

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: 31730

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  PBDT  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

5/20/97 5/30/97 6/18/97  
Spud Date Date Reached TD Completion Date

API NO. 15- 023-20352 0000  
County Cheyenne  
-W $\frac{1}{2}$ -SW SE Sec. 30 Twp. 1S Rge. 41 X W

**ORIGINAL**

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

2310 Feet from (E) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
NE, (E), NW or SW (circle one)

**RECEIVED**

KANSAS CORPORATION COMMISSION

Lease Name Ochsner "B" Well # 1

Field Name Nuttycombe **SEP 23 1997**

Producing Formation Lansing

Elevation: Ground 3584 KB 3591 CONSERVATION DIVISION  
WICHITA, KS

Total Depth 5550 PBDT 5496

Amount of Surface Pipe Set and Cemented at 217 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 JH 9-24-97  
(Data must be collected from the Reserve Pit)

**RECEIVED**

Chloride content 600 ppm

Dewatering method used Evaporation

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

Operator Name \_\_\_\_\_ CONSERVATION DIVISION  
WICHITA, KS

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 4/20/97

Subscribed and sworn to before me this 20th day of August, 1997.

Notary Public Sharon J. Smith

Date Commission Expires 3-12-98

K.C.C. OFFICE USE ONLY			
F	<input type="checkbox"/>	Letter of Confidentiality Attached	
C	<input checked="" type="checkbox"/>	Wireline Log Received	
C	<input checked="" type="checkbox"/>	Geologist Report Received	
Distribution			
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep	<input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug	<input type="checkbox"/> Other (Specify)



SIDE TWO

Operator Name Cambrian Oil Corp. Lease Name Ochsner "B" Well # 1  
 East County Cheyenne  
 Sec. 30 Twp. 1S Rge. 41  West

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	1570	2021
Topeka	4350	-759
Lansing	4606	-1016
Mississippian	5412	-1821

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	85/8		217	Class A	150	3% CaCl <sub>2</sub> , 2% gel
Production	77/8	4 1/2		5496	60/40 poz	300	

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	4446-4456	500 gal. kcl 1000 gal HCL	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SMD or Inj.		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 10 Bbls.	Gas Mcf	Water 70 Bbls.	Gas-Oil Ratio	Gravity	

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  
 METHOD OF COMPLETION:  Open Hole  Perf.  Dually-Comp.  Commingled 4446-4456  
 Other (Specify) \_\_\_\_\_

# ALLIED CEMENTING CO., INC.

8901

Federal Tax I.D.# ~~76-8727833~~

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

ORIGINAL

SERVICE POINT: Oakley

DATE <u>5-20-97</u>	SEC. <u>30</u>	TWP. <u>1</u>	RANGE <u>41</u>	CALLED OUT	ON LOCATION <u>3:30 PM</u>	JOB START <u>7:30 PM</u>	JOB FINISH <u>8:00 PM</u>
LEASE <u>Oschner B</u>	WELL # <u>#31</u>	LOCATION <u>Haigler 2N-1W-43</u>			COUNTY <u>Cheyenne</u>	STATE <u>Kan</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR Nebraska Drly Co. #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 217'

CASING SIZE 8 5/8 DEPTH 217'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT

OWNER Same

CEMENT

AMOUNT ORDERED 150-Sks 60/40 per  
3% cc - 2% Gel

COMMON	<u>90</u>	<u>Sks</u>	@	<u>7.20</u>	<u>648.00</u>
POZMIX	<u>60</u>	<u>Sks</u>	@	<u>3.15</u>	<u>189.00</u>
GEL	<u>3</u>	<u>Sks</u>	@	<u>9.50</u>	<u>28.50</u>
CHLORIDE	<u>5</u>	<u>Sks</u>	@	<u>28.00</u>	<u>140.00</u>
			@		
			@		
			@		
			@		
HANDLING	<u>150</u>	<u>Sks</u>	@	<u>1.05</u>	<u>157.50</u>
MILEAGE	<u>44</u>	<u>per SK/mile</u>			<u>630.00</u>

TOTAL 1,793.00

EQUIPMENT

PUMP TRUCK CEMENTER Walt

# 102 HELPER Walt

BULK TRUCK

# 212 DRIVER JEFF

BULK TRUCK

# DRIVER

REMARKS:

SERVICE

Cement Did Circ

Walt

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

TOTAL 684.25  
789.25

CHARGE TO: Cambrian Oil Corp

STREET 4480 S. Meridian Ave. #92

CITY Wichita STATE Kan ZIP 67217

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.

TAX \_\_\_\_\_

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

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

SIGNATURE Rod Deague

PRINTED NAME

# ALLIED CEMENTING CO., INC.

8972

Federal Tax I.D.# ~~14-0707000~~

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

ORIGINAL

SERVICE POINT:

Oakley

DATE <u>5/31/97</u>	SEC. <u>30</u>	TWP. <u>15</u>	RANGE <u>41W</u>	CALLED OUT	ON LOCATION <u>7:45PM 5/31</u>	JOB START <u>4:20PM</u>	JOB FINISH <u>5:20PM</u>
LEASE # <u>2 Ochsner</u>	WELL # <u>A-1</u>	LOCATION <u>ST Francis 15N 3W N/5</u>			COUNTY <u>Cheyenne</u>	STATE <u>Ks</u>	
OLD OR <u>(NEW)</u> (Circle one)							

CONTRACTOR Nebraska Drilling Rig #1  
 TYPE OF JOB Cmt 5 1/2 Prod. CSG  
 HOLE SIZE 7 7/8 T.D. 5550  
 CASING SIZE 5 1/2 14# DEPTH 5536  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX 1100 MINIMUM 100  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 31  
 CEMENT LEFT IN CSG. 31  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 134.2

OWNER Sam c

**CEMENT**

AMOUNT ORDERED 500gal A.S.F.  
300 SKs A.S.C. + 1070 gal 5" Gilsomite

<u>ASC</u>			
COMMON	<u>300 SKs</u>	@ <u>8<sup>70</sup></u>	<u>2,610<sup>00</sup></u>
POZMIX		@	
GEL		@	
CHLORIDE		@	
<u>Salt</u>	<u>35 SKs</u>	@ <u>7<sup>00</sup></u>	<u>245<sup>00</sup></u>
<u>Gilsomite</u>	<u>1410 #</u>	@ <u>414</u>	<u>578<sup>10</sup></u>
<u>WER-2</u>	<u>500 gal</u>	@ <u>1<sup>00</sup></u>	<u>500<sup>00</sup></u>
		@	
		@	
HANDLING	<u>300 SKs</u>	@ <u>1<sup>00</sup></u>	<u>315<sup>00</sup></u>
MILEAGE	<u>4 1/2 SK/mile</u>		<u>4,260<sup>00</sup></u>

**EQUIPMENT**

PUMP TRUCK CEMENTER Max  
 # 300 HELPER Terry  
 BULK TRUCK  
 # 280 DRIVER LANNI  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

TOTAL 5,508<sup>10</sup>

**REMARKS:**

**SERVICE**

CMT 5 1/2 Prod. Csg with 500gal A.S.F.  
300 SKs A.S.C + 1070 gal 5" Gilsomite  
Washup Pump Lines Displace 133.5 BBL  
Land Plug Float Held

DEPTH OF JOB 5536  
 PUMP TRUCK CHARGE \_\_\_\_\_ 1,312<sup>00</sup>  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 105 Mi @ 2<sup>85</sup> 299<sup>25</sup>  
 PLUG 5 1/2 Rubber @ 0 50<sup>00</sup>  
10 Hrs. Additional Hrs @ 90<sup>00</sup> 900<sup>00</sup>  
 @ \_\_\_\_\_

TOTAL 2,561<sup>25</sup>

CHARGE TO: Cambrian Oil Corp  
 STREET 4480 S. Meridian Ave #92  
 CITY Wichita STATE Ks ZIP 67212

**FLOAT EQUIPMENT**

1- 5 1/2 Guide Star @ \_\_\_\_\_ 168<sup>00</sup>  
1- 5 1/2 AFU Insert @ \_\_\_\_\_ 263<sup>00</sup>  
7- 5 1/2 Centralizers @ 56<sup>00</sup> 392<sup>00</sup>  
 @ \_\_\_\_\_  
 @ \_\_\_\_\_

TOTAL 823<sup>00</sup>

To Allied Cementing Co., Inc.  
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TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE Thomas D. McCarville

Thomas D. McCarville

PRINTED NAME

**WELL NAME:**  
**COMPANY:**  
**LOCATION:**

Ochsner <sup>B</sup>/~~A~~ #2  
Cambrian Oil Corporation  
30-1S-41W  
CheyenneCounty Kansas  
05/30/97

ORIGINAL

**DATE:**

15-023-20352

TRILOBITE TESTING L.L.C.

OPERATOR : Cambrian Oil Corp.

DATE 5-25-97

WELL NAME: Ochsner "A" #2

KB 3589.00 ft

TICKET NO: 9990

DST #1

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

GR 3584.00 ft

FORMATION: Toronto/Lans "A"

INTERVAL : 4538.00 To 4620.00 ft

TD 4620.00 ft

TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13339	13339	2341			PF Fr. 0838 to 0908 hr
RI 60	Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 0908 to 1008 hr
RF 30	Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 1008 to 1038 hr
FS 60	Depth(ft )	4615.0	4615.0	4540.0	0.0	0.0	FS Fr. 1038 to 1138 hr

	Field	1	2	3	4	
A. Init Hydro	2293.0	2323.0	2233.0	0.0	0.0	T STARTED 0605 hr
B. First Flow	83.0	152.0	71.0	0.0	0.0	T ON BOTM 0836 hr
C. Final Flow	83.0	111.0	71.0	0.0	0.0	T OPEN 0838 hr
D. In Shut-in	270.0	289.0	282.0	0.0	0.0	T PULLED 1138 hr
E. Init Flow	93.0	155.0	69.0	0.0	0.0	T OUT 1400 hr
F. Final Flow	93.0	110.0	72.0	0.0	0.0	
G. Fl Shut-in	207.0	209.0	202.0	0.0	0.0	TOOL DATA-----
H. Final Hydro	2273.0	2315.0	2232.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs

RECOVERY

60.00 ft of 60.00 ft in DC and 0.00 ft in DP  
 60.00 ft of Drilling Mud w/Stains 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  
 0.00 ft of

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	426.00 ft
D.P. Length	4115.00 ft

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

BLOW DESCRIPTION

Initial Flow:

Tool slid 2' starting with 1" blow decreasing to surface in 30 mins.

