ

Walt

DEPTH OF JOB	<u>261</u>	
PUMP TRUCK CHARGE		<u>445.00</u>
EXTRA FOOTAGE	@	<u>299.25</u>
MILEAGE	<u>105 miles</u>	@ <u>2.85</u> <u>194.25</u>
PLUG	<u>8 5/8 Surface</u>	@ <u>45.00</u>
		@
		@

TOTAL 684.25  
789.25

CHARGE TO: Cambrian Oil Corp

STREET 4480 S. Meridian #92

CITY Wichita STATE Kan ZIP 67213

**FLOAT EQUIPMENT**

	@	
	@	
	@	
	@	
	@	

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

To Allied Cementing Co., Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Robert H. ...

ORIGINAL

**WELL NAME:** Ochsher #1  
**COMPANY:** Cambrian Oil Corporation  
**LOCATION:** 30-1S-41W  
Cheyenne County Kansas  
**DATE:** 04/18/97

15-623-20351

TRILOBITE TESTING L.L.C.

OPERATOR : Cambrian Oil Corporation  
 WELL NAME: Ochsher #1  
 LOCATION : 30-1S-41W Cheyenne KS.  
 INTERVAL : 4601.00 To 4618.00 ft

DATE 4-12-97  
 KB 3613.00 ft TICKET NO: 9976 DST #1  
 GR 3605.00 ft FORMATION: Toronto  
 TD 4618.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
DF 30 Rec.	13339	13339	2341			PF Fr. 1856 to 1926 hr
I 60 Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1926 to 2026 hr
CF 30 Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 2026 to 2056 hr
FS 60 Depth(ft )	4613.0	4613.0	4603.0	0.0	0.0	FS Fr. 2056 to 2156 hr

	Field	1	2	3	4	
A. Init Hydro	2283.0	2586.0	2321.0	0.0	0.0	T STARTED 1526 hr
B. First Flow	384.0	389.0	369.0	0.0	0.0	T ON BOTM 1854 hr
C. Final Flow	384.0	394.0	373.0	0.0	0.0	T OPEN 1856 hr
D. In Shut-in	1572.0	1582.0	1571.0	0.0	0.0	T PULLED 2156 hr
E. Init Flow	415.0	468.0	369.0	0.0	0.0	T OUT 0045 hr
F. Final Flow	415.0	435.0	373.0	0.0	0.0	
G. Fl Shut-in	1502.0	1512.0	1505.0	0.0	0.0	TOOL DATA-----
H. Final Hydro	2353.0	2360.0	2224.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	O	O	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 60000.00 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 427.00 ft
						D.P. Length 4175.00 ft

RECOVERY

Total Fluid 640.00 ft of 427.00 ft in DC and 393.00 ft in DP  
 640.00 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

BLOW DESCRIPTION

Initial Flow:  
 Weak surface blow, died in 13 mins.

Initial Shut In:

Final Flow:  
 No return blow

Final Shut In:

SAMPLES:

SENT TO:

Test Successful: Y

MUD DATA-----

Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	45.00 S/L
W.L.	7.20 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	138.00 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	Rod Steinbrink
Co. Rep.	Phil
Contr.	Nebraska Drlg.
Rig #	1
Unit #	
Pump T.	

\*\*\* TOOL DIAGRAM \*\*\* CONV

WELL NAME: Ochsher #1

LOCATION : 30-1S-41W Cheyenne KS.

TICKET No. 9976 D.S.T. No. 1 DATE 4-12-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL ..... 17

BOTTOM PACKERS AND ANCHOR .....

TOTAL TOOL ..... 44

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.	Stands	Single	Total
-------------------	--------	--------	-------

D.P. ANCHOR STND.	Stands	Single	Total
-------------------	--------	--------	-------

TOTAL ASSEMBLY ..... 44

D.C. ABOVE TOOLS.	Stands	7	Single	Total	427
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D.P. ABOVE TOOLS.	Stands	67	Single	1	Total	4175
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4646

TOTAL DEPTH ..... 4618

TOTAL DRILL PIPE ABOVE K.B. .... 28

REMARKS:

Pool Opened while tripping to bttm picking up fluid, through the Niobra section roughly 600' thick

P.O. SUB 1' Above 120' DC	4454
C.O. SUB 1'	4574
S.I. TOOL 5'	4580
HMV 5'	4585
JARS 5'	4590
SAFETY JOINT 2'	4592
PACKER 4'	4596
PACKER 5'	4601
DEPTH STUBB 1'	4602
ANCHOR	
Alp. Rec. @ 4603	
11' Perf.	4613
T.C. DEPTH	
AK-1 Rec. @ 4613	
BULLNOSE 5'	
T.D.	4618



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9976 DST #1 Ochsher #1 Cambrian Oil Corp.

DATE: 04/12/97

TIME: 15:27:09

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	147.00	2321.5	0.0	124.75		
***** Start Flow 1	0.00	369.5	0.0	125.18		
	1.00	370.8	1.3	125.88		
	2.00	371.5	2.0	126.59		
	3.00	371.9	2.3	127.17		
	4.00	372.1	2.6	127.66		
	5.00	372.4	2.9	127.95		
	6.00	372.5	2.9	128.22		
	7.00	372.7	3.2	128.39		
	8.00	372.6	3.1	128.51		
	9.00	372.8	3.3	128.61		
	10.00	372.8	3.3	128.66		
	11.00	372.8	3.3	128.70		
	12.00	373.0	3.5	128.72		
	13.00	373.0	3.5	128.72		
	14.00	373.1	3.5	128.72		
	15.00	373.0	3.5	128.72		
	16.00	372.9	3.4	128.73		
	17.00	373.0	3.5	128.71		
	18.00	373.0	3.4	128.69		
	19.00	373.1	3.5	128.71		
	20.00	373.0	3.5	128.71		
	21.00	373.1	3.6	128.73		
	22.00	373.1	3.6	128.74		
	23.00	373.1	3.6	128.76		
	24.00	373.1	3.6	128.78		
	25.00	373.2	3.7	128.82		
	26.00	373.1	3.6	128.84		
	27.00	373.2	3.7	128.88		
	28.00	373.2	3.7	128.89		
	29.00	373.3	3.7	128.95		
***** End Flow 1	30.00	373.2	3.7	129.00		
***** Start Shutin 1	0.00	373.2	0.0	129.00	0.0000	0.139
	1.00	372.1	-1.1	129.05	31.0000	0.138
	2.00	386.3	13.1	129.08	16.0000	0.149
	3.00	535.5	162.3	129.19	11.0000	0.287
	4.00	654.9	281.6	129.26	8.5000	0.429
	5.00	753.3	380.0	129.33	7.0000	0.567
	6.00	836.3	463.0	129.40	6.0000	0.699
	7.00	907.0	533.8	129.48	5.2857	0.823
	8.00	968.2	595.0	129.56	4.7500	0.937
	9.00	1021.4	648.2	129.64	4.3333	1.043
	10.00	1068.4	695.1	129.71	4.0000	1.141
	11.00	1109.7	736.5	129.79	3.7273	1.231
	12.00	1146.6	773.4	129.87	3.5000	1.315
	13.00	1179.5	806.2	129.95	3.3077	1.391
	14.00	1209.2	835.9	130.04	3.1429	1.462
	15.00	1235.9	862.6	130.11	3.0000	1.527
	16.00	1260.1	886.8	130.19	2.8750	1.588
	17.00	1282.1	908.9	130.28	2.7647	1.644
	18.00	1302.3	929.1	130.37	2.6667	1.696

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9976 DST #1 Ochsher #1 Cambrian Oil Corp.

DATE: 04/12/97

TIME: 15:27:09

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
19.00	1320.7	947.4	130.43	2.5789	1.744
20.00	1337.6	964.4	130.52	2.5000	1.789
21.00	1353.1	979.8	130.58	2.4286	1.831
22.00	1367.5	994.2	130.66	2.3636	1.870
23.00	1380.8	1007.6	130.73	2.3043	1.907
24.00	1393.0	1019.8	130.81	2.2500	1.940
25.00	1404.5	1031.2	130.88	2.2000	1.973
26.00	1415.2	1041.9	130.91	2.1538	2.003
27.00	1424.9	1051.7	131.03	2.1111	2.030
28.00	1434.2	1061.0	131.11	2.0714	2.057
29.00	1442.9	1069.6	131.17	2.0345	2.082
30.00	1451.1	1077.8	131.27	2.0000	2.106
31.00	1458.6	1085.4	131.33	1.9677	2.128
32.00	1465.8	1092.5	131.38	1.9375	2.148
33.00	1472.5	1099.3	131.46	1.9091	2.168
34.00	1478.8	1105.6	131.52	1.8824	2.187
35.00	1484.8	1111.5	131.61	1.8571	2.205
36.00	1490.4	1117.2	131.66	1.8333	2.221
37.00	1495.8	1122.5	131.74	1.8108	2.237
38.00	1500.8	1127.6	131.81	1.7895	2.252
39.00	1505.5	1132.3	131.89	1.7692	2.267
40.00	1510.1	1136.9	131.95	1.7500	2.280
41.00	1514.5	1141.3	132.03	1.7317	2.294
42.00	1518.6	1145.4	132.09	1.7143	2.306
43.00	1522.5	1149.2	132.16	1.6977	2.318
44.00	1526.2	1153.0	132.24	1.6818	2.329
45.00	1529.7	1156.5	132.31	1.6667	2.340
46.00	1533.2	1159.9	132.37	1.6522	2.351
47.00	1536.4	1163.1	132.44	1.6383	2.360
48.00	1539.4	1166.2	132.52	1.6250	2.370
49.00	1542.4	1169.1	132.58	1.6122	2.379
50.00	1545.3	1172.1	132.67	1.6000	2.388
51.00	1547.9	1174.7	132.71	1.5882	2.396
52.00	1550.6	1177.3	132.81	1.5769	2.404
53.00	1553.0	1179.7	132.87	1.5660	2.412
54.00	1555.4	1182.2	132.92	1.5556	2.419
55.00	1557.6	1184.4	133.01	1.5455	2.426
56.00	1559.8	1186.6	133.05	1.5357	2.433
57.00	1562.0	1188.7	133.11	1.5263	2.440
58.00	1563.9	1190.6	133.17	1.5172	2.446
59.00	1565.9	1192.6	133.30	1.5085	2.452
60.00	1567.8	1194.6	133.32	1.5000	2.458
61.00	1569.7	1196.4	133.40	1.4918	2.464
62.00	1571.4	1198.1	133.44	1.4839	2.469
***** End Shut-in 1					
***** Start Flow 2	0.00	369.1	0.0	133.43	
	1.00	371.4	2.2	133.47	
	2.00	371.3	2.2	133.50	
	3.00	371.3	2.2	133.55	
	4.00	371.5	2.4	133.62	
	5.00	371.7	2.6	133.67	
	6.00	371.9	2.8	133.73	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9976 DST #1 Ochsher #1 Cambrian Oil Corp.

