

Plugged 3-12

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

ORIGINAL

Operator: License # 32211

Name: OBRIEN ENERGY RESOURCES CORP.

Address 75 Congress Street

City/State/Zip Portsmouth, NH 03801

Purchaser: _____

Operator Contact Person: John Forma

Phone (800) 291-1969

Contractor: Name: Discovery Drilling, Inc.

License: 31548

Wellsite Geologist: Denny Furst

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/Re-Entry: 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. _____

3/4/98 3/11/98 3/12/98
Spud Date Date Reached TD Completion Date

API NO. 15- 15-24046 0000

County Ness

- NE - NE - SW Sec. 26 Twp. 19S Rge. 22W X

2310 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, SE, NW or (SW) (circle one)

Lease Name Schaben Well # 1

Field Name Schaben

Producing Formation None

Elevation: Ground 2257 KB 2265

Total Depth 4450 PBDT _____

Amount of Surface Pipe Set and Cemented at 307.42 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 D+A, 6-8-98 UC
(Data must be collected from the Reserve Pit)

Chloride content 12,000 ppm Fluid volume 1,300 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

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, 200 Colorado Derby Building, 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 [Signature]

Title Operator Date _____

Subscribed and sworn to before me this 20 day of March 19 98

Notary Public Heidi L Byers

Date Commission Expires: HEIDI L. BYERS, Notary Public
My Commission Expires August 6, 2002

15-31-98

STATE CORPORATION COMMISSION
K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received

OIL & GAS CONSERVATION DIVISION
Distribution
Wichita, Kansas

KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Operator Name O'BRIEN ENERGY RESOURCES CORPORATION Lease Name Schab Well # 1
 East County Ness
 Sec. 26 Twp. 19S Rge. 22W 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.)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

List All E.Logs Run: *Dual Induction,
 Neutron/Density Log.*

CASING RECORD New 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 Pipe	12 1/4	8 5/8	20	307.42	60/40Poz	185	2%Gel&3%CC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD: Size _____ Set At _____ Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. D+A Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours: Oil N-A Bbls. Gas Mcf Water 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
 Other (Specify) _____
 Production Interval _____

ORIGINAL



REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES, INC.

INVOICE NO. DATE

396502 03/05/1998

WELL LEASE NO	PROJECT	WELL PROJECT LOCATION	STATE	OWNER	
HABIN 1		NESS	KS	SAMP	
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET	DATE	
HAYS	DISCOVERY DRILLING	SHOWN BELOW		03/05/1998	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
1915	TOM ALM			COMPANY TRUCK	38705

PD BY CK# 2016 \$1,990.39

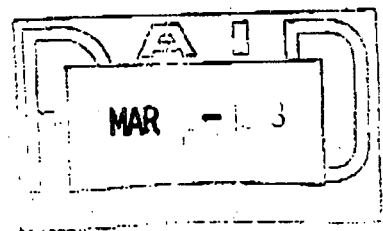
DIRECT CORRESPONDENCE TO:

DISCOVERY DRILLING
P.O. BOX 763
HAYS, KS 67601

1102 E. 8TH
HAYS KS 67601
913-625-3431

ORIGINAL

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
DRILLING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT SURFACE CASING					
00-117	MILEAGE CEMENTING ROUND TRIP	100 MI		3.65	365.00
		1 UNT			
01-016	CEMENTING CASING	307 FT		1,630.00	1,630.00
		1 UNT			
30-503	CMTG PLUG LA-11, CP-1, CP-3, TOP	8 5/8 IN		95.00	95.00
		1 EA			
04-136	CEMENT - 40/60 POZMIX STANDARD	185 SK		8.71	1,611.35
06-121	HALLIBURTON-GEL 2%	3 LB		.00	N/C
09-406	ANHYDROUS CALCIUM CHLORIDE	4 SK		46.90	187.60
00-207	BULK SERVICE CHARGE	193 CFT		1.66	320.38
00-306	MILEAGE CMTG MAT DEL OR RETURN	388.738 TMI		1.25	485.92
JOB PURPOSE SUBTOTAL					4,695.25
INVOICE SUBTOTAL					4,695.25
DISCOUNT - (BID)					2,770.18
INVOICE BID AMOUNT					1,925.07
*- KANSAS STATE SALES TAX					54.25
*- HAYS CITY SALES TAX					11.07
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$1,990.39



TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay the reasonable costs of such attorney.