Final Flow:

No return blow

MUD DATA-----	
Mud Type	Chemical
Weight	9.10 lb/cf
Vis.	53.00 S/L
W.L.	8.00 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	141.00 F
Hole Condition	Good
% Porosity	0.00
Packer Size	6.75 in
No. of Packers	2
Cushion Amt.	0.00
Cushion Type	

SAMPLES:

SENT TO:

Reversed Out N	
Tool Chased Y	2.00 ft
Tester	Rod Steinbrink
Co. Rep.	Phil/Ross/Rod
Contr.	Nebraska Drlg.
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

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

WELL NAME: Ochsner "A" #2

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

TICKET No. 9990 D.S.T. No. 1 DATE 5-25-97

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

INTERVAL TOOL ..... 20

BOTTOM PACKERS AND ANCHOR .....

TOTAL TOOL ..... 47

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.	Stands	Single	Total
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D.P. ANCHOR STND.	Stands 1	Single	Total 62
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TOTAL ASSEMBLY ..... 109

D.C. ABOVE TOOLS.	Stands 7	Single	Total 426
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D.P. ABOVE TOOLS.	Stands 66	Single 1	Total 4115
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4650

TOTAL DEPTH ..... 4620

TOTAL DRILL PIPE ABOVE K.B. .... 30

REMARKS:

P.O. SUB 1' Above 120' DC	4391
C.O. SUB 1'	4511
S.I. TOOL 5'	4517
HMV 5'	4522
JARS 5'	4527
SAFETY JOINT 2'	4529
PACKER Top 4'	4533
PACKER Bottom 5'	4538
DEPTH STUBB 1'	4539
ANCHOR Alp. Rec. @ 4540	
2'	4541
1' CO Sub	4542
62' DP	4604
1' CO Sub	4605
15' Perf.	4615
T.C. DEPTH	
AK-1 Rec. @ 4615	
BULLNOSE 5'	
T.D.	4620

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9990 DST #1 Ochsner "A" #2 Cambrian Oil Corp.

DATE: 05/25/97

TIME: 06:05:29

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	150.00	2232.9	0.0	133.72		
***** Start Flow 1	0.00	71.4	0.0	134.47		
	1.00	71.6	0.2	134.89		
	2.00	71.8	0.4	135.28		
	3.00	70.8	-0.6	135.62		
	4.00	71.3	-0.0	135.90		
	5.00	71.6	0.3	136.10		
	6.00	72.1	0.7	136.25		
	7.00	72.4	1.0	136.35		
	8.00	72.2	0.9	136.41		
	9.00	72.1	0.8	136.47		
	10.00	72.0	0.6	136.49		
	11.00	72.0	0.6	136.49		
	12.00	72.0	0.6	136.51		
	13.00	71.8	0.5	136.48		
	14.00	71.8	0.5	136.48		
	15.00	71.7	0.4	136.46		
	16.00	71.7	0.3	136.45		
	17.00	71.6	0.3	136.42		
	18.00	71.7	0.4	136.41		
	19.00	71.7	0.4	136.39		
	20.00	71.7	0.3	136.38		
	21.00	71.7	0.3	136.37		
	22.00	71.7	0.3	136.37		
	23.00	71.6	0.3	136.37		
	24.00	71.7	0.4	136.36		
	25.00	71.6	0.3	136.37		
	26.00	71.6	0.2	136.36		
	27.00	71.6	0.2	136.35		
	28.00	71.6	0.2	136.38		
***** End Flow 1	29.00	71.5	0.2	136.38		
***** Start Shutin 1	0.00	71.5	0.0	136.38	0.0000	0.005
	1.00	67.0	-4.5	136.40	30.0000	0.004
	2.00	69.3	-2.2	136.41	15.5000	0.005
	3.00	71.5	0.0	136.42	10.6667	0.005
	4.00	73.9	2.4	136.46	8.2500	0.005
	5.00	76.3	4.8	136.47	6.8000	0.006
	6.00	78.8	7.3	136.49	5.8333	0.006
	7.00	81.4	9.9	136.51	5.1429	0.007
	8.00	84.2	12.7	136.55	4.6250	0.007
	9.00	87.1	15.6	136.57	4.2222	0.008
	10.00	90.0	18.5	136.64	3.9000	0.008
	11.00	93.1	21.6	136.63	3.6364	0.009
	12.00	96.1	24.6	136.67	3.4167	0.009
	13.00	99.2	27.7	136.71	3.2308	0.01
	14.00	102.4	30.9	136.74	3.0714	0.010
	15.00	105.7	34.2	136.80	2.9333	0.011
	16.00	109.2	37.7	136.81	2.8125	0.012
	17.00	112.7	41.2	136.86	2.7059	0.013
	18.00	116.2	44.7	136.88	2.6111	0.014
	19.00	119.8	48.3	136.95	2.5263	0.014



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9990 DST #1 Ochsner "A" #2 Cambrian Oil Corp.

DATE: 05/25/97

TIME: 06:05:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
20.00	123.4	51.9	136.98	2.4500	0.015
21.00	127.1	55.6	136.99	2.3810	0.016
22.00	130.9	59.4	137.03	2.3182	0.017
23.00	134.8	63.3	137.12	2.2609	0.018
24.00	138.6	67.1	137.13	2.2083	0.019
25.00	142.4	70.9	137.20	2.1600	0.020
26.00	146.3	74.8	137.23	2.1154	0.021
27.00	150.2	78.7	137.28	2.0741	0.023
28.00	154.2	82.7	137.31	2.0357	0.024
29.00	158.1	86.6	137.37	2.0000	0.025
30.00	162.1	90.6	137.41	1.9667	0.026
31.00	166.2	94.7	137.44	1.9355	0.028
32.00	170.0	98.5	137.49	1.9062	0.029
33.00	174.1	102.6	137.54	1.8788	0.030
34.00	178.1	106.6	137.59	1.8529	0.032
35.00	182.2	110.7	137.62	1.8286	0.033
36.00	186.1	114.6	137.67	1.8056	0.035
37.00	190.1	118.6	137.71	1.7838	0.036
38.00	194.2	122.7	137.77	1.7632	0.038
39.00	198.2	126.7	137.80	1.7436	0.039
40.00	202.1	130.6	137.84	1.7250	0.041
41.00	206.1	134.6	137.89	1.7073	0.042
42.00	210.1	138.6	137.93	1.6905	0.044
43.00	214.0	142.5	137.97	1.6744	0.046
44.00	217.9	146.4	138.02	1.6591	0.047
45.00	221.8	150.3	138.06	1.6444	0.049
46.00	225.7	154.2	138.11	1.6304	0.051
47.00	229.5	158.0	138.15	1.6170	0.053
48.00	233.5	162.0	138.19	1.6042	0.055
49.00	237.4	165.9	138.24	1.5918	0.056
50.00	241.2	169.7	138.27	1.5800	0.058
51.00	245.1	173.6	138.33	1.5686	0.060
52.00	249.0	177.4	138.37	1.5577	0.062
53.00	252.7	181.2	138.42	1.5472	0.064
54.00	256.5	185.0	138.44	1.5370	0.066
55.00	260.2	188.7	138.50	1.5273	0.068
56.00	263.8	192.3	138.54	1.5179	0.070
57.00	267.6	196.1	138.58	1.5088	0.072
58.00	271.4	199.9	138.61	1.5000	0.074
59.00	275.0	203.5	138.65	1.4915	0.076
60.00	278.7	207.2	138.70	1.4833	0.078
61.00	282.3	210.8	138.75	1.4754	0.080
***** End Shut-in 1					
***** Start Flow 2	0.00	69.3	0.0	138.78	
	1.00	71.7	2.5	138.83	
	2.00	71.9	2.6	138.87	
	3.00	71.9	2.7	138.90	
	4.00	72.1	2.8	138.90	
	5.00	72.1	2.8	138.95	
	6.00	72.0	2.7	138.98	
	7.00	72.1	2.9	139.03	
	8.00	72.1	2.8	139.04	

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9990 DST #1 Ochsner "A" #2 Cambrian Oil Corp.  
 DATE: 05/25/97 TIME: 06:05:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
9.00	72.0	2.7	139.10		
10.00	72.1	2.9	139.14		
11.00	72.1	2.8	139.16		
12.00	72.1	2.9	139.23		
13.00	72.3	3.0	139.25		
14.00	72.3	3.0	139.29		
15.00	72.2	2.9	139.33		
16.00	72.2	3.0	139.37		
17.00	72.3	3.0	139.41		
18.00	72.2	2.9	139.46		
19.00	72.2	2.9	139.50		
20.00	72.3	3.0	139.53		
21.00	72.3	3.1	139.58		
22.00	72.4	3.1	139.62		
23.00	72.4	3.1	139.66		
24.00	72.4	3.1	139.69		
25.00	72.4	3.1	139.72		
26.00	72.4	3.1	139.77		
27.00	72.5	3.2	139.81		
28.00	72.4	3.2	139.84		
29.00	72.4	3.1	139.88		
30.00	71.9	2.6	139.92		

\*\*\*\*\* End Flow 2

\*\*\*\*\* Start Shutin 2

0.00	71.9	0.0	139.92	0.0000	0.005
1.00	65.5	-6.4	139.95	60.0000	0.004
2.00	67.0	-4.9	139.99	30.5000	0.004
3.00	68.4	-3.5	140.03	20.6667	0.005
4.00	69.9	-2.0	140.07	15.7500	0.005
5.00	71.3	-0.5	140.10	12.8000	0.005
6.00	72.9	1.0	140.14	10.8333	0.005
7.00	74.4	2.5	140.17	9.4286	0.006
8.00	76.0	4.1	140.21	8.3750	0.006
9.00	77.6	5.7	140.25	7.5556	0.006
10.00	79.2	7.3	140.28	6.9000	0.006
11.00	80.9	9.1	140.32	6.3636	0.007
12.00	82.7	10.8	140.35	5.9167	0.007
13.00	84.4	12.5	140.41	5.5385	0.007
14.00	86.4	14.5	140.43	5.2143	0.007
15.00	88.2	16.3	140.46	4.9333	0.008
16.00	90.2	18.3	140.50	4.6875	0.008
17.00	92.2	20.3	140.53	4.4706	0.008
18.00	94.2	22.3	140.56	4.2778	0.009
19.00	96.3	24.4	140.59	4.1053	0.009
20.00	98.5	26.6	140.64	3.9500	0.01
21.00	100.5	28.6	140.68	3.8095	0.010
22.00	102.7	30.8	140.71	3.6818	0.011
23.00	104.9	33.0	140.74	3.5652	0.011
24.00	107.1	35.2	140.77	3.4583	0.011
25.00	109.4	37.5	140.82	3.3600	0.012
26.00	111.8	39.9	140.85	3.2692	0.012
27.00	114.1	42.2	140.88	3.1852	0.013
28.00	116.4	44.5	140.93	3.1071	0.014

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9990 DST #1 Ochsner "A" #2 Cambrian Oil Corp.