DATE: 04/12/97

TIME: 15:27:09

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6	
7.00	372.0	2.8	133.79			
8.00	371.8	2.7	133.85			
9.00	371.9	2.8	133.92			
10.00	372.0	2.8	133.98			
11.00	372.0	2.9	134.05			
12.00	372.0	2.9	134.09			
13.00	372.2	3.0	134.16			
14.00	372.2	3.0	134.21			
15.00	372.4	3.2	134.28			
16.00	372.3	3.1	134.33			
17.00	372.3	3.2	134.38			
18.00	372.4	3.3	134.44			
19.00	372.5	3.4	134.49			
20.00	372.4	3.2	134.55			
21.00	372.5	3.3	134.60			
22.00	372.5	3.3	134.66			
23.00	372.5	3.4	134.72			
24.00	372.5	3.4	134.76			
25.00	372.6	3.4	134.82			
26.00	372.6	3.5	134.88			
27.00	372.6	3.5	134.94			
28.00	372.6	3.5	134.98			
***** End Flow 2						
***** Start Shutin 2	0.00	372.6	0.0	134.98	0.0000	0.139
	1.00	439.4	66.8	134.99	59.0000	0.193
	2.00	567.3	194.7	135.07	30.0000	0.322
	3.00	670.5	297.9	135.14	20.3333	0.450
	4.00	756.2	383.5	135.22	15.5000	0.572
	5.00	828.5	455.9	135.29	12.6000	0.686
	6.00	890.6	518.0	135.35	10.6667	0.793
	7.00	944.5	571.9	135.44	9.2857	0.892
	8.00	991.7	619.0	135.50	8.2500	0.983
	9.00	1033.2	660.6	135.56	7.4444	1.068
	10.00	1070.2	697.5	135.62	6.8000	1.145
	11.00	1103.3	730.7	135.68	6.2727	1.217
	12.00	1132.9	760.3	135.73	5.8333	1.284
	13.00	1159.7	787.0	135.82	5.4615	1.345
	14.00	1183.9	811.3	135.90	5.1429	1.402
	15.00	1206.0	833.4	135.96	4.8667	1.454
	16.00	1226.2	853.5	136.01	4.6250	1.503
	17.00	1244.6	872.0	136.07	4.4118	1.549
	18.00	1261.5	888.8	136.11	4.2222	1.591
	19.00	1277.2	904.5	136.18	4.0526	1.631
	20.00	1291.6	919.0	136.22	3.9000	1.668
	21.00	1305.0	932.4	136.29	3.7619	1.703
	22.00	1317.4	944.8	136.32	3.6364	1.736
	23.00	1329.1	956.4	136.40	3.5217	1.766
	24.00	1339.9	967.3	136.44	3.4167	1.795
	25.00	1350.0	977.3	136.48	3.3200	1.822
	26.00	1359.4	986.8	136.54	3.2308	1.848
	27.00	1368.4	995.7	136.62	3.1481	1.872
	28.00	1376.9	1004.2	136.66	3.0714	1.896

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9976 DST #1 Ochsher #1 Cambrian Oil Corp.

DATE: 04/12/97

TIME: 15:27:09

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
29.00	1384.6	1012.0	136.71	3.0000	1.917
30.00	1392.1	1019.4	136.71	2.9333	1.938
31.00	1399.1	1026.5	136.81	2.8710	1.957
32.00	1405.7	1033.0	136.87	2.8125	1.976
33.00	1411.9	1039.2	136.92	2.7576	1.993
34.00	1417.9	1045.3	136.93	2.7059	2.010
35.00	1423.5	1050.9	137.01	2.6571	2.026
36.00	1428.9	1056.3	137.07	2.6111	2.042
37.00	1433.9	1061.3	137.13	2.5676	2.056
38.00	1438.8	1066.1	137.17	2.5263	2.070
39.00	1443.4	1070.7	137.20	2.4872	2.083
40.00	1447.8	1075.2	137.27	2.4500	2.096
41.00	1452.2	1079.5	137.31	2.4146	2.109
42.00	1456.2	1083.6	137.35	2.3810	2.121
43.00	1460.0	1087.4	137.40	2.3488	2.132
44.00	1463.8	1091.2	137.48	2.3182	2.143
45.00	1467.2	1094.6	137.50	2.2889	2.153
46.00	1470.8	1098.1	137.55	2.2609	2.163
47.00	1474.0	1101.3	137.60	2.2340	2.173
48.00	1477.1	1104.5	137.65	2.2083	2.182
49.00	1480.2	1107.6	137.67	2.1837	2.191
50.00	1483.1	1110.4	137.73	2.1600	2.199
51.00	1485.8	1113.1	137.78	2.1373	2.208
52.00	1488.5	1115.9	137.82	2.1154	2.216
53.00	1491.1	1118.5	137.86	2.0943	2.223
54.00	1493.6	1120.9	137.93	2.0741	2.231
55.00	1496.0	1123.4	137.96	2.0545	2.238
56.00	1498.4	1125.8	138.01	2.0357	2.245
57.00	1500.7	1128.1	138.05	2.0175	2.252
58.00	1502.9	1130.3	138.01	2.0000	2.259
***** End Shut-in 2	59.00	1505.0	1132.4	138.13	2.265
***** Final Hydro.	330.00	2224.5	0.0	138.28	

# TEST HISTORY

9976 DST #1 Ochsher #1 Cambrian Oil Corp.

Flag Points  
t(Min.) P( PSig)

A:	0.00	2321.48
B:	0.00	369.54
C:	30.00	373.24
D:	62.00	1571.38
E:	0.00	369.15
F:	28.00	372.63
G:	59.00	1505.03
Q:	0.00	2224.52