*** CASH JOB ***



JOB SUMMARY 4239-1

REGION North America		NW/COUNTRY Mid Cont. USA		TICKET # 396502	TICKET DATE 3-5-98
BOA / STATE Hous, KS		COUNTY Ness		EMPLOYEE NAME K. Richmeier	
WELL ID / EMP # NO 503-59734		COMPANY Discovery Dalg		PSL DEPARTMENT 5143	
LOCATION Hous, KS		WELL TYPE 01		CUSTOMER REP / PHONE Thomas A. M 623-2920	
TICKET AMOUNT		DEPARTMENT Seal		JOB PURPOSE CODE D/O	
WELL LOCATION SW Bazine, KS		SEC / TWP / RANG			

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS K. Richmeier #59734	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
T. P. P. #1182			
R. R. #51361			

ORIGINAL

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
421220 P.U.	114						
53202 Pump	114						
4444/5070 R.T.	114						

Form Name _____ Type: _____
 Form Thickness _____ From _____ To _____
 Packer Type _____ Set At _____
 Bottom Hole Temp. _____ Pressure _____
 Misc. Data _____ Total Depth _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar		
Float Shoe		
Guide Shoe		
Centralizers		
Bottom Plug		
Top Plug LA-11 B	1	WALCO
Head		
Packer		
Other		

MATERIALS

Treat Fluid _____	Density _____	Lb/Gal _____
Disp. Fluid _____	Density _____	Lb/Gal _____
Prop. Type _____	Size _____	Lb. _____
Acid Type _____	Gal. _____	% _____
Surfactant _____	Gal. _____	In _____
NE Agent _____	Gal. _____	In _____
Fluid Loss _____	Gal/Lb _____	In _____
Gelling Agent _____	Gal/Lb _____	In _____
Fric. Red. _____	Gal/Lb _____	In _____
Breaker _____	Gal/Lb _____	In _____
Blocking Agent _____	Gal/Lb _____	Qty. _____
Perpac Balls _____		
Other _____		
Other _____		
Other _____		
Other _____		

DATE	TIME	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
3-4-98	1930	3498	2230	3-5-98	0245
					0415

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TC	MAX ALLOW.
Casing N	20	8 1/2	KR	307	
Liner					
Liner					
Tbg/D.P.					
Tbg/D.P.					
Open Hole					SHOTS/FT
Perforations					
Perforations					
Perforations					

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
3-4	2.5	3-4	0.5	
3-5	4	3-5	1	
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER

ORDERED	Avail.	Used
TREATED	AVERAGE RATES IN BPM	Overall
FEET	CEMENT LEFT IN PIPE	Reason

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	185	40/60	B	2 1/2 gal. 3 1/2 cc	1.3	13.6

Circulating Breakdown _____	Displacement _____	Pretlush: _____	Gal - BBI _____	Type _____
Average _____	Maximum _____	Load & Bkdn: _____	Gal - BBI _____	Pad: BBI - Gal _____
Shut In: Instant _____	Frac Gradient _____	Treatment _____	Gal - BBI _____	Disp: BBI - _____ 19.5
	5 Min _____ 15 Min _____	Cement Slurr _____	Gal - BBI _____	
		Total Volume _____	Gal - BBI _____	

Frac Ring #1 _____ Frac Ring #2 _____ Frac Ring #3 _____ Frac Ring #4 _____

THE INFORMATION STATED HEREIN IS CORRECT CUSTOMER'S REPRESENTATIVE SIGNATURE _____

JOB LC 4239-5

REGION North America
 MBU ID / EMP # 440502 41489
 LOCATION Hays 25525
 TICKET AMOUNT 4081
 WELL LOCATION 6-3 Hzw Bazine Ks
 LEASE / WELL # Schaben 1

NWA CONTINENT
 EMPLOYEE NAME Gal Palmberg
 COMPANY Discovery Drilling
 WELL TYPE 01
 DEPARTMENT 5001
 SEC / TWP / RNG 26-19s-22w