DATE: 05/25/97

TIME: 06:05:29

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
29.00	118.9	47.0	140.95	3.0345	0.014	
30.00	121.4	49.5	140.99	2.9667	0.015	
31.00	123.8	51.9	141.02	2.9032	0.015	
32.00	126.4	54.5	141.05	2.8438	0.016	
33.00	128.9	57.0	141.09	2.7879	0.017	
34.00	131.4	59.5	141.13	2.7353	0.017	
35.00	133.9	62.0	141.15	2.6857	0.018	
36.00	136.6	64.7	141.19	2.6389	0.019	
37.00	139.1	67.2	141.22	2.5946	0.019	
38.00	141.7	69.8	141.27	2.5526	0.020	
39.00	144.3	72.4	141.29	2.5128	0.021	
40.00	147.0	75.1	141.33	2.4750	0.022	
41.00	149.6	77.7	141.36	2.4390	0.022	
42.00	152.3	80.4	141.40	2.4048	0.023	
43.00	155.0	83.1	141.43	2.3721	0.024	
44.00	157.7	85.8	141.47	2.3409	0.025	
45.00	160.4	88.5	141.50	2.3111	0.026	
46.00	163.1	91.2	141.53	2.2826	0.027	
47.00	165.9	94.0	141.57	2.2553	0.028	
48.00	168.6	96.7	141.59	2.2292	0.028	
49.00	171.3	99.4	141.63	2.2041	0.029	
50.00	174.0	102.2	141.66	2.1800	0.030	
51.00	176.8	104.9	141.70	2.1569	0.031	
52.00	179.5	107.6	141.73	2.1346	0.032	
53.00	182.2	110.3	141.76	2.1132	0.033	
54.00	185.1	113.2	141.78	2.0926	0.034	
55.00	187.9	116.0	141.83	2.0727	0.035	
56.00	190.6	118.7	141.86	2.0536	0.036	
57.00	193.3	121.4	141.89	2.0351	0.037	
58.00	196.1	124.2	141.92	2.0172	0.038	
59.00	199.0	127.1	141.96	2.0000	0.040	
***** End Shut-in 2	60.00	201.7	129.8	141.98	1.9833	0.041
***** Final Hydro.	335.00	2232.1	0.0	142.12		

# TEST HISTORY

9990 DST #1 Ochsner "A" #2 Cambrian Oil Corp.

Flag Points  
t (Min.) P (PSig)

A:	0.00	2232.87
B:	0.00	71.35
C:	29.00	71.50
D:	61.00	282.35
E:	0.00	69.27
F:	30.00	71.89
G:	60.00	201.65
Q:	0.00	2232.12

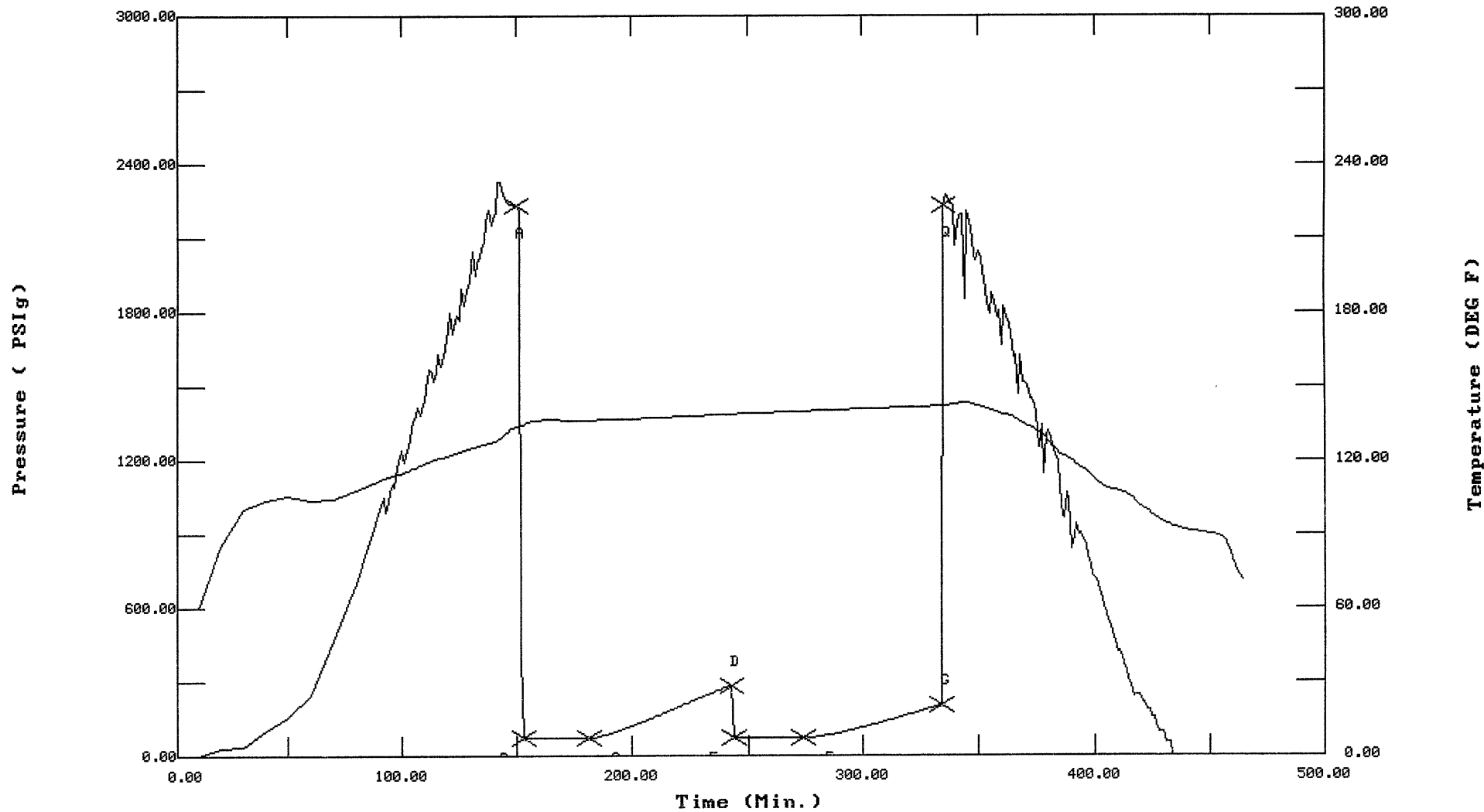
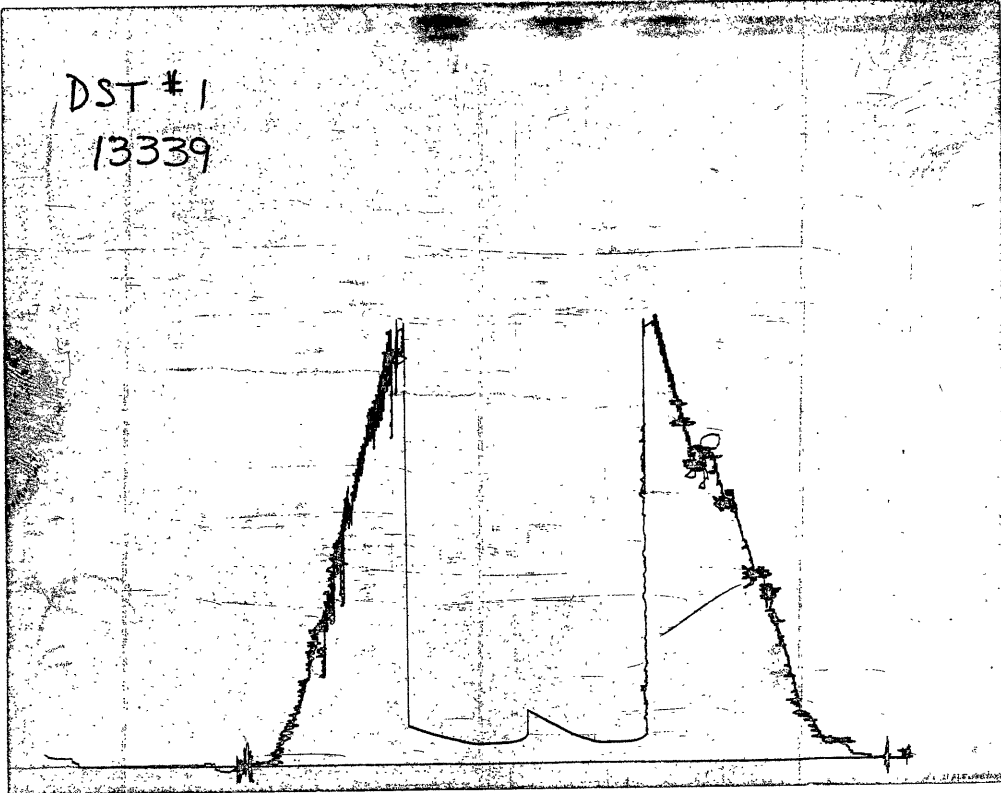


CHART PAGE



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 9990

Well Name & No. Ochsner 'A' #2 Test No. 1 Date 5-25-97  
 Company Cambrian Oil Corporation Zone Tested Toronto/Lans. 'A'  
 Address 2400 W. Pawnee Ste. 104 Wichita, KS, 67213 Elevation 3589 KB 3584 GL  
 Co. Rep / Geo. Rod Anderson/Ross M. 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)     

Interval Tested 4538 - 4620' Initial Str Wt./Lbs. 60,000 Unseated Str Wt./Lbs. 60,000  
 Anchor Length 82' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 80,000  
 Top Packer Depth 4533 Tool Weight 1,800  
 Bottom Packer Depth 4538 Hole Size — 7 7/8"      Rubber Size — 6 3/4"       
 Total Depth 4620 Wt. Pipe Run      Drill Collar Run 426'  
 Mud Wt. 9.1 LCM      Vis. 53 WL 8.0 Drill Pipe Size 4 1/2" XH Ft. Run 4115'

Blow Description IF: Tool slid 2' picking up 1" blow decreased to surface blow  
FF: No return blow.