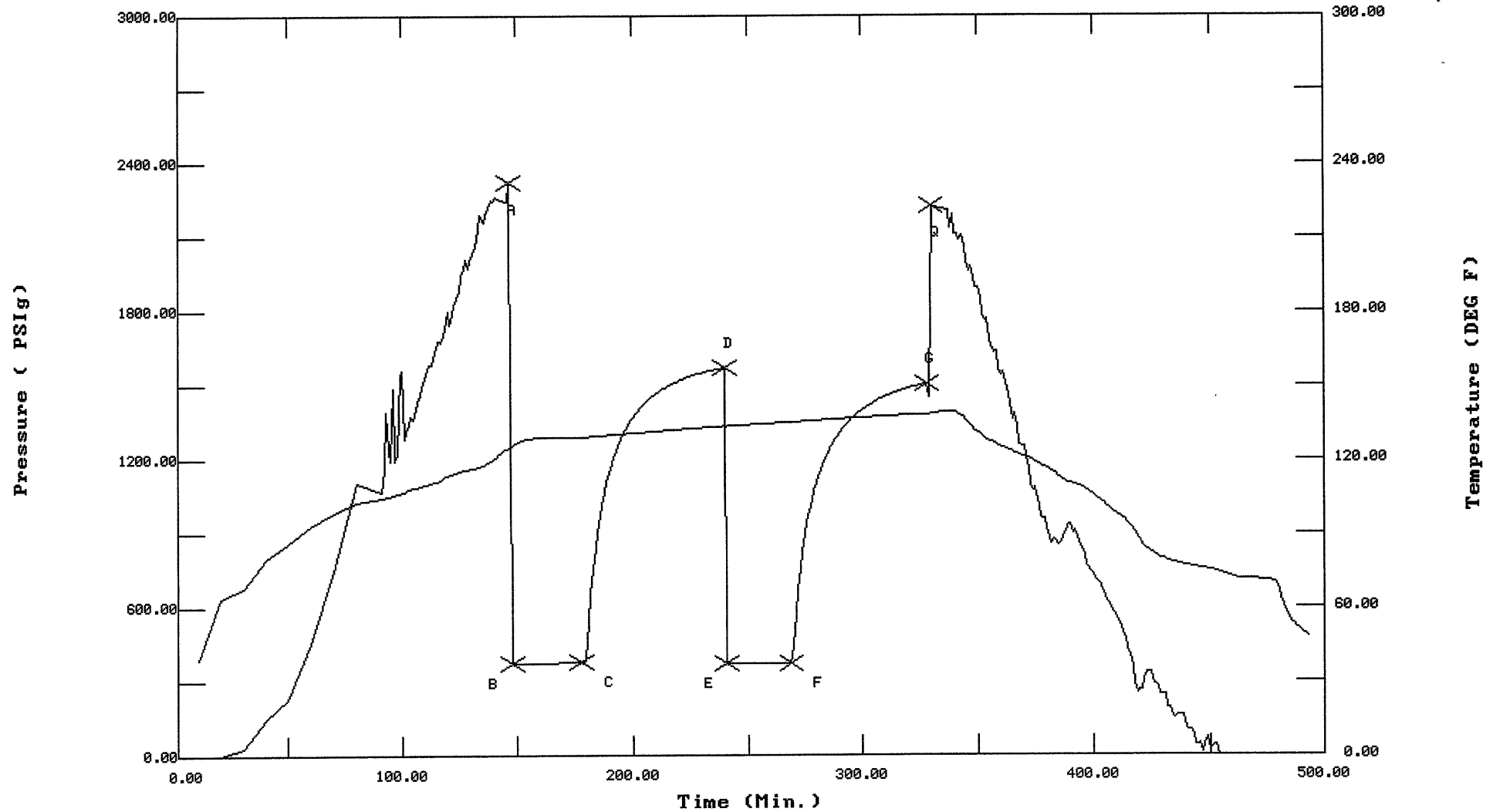
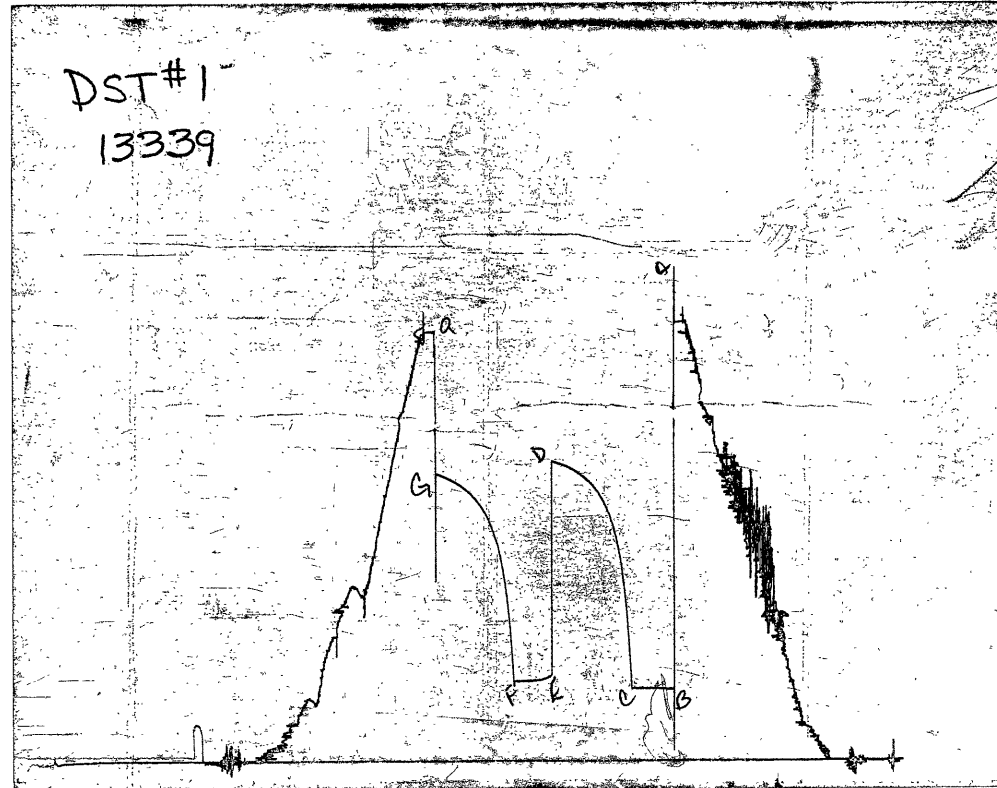


CHART PAGE



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<sup>o</sup> 9976

Well Name & No. Ochsher #1 Test No. 1 Date 4-12-97  
 Company Cambrian Oil Corporation Zone Tested Toronto  
 Address 4480 S Meridian #92 Wichita, KS, 67213 Elevation 3613 KB 3605 GL  
 Co. Rep / Geo. \_\_\_\_\_ Cont. Nebraska #1 Est. Ft. of Pay \_\_\_\_\_ Por. \_\_\_\_\_ %  
 Location: Sec. 30 Twp. 1<sup>s</sup> Rge. 41<sup>w</sup> Co. Cheyenne State KS.  
 No. of Copies \_\_\_\_\_ Distribution Sheet (Y, N) N Turnkey (Y, N) \_\_\_\_\_ Evaluation (Y, N) N

Interval Tested 4601 - 4618 Initial Str Wt./Lbs. 50,000 Unseated Str Wt./Lbs. 50,000  
 Anchor Length 17' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 60,000  
 Top Packer Depth 4596 Tool Weight 1,800  
 Bottom Packer Depth 4601 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Total Depth 4618 Wt. Pipe Run — Drill Collar Run 427'  
 Mud Wt. 9.1 LCM \_\_\_\_\_ Vis. 45 WL 7.2 Drill Pipe Size 4 1/2" XH Ft. Run 4175'  
 Blow Description IF: Weak surface blow died in 13 mins.

FF: No return blow

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
<u>640'</u>	<u>—</u>	<u>247'</u>	<u>393'</u>				
Rec. <u>640'</u> Feet Of <u>Drlg. Mud</u>							
Rec. _____ Feet Of _____							
Rec. _____ Feet Of _____							
Rec. _____ Feet Of _____							

BHT 138<sup>o</sup> °F Gravity \_\_\_\_\_ °API D@ \_\_\_\_\_ °F Corrected Gravity \_\_\_\_\_ °API  
 RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm Recovery Chlorides 650 ppm System

(A) Initial Hydrostatic Mud	<u>2283</u>	<u>2243</u>	PSI	Recorder No. <u>2341</u>	T-Started <u>1526</u>
(B) First Initial Flow Pressure	<u>384</u>	<u>369</u>	PSI	(depth) <u>4603</u>	T-Open <u>1856</u>
(C) First Final Flow Pressure	<u>384</u>	<u>373</u>	PSI	Recorder No. <u>13339</u>	T-Pulled <u>2156</u>
(D) Initial Shut-in Pressure	<u>1572</u>	<u>1571</u>	PSI	(depth) <u>4613</u>	T-Out <u>0045</u>
(E) Second Initial Flow Pressure	<u>415</u>	<u>369</u>	PSI	Recorder No. <u>—</u>	
(F) Second Final Flow Pressure	<u>415</u>	<u>372</u>	PSI	(depth) <u>—</u>	
(G) Final Shut-in Pressure	<u>1502</u>	<u>1505</u>	PSI	Initial Opening <u>30</u>	Test _____
(H) Final Hydrostatic Mud	<u>2353</u>	<u>2224</u>	PSI	Initial Shut-in <u>60</u>	Jars <u>X</u>
	<u>AK-1</u>	<u>ALP.</u>		Final Flow <u>30</u>	Safety Joint <u>X</u>
				Final Shut-in <u>60</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 Bill M. Luck

Our Representative Rod Steinbrink

Circ. Sub X N/C  
 Sampler \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Elect. Rec. X  
 Other \_\_\_\_\_  
 TOTAL PRICE \$ \_\_\_\_\_

TRILOBITE TESTING L.L.C.

OPERATOR : Cambrian Oil Corporation  
 WELL NAME: Ochsher #1  
 LOCATION : 30-1S-41W Cheyenne KS.  
 INTERVAL : 4681.00 To 4725.00 ft

DATE 4-13-97

KB 3613.00 ft TICKET NO: 9977 DST #2  
 GR 3605.00 ft FORMATION: Lans/KC "E & F"  
 TD 4725.00 ft TEST TYPE: CONV

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
PF 30 Rec.	13339	13339	2341			PF Fr. 1838 to 1908 hr
SI 60 Range (Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1908 to 2008 hr
SF 30 Clock (hrs)	12 HR	12 HR	Elec			SF Fr. 2008 to 2038 hr
FS 60 Depth(ft )	4720.0	4720.0	4686.0	0.0	0.0	FS Fr. 2038 to 2138 hr

	Field	1	2	3	4	
A. Init Hydro	2283.0	2368.0	2326.0	0.0	0.0	T STARTED 1533 hr
B. First Flow	31.0	73.0	15.0	0.0	0.0	T ON BOTM 1836 hr
C. Final Flow	31.0	44.0	20.0	0.0	0.0	T OPEN 1838 hr
D. In Shut-in	1451.0	1472.0	1492.0	0.0	0.0	T PULLED 2138 hr
E. Init Flow	31.0	73.0	21.0	0.0	0.0	T OUT 2400 hr
F. Final Flow	31.0	48.0	23.0	0.0	0.0	
G. Fl Shut-in	1371.0	1382.0	1408.0	0.0	0.0	TOOL DATA-----
H. Final Hydro	2263.0	2229.0	2287.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 68000.00 lbs
						Initial Str Wt 60000.00 lbs
						Unseated Str Wt 60000.00 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 427.00 ft
						D.P. Length 4236.00 ft

RECOVERY

Total Fluid 20.00 ft of 20.00 ft in DC and 0.00 ft in DP  
 20.00 ft of Drilling Mud w/slight show of oil in tool  
 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:  
 Weak surface blow, increased to 1/2"  
 Initial Shut In:  
 No blow  
 Final Flow:  
 No return blow  
 Final Shut In:  
 No blow

SAMPLES:  
 SENT TO:

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.10 lb/cf  
 Vis. 48.00 S/L  
 W.L. 7.60 in3  
 F.C. 0.00 in  
 Mud Drop N  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 137.00 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 Rod Steinbrink  
 Co. Rep. Phil/Rod  
 Contr. Nebraska  
 Rig # 1  
 Unit #  
 Pump T.