TICKET # 18 1/2
 TICKET DATE 3-12-98
 BDA / STATE KS
 COUNTY NESS
 PSL DEPARTMENT 5001
 CUSTOMER REP / PHONE Tom Alh
 API / UWI # APE 15-135-140460000
 JOB PURPOSE CODE 115

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
Gal Palmberg 41489	D Fulk J0763		
M Karlin G 1511			

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0800							Called out
	1035							On location Rig Laying down D.P.
								Discuss Job
								Set up Equipment
	1250		14					Drill Pipe @ 1540'
			23					Mix Balance 50sks 40/60 Pozmix A 6%Gel 1/4" Flocc
			0					Drill Pipe @ 700'
			11					Mix and Balance 80 sks 40/60 Pozmix A 6%Gel 1/4" Flocc
			3					Drill Pipe @ 330'
			4					Mix and Balance 40sks 40/60 Pozmix A 6%Gel 1/4" Flocc
	1540		3					Push 8 5/8" Top Plug to 40'
								Pump 10sks 40/60 Pozmix A 6%Gel 1/4" Flocc
								Plug Rat Hole with 15sks 40/60 Pozmix A 6%Gel 1/4" Flocc
								Plug Mouse Hole with 10sks 40/60 Pozmix A 6%Gel 1/4" Flocc
								Wash up
								Rack up
								Job completed
								205 sks 40/60 Pozmix A 6%Gel 1/4" Flocc
								1 8 5/8" Top plug
								Thank you
								Lail Mel & Doreity

RECEIVED
 REGULATION COMMISSION

MAR 31 1998

REGULATION
 Wichita, Kansas

ORIGINAL

DENNY FURST
Consulting Geologist
16536 W. 74th Place
Arvada, CO 80007
(303) 423-3617/423-7273

GEOLOGIC REPORT

RE: #1 Schaben Well
NE-NE-SW, Section 26-T19S-R22W
Ness County, Kansas

15-135-24046

SPUDED: March 2, 1998

DRILLING COMPLETED: March 12, 1998

SURFACE CASING: 8 5/8" at 307'

ELECTRIC LOGS: Log-Tech Digital Log DIL-CDL/CNL

ELEVATIONS: 2265 KB; 2262 DF; 2260 GL;

FORMATION TOPS (EL):
Stone Corral Anhydrite 1496 (+769)
Base Stone Corral Anhydrite 1533 (+732)
Heebner Shale 3734 (-1469)
Toronto Limestone 3756 (-1491)
Lansing 3772 (-1507)
Base Kansas City 4116 (-1851)
Pawnee Limestone 4214 (-1949)
Fort Scott Limestone 4292 (-2027)
Cherokee Shale 4315 (-2050)
Cherokee Sandy Limestone 4356 (-2091)
Basal Penn Conglomerate 4364 (-2099)
Eroded Mississippian Warsaw 4402 (-2137)
Mississippian Cherty Limestone 4410 (-2145)
Mississippian Chert 4418 (-2153)

RTD DRILLER: 4450 (-2265)

LTD: 4452 (-2187)

BOTTOM LOGGED
INTERVAL: 4451 (-2186)

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DIVISION

MAR 31 1998

DIVISION
Arvada, Kansas

RE: #1 Schaben Well
NE-NE-SW, Section 26-T19S-R22W
Ness County, Kansas
Page 2

Samples were examined by microscope from 3000 feet to rotary total depth. Wet and dry samples were saved from 3700 feet and 10-foot dry samples were saved from 3700 feet to RTD.

All zones containing shows of oil and/or gas were drill-stem tested. All potential zones in the Lansing, Kansas City were either chalky or barren.

Circulating samples wet and dry were saved and examined at 4300, 4315, 4360, 4375, 4380, 4385, 4390, 4400, 4410, 4420, 4450 RTD.

The Mississippian drilled rough, 4402, 4403, 4406-10.

MARMATON ZONES: The Upper Marmaton Section from 4165-4210 consisted of buff to tan to brown, dense to sub-lithographic limestones inter-bedded with grey shales. The section was mostly tight with no shows of oil or gas.

PAWNEE LIMESTONE: 4214-4286, limestone was buff to tan, some brown, some mottled, dense to lithographic, slightly chert, tight, no show of oil.