Recovery — Total Feet 60' GIP      Ft. in DC 60' Ft. in DP     

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	<u>60'</u> Feet Of <u>Drilg Mud</u>	%gas	%oil	%water	%mud
Rec.	Feet Of <u>w/ Oil Stains in Tool</u>	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 141° °F Gravity      °API D@      °F Corrected Gravity      °API

RW      @      °F Chlorides      ppm Recovery Chlorides 600 ppm System

(A) Initial Hydrostatic Mud 2232 PSI Recorder No. 13339 T-Started 0605  
 (B) First Initial Flow Pressure 71 PSI (depth) 4615 T-Open 0838  
 (C) First Final Flow Pressure 71 PSI Recorder No. 2341 T-Pulled 1138  
 (D) Initial Shut-in Pressure 282 PSI (depth) 4540 T-Out 1400  
 (E) Second Initial Flow Pressure 69 PSI Recorder No.       
 (F) Second Final Flow Pressure 71 PSI (depth)       
 (G) Final Shut-in Pressure 201 PSI Initial Opening 30 Test       
 (H) Final Hydrostatic Mud 2276 PSI Initial Shut-in 60 Jars X  
 Final Flow 30 Safety Joint X  
 Final Shut-in 60 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] Circ. Sub X N/C       
 Our Representative Rod Steinbrink Sampler       
 Extra Packer       
 Elect. Rec. X  
 Other       
 TOTAL PRICE \$

TRILOBITE TESTING L.L.C.

OPERATOR : Cambrian Oil Corporation  
 WELL NAME: Ochsner "A" #2  
 LOCATION : 30-1S-41W Cheyenne KS.  
 INTERVAL : 4735.00 To 4764.00 ft

DATE 5-26-97

KB 3589.00 ft TICKET NO: 9991 DST #2  
 GR 3584.00 ft FORMATION: Lans/KC "D"  
 TD 4764.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13339	13339	2341			PF Fr. 1005 to 1035 hr
SI 60	Range (Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 1035 to 1135 hr
CF 60	Clock (hrs)	12 HR	12 HR	Elec			SF Fr. 1135 to 1235 hr
FS 60	Depth(ft )	4759.0	4759.0	4739.0	0.0	0.0	FS Fr. 1235 to 1335 hr

	Field	1	2	3	4	
A. Init Hydro	2453.0	2533.0	2451.0	0.0	0.0	T STARTED 0802 hr
B. First Flow	31.0	117.0	18.0	0.0	0.0	T ON BOTM 1003 hr
31. Final Flow	31.0	91.0	21.0	0.0	0.0	T OPEN 1005 hr
C. In Shut-in	1200.0	1241.0	1227.0	0.0	0.0	T PULLED 1335 hr
D. Init Flow	41.0	120.0	25.0	0.0	0.0	T OUT 1645 hr
E. Final Flow	41.0	98.0	37.0	0.0	0.0	
F. Fl Shut-in	869.0	896.0	897.0	0.0	0.0	TOOL DATA-----
G. Final Hydro	2373.0	2412.0	2345.0	0.0	0.0	Tool Wt. 1800.00 lbs
Inside/Outside	0	0	I			Wt Set On Packer 30000.00 lbs
						Wt Pulled Loose 70000.00 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 426.00 ft
						D.P. Length 4301.00 ft

RECOVERY

Total Fluid 60.00 ft of 60.00 ft in DC and 0.00 ft in DP  
 5.00 ft of Free Oil  
 55.00 ft of Oil Cut Mud  
 0.00 ft of 15%oil 85%mud  
 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 slowly built to 1/2"  
 Initial Shut In:  
 No blow  
 Final Flow:  
 Surface return in 22 mins, built to 1/4"  
 Final Shut In:  
 No blow

SAMPLES:  
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.00 lb/cf
Vis.	50.00 S/L
W.L.	7.60 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	147.00 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/Ross
Contr.	Nebraska
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

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

WELL NAME: Ochsner "A" #2

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

TICKET No. 9991 D.S.T. No. 2 DATE 5-26-97

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

INTERVAL TOOL ..... 29

BOTTOM PACKERS AND ANCHOR .....

TOTAL TOOL ..... 56

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.	Stands	Single	Total
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D.P. ANCHOR STND.	Stands	Single	Total
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TOTAL ASSEMBLY ..... 56

D.C. ABOVE TOOLS.	Stands	7	Single	Total	426
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D.P. ABOVE TOOLS.	Stands	69	Single	1	Total	4301
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TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4783

TOTAL DEPTH ..... 4764

TOTAL DRILL PIPE ABOVE K.B. .... 19

REMARKS:

P.O. SUB 1' Above 120' DC	4588
C.O. SUB 1'	4708
S.I. TOOL 5'	4714
HMV 5'	4719
JARS 5'	4724
SAFETY JOINT 2'	4726
PACKER Top 4'	4730
PACKER Bottom 5'	4735
DEPTH STUBB 1'	4736
ANCHOR Alp. Rec. @ 4739	
23' Perf.	4759
T.C. DEPTH	
AK-1 Rec. @ 4759	
BULLNOSE 5'	
T.D.	4764



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9991 DST #2 Ochsner "A" #2 Cambrian Oil Corp.

DATE: 05/26/97

TIME: 08:02:39

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	121.00	2451.0	0.0	135.87		
***** Start Flow 1	0.00	17.7	0.0	136.32		
	1.00	16.8	-0.9	136.81		
	2.00	15.0	-2.7	137.21		
	3.00	14.8	-2.9	137.51		
	4.00	15.0	-2.7	137.79		
	5.00	15.3	-2.4	137.95		
	6.00	15.7	-1.9	138.05		
	7.00	15.9	-1.8	138.14		
	8.00	16.6	-1.1	138.19		
	9.00	16.5	-1.2	138.25		
	10.00	16.8	-0.9	138.28		
	11.00	17.1	-0.6	138.31		
	12.00	17.1	-0.6	138.34		
	13.00	17.3	-0.3	138.36		
	14.00	17.6	-0.1	138.39		
	15.00	17.8	0.1	138.42		
	16.00	18.1	0.4	138.45		
	17.00	18.3	0.7	138.48		
	18.00	18.5	0.8	138.52		
	19.00	18.8	1.1	138.55		
	20.00	19.1	1.4	138.59		
	21.00	19.3	1.6	138.61		
	22.00	19.5	1.8	138.65		
	23.00	19.9	2.2	138.71		
	24.00	19.9	2.2	138.75		
	25.00	20.2	2.5	138.81		
	26.00	20.4	2.7	138.87		
	27.00	20.5	2.8	138.94		
	28.00	20.8	3.1	138.99		
	29.00	21.0	3.3	139.05		
***** End Flow 1	30.00	21.2	3.5	139.11		
***** Start Shutin 1	0.00	21.2	0.0	139.11	0.0000	0.000
	1.00	28.9	7.7	139.18	31.0000	0.001
	2.00	41.4	20.2	139.25	16.0000	0.002
	3.00	57.3	36.1	139.32	11.0000	0.003
	4.00	81.4	60.2	139.40	8.5000	0.007
	5.00	121.7	100.5	139.47	7.0000	0.015
	6.00	192.7	171.5	139.55	6.0000	0.037
	7.00	304.3	283.1	139.64	5.2857	0.093
	8.00	436.8	415.6	139.73	4.7500	0.191
	9.00	554.6	533.4	139.85	4.3333	0.308
	10.00	646.1	624.9	139.96	4.0000	0.417
	11.00	716.5	695.3	140.06	3.7273	0.513
	12.00	771.6	750.4	140.15	3.5000	0.595
	13.00	816.0	794.8	140.27	3.3077	0.666
	14.00	852.7	831.5	140.37	3.1429	0.727
	15.00	883.8	862.6	140.45	3.0000	0.781
	16.00	910.4	889.2	140.55	2.8750	0.829
	17.00	933.7	912.5	140.64	2.7647	0.872
	18.00	954.3	933.1	140.72	2.6667	0.911

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9991 DST #2 Ochsner "A" #2 Cambrian Oil Corp.

DATE: 05/26/97

TIME: 08:02:39

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
19.00	972.7	951.5	140.78	2.5789	0.946	
20.00	989.1	967.9	140.88	2.5000	0.978	
21.00	1004.0	982.8	140.94	2.4286	1.008	
22.00	1017.8	996.6	141.03	2.3636	1.036	
23.00	1030.4	1009.2	141.09	2.3043	1.062	
24.00	1042.1	1020.9	141.15	2.2500	1.086	
25.00	1052.9	1031.7	141.23	2.2000	1.109	
26.00	1063.1	1041.9	141.30	2.1538	1.130	
27.00	1072.7	1051.5	141.35	2.1111	1.151	
28.00	1081.8	1060.6	141.39	2.0714	1.170	
29.00	1090.2	1069.0	141.48	2.0345	1.189	
30.00	1098.2	1077.0	141.52	2.0000	1.206	
31.00	1105.9	1084.7	141.58	1.9677	1.223	
32.00	1113.0	1091.8	141.65	1.9375	1.239	
33.00	1119.8	1098.6	141.70	1.9091	1.254	
34.00	1126.4	1105.2	141.75	1.8824	1.269	
35.00	1132.6	1111.4	141.80	1.8571	1.283	
36.00	1138.6	1117.4	141.88	1.8333	1.296	
37.00	1144.1	1122.9	141.90	1.8108	1.309	
38.00	1149.6	1128.4	141.95	1.7895	1.322	
39.00	1154.6	1133.4	142.00	1.7692	1.333	
40.00	1159.5	1138.3	142.05	1.7500	1.344	
41.00	1164.3	1143.1	142.10	1.7317	1.356	
42.00	1168.8	1147.6	142.15	1.7143	1.366	
43.00	1173.3	1152.1	142.21	1.6977	1.377	
44.00	1177.6	1156.4	142.23	1.6818	1.387	
45.00	1181.7	1160.5	142.26	1.6667	1.396	
46.00	1185.6	1164.4	142.27	1.6522	1.406	
47.00	1189.3	1168.1	142.33	1.6383	1.414	
48.00	1192.7	1171.5	142.38	1.6250	1.423	
49.00	1196.1	1174.9	142.44	1.6122	1.431	
50.00	1199.1	1177.9	142.47	1.6000	1.438	
51.00	1202.2	1181.0	142.55	1.5882	1.445	
52.00	1205.2	1184.0	142.56	1.5769	1.453	
53.00	1208.2	1187.0	142.61	1.5660	1.460	
54.00	1211.0	1189.8	142.66	1.5556	1.467	
55.00	1213.8	1192.6	142.68	1.5455	1.473	
56.00	1216.5	1195.3	142.73	1.5357	1.480	
57.00	1219.2	1198.0	142.80	1.5263	1.486	
58.00	1221.9	1200.7	142.83	1.5172	1.493	
59.00	1224.4	1203.2	142.87	1.5085	1.499	
***** End Shut-in 1	60.00	1226.8	1205.6	142.87	1.5000	1.505
***** Start Flow 2	0.00	25.0	0.0	142.91		
	1.00	26.0	1	142.88		
	2.00	27.0	2.0	142.87		
	3.00	26.4	1.4	142.86		
	4.00	26.6	1.6	142.87		
	5.00	27.1	2.1	142.89		
	6.00	27.5	2.5	142.90		
	7.00	27.7	2.7	142.93		
	8.00	27.6	2.6	142.96		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9991 DST #2 Ochsner "A" #2 Cambrian Oil Corp.