Test Successful: Y



\*\*\* TOOL DIAGRAM \*\*\* CONV

WELL NAME: Ochsher #1

LOCATION : 30-1S-41W Cheyenne KS.

TICKET No. 9977 D.S.T. No. 2 DATE 4-13-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL ..... 13

BOTTOM PACKERS AND ANCHOR .....

TOTAL TOOL ..... 40

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.	Stands	Single	Total
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D.P. ANCHOR STND.	Stands	Single	1	Total	31
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TOTAL ASSEMBLY ..... 71

D.C. ABOVE TOOLS.	Stands	7	Single	Total	427
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D.P. ABOVE TOOLS.	Stands	68	Single	1	Total	4236
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4734

TOTAL DEPTH ..... 4725

TOTAL DRILL PIPE ABOVE K.B. .... 9

REMARKS:

P.O. SUB 1' Above 120' DC	4534
C.O. SUB 1'	4654
S.I. TOOL 5'	4660
HMV 5'	4665
JARS 5'	4670
SAFETY JOINT 2'	4672
PACKER 4'	4676
PACKER 5'	4681
DEPTH	
STUBB 1'	4682
ANCHOR	
Alp. Rec. @ 4686	
5' Perf	4687
1' CO Sub	4688
31' DP	4719
1' CO Sub	4720
T.C.	
DEPTH	
AK-1 Rec. @ 4720	
BULLNOSE 5'	
T.D.	4725

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9977 DST #2 Ochsher #1 Cambrian Oil Corp.

DATE: 04/13/97

TIME: 15:33:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	123.00	2326.5	0.0	123.76		
***** Start Flow 1	0.00	15.4	0.0	124.06		
	1.00	16.0	0.6	124.58		
	2.00	16.3	0.9	125.09		
	3.00	16.6	1.2	125.56		
	4.00	16.9	1.5	125.93		
	5.00	17.1	1.7	126.26		
	6.00	17.3	1.9	126.51		
	7.00	17.4	2.0	126.71		
	8.00	17.5	2.1	126.85		
	9.00	17.7	2.3	126.99		
	10.00	17.8	2.4	127.10		
	11.00	17.9	2.5	127.19		
	12.00	18.1	2.7	127.27		
	13.00	18.1	2.7	127.34		
	14.00	18.2	2.8	127.39		
	15.00	18.3	2.9	127.46		
	16.00	18.5	3.1	127.52		
	17.00	18.5	3.1	127.57		
	18.00	18.6	3.2	127.62		
	19.00	18.7	3.3	127.68		
	20.00	18.7	3.3	127.70		
	21.00	18.8	3.4	127.73		
	22.00	18.8	3.4	127.77		
	23.00	18.8	3.4	127.85		
	24.00	18.8	3.4	127.92		
	25.00	18.9	3.5	127.97		
	26.00	19.0	3.6	128.04		
	27.00	19.1	3.7	128.09		
	28.00	19.1	3.7	128.15		
	29.00	19.2	3.8	128.22		
***** End Flow 1	30.00	19.7	4.3	128.27		
***** Start Shutin 1	0.00	19.7	0.0	128.27	0.0000	0.000
	1.00	25.1	5.4	128.36	31.0000	0.001
	2.00	33.8	14.1	128.45	16.0000	0.001
	3.00	48.8	29.1	128.54	11.0000	0.002
	4.00	76.4	56.7	128.62	8.5000	0.006
	5.00	126.1	106.4	128.70	7.0000	0.016
	6.00	197.4	177.7	128.78	6.0000	0.039
	7.00	278.2	258.4	128.88	5.2857	0.077
	8.00	358.8	339.0	128.96	4.7500	0.129
	9.00	435.5	415.8	129.00	4.3333	0.190
	10.00	507.0	487.3	129.09	4.0000	0.257
	11.00	572.9	553.2	129.16	3.7273	0.328
	12.00	634.2	614.4	129.24	3.5000	0.402
	13.00	690.7	671.0	129.32	3.3077	0.477
	14.00	743.0	723.3	129.39	3.1429	0.552
	15.00	791.5	771.8	129.47	3.0000	0.627
	16.00	836.6	816.9	129.53	2.8750	0.700
	17.00	878.4	858.7	129.61	2.7647	0.772
	18.00	917.6	897.8	129.69	2.6667	0.842

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9977 DST #2 Ochsher #1 Cambrian Oil Corp.

DATE: 04/13/97

TIME: 15:33:29

Time	Pressure PSI <sub>g</sub>	delta P PSI <sub>g</sub>	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
19.00	953.9	934.1	129.78	2.5789	0.910
20.00	987.9	968.2	129.85	2.5000	0.976
21.00	1019.7	1000.0	129.93	2.4286	1.040
22.00	1049.3	1029.6	129.99	2.3636	1.101
23.00	1077.2	1057.5	130.06	2.3043	1.160
24.00	1103.1	1083.3	130.14	2.2500	1.217
25.00	1127.6	1107.9	130.21	2.2000	1.271
26.00	1150.6	1130.9	130.28	2.1538	1.324
27.00	1172.3	1152.6	130.35	2.1111	1.374
28.00	1192.7	1173.0	130.41	2.0714	1.423
29.00	1211.9	1192.1	130.49	2.0345	1.469
30.00	1229.9	1210.2	130.57	2.0000	1.513
31.00	1247.1	1227.4	130.66	1.9677	1.555
32.00	1263.2	1243.5	130.75	1.9375	1.596
33.00	1278.5	1258.8	130.84	1.9091	1.635
34.00	1292.9	1273.1	130.90	1.8824	1.671
35.00	1306.5	1286.8	130.92	1.8571	1.707
36.00	1319.4	1299.7	131.01	1.8333	1.741
37.00	1331.2	1311.4	131.09	1.8108	1.772
38.00	1342.9	1323.2	131.18	1.7895	1.803
39.00	1353.9	1334.2	131.24	1.7692	1.833
40.00	1364.6	1344.9	131.31	1.7500	1.862
41.00	1374.7	1355.0	131.36	1.7317	1.890
42.00	1384.2	1364.5	131.45	1.7143	1.916
43.00	1393.2	1373.5	131.54	1.6977	1.941
44.00	1401.9	1382.1	131.66	1.6818	1.965
45.00	1410.1	1390.3	131.90	1.6667	1.988
46.00	1417.8	1398.1	131.81	1.6522	2.010
47.00	1425.3	1405.5	131.87	1.6383	2.031
48.00	1432.3	1412.5	131.93	1.6250	2.051
49.00	1439.0	1419.3	131.99	1.6122	2.071
50.00	1445.4	1425.7	132.05	1.6000	2.089
51.00	1451.6	1431.8	132.09	1.5882	2.107
52.00	1457.4	1437.7	132.16	1.5769	2.124
53.00	1463.0	1443.3	132.21	1.5660	2.140
54.00	1468.3	1448.6	132.27	1.5556	2.156
55.00	1473.4	1453.7	132.31	1.5455	2.171
56.00	1478.5	1458.7	132.36	1.5357	2.186
57.00	1483.1	1463.4	132.43	1.5263	2.200
58.00	1487.7	1467.9	132.49	1.5172	2.213
***** End Shut-in 1	59.00	1492.0	1472.2	132.55	2.226
***** Start Flow 2	0.00	20.6	0.0	132.51	
	1.00	20.8	0.2	132.51	
	2.00	20.8	0.2	132.50	
	3.00	20.9	0.3	132.51	
	4.00	20.9	0.3	132.51	
	5.00	21.0	0.4	132.52	
	6.00	21.0	0.4	132.55	
	7.00	21.0	0.4	132.60	
	8.00	21.2	0.6	132.63	
	9.00	21.2	0.6	132.68	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9977 DST #2 Ochsher #1 Cambrian Oil Corp.  
 DATE: 04/13/97 TIME: 15:33:29