FORT SCOTT: 4292-4315, limestone buff, dense to finely crystalline, some poor to fair vugular with poor to fair scattered dark brown stain, dull fluorescence, slight pale green cut.

CHEROKEE SANDY LIMESTONE: 4356-4364, limestone light gray with inter-bedded calcareous sandstone, very fine grained, tight clusters, no show.

BASAL PENN CONGLOMERATE: 4364-4396, chert white to light gray, opaque to translucent, inter-bedded with red and green shale, dark brown stain on chert, trace pale green fluorescence, trace cut, orange fluorescence.

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COMMISSION

MAR 31 1908

UNION
KANSAS

RE: #1 Schaben Well
NE-NE-SW, Section 26-T19S-R22W
Ness County, Kansas
Page 3

ERODED
MISSISSIPPIAN
WARSAW DOLOMITE:

4402-4408, dolomite cream to buff, siliceous slightly sucrosic to dense, trace dark brown stain, some pin-point porosity, streaming cut, dull gold fluorescence.

MISSISSIPPIAN
CHERT &
LIMESTONE:

4410-4418, limestone white to light gray, dense, chert white to light gray, opaque to translucent, tight.

OSAGE CHERT:

4418-RTD, chert white to light gray, opaque to translucent, no shows.

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COMMISSION

MAR 31 1998

REGISTRATION DIVISION
Topeka, Kansas

ORIGINAL

WELL NAME:

Schaben #1

COMPANY:

O'Brien Energy Corp.

LOCATION:

26-19S-22W

Ness County, Kansas

DATE:

3/16/98

15-135-24076

TRILOBITE TESTING L.L.C.

OPERATOR : O Brien Energy Corp.

DATE 3-10-98

WELL NAME: Schaben #1

KB 2265.00 ft

TICKET NO: 11218

DST #1

LOCATION : 26-19S-22W CO Ness KS

GR 2260.00 ft

FORMATION: miss

INTERVAL : 4364.00 To 4380.00 ft

TD 4380.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins		Field	1	2	3	4	TIME DATA-----
PF 30	Rec.	11058	11058	2342			PF Fr. 1505 to 1535 hr
SI 60	Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 1535 to 1635 hr
SF 15	Clock(hrs)	12	12	alpin			SF Fr. 1635 to 1650 hr
FS 60	Depth(ft)	4377.0	4377.0	4366.0	0.0	0.0	FS Fr. 1650 to 1750 hr

		Field	1	2	3	4	
A.	Init Hydro	2222.0	2221.0	2212.0	0.0	0.0	T STARTED 1300 hr
B.	First Flow	66.0	66.0	24.0	0.0	0.0	T ON BOTM 1501 hr
B1.	Final Flow	44.0	43.0	25.0	0.0	0.0	T OPEN 1505 hr
C.	In Shut-in	55.0	53.0	36.0	0.0	0.0	T PULLED 1750 hr
D.	Init Flow	44.0	43.0	24.0	0.0	0.0	T OUT 1950 hr
E.	Final Flow	44.0	43.0	25.0	0.0	0.0	
F.	Fl Shut-in	55.0	54.0	33.0	0.0	0.0	TOOL DATA-----
G.	Final Hydro	2210.0	2204.0	2159.0	0.0	0.0	Tool Wt. 4000.00 lbs
	Inside/Outside	i	i	o			Wt Set On Packer 26000.00 lbs
							Wt Pulled Loose 53000.00 lbs
							Initial Str Wt 45000.00 lbs
							Unseated Str Wt 45000.00 lbs

RECOVERY

Tot Fluid 1.00 ft of 1.00 ft in DC and 0.00 ft in DP

1.00 ft of drilling mud 100% 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

Tool Wt.	4000.00 lbs
Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	53000.00 lbs
Initial Str Wt	45000.00 lbs
Unseated Str Wt	45000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.50 in
D.C. Length	61.00 ft
D.P. Length	4283.00 ft

BLOW DESCRIPTION

Initial Flow:
Weak 1/2" blow

Initial Shut-in:
No return

Final Flow:
No blow

Final Shut-in:
No blow

MUD DATA-----

Mud Type	chem
Weight	9.30 lb/cf
Vis.	51.00 S/L
W.L.	9.20 in3
F.C.	0.00 in
Mud Drop N	