DATE: 05/26/97

TIME: 08:02:39

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
9.00	27.9	2.9	143.00		
10.00	28.0	3.0	143.03		
11.00	28.2	3.2	143.07		
12.00	28.3	3.4	143.12		
13.00	28.5	3.6	143.16		
14.00	28.5	3.5	143.21		
15.00	28.8	3.8	143.26		
16.00	28.9	3.9	143.31		
17.00	29.1	4.1	143.36		
18.00	29.2	4.2	143.41		
19.00	29.3	4.3	143.48		
20.00	29.3	4.3	143.53		
21.00	29.5	4.5	143.59		
22.00	29.7	4.7	143.65		
23.00	29.7	4.7	143.70		
24.00	29.8	4.9	143.78		
25.00	30.1	5.2	143.82		
26.00	30.4	5.4	143.89		
27.00	30.5	5.5	143.94		
28.00	30.7	5.7	144.01		
29.00	30.7	5.7	144.06		
30.00	31.0	6.1	144.12		
31.00	30.9	6.0	144.19		
32.00	31.2	6.2	144.24		
33.00	31.4	6.4	144.30		
34.00	31.5	6.5	144.37		
35.00	31.7	6.7	144.44		
36.00	31.8	6.8	144.49		
37.00	32.0	7.0	144.56		
38.00	32.0	7.0	144.61		
39.00	32.1	7.1	144.66		
40.00	32.3	7.3	144.71		
41.00	32.4	7.4	144.79		
42.00	32.5	7.6	144.84		
43.00	32.6	7.6	144.90		
44.00	32.8	7.8	144.95		
45.00	32.8	7.9	145.01		
46.00	33.0	8.0	145.08		
47.00	33.2	8.2	145.13		
48.00	33.3	8.3	145.19		
49.00	33.5	8.5	145.24		
50.00	33.6	8.6	145.29		
51.00	33.7	8.7	145.34		
52.00	33.8	8.8	145.39		
53.00	34.1	9.1	145.45		
54.00	34.1	9.1	145.51		
55.00	34.2	9.2	145.55		
56.00	34.3	9.3	145.61		
57.00	34.5	9.5	145.66		
58.00	34.6	9.6	145.71		
59.00	36.9	12.0	145.75		

\*\*\*\*\* End Flow 2

## ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9991 DST #2 Ochsner "A" #2 Cambrian Oil Corp.

DATE: 05/26/97

TIME: 08:02:39

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Start Shutin 2	0.00	36.9	0.0	145.75	0.0000	0.001
	1.00	42.1	5.2	145.80	90.0000	0.002
	2.00	47.8	10.8	145.84	45.5000	0.002
	3.00	54.1	17.2	145.90	30.6667	0.003
	4.00	61.3	24.4	145.92	23.2500	0.004
	5.00	69.5	32.6	145.98	18.8000	0.005
	6.00	79.0	42.0	146.03	15.8333	0.006
	7.00	90.0	53.1	146.08	13.7143	0.008
	8.00	102.9	66.0	146.13	12.1250	0.011
	9.00	118.2	81.2	146.18	10.8889	0.014
	10.00	136.4	99.5	146.22	9.9000	0.019
	11.00	158.6	121.6	146.26	9.0909	0.025
	12.00	185.1	148.1	146.31	8.4167	0.034
	13.00	216.6	179.6	146.36	7.8462	0.047
	14.00	252.8	215.8	146.42	7.3571	0.064
	15.00	292.7	255.8	146.46	6.9333	0.086
	16.00	335.4	298.4	146.50	6.5625	0.112
	17.00	378.4	341.4	146.56	6.2353	0.143
	18.00	420.2	383.3	146.63	5.9444	0.177
	19.00	459.2	422.2	146.66	5.6842	0.211
	20.00	494.9	457.9	146.71	5.4500	0.245
	21.00	526.8	489.9	146.75	5.2381	0.278
	22.00	555.1	518.1	146.80	5.0455	0.308
	23.00	580.2	543.2	146.85	4.8696	0.337
	24.00	602.7	565.7	146.89	4.7083	0.363
	25.00	622.7	585.8	146.93	4.5600	0.388
	26.00	641.1	604.1	146.98	4.4231	0.411
	27.00	657.6	620.7	147.01	4.2963	0.432
	28.00	673.2	636.2	147.04	4.1786	0.453
	29.00	687.4	650.4	147.08	4.0690	0.472
	30.00	700.5	663.6	147.11	3.9667	0.491
	31.00	712.9	675.9	147.14	3.8710	0.508
	32.00	724.4	687.5	147.17	3.7812	0.525
	33.00	735.5	698.5	147.21	3.6970	0.541
	34.00	745.7	708.7	147.22	3.6176	0.556
	35.00	755.4	718.5	147.24	3.5429	0.571
	36.00	764.4	727.5	147.27	3.4722	0.584
	37.00	773.1	736.1	147.29	3.4054	0.598
	38.00	781.1	744.2	147.31	3.3421	0.610
	39.00	789.0	752.0	147.33	3.2821	0.622
	40.00	796.6	759.6	147.36	3.2250	0.635
	41.00	803.7	766.8	147.39	3.1707	0.646
	42.00	810.6	773.6	147.40	3.1190	0.657
	43.00	817.0	780.0	147.41	3.0698	0.667
	44.00	823.4	786.5	147.43	3.0227	0.678
	45.00	829.3	792.4	147.44	2.9778	0.688
	46.00	835.2	798.3	147.47	2.9348	0.698
	47.00	840.8	803.9	147.40	2.8936	0.707
	48.00	846.3	809.4	147.50	2.8542	0.716
	49.00	851.6	814.6	147.50	2.8163	0.725
	50.00	856.7	819.7	147.55	2.7800	0.734

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9991 DST #2 Ochsner "A" #2 Cambrian Oil Corp.

DATE: 05/26/97 TIME: 08:02:39

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
	51.00	861.7	824.8	147.56	2.7451	0.743
	52.00	866.4	829.5	147.59	2.7115	0.751
	53.00	871.1	834.2	147.60	2.6792	0.759
	54.00	875.6	838.7	147.62	2.6481	0.767
	55.00	880.1	843.1	147.66	2.6182	0.775
	56.00	884.3	847.4	147.68	2.5893	0.782
	57.00	888.6	851.6	147.71	2.5614	0.790
	58.00	892.7	855.8	147.71	2.5345	0.797
***** End Shut-in 2	59.00	896.7	859.8	147.73	2.5085	0.804
***** Final Hydro.	334.00	2344.8	0.0	147.84		

# TEST HISTORY

9991 DST #2 Ochsner "A" #2 Cambrian Oil Corp.

Flag Points

t (Min.) P (PSIg)

A:	0.00	2450.99
B:	0.00	17.69
C:	30.00	21.20
D:	60.00	1226.82
E:	0.00	24.99
F:	59.00	36.95
G:	59.00	896.71
Q:	0.00	2344.85