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
10.00	21.3	0.7	132.72		
11.00	21.3	0.7	132.79		
12.00	21.4	0.8	132.84		
13.00	21.6	1	132.91		
14.00	21.7	1.1	132.96		
15.00	21.7	1.1	133.02		
16.00	21.7	1.1	133.09		
17.00	21.9	1.3	133.14		
18.00	21.9	1.3	133.21		
19.00	22.0	1.4	133.27		
20.00	22.2	1.6	133.34		
21.00	22.2	1.6	133.40		
22.00	22.2	1.6	133.46		
23.00	22.4	1.8	133.53		
24.00	22.5	1.9	133.60		
25.00	22.6	2.0	133.67		
26.00	22.7	2.1	133.72		
27.00	22.7	2.1	133.79		
28.00	22.7	2.1	133.88		
29.00	22.9	2.3	133.96		
***** End Flow 2	30.00	22.7	2.1	134.05	
***** Start Shutin 2	0.00	22.7	0.0	134.05	0.0000 0.001
	1.00	28.4	5.7	134.16	61.0000 0.001
	2.00	40.9	18.2	134.25	31.0000 0.002
	3.00	64.2	41.5	134.35	21.0000 0.004
	4.00	107.1	84.4	134.46	16.0000 0.011
	5.00	171.3	148.5	134.56	13.0000 0.029
	6.00	245.7	223.0	134.67	11.0000 0.060
	7.00	320.0	297.3	134.78	9.5714 0.102
	8.00	391.1	368.4	134.92	8.5000 0.153
	9.00	457.4	434.7	134.98	7.6667 0.209
	10.00	518.5	495.7	135.05	7.0000 0.269
	11.00	575.5	552.8	135.15	6.4545 0.331
	12.00	628.5	605.8	135.25	6.0000 0.395
	13.00	677.5	654.8	135.33	5.6154 0.459
	14.00	723.0	700.2	135.42	5.2857 0.523
	15.00	765.2	742.5	135.49	5.0000 0.586
	16.00	804.4	781.7	135.55	4.7500 0.647
	17.00	841.3	818.6	135.62	4.5294 0.708
	18.00	875.7	853.0	135.69	4.3333 0.767
	19.00	907.8	885.1	135.75	4.1579 0.824
	20.00	938.0	915.3	135.80	4.0000 0.880
	21.00	966.2	943.5	135.91	3.8571 0.934
	22.00	992.7	970.0	135.95	3.7273 0.985
	23.00	1017.7	994.9	136.04	3.6087 1.036
	24.00	1041.0	1018.3	136.08	3.5000 1.084
	25.00	1063.1	1040.4	136.14	3.4000 1.130
	26.00	1083.9	1061.2	136.20	3.3077 1.175
	27.00	1103.7	1080.9	136.25	3.2222 1.218
	28.00	1122.3	1099.6	136.31	3.1429 1.260
	29.00	1139.7	1117.0	136.35	3.0690 1.299

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9977 DST #2 Ochsher #1 Cambrian Oil Corp.

DATE: 04/13/97

TIME: 15:33:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
30.00	1156.3	1133.6	136.40	3.0000	1.337	
31.00	1172.1	1149.3	136.45	2.9355	1.374	
32.00	1187.0	1164.3	136.51	2.8750	1.409	
33.00	1201.1	1178.4	136.55	2.8182	1.443	
34.00	1214.5	1191.8	136.60	2.7647	1.475	
35.00	1227.3	1204.6	136.65	2.7143	1.506	
36.00	1239.5	1216.8	136.70	2.6667	1.536	
37.00	1251.1	1228.3	136.74	2.6216	1.565	
38.00	1262.1	1239.3	136.79	2.5789	1.593	
39.00	1272.6	1249.9	136.82	2.5385	1.619	
40.00	1282.6	1259.8	136.89	2.5000	1.645	
41.00	1292.2	1269.5	136.92	2.4634	1.670	
42.00	1301.4	1278.7	136.96	2.4286	1.694	
43.00	1310.0	1287.3	137.01	2.3953	1.716	
44.00	1318.3	1295.6	137.07	2.3636	1.738	
45.00	1326.3	1303.6	137.12	2.3333	1.759	
46.00	1333.8	1311.1	137.18	2.3043	1.779	
47.00	1341.1	1318.4	137.22	2.2766	1.799	
48.00	1348.1	1325.4	137.28	2.2500	1.817	
49.00	1354.7	1331.9	137.33	2.2245	1.835	
50.00	1361.0	1338.2	137.39	2.2000	1.852	
51.00	1367.2	1344.5	137.43	2.1765	1.869	
52.00	1373.2	1350.5	137.48	2.1538	1.886	
53.00	1378.8	1356.1	137.52	2.1321	1.901	
54.00	1384.2	1361.5	137.58	2.1111	1.916	
55.00	1389.5	1366.7	137.60	2.0909	1.931	
56.00	1394.5	1371.8	137.66	2.0714	1.945	
57.00	1399.3	1376.6	137.70	2.0526	1.958	
58.00	1404.0	1381.3	137.74	2.0345	1.971	
***** End Shut-in 2	59.00	1408.5	1385.8	137.77	2.0169	1.984
***** Final Hydro.	305.00	2286.9	0.0	137.94		

# TEST HISTORY

9977 DST #2 Ochsher #1 Cambrian Oil Corp.

Flag Points  
t(Min.) P(PSig)

A:	0.00	2326.47
B:	0.00	15.40
C:	30.00	19.73
D:	59.00	1491.98
E:	0.00	20.60
F:	30.00	22.72
G:	59.00	1408.49
Q:	0.00	2286.92

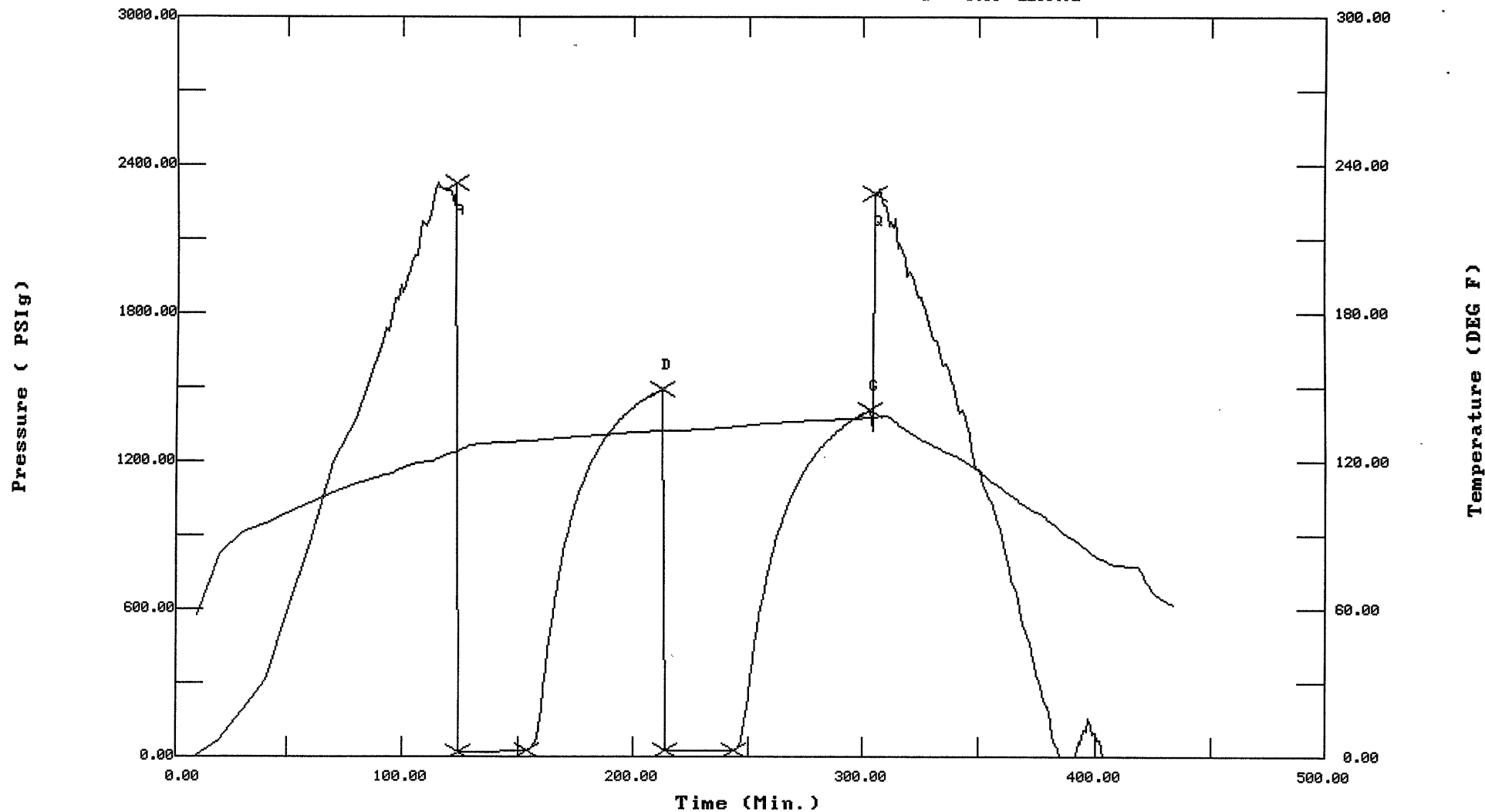


CHART PAGE



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<sup>o</sup> 9977

Well Name & No. Ochsher #1 Test No. 2 Date 4-13-97  
 Company Cambrian Oil Corp Zone Tested Lans/ KC. 'E:F'  
 Address 4480 S. Meridan #92 Wichita, KS. 67213 Elevation 3613 KB 3605GL  
 Co. Rep / Geo. Phil M. / Rod A. Cont. Nebraska #1 Est. Ft. of Pay      Por.      %  
 Location: Sec. 30 Twp. 1S Rge. 41W Co. Cheyenne State KS  
 No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 4681 - 4725 Initial Str Wt./Lbs. 60,000 Unseated Str Wt./Lbs. 60,000  
 Anchor Length 44' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 68,000  
 Top Packer Depth 4676 Tool Weight 1,800  
 Bottom Packer Depth 4681 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
 Total Depth 4725 Wt. Pipe Run      Drill Collar Run 427'  
 Mud Wt. 9.1 LCM      Vis. 48 WL 7.6 Drill Pipe Size 4 1/2" XH Ft. Run 4236'  
 Blow Description IF: Weak surface blow increased to 1/2".  
ISI: No blow.  
FF: No return blow.  
FST: No blow.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP				
<u>20'</u>	<u>    </u>	<u>20'</u>	<u>    </u>	%gas	%oil	%water	%mud
Rec. <u>    </u>	Feet Of <u>    </u>			%gas	%oil	%water	%mud
Rec. <u>20'</u>	Feet Of <u>Drilg Mud</u>			%gas	%oil	%water	%mud
Rec. <u>    </u>	Feet Of <u>w/ Slight Show</u>			%gas	%oil	%water	%mud
Rec. <u>    </u>	Feet Of <u>of Oil in Tool</u>			%gas	%oil	%water	%mud