Amt. of fill	0.00 ft
Btm. H. Temp.	110.00 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	Shane McBride
Co. Rep.	Denny Furst
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

SAMPLES:

SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Schaben #1

LOCATION : 26-19S-22W CO Ness KS

TICKET No. 11218 D.S.T. No. 1 DATE 3-10-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS 27

INTERVAL TOOL

BOTTOM PACKERS AND ANCHOR 16

TOTAL TOOL 43

DRILL COLLAR ANCHOR IN INTERVAL

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY 43

D.C. ABOVE TOOLS.Stands1 Single Total 61

D.P. ABOVE TOOLS.Stands70 Single 1 Total 4283

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4387

TOTAL DEPTH 4380

TOTAL DRILL PIPE ABOVE K.B. 7

REMARKS:

	P.O. SUB	
	C.O. SUB 1'	4336
	S.I. TOOL 5'	4342
	HMV 5'	4347
	JARS 5'	4352
	SAFETY JOINT 2'	4354
	PACKER top	4359
	PACKER bottom	4364
	DEPTH 4364	
	STUBB 1'	4365
	ANCHOR 1' perf	4366
	alpine recorder	4366
	9' perf	4375
	ak-1 recorder	4377
	T.C.	
	DEPTH	
	BULLNOSE 5' bullplug	4380
	T.D.	4380

TEST HISTORY

11218 DST #1 OBrien Energy

Flag Points
t(Min.) P(PSig)