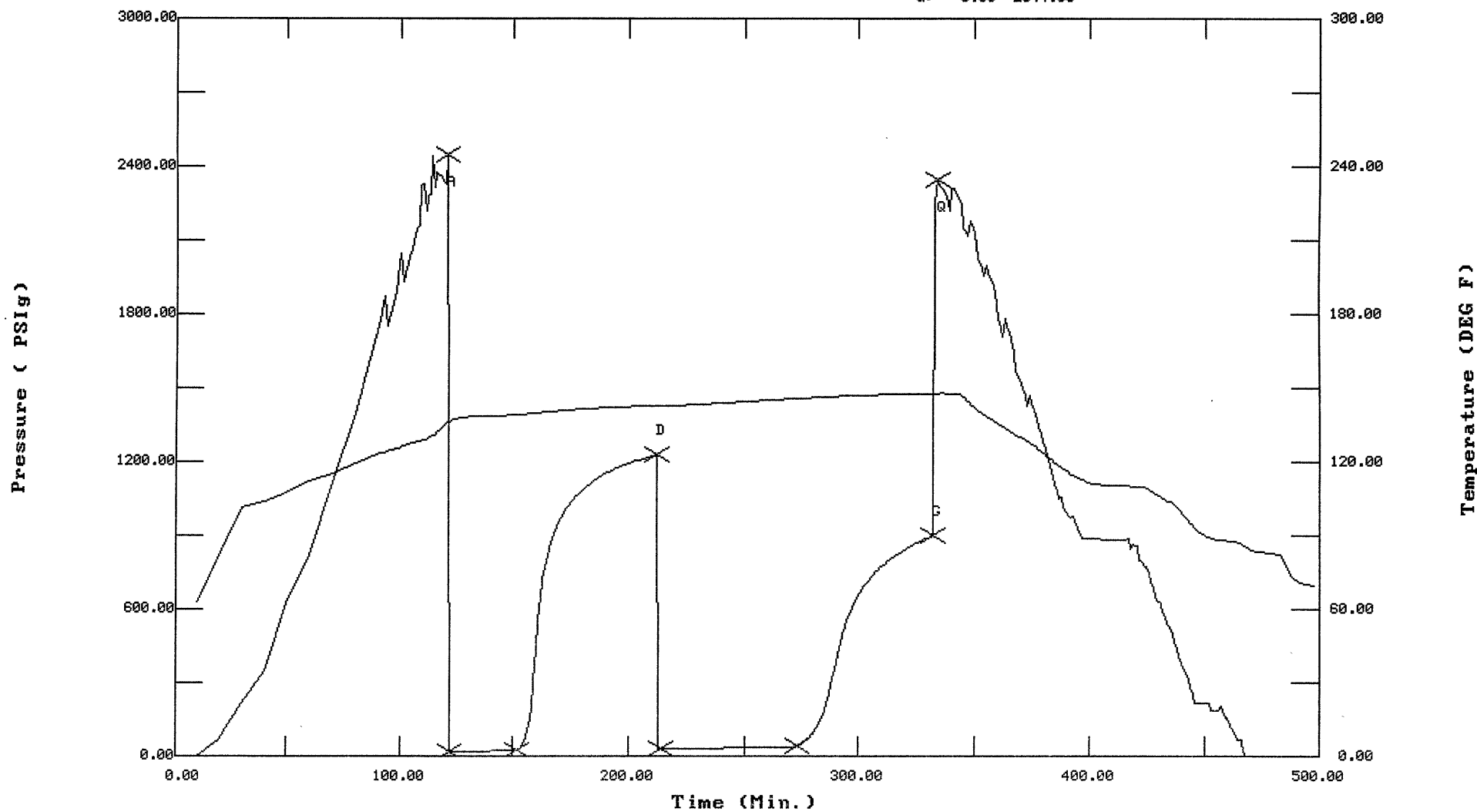
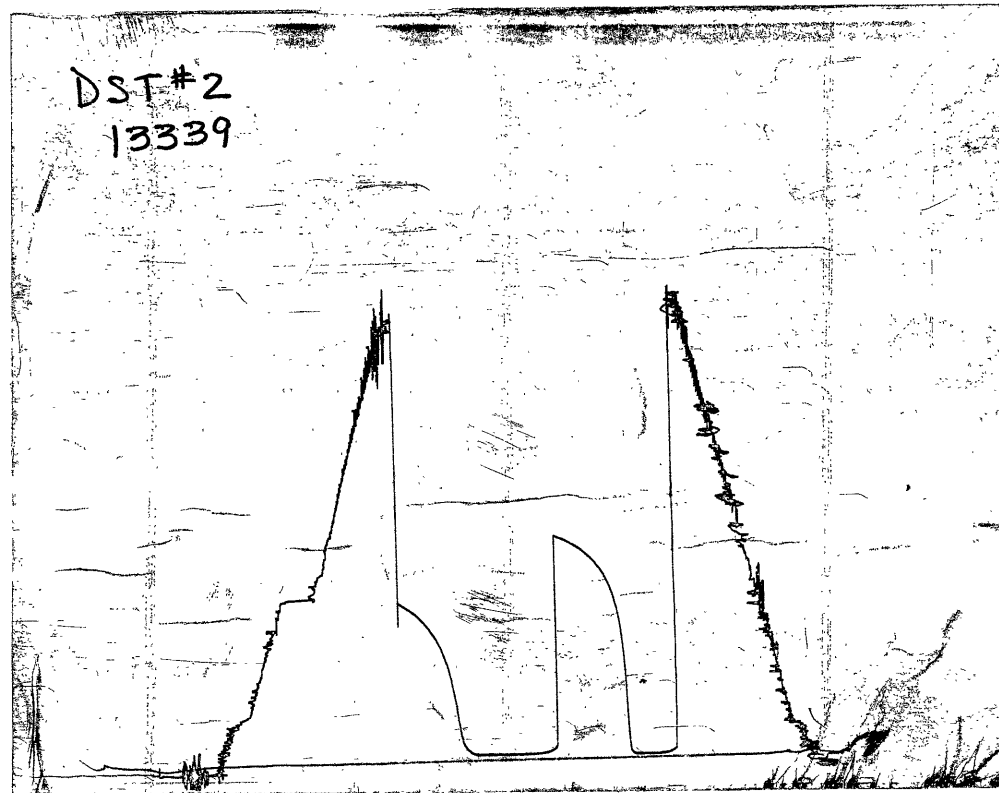


CHART PAGE



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> 9991

Well Name & No.	<u>Ochsner 'A' #2</u>	Test No.	<u>2</u>	Date	<u>5-26-97</u>
Company	<u>Cambrian Oil Corporation</u>	Zone Tested	<u>Lans / KC 'D'</u>		
Address	<u>2400 W. Pawnee Ste. 104 Wichita, KS 67213</u>	Elevation	<u>3589</u>	KB	<u>3584</u>
Co. Rep / Geo.	<u>Phil Rod Ross</u>	Cont.	<u>Nebraska #1</u>	Est. Ft. of Pay	<u>    </u> Por. <u>    </u> %
Location: Sec.	<u>30</u>	Twp.	<u>1S</u>	Rge.	<u>41<sup>W</sup></u> Co. <u>Cheyenne</u> State <u>KS</u>
No. of Copies	<u>Nml</u>	Distribution Sheet (Y, N)	<u>N</u>	Turnkey (Y, N)	<u>N</u> Evaluation (Y, N) <u>    </u>

Interval Tested	<u>4735 - 4764</u>	Initial Str Wt./Lbs.	<u>60,000</u>	Unseated Str Wt./Lbs.	<u>60,000</u>
Anchor Length	<u>29'</u>	Wt. Set Lbs.	<u>30,000</u>	Wt. Pulled Loose/Lbs.	<u>70,000</u>
Top Packer Depth	<u>4730</u>	Tool Weight	<u>1,800</u>		
Bottom Packer Depth	<u>4735</u>	Hole Size — 7 7/8"	<u>    </u>	Rubber Size — 6 3/4"	<u>    </u>
Total Depth	<u>4764</u>	Wt. Pipe Run	<u>    </u>	Drill Collar Run	<u>426'</u>
Mud Wt. <u>9.0</u> LCM <u>    </u> Vis. <u>50</u> WL <u>7.6</u>		Drill Pipe Size	<u>4 1/2" XH</u>	Ft. Run	<u>4301'</u>
Blow Description	<u>IF: Weak surface blow slowly built to 1/2"</u>				
	<u>IST: No blow</u>				
	<u>FF: Surface return in 22 mins. built to 1/4"</u>				
	<u>FSI: No blow.</u>				

Recovery — Total Feet	<u>60'</u>	GIP	<u>    </u>	Ft. in DC	<u>60'</u>	Ft. in DP	<u>    </u>				
Rec.	<u>5'</u>	Feet Of	<u>Free Oil</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>55'</u>	Feet Of	<u>OCM</u>	<u>    </u> %gas	<u>15</u> %oil	<u>    </u> %water	<u>85</u> %mud				
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 147° °F Gravity      °API D@      °F Corrected Gravity      °API  
RW      @      °F Chlorides      ppm Recovery Chlorides 600 ppm System

(A) Initial Hydrostatic Mud	<u>2329</u> PSI	Recorder No.	<u>2341</u>	T-Started	<u>0802</u>
(B) First Initial Flow Pressure	<u>16</u> PSI	(depth)	<u>4739</u>	T-Open	<u>1005</u>
(C) First Final Flow Pressure	<u>29</u> PSI	Recorder No.	<u>13339</u>	T-Pulled	<u>1335</u>
(D) Initial Shut-in Pressure	<u>1226</u> PSI	(depth)	<u>4759</u>	T-Out	<u>1615</u>
(E) Second Initial Flow Pressure	<u>24</u> PSI	Recorder No.	<u>    </u>		
(F) Second Final Flow Pressure	<u>34</u> PSI	(depth)	<u>    </u>		
(G) Final Shut-in Pressure	<u>896</u> PSI	Initial Opening	<u>30</u>	Test	<u>    </u>
(H) Final Hydrostatic Mud	<u>2324</u> PSI	Initial Shut-in	<u>60</u>	Jars	<u>X</u>
		Final Flow	<u>60</u>	Safety Joint	<u>X</u>
		Final Shut-in	<u>60</u>	Straddle	<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 Rod Arsen  
Our Representative Rod Steinbrink

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.

OPERATOR : Cambrian Oil Corporation  
 WELL NAME: Ochsner "A" #2  
 LOCATION : 30-1S-41W Cheyenne KS.  
 INTERVAL : 5318.00 To 5333.00 ft

DATE 5-28-97

KB 3589.00 ft TICKET NO: 9993 DST #3  
 GR 3584.00 ft FORMATION: Morrow  
 TD 5333.00 ft TEST TYPE: CONV

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	13339	13339	2341			PF Fr. 2013 to 2043 hr
RI 60	Range(Psi )	4025.0	4025.0	4995.0	0.0	0.0	IS Fr. 2043 to 2143 hr
RF 30	Clock(hrs)	12 HR	12 HR	Elec			SF Fr. 2143 to 2213 hr
FS 60	Depth(ft )	5328.0	5328.0	5320.0	0.0	0.0	FS Fr. 2213 to 2313 hr

		Field	1	2	3	4	
A.	Init Hydro	2771.0	2845.0	2778.0	0.0	0.0	T STARTED 1730 hr
B.	First Flow	20.0	9.0	15.0	0.0	0.0	T ON BOTM 2011 hr
C1.	Final Flow	20.0	9.0	18.0	0.0	0.0	T OPEN 2013 hr
D.	In Shut-in	41.0	38.0	57.0	0.0	0.0	T PULLED 2313 hr
D.	Init Flow	20.0	30.0	17.0	0.0	0.0	T OUT 0115 hr
E.	Final Flow	20.0	13.0	17.0	0.0	0.0	
F.	F1 Shut-in	31.0	17.0	33.0	0.0	0.0	
G.	Final Hydro	2662.0	2656.0	2694.0	0.0	0.0	TOOL DATA-----
	Inside/Outside	0	0	I			Tool Wt. 1800.00 lbs
							Wt Set On Packer 30000.00 lbs
							Wt Pulled Loose 70000.00 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 426.00 ft
							D.P. Length 4889.00 ft

RECOVERY

Tot Fluid 5.00 ft of 5.00 ft in DC and 0.00 ft in DP  
 5.00 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 15 mins

Final Flow:  
 No return blow

SAMPLES:  
 SENT TO:

MUD DATA-----

Mud Type	Chemical
Weight	9.30 lb/cf
Vis.	47.00 S/L
W.L.	8.80 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	156.00 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/Ross
Contr.	Nebraska Drlg.
Rig #	1
Unit #	
Pump T.	

Test Successful: Y

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

WELL NAME: Ochsner "A" #2

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

TICKET No. 9993 D.S.T. No. 3 DATE 5-28-97

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

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY ..... 42

D.C. ABOVE TOOLS.Stands7 Single Total 426

D.P. ABOVE TOOLS.Stands79 Single Total 4889

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 5357

TOTAL DEPTH ..... 5333

TOTAL DRILL PIPE ABOVE K.B. .... 24

REMARKS:

P.O. SUB 1' Above 120' DC 5171  
C.O. SUB 1' 5291

S.I. TOOL 5' 5297

HMV 5' 5302

JARS 5' 5307

SAFETY JOINT 2' 5309

PACKER TOP 4' 5313

PACKER BOTTOM 5' 5318

DEPTH  
STUBB 1' 5319  
ANCHOR

Alpine Rec. @ 5320

9' Perf. 5328

T.C.  
DEPTH

AK-1 Rec. @ 5328

BULLNOSE 5' 5333

T.D.