BHT 137° °F Gravity      °API D@      °F Corrected Gravity      °API  
 RW      @      °F Chlorides      ppm Recovery Chlorides 650 ppm System

(A) Initial Hydrostatic Mud	<u>2283</u>   <u>2326</u> PSI	Recorder No. <u>2341</u>	T-Started <u>1533</u>
(B) First Initial Flow Pressure	<u>31</u>   <u>15</u> PSI	(depth) <u>4686</u>	T-Open <u>1838</u>
(C) First Final Flow Pressure	<u>31</u>   <u>19</u> PSI	Recorder No. <u>13339</u>	T-Pulled <u>2238</u>
(D) Initial Shut-in Pressure	<u>1451</u>   <u>1491</u> PSI	(depth) <u>4720</u>	T-Out <u>2400</u>
(E) Second Initial Flow Pressure	<u>31</u>   <u>20</u> PSI	Recorder No. <u>    </u>	
(F) Second Final Flow Pressure	<u>31</u>   <u>22</u> PSI	(depth) <u>    </u>	
(G) Final Shut-in Pressure	<u>1371</u>   <u>1408</u> PSI	Initial Opening <u>30</u>	Test <u>    </u>
(H) Final Hydrostatic Mud	<u>2263</u>   <u>2286</u> PSI	Initial Shut-in <u>60</u>	Jars <u>X</u>
	<u>AK-1</u> <u>ALP.</u>	Final Flow <u>30</u>	Safety Joint <u>X</u>
		Final Shut-in <u>60</u>	Straddle <u>    </u>
			Circ. Sub <u>X</u> <u>N/C</u>
			Sampler <u>    </u>
			Extra Packer <u>    </u>
			Elect. Rec. <u>X</u>
			Other <u>    </u>
			TOTAL PRICE \$ <u>    </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 Rod Steinbrink



TRILOBITE TESTING L.L.C.

OPERATOR : Cambrian Oil Corporation  
 WELL NAME: Ochsher #1  
 LOCATION : 30-1S-41W Cheyenne KS.  
 INTERVAL : 5335.00 To 5380.00 ft

DATE 4-16-97

KB 3613.00 ft TICKET NO: 9978 DST #3  
 GR 3605.00 ft FORMATION: Morrow  
 TD 5380.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13339	13339	2341			PF Fr. 0911 to 0941 hr
RI 60	Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0941 to 1041 hr
SF 22	Clock(hrs)	12 HR	12 hr	Elec			SF Fr. 1041 to 1105 hr
FS 60	Depth(ft )	5375.0	5375.0	5337.0	0.0	0.0	FS Fr. 1105 to 1205 hr

	Field	1	2	3	4	
A. Init Hydro	2711.0	2807.0	2833.0	0.0	0.0	T STARTED 0630 hr
B. First Flow	619.0	687.0	600.0	0.0	0.0	T ON BOTM 0909 hr
B1. Final Flow	1110.0	1157.0	1174.0	0.0	0.0	T OPEN 0911 hr
C. In Shut-in	1210.0	1261.0	1259.0	0.0	0.0	T PULLED 1205 hr
D. Init Flow	1080.0	1241.0	1185.0	0.0	0.0	T OUT 1500 hr
E. Final Flow	1210.0	1259.0	1254.0	0.0	0.0	
F. Fl Shut-in	1210.0	1271.0	1262.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2652.0	2775.0	2659.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 100000.00 lbs
						Initial Str Wt 66000.00 lbs
						Unseated Str Wt 78000.00 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 427.00 ft
						D.P. Length 4887.00 ft

RECOVERY

Total Fluid 2720.00 ft of 427.00 ft in DC and 2293.00 ft in DP  
 360.00 ft of Watery Mud  
 0.00 ft of 20%water 80%mud  
 2360.00 ft of Salt 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 RW .31 @ 75 deg =  
 SALINITY 20000.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:  
 Strong blow off bottom in 1 minute  
 Initial Shut In:  
 Bled off blow - no return  
 Final Flow:  
 Fair to strong blow off bottom in  
 Final Shut In:  
 Bled off blow - no return

SAMPLES:

SENT TO:

MUD DATA-----  
 Mud Type Chemical  
 Weight 9.40 lb/cf  
 Vis. 52.00 S/L  
 W.L. 8.40 in3  
 F.C. 0.00 in  
 Mud Drop N  
 Amt. of fill 0.00 ft  
 Btm. H. Temp. 170.00 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 Rod Steinbrink  
 Co. Rep. Phil M./ Rod A.  
 Contr. Nebraska  
 Rig # 1  
 Unit #  
 Pump T.

Test Successful: Y

\*\*\* TOOL DIAGRAM \*\*\* CONV

WELL NAME: Ochsher #1

LOCATION : 30-1S-41W Cheyenne KS.

TICKET No. 9978 D.S.T. No. 3 DATE 4-16-97

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL ..... 15

BOTTOM PACKERS AND ANCHOR .....

TOTAL TOOL ..... 42

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.	Stands	Single	Total
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D.P. ANCHOR STND.	Stands	Single	1	Total	30
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TOTAL ASSEMBLY ..... 72

D.C. ABOVE TOOLS.	Stands	7	Single	Total	427
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D.P. ABOVE TOOLS.	Stands	79	Single	Total	4887
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5386

TOTAL DEPTH ..... 5380

TOTAL DRILL PIPE ABOVE K.B. .... 6

REMARKS:

P.O. SUB 1' Above 120' DC	5188
C.O. SUB 1'	5308
S.I. TOOL 5'	5314
HMV 5'	5319
JARS 5'	5324
SAFETY JOINT 2'	5326
PACKER Top 4'	5330
PACKER Bottom 5'	5335
DEPTH	
STUBB 1'	5336
ANCHOR	
Alpine Rec. @ 5337	
7' Perf.	5343
1' CO Sub	5344
30' DP	5374
1' CO Sub	5375
T.C.	
DEPTH	
AK-1 Rec. @ 5375	
BULLNOSE 5'	
T.D.	5380

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9978 DST #3 Ochsher #1 Cambrian Oil Corp.

DATE: 04/16/97 TIME: 06:30:47

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	157.00	2833.5	0.0	141.45		
***** Start Flow 1	0.00	600.4	0.0	142.25		
	1.00	621.7	21.3	143.88		
	2.00	644.4	44.0	146.62		
	3.00	675.6	75.2	149.74		
	4.00	707.2	106.8	152.79		
	5.00	738.4	138.0	155.56		
	6.00	769.2	168.8	157.98		
	7.00	798.9	198.5	160.02		
	8.00	827.0	226.6	161.76		
	9.00	854.5	254.1	163.22		
	10.00	880.9	280.5	164.43		
	11.00	906.5	306.1	165.47		
	12.00	930.7	330.3	166.29		
	13.00	953.3	352.9	167.00		
	14.00	975.4	375.0	167.60		
	15.00	995.5	395.1	168.09		
	16.00	1015.3	414.9	168.52		
	17.00	1034.0	433.6	168.88		
	18.00	1050.9	450.5	169.19		
	19.00	1066.5	466.1	169.45		
	20.00	1081.6	481.2	169.66		
	21.00	1095.1	494.7	169.82		
	22.00	1107.7	507.3	169.98		
	23.00	1119.8	519.4	170.11		
	24.00	1130.9	530.5	170.28		
	25.00	1140.7	540.3	170.36		
	26.00	1150.0	549.6	170.43		
	27.00	1158.6	558.2	170.50		
	28.00	1166.8	566.4	170.57		
***** End Flow 1	29.00	1174.1	573.7	170.61		
***** Start Shutin 1	0.00	1174.1	0.0	170.61	0.0000	1.378
	1.00	1225.3	51.2	170.65	30.0000	1.501
	2.00	1233.9	59.8	170.69	15.5000	1.522
	3.00	1237.7	63.6	170.71	10.6667	1.532
	4.00	1240.2	66.1	170.69	8.2500	1.538
	5.00	1242.2	68.1	170.67	6.8000	1.543
	6.00	1243.8	69.8	170.64	5.8333	1.547
	7.00	1245.1	71.0	170.60	5.1429	1.550
	8.00	1246.2	72.2	170.54	4.6250	1.553
	9.00	1247.2	73.2	170.45	4.2222	1.556
	10.00	1248.1	74.0	170.37	3.9000	1.558
	11.00	1248.9	74.8	170.32	3.6364	1.560
	12.00	1249.5	75.4	170.24	3.4167	1.561
	13.00	1250.1	76.0	170.17	3.2308	1.563
	14.00	1250.6	76.5	170.09	3.0714	1.564
	15.00	1251.1	77.0	169.97	2.9333	1.565
	16.00	1251.5	77.4	169.82	2.8125	1.566
	17.00	1252.0	77.9	169.72	2.7059	1.567
	18.00	1252.4	78.3	169.59	2.6111	1.569
	19.00	1252.8	78.8	169.51	2.5263	1.570

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9978 DST #3 Ochsher #1 Cambrian Oil Corp.