A:	0.00	2212.51
B:	0.00	24.60
C:	29.00	25.40
D:	60.00	36.29
E:	0.00	24.72
F:	14.00	25.36
G:	60.00	33.59
Q:	0.00	2159.50

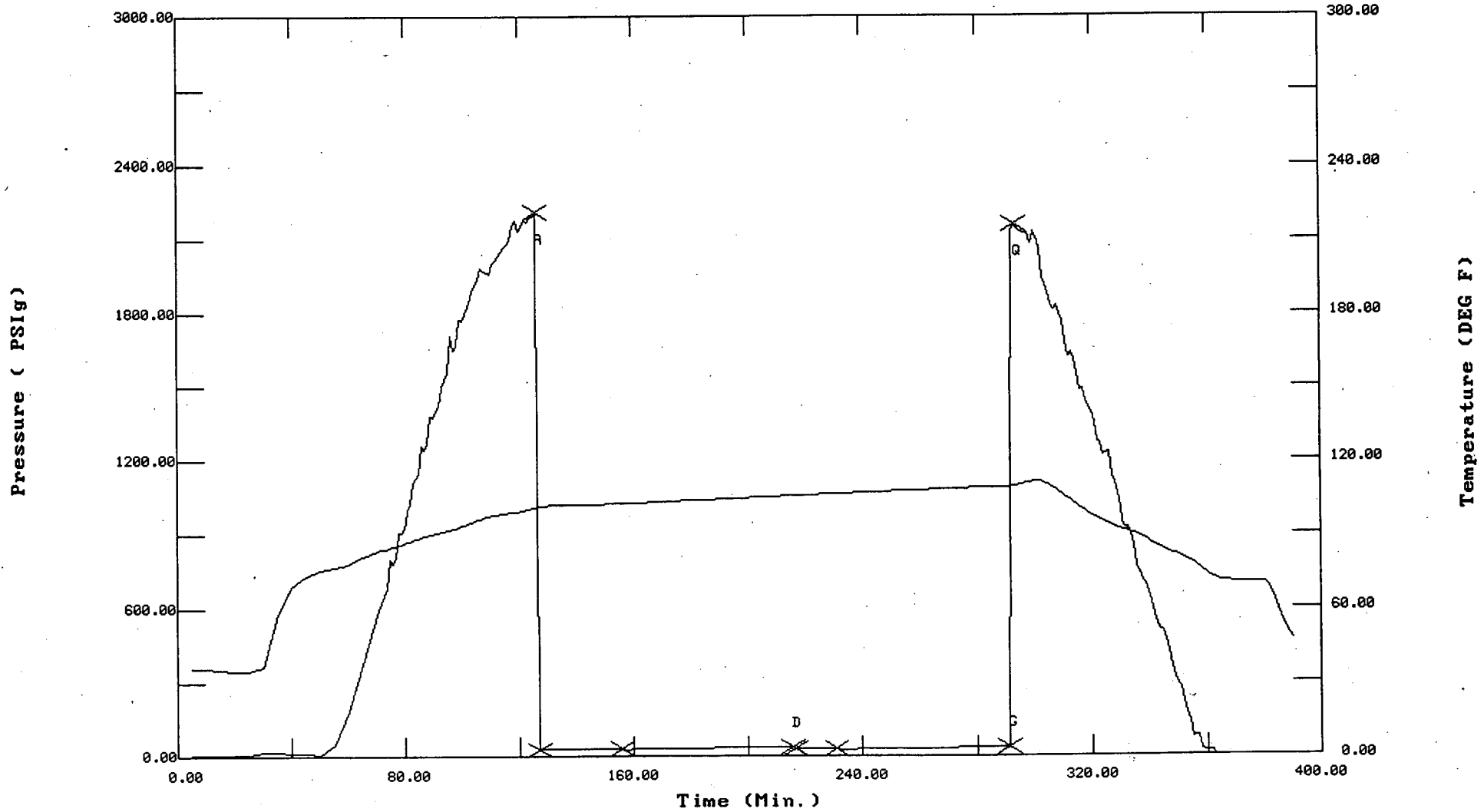
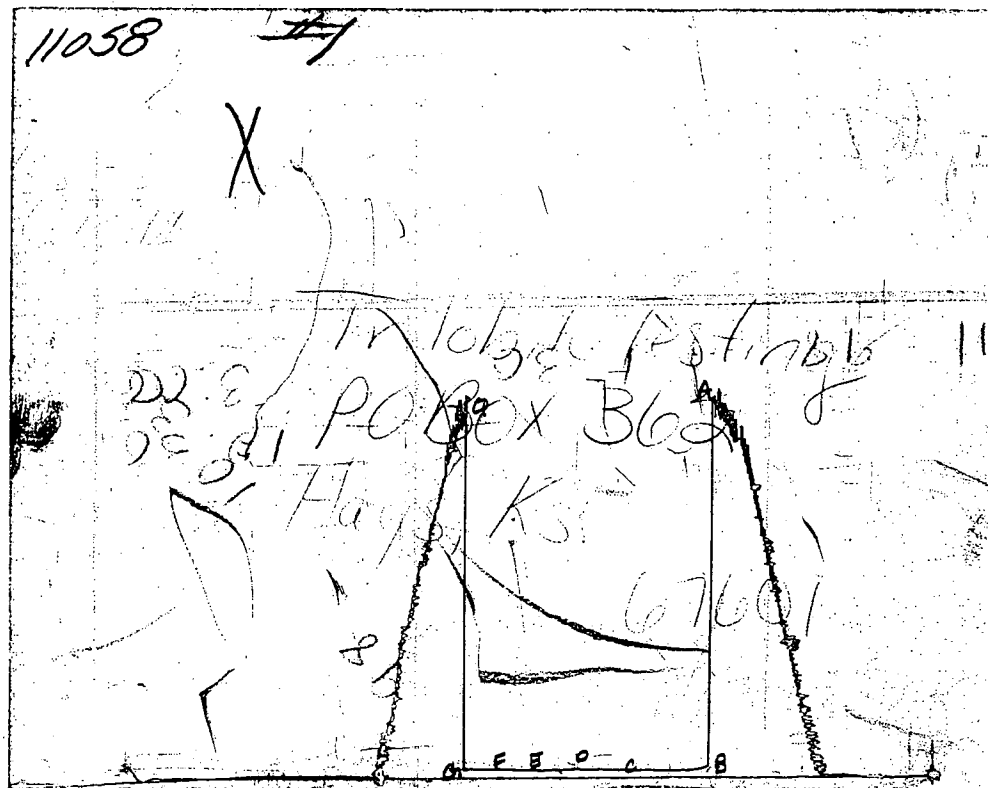


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11218 DST #1 OBrien Energy
 DATE: 03/10/98 TIME: 11:46:05