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9993 DST #3 Ochsner "A" #2 Cambrian Oil Corporation

DATE: 05/28/97

TIME: 17:30:34

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
***** Initial Hydro.	160.00	2777.9	0.0	142.60		
***** Start Flow 1	0.00	15.4	0.0	142.76		
	1.00	15.7	0.3	143.07		
	2.00	16.0	0.6	143.36		
	3.00	16.1	0.7	143.62		
	4.00	16.2	0.8	143.83		
	5.00	16.3	0.9	144.03		
	6.00	16.5	1.1	144.21		
	7.00	16.6	1.2	144.38		
	8.00	16.7	1.3	144.55		
	9.00	16.7	1.3	144.71		
	10.00	16.7	1.3	144.88		
	11.00	16.9	1.5	145.03		
	12.00	16.9	1.5	145.17		
	13.00	17.0	1.6	145.33		
	14.00	17.0	1.6	145.49		
	15.00	17.1	1.7	145.62		
	16.00	17.2	1.8	145.76		
	17.00	17.2	1.8	145.88		
	18.00	17.3	1.9	146.00		
	19.00	17.4	2.0	146.14		
	20.00	17.4	2.0	146.27		
	21.00	17.5	2.1	146.39		
	22.00	17.5	2.1	146.52		
	23.00	17.5	2.1	146.64		
	24.00	17.7	2.3	146.76		
	25.00	17.6	2.2	146.88		
	26.00	17.6	2.2	146.98		
	27.00	17.7	2.3	147.09		
	28.00	17.6	2.2	147.21		
	29.00	17.6	2.2	147.31		
	30.00	17.6	2.2	147.43		
***** End Flow 1	31.00	17.5	2.1	147.54		
***** Start Shutin 1	0.00	17.5	0.0	147.54	0.0000	0.000
	1.00	16.7	-0.8	147.65	32.0000	0.000
	2.00	16.9	-0.6	147.73	16.5000	0.000
	3.00	17.3	-0.2	147.84	11.3333	0.000
	4.00	17.8	0.3	147.94	8.7500	0.000
	5.00	18.0	0.5	148.04	7.2000	0.000
	6.00	18.5	1	148.14	6.1667	0.000
	7.00	18.9	1.4	148.23	5.4286	0.000
	8.00	19.3	1.8	148.33	4.8750	0.000
	9.00	19.7	2.2	148.43	4.4444	0.000
	10.00	20.2	2.7	148.52	4.1000	0.000
	11.00	20.7	3.2	148.62	3.8182	0.000
	12.00	21.2	3.7	148.71	3.5833	0.000
	13.00	21.8	4.3	148.80	3.3846	0.000
	14.00	22.4	4.9	148.88	3.2143	0.001
	15.00	22.8	5.3	148.98	3.0667	0.001
	16.00	23.4	5.9	149.07	2.9375	0.001
	17.00	23.9	6.4	149.17	2.8235	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9993 DST #3 Ochsner "A" #2 Cambrian Oil Corporation

DATE: 05/28/97

TIME: 17:30:34

Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>
18.00	24.3	6.8	149.23	2.7222	0.001
19.00	25.0	7.5	149.34	2.6316	0.001
20.00	25.6	8.1	149.42	2.5500	0.001
21.00	26.1	8.6	149.51	2.4762	0.001
22.00	26.6	9.1	149.53	2.4091	0.001
23.00	27.2	9.7	149.62	2.3478	0.001
24.00	27.9	10.4	149.71	2.2917	0.001
25.00	28.4	10.9	149.80	2.2400	0.001
26.00	29.0	11.5	149.88	2.1923	0.001
27.00	29.7	12.2	149.96	2.1481	0.001
28.00	30.3	12.8	150.05	2.1071	0.001
29.00	31.0	13.5	150.12	2.0690	0.001
30.00	31.7	14.2	150.20	2.0333	0.001
31.00	32.2	14.7	150.28	2.0000	0.001
32.00	32.9	15.4	150.35	1.9688	0.001
33.00	33.6	16.1	150.42	1.9394	0.001
34.00	34.2	16.7	150.51	1.9118	0.001
35.00	35.0	17.5	150.58	1.8857	0.001
36.00	35.7	18.2	150.66	1.8611	0.001
37.00	36.5	19.0	150.73	1.8378	0.001
38.00	37.2	19.7	150.81	1.8158	0.001
39.00	38.0	20.5	150.88	1.7949	0.001
40.00	38.8	21.3	150.95	1.7750	0.002
41.00	39.5	22.0	151.03	1.7561	0.002
42.00	40.3	22.8	151.09	1.7381	0.002
43.00	41.0	23.5	151.16	1.7209	0.002
44.00	41.8	24.3	151.23	1.7045	0.002
45.00	42.6	25.1	151.30	1.6889	0.002
46.00	43.4	25.9	151.36	1.6739	0.002
47.00	44.2	26.7	151.43	1.6596	0.002
48.00	45.1	27.6	151.50	1.6458	0.002
49.00	46.0	28.5	151.57	1.6327	0.002
50.00	46.9	29.4	151.63	1.6200	0.002
51.00	47.7	30.2	151.70	1.6078	0.002
52.00	48.7	31.2	151.77	1.5962	0.002
53.00	49.7	32.2	151.82	1.5849	0.002
54.00	50.7	33.2	151.89	1.5741	0.003
55.00	51.8	34.3	151.95	1.5636	0.003
56.00	52.8	35.3	152.03	1.5536	0.003
57.00	54.0	36.5	152.08	1.5439	0.003
58.00	55.0	37.5	152.14	1.5345	0.003
59.00	56.1	38.6	152.20	1.5254	0.003
60.00	57.3	39.8	152.27	1.5167	0.003
***** End Shut-in 1					
***** Start Flow 2					
0.00	16.6	0.0	152.32		
1.00	16.4	-0.2	152.38		
2.00	16.3	-0.3	152.45		
3.00	16.3	-0.3	152.51		
4.00	16.4	-0.3	152.56		
5.00	16.3	-0.3	152.62		
6.00	16.4	-0.2	152.62		
7.00	16.2	-0.4	152.73		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9993 DST #3 Ochsner "A" #2 Cambrian Oil Corporation  
 DATE: 05/28/97 TIME: 17:30:34

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P <sup>2</sup> /10 <sup>6</sup>	
8.00	16.2	-0.4	152.79			
9.00	16.3	-0.3	152.83			
10.00	16.4	-0.2	152.93			
11.00	16.6	-0.0	152.91			
12.00	16.5	-0.1	153.00			
13.00	16.6	0.0	153.06			
14.00	16.7	0.1	153.13			
15.00	16.6	0.0	153.19			
16.00	16.6	-0.0	153.23			
17.00	16.6	-0.0	153.30			
18.00	16.7	0.1	153.35			
19.00	16.7	0.1	153.39			
20.00	16.8	0.2	153.49			
21.00	16.8	0.2	153.53			
22.00	16.6	-0.0	153.61			
23.00	16.7	0.1	153.67			
24.00	16.7	0.1	153.68			
25.00	16.7	0.1	153.77			
26.00	16.7	0.1	153.81			
27.00	16.7	0.1	153.86			
28.00	16.7	0.1	153.92			
***** End Flow 2						
***** Start Shutin 2	0.00	16.7	0.0	153.92	0.0000	0.000
	1.00	16.1	-0.7	153.98	60.0000	0.000
	2.00	16.3	-0.5	154.02	30.5000	0.000
	3.00	16.6	-0.1	154.07	20.6667	0.000
	4.00	16.8	0.0	154.14	15.7500	0.000
	5.00	17.3	0.5	154.18	12.8000	0.000
	6.00	17.6	0.9	154.23	10.8333	0.000
	7.00	17.9	1.1	154.28	9.4286	0.000
	8.00	18.2	1.4	154.32	8.3750	0.000
	9.00	18.5	1.8	154.36	7.5556	0.000
	10.00	18.8	2.1	154.42	6.9000	0.000
	11.00	19.2	2.5	154.49	6.3636	0.000
	12.00	19.5	2.8	154.52	5.9167	0.000
	13.00	19.9	3.1	154.56	5.5385	0.000
	14.00	20.2	3.5	154.62	5.2143	0.000
	15.00	20.6	3.9	154.66	4.9333	0.000
	16.00	21.0	4.2	154.72	4.6875	0.000
	17.00	21.4	4.6	154.75	4.4706	0.000
	18.00	21.7	5.0	154.80	4.2778	0.000
	19.00	21.9	5.2	154.85	4.1053	0.000
	20.00	22.2	5.5	154.90	3.9500	0.000
	21.00	22.6	5.8	154.94	3.8095	0.001
	22.00	22.8	6.1	154.98	3.6818	0.001
	23.00	23.2	6.4	155.02	3.5652	0.001
	24.00	23.5	6.7	155.07	3.4583	0.001
	25.00	23.8	7.0	155.12	3.3600	0.001
	26.00	24.0	7.3	155.16	3.2692	0.001
	27.00	24.3	7.5	155.20	3.1852	0.001
	28.00	24.6	7.8	155.25	3.1071	0.001
	29.00	24.8	8.1	155.29	3.0345	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 9993 DST #3 Ochsner "A" #2 Cammbrian Oil Corporation