DATE: 04/16/97

TIME: 06:30:47

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6	
20.00	1253.1	79.1	169.48	2.4500	1.570	
21.00	1253.6	79.5	169.45	2.3810	1.571	
22.00	1253.9	79.8	169.40	2.3182	1.572	
23.00	1254.2	80.1	169.36	2.2609	1.573	
24.00	1254.5	80.5	169.29	2.2083	1.574	
25.00	1254.8	80.8	169.21	2.1600	1.575	
26.00	1255.1	81.0	169.12	2.1154	1.575	
27.00	1255.4	81.4	169.06	2.0741	1.576	
28.00	1255.7	81.6	168.97	2.0357	1.577	
29.00	1255.9	81.8	168.88	2.0000	1.577	
30.00	1255.9	81.8	168.86	1.9667	1.577	
31.00	1256.2	82.1	168.83	1.9355	1.578	
32.00	1256.5	82.5	168.77	1.9062	1.579	
33.00	1256.7	82.6	168.69	1.8788	1.579	
34.00	1256.8	82.7	168.64	1.8529	1.579	
35.00	1257.0	83.0	168.60	1.8286	1.580	
36.00	1257.2	83.1	168.51	1.8056	1.580	
37.00	1257.4	83.3	168.39	1.7838	1.581	
38.00	1257.4	83.3	168.26	1.7632	1.581	
39.00	1257.4	83.3	168.17	1.7436	1.581	
40.00	1257.6	83.5	168.10	1.7250	1.581	
41.00	1257.5	83.4	168.01	1.7073	1.581	
42.00	1257.6	83.6	167.94	1.6905	1.582	
43.00	1258.0	83.9	167.88	1.6744	1.582	
44.00	1258.0	84.0	167.83	1.6591	1.583	
45.00	1258.1	84.1	167.76	1.6444	1.583	
46.00	1258.3	84.2	167.75	1.6304	1.583	
47.00	1258.4	84.3	167.76	1.6170	1.584	
48.00	1258.4	84.4	167.81	1.6042	1.584	
49.00	1258.5	84.4	167.83	1.5918	1.584	
50.00	1258.7	84.6	167.84	1.5800	1.584	
51.00	1258.9	84.8	167.90	1.5686	1.585	
52.00	1258.9	84.8	167.97	1.5577	1.585	
53.00	1259.1	85.0	168.07	1.5472	1.585	
54.00	1259.2	85.1	168.11	1.5370	1.586	
55.00	1259.1	85.1	168.12	1.5273	1.585	
56.00	1259.3	85.2	168.09	1.5179	1.586	
57.00	1259.4	85.3	168.02	1.5088	1.586	
58.00	1259.5	85.4	167.94	1.5000	1.586	
59.00	1259.5	85.4	167.84	1.4915	1.586	
60.00	1259.6	85.5	167.73	1.4833	1.587	
***** End Shut-in 1	61.00	1259.6	85.6	167.62	1.4754	1.587
***** Start Flow 2	0.00	1185.3	0.0	167.52		
	1.00	1192.1	6.8	167.59		
	2.00	1198.6	13.3	167.84		
	3.00	1205.2	19.9	168.21		
	4.00	1211.1	25.8	168.62		
	5.00	1216.2	30.9	168.97		
	6.00	1220.7	35.4	169.27		
	7.00	1225.3	40.0	169.53		
	8.00	1229.0	43.7	169.73		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9978 DST #3 Ochsher #1 Cambrian Oil Corp.

DATE: 04/16/97

TIME: 06:30:47

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
9.00	1232.3	47.1	169.90		
10.00	1235.6	50.3	170.05		
11.00	1238.7	53.4	170.17		
12.00	1241.0	55.7	170.28		
13.00	1242.9	57.6	170.36		
14.00	1244.7	59.4	170.43		
15.00	1246.4	61.1	170.51		
16.00	1247.7	62.4	170.53		
17.00	1248.9	63.6	170.59		
18.00	1250.5	65.3	170.62		
19.00	1251.6	66.3	170.67		
20.00	1252.4	67.2	170.70		
21.00	1253.2	67.9	170.71		
22.00	1253.8	68.6	170.74		
***** End Flow 2					
***** Start Shutin 2	0.00	1253.8	0.0	170.74	0.0000 1.572
	1.00	1258.1	4.2	170.75	52.0000 1.583
	2.00	1258.5	4.7	170.77	26.5000 1.584
	3.00	1258.9	5.0	170.75	18.0000 1.585
	4.00	1259.1	5.3	170.73	13.7500 1.585
	5.00	1259.4	5.5	170.71	11.2000 1.586
	6.00	1259.6	5.8	170.66	9.5000 1.587
	7.00	1259.8	6.0	170.69	8.2857 1.587
	8.00	1259.9	6.0	170.63	7.3750 1.587
	9.00	1260.0	6.2	170.57	6.6667 1.588
	10.00	1260.1	6.3	170.56	6.1000 1.588
	11.00	1260.4	6.5	170.60	5.6364 1.589
	12.00	1260.3	6.5	170.52	5.2500 1.588
	13.00	1260.4	6.5	170.43	4.9231 1.589
	14.00	1260.4	6.6	170.38	4.6429 1.589
	15.00	1260.6	6.7	170.36	4.4000 1.589
	16.00	1260.8	6.9	170.35	4.1875 1.590
	17.00	1260.8	6.9	170.30	4.0000 1.590
	18.00	1260.9	7.1	170.27	3.8333 1.590
	19.00	1260.8	7.0	170.24	3.6842 1.590
	20.00	1261.0	7.2	170.19	3.5500 1.590
	21.00	1261.0	7.2	170.16	3.4286 1.590
	22.00	1261.0	7.2	170.14	3.3182 1.590
	23.00	1261.2	7.4	170.10	3.2174 1.591
	24.00	1261.2	7.4	170.05	3.1250 1.591
	25.00	1261.3	7.5	170.03	3.0400 1.591
	26.00	1261.3	7.5	170.00	2.9615 1.591
	27.00	1261.4	7.5	169.93	2.8889 1.591
	28.00	1261.4	7.6	169.94	2.8214 1.591
	29.00	1261.5	7.6	169.91	2.7586 1.591
	30.00	1261.5	7.7	169.89	2.7000 1.591
	31.00	1261.6	7.7	169.85	2.6452 1.592
	32.00	1261.5	7.6	169.81	2.5938 1.591
	33.00	1261.6	7.8	169.81	2.5455 1.592
	34.00	1261.4	7.6	169.79	2.5000 1.591
	35.00	1261.4	7.6	169.76	2.4571 1.591
	36.00	1261.5	7.7	169.74	2.4167 1.591

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9978 DST #3 Ochsher #1 Cambrian Oil Corp.

DATE: 04/16/97

TIME: 06:30:47

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
37.00	1261.5	7.7	169.71	2.3784	1.591	
38.00	1261.5	7.7	169.69	2.3421	1.591	
39.00	1261.5	7.7	169.67	2.3077	1.591	
40.00	1261.6	7.8	169.66	2.2750	1.592	
41.00	1261.6	7.8	169.62	2.2439	1.592	
42.00	1261.8	7.9	169.60	2.2143	1.592	
43.00	1261.8	8.0	169.60	2.1860	1.592	
44.00	1261.6	7.7	169.58	2.1591	1.592	
45.00	1261.8	7.9	169.57	2.1333	1.592	
46.00	1261.8	7.9	169.56	2.1087	1.592	
47.00	1261.9	8.1	169.53	2.0851	1.593	
48.00	1261.8	8.0	169.51	2.0625	1.592	
49.00	1261.9	8.1	169.51	2.0408	1.592	
50.00	1261.9	8.1	169.48	2.0200	1.592	
51.00	1261.8	8.0	169.47	2.0000	1.592	
52.00	1261.8	7.9	169.46	1.9808	1.592	
53.00	1261.9	8.0	169.45	1.9623	1.592	
54.00	1261.9	8.0	169.43	1.9444	1.592	
55.00	1261.9	8.0	169.43	1.9273	1.592	
56.00	1262.1	8.2	169.41	1.9107	1.593	
57.00	1262.1	8.3	169.39	1.8947	1.593	
58.00	1262.2	8.3	169.36	1.8793	1.593	
59.00	1262.2	8.3	169.35	1.8644	1.593	
60.00	1262.3	8.4	169.35	1.8500	1.593	
61.00	1262.1	8.3	169.34	1.8361	1.593	
***** End Shut-in 2	62.00	1262.3	8.5	169.33	1.8226	1.593
***** Final Hydro.	335.00	2659.4	0.0	169.34		

# TEST HISTORY

9978 DST #3 Ochsher #1 Cambrian Oil Corp.

Flag Points  
t(Min.) P(PSig)

A:	0.00	2933.46
B:	0.00	600.40
C:	29.00	1174.07
D:	61.00	1259.65
E:	0.00	1185.29
F:	22.00	1253.84
G:	62.00	1262.34
Q:	0.00	2659.36