DATE: 05/28/97

TIME: 17:30:34

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6	
30.00	25.1	8.4	155.34	2.9667	0.001	
31.00	25.4	8.6	155.38	2.9032	0.001	
32.00	25.7	9.0	155.42	2.8438	0.001	
33.00	25.9	9.1	155.47	2.7879	0.001	
34.00	26.2	9.5	155.50	2.7353	0.001	
35.00	26.5	9.8	155.56	2.6857	0.001	
36.00	26.7	10	155.59	2.6389	0.001	
37.00	27.1	10.3	155.63	2.5946	0.001	
38.00	27.4	10.7	155.68	2.5526	0.001	
39.00	27.7	10.9	155.72	2.5128	0.001	
40.00	28.0	11.2	155.76	2.4750	0.001	
41.00	28.2	11.5	155.81	2.4390	0.001	
42.00	28.4	11.7	155.85	2.4048	0.001	
43.00	28.7	12.0	155.89	2.3721	0.001	
44.00	29.1	12.3	155.93	2.3409	0.001	
45.00	29.2	12.5	155.97	2.3111	0.001	
46.00	29.5	12.7	156.01	2.2826	0.001	
47.00	29.7	13.0	156.04	2.2553	0.001	
48.00	30.1	13.3	156.08	2.2292	0.001	
49.00	30.2	13.5	156.12	2.2041	0.001	
50.00	30.6	13.8	156.17	2.1800	0.001	
51.00	30.9	14.1	156.20	2.1569	0.001	
52.00	31.1	14.3	156.25	2.1346	0.001	
53.00	31.3	14.6	156.29	2.1132	0.001	
54.00	31.6	14.8	156.33	2.0926	0.001	
55.00	31.9	15.1	156.36	2.0727	0.001	
56.00	32.1	15.4	156.40	2.0536	0.001	
57.00	32.3	15.6	156.44	2.0351	0.001	
58.00	32.6	15.8	156.47	2.0172	0.001	
59.00	32.8	16.0	156.51	2.0000	0.001	
***** End Shut-in 2	60.00	33.0	16.2	156.56	1.9833	0.001
***** Final Hydro.	343.00	2693.5	0.0	156.83		

# TEST HISTORY

9993 DST #3 Ochsner "A" #2 Cambrian Oil Corporation

## Flag Points

t(Min.) P(PSIg)

A:	0.00	2777.87
B:	0.00	15.40
C:	31.00	17.50
D:	60.00	57.30
E:	0.00	16.61
F:	28.00	16.75
G:	60.00	32.97
Q:	0.00	2693.50

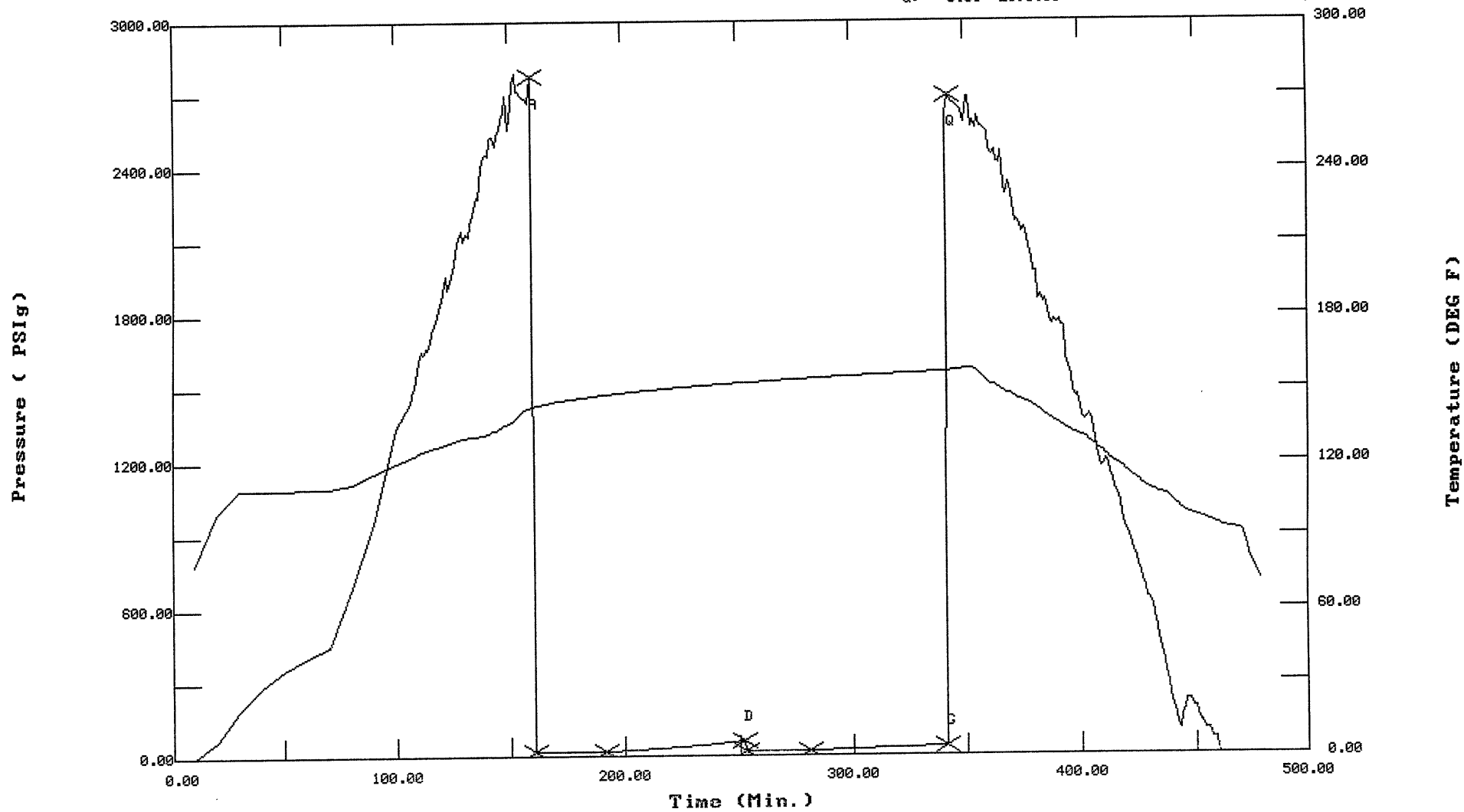
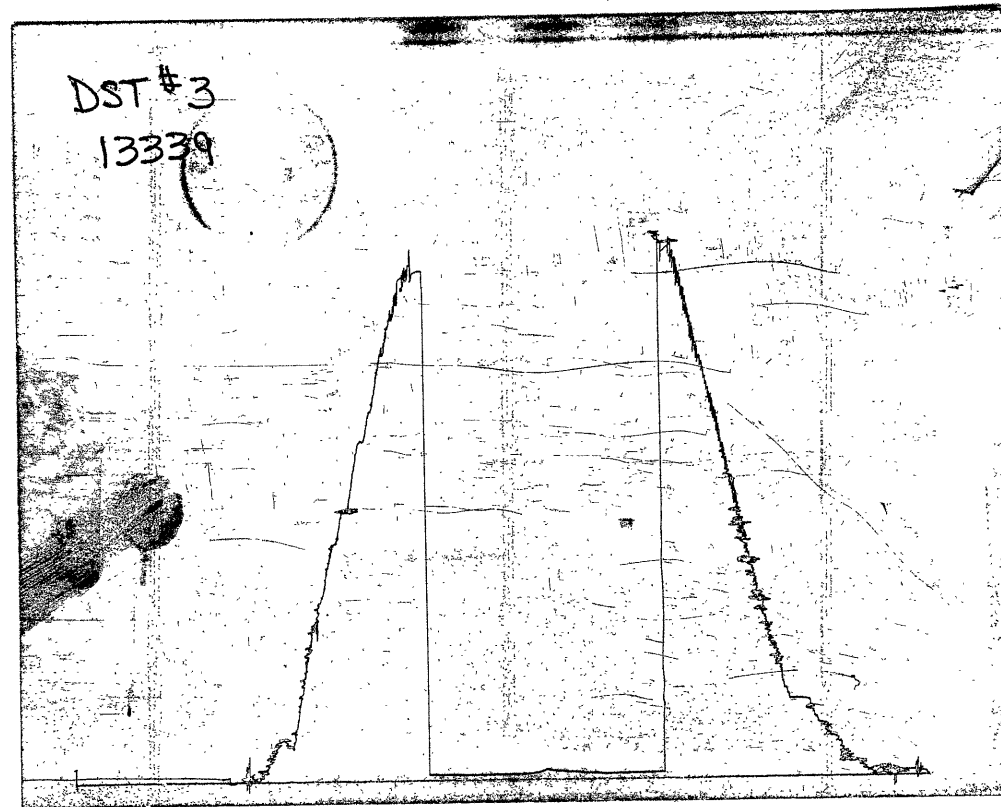


CHART PAGE



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 9993

Well Name & No. Ochsner 'A' #2 Test No. 3 Date 5-28-97  
Company Cambrian Oil Corporation Zone Tested Morrow  
Address 2400 W. Pawnee Ste 104 Wichita, KS 67213 Elevation 3589 KB 3584 GL  
Co. Rep / Geo. Phil - Rod - Ross 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 1 Distribution Sheet (Y, N) N Turnkey (Y, N) N Evaluation (Y, N)     

Interval Tested 5318 - 5333 Initial Str Wt./Lbs. 60,000 Unseated Str Wt./Lbs. 60,000  
Anchor Length 15' Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 70,000  
Top Packer Depth 5318.3 Tool Weight 1,800  
Bottom Packer Depth 5318 Hole Size — 7 7/8" Rubber Size — 6 3/4"  
Total Depth 5333 Wt. Pipe Run      Drill Collar Run 426'  
Mud Wt. 9.3 LCM      Vis. 47 WL 8.8 Drill Pipe Size 4 1/2" KH Ft. Run 4889'  
Blow Description IF: Weak surface blow died in 15 mins.

FF: No return blow

Recovery — Total Feet 5' GIP      Ft. in DC 5' Ft. in DP     

Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	<u>5'</u> Feet Of <u>Drig. Mud</u>	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud
Rec.	Feet Of	%gas	%oil	%water	%mud

BHT 156° °F Gravity      °API D@      °F Corrected Gravity      °API  
RW      @      °F Chlorides      ppm Recovery Chlorides 600 ppm System  
(A) Initial Hydrostatic Mud 2672 PSI Recorder No. 2341 T-Started 1730  
(B) First Initial Flow Pressure 15 PSI (depth) 5320 T-Open 2013  
(C) First Final Flow Pressure 17 PSI Recorder No. 13339 T-Pulled 2313  
(D) Initial Shut-in Pressure 57 PSI (depth) 5328 T-Out 0115  
(E) Second Initial Flow Pressure 16 PSI Recorder No.       
(F) Second Final Flow Pressure 16 PSI (depth)       
(G) Final Shut-in Pressure 32 PSI Initial Opening 30 Test       
(H) Final Hydrostatic Mud 2622 PSI Initial Shut-in 60 Jars X

Final Flow 30 Safety Joint X  
Final Shut-in 60 Straddle     

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Approved By Phil Ochsner  
Our Representative Rod Steinbrink  
Circ. Sub X N/C  
Sampler       
Extra Packer       
Elect. Rec. X  
Other       
TOTAL PRICE \$