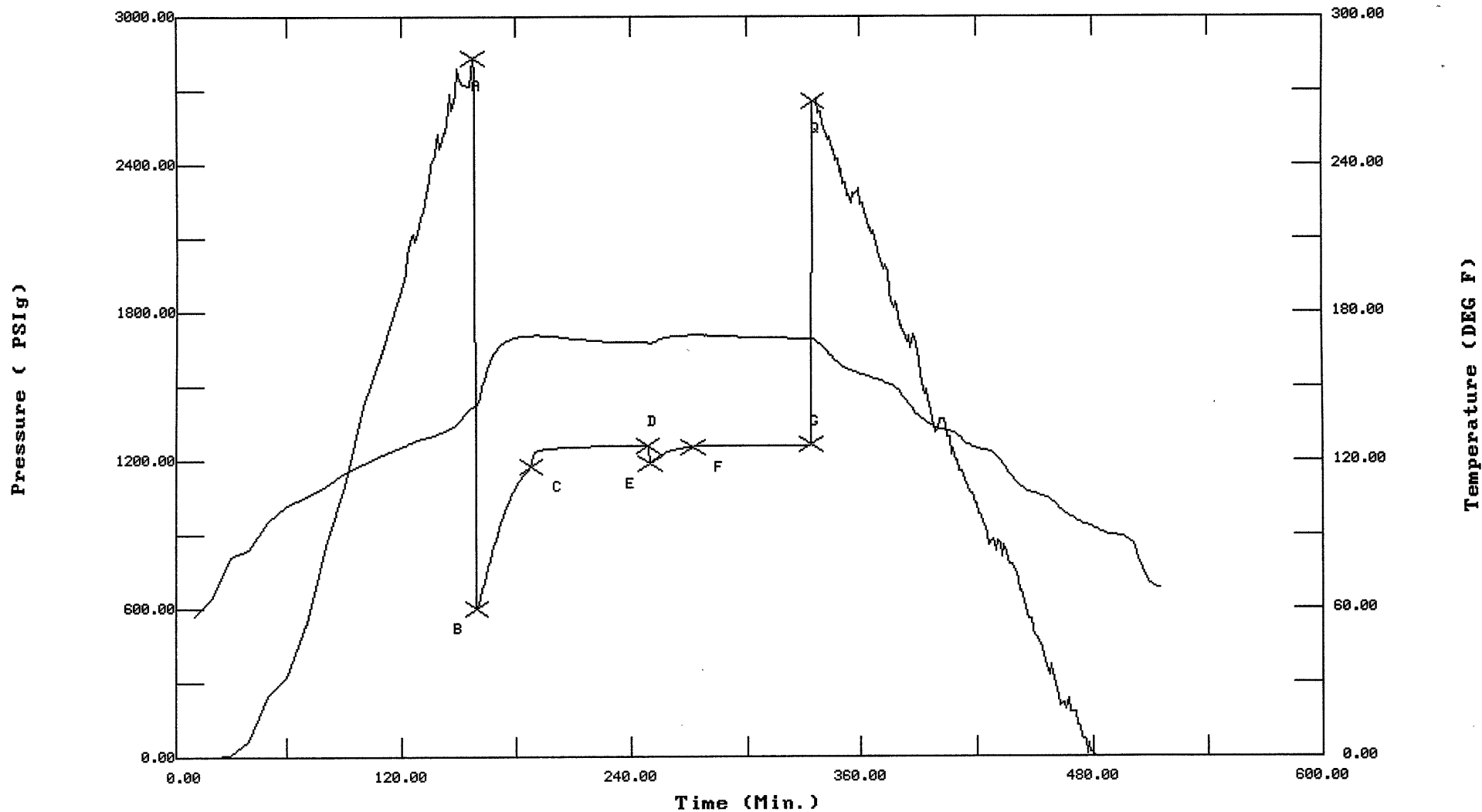
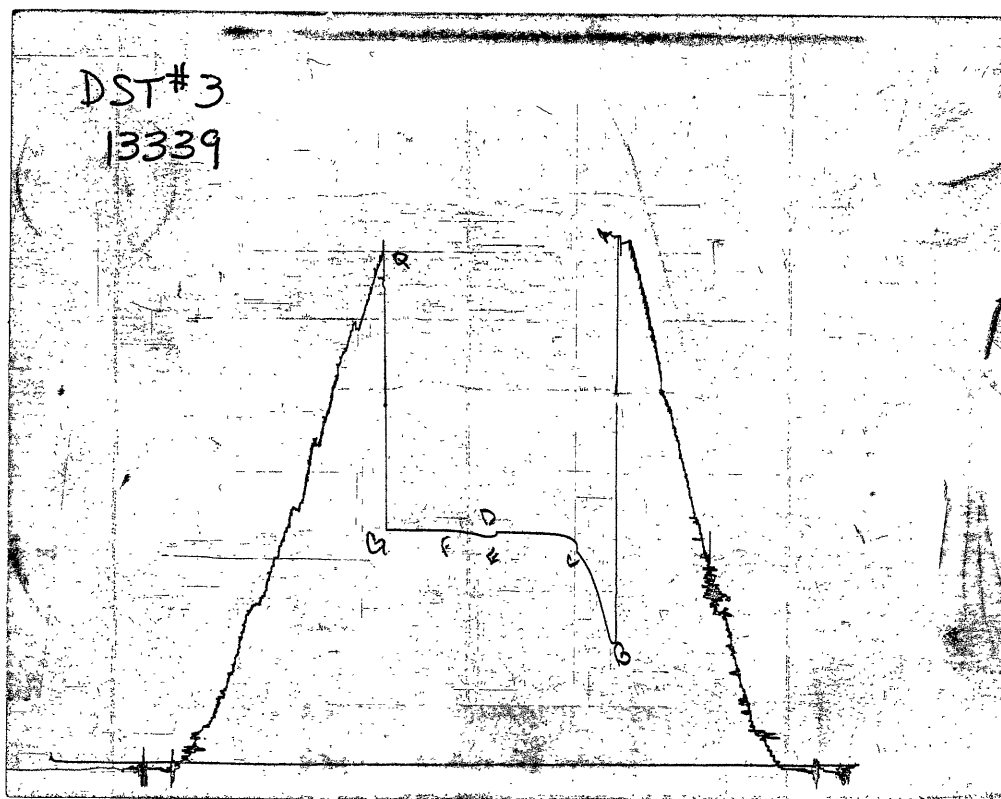


CHART PAGE



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<sup>o</sup> 9978

Well Name & No. Ochsher #1 Test No. 3 Date 4-16-97  
Company Cambrian Oil Corporation Zone Tested Morrow  
Address 4480 S Meridian #92 Wichita, KS. 67213 Elevation 3613 KB 3605 GL  
Co. Rep / Geo. Phil M / Rod A. Cont. Nebraska #1 Est. Ft. of Pay      Por.     %  
Location: Sec. 30 Twp. 1<sup>S</sup> Rge. 41<sup>W</sup> Co. Cheyenne State KS.  
No. of Copies      Distribution Sheet (Y, N)      Turnkey (Y, N)      Evaluation (Y, N)     

Interval Tested 5335 - 5380 Initial Str Wt./Lbs. 66,000 Unseated Str Wt./Lbs. 78,000  
Anchor Length 45' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 100,000  
Top Packer Depth 5330 Tool Weight 1,800  
Bottom Packer Depth 5335 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
Total Depth 5380 Wt. Pipe Run      Drill Collar Run 427'  
Mud Wt. 9.4 LCM      Vis. 52 WL 8.4 Drill Pipe Size 4 1/2" XH Ft. Run 4887'  
Blow Description IF: Strong blow off bttm in 1 min.  
IST: Bled off blow - no return.  
FF: Fair to strong off bttm in 12 mins.  
FST: Bled off blow - no return.

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP	%gas	%oil	%water	%mud
Rec. <u>360'</u>	Feet Of <u>Muddy Wtr.</u>	<u>427'</u>	<u>2293'</u>	<u>    </u>	<u>    </u>	<u>20</u>	<u>80</u>
Rec. <u>2360'</u>	Feet Of <u>Salt Wtr.</u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>    </u>	<u>100</u>	<u>    </u>

BHT 170° °F Gravity      °API D@      °F Corrected Gravity      °API  
RW .31 @ 75° °F Chlorides 20,000 ppm Recovery Chlorides 650 ppm System

(A) Initial Hydrostatic Mud	<u>2711</u>	<u>2769</u>	PSI	Recorder No. <u>2341</u>	T-Started <u>0630</u>
(B) First Initial Flow Pressure	<u>619</u>	<u>600</u>	PSI	(depth) <u>5337</u>	T-Open <u>0911</u>
(C) First Final Flow Pressure	<u>1110</u>	<u>1166</u>	PSI	Recorder No. <u>13339</u>	T-Pulled <u>1205</u>
(D) Initial Shut-in Pressure	<u>1210</u>	<u>1259</u>	PSI	(depth) <u>5375</u>	T-Out <u>1500</u>
(E) Second Initial Flow Pressure	<u>1080</u>	<u>1185</u>	PSI	Recorder No. <u>    </u>	
(F) Second Final Flow Pressure	<u>1210</u>	<u>1253</u>	PSI	(depth) <u>    </u>	
(G) Final Shut-in Pressure	<u>1210</u>	<u>1262</u>	PSI	Initial Opening <u>30</u>	Test <u>    </u>
(H) Final Hydrostatic Mud	<u>2652</u>	<u>2659</u>	PSI	Initial Shut-in <u>60</u>	Jars <u>X</u>

AK-1 ALP. Final Flow 22 Safety Joint X

Final Shut-in 60 Straddle       
Circ. Sub X N/C  
Sampler       
Extra Packer     

Approved By [Signature]  
Our Representative Rod Steinbrink  
Elect. Rec. X  
Other       
TOTAL PRICE \$     

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