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
***** Initial Hydro.	126.00	2212.5	0.0	100.95		
***** Start Flow 1	0.00	24.6	0.0	101.16		
	1.00	24.8	0.2	101.34		
	2.00	25.0	0.4	101.46		
	3.00	25.1	0.5	101.54		
	4.00	25.1	0.5	101.61		
	5.00	25.2	0.6	101.66		
	6.00	25.2	0.6	101.70		
	7.00	25.2	0.6	101.72		
	8.00	25.3	0.7	101.75		
	9.00	25.2	0.6	101.78		
	10.00	25.2	0.6	101.80		
	11.00	25.2	0.6	101.83		
	12.00	25.3	0.7	101.85		
	13.00	25.3	0.7	101.87		
	14.00	25.3	0.7	101.90		
	15.00	25.3	0.7	101.92		
	16.00	25.4	0.8	101.96		
	17.00	25.3	0.7	101.99		
	18.00	25.4	0.8	102.00		
	19.00	25.4	0.8	102.03		
	20.00	25.5	0.9	102.07		
	21.00	25.4	0.8	102.10		
	22.00	25.5	0.9	102.14		
	23.00	25.4	0.8	102.17		
	24.00	25.5	0.9	102.20		
	25.00	25.5	0.9	102.25		
	26.00	25.5	0.9	102.28		
	27.00	25.5	0.9	102.32		
	28.00	25.4	0.8	102.35		
***** End Flow 1	29.00	25.4	0.8	102.40		
***** Start Shutin 1	0.00	25.4	0.0	102.40	0.0000	0.001
	1.00	24.2	-1.2	102.44	30.0000	0.001
	2.00	24.4	-1	102.48	15.5000	0.001
	3.00	24.6	-0.8	102.52	10.6667	0.001
	4.00	24.8	-0.6	102.56	8.2500	0.001
	5.00	25.1	-0.3	102.61	6.8000	0.001
	6.00	25.3	-0.1	102.65	5.8333	0.001
	7.00	25.5	0.1	102.70	5.1429	0.001
	8.00	25.8	0.4	102.74	4.6250	0.001
	9.00	25.9	0.5	102.79	4.2222	0.001
	10.00	26.1	0.7	102.83	3.9000	0.001
	11.00	26.4	1	102.88	3.6364	0.001
	12.00	26.5	1.1	102.93	3.4167	0.001
	13.00	26.7	1.3	102.97	3.2308	0.001
	14.00	26.9	1.5	103.02	3.0714	0.001
	15.00	27.2	1.8	103.07	2.9333	0.001
	16.00	27.4	2.0	103.11	2.8125	0.001
	17.00	27.6	2.2	103.16	2.7059	0.001
	18.00	27.7	2.3	103.21	2.6111	0.001
	19.00	27.9	2.5	103.26	2.5263	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11218 DST #1 OBrien Energy
 DATE: 03/10/98 TIME: 11:46:05

Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
20.00	28.2	2.8	103.31	2.4500	0.001
21.00	28.4	3.0	103.36	2.3810	0.001
22.00	28.6	3.2	103.41	2.3182	0.001
23.00	28.7	3.3	103.46	2.2609	0.001
24.00	28.9	3.5	103.51	2.2083	0.001
25.00	29.1	3.7	103.56	2.1600	0.001
26.00	29.3	3.9	103.61	2.1154	0.001
27.00	29.6	4.2	103.66	2.0741	0.001
28.00	29.7	4.3	103.71	2.0357	0.001
29.00	30.0	4.6	103.76	2.0000	0.001
30.00	30.2	4.8	103.82	1.9667	0.001
31.00	30.4	5.0	103.88	1.9355	0.001
32.00	30.6	5.2	103.90	1.9062	0.001
33.00	30.8	5.4	103.96	1.8788	0.001
34.00	31.1	5.7	104.01	1.8529	0.001
35.00	31.2	5.8	104.07	1.8286	0.001
36.00	31.4	6.0	104.12	1.8056	0.001
37.00	31.6	6.2	104.17	1.7838	0.001
38.00	31.8	6.4	104.22	1.7632	0.001
39.00	32.0	6.6	104.28	1.7436	0.001
40.00	32.2	6.8	104.33	1.7250	0.001
41.00	32.4	7.0	104.38	1.7073	0.001
42.00	32.7	7.3	104.42	1.6905	0.001
43.00	32.8	7.4	104.48	1.6744	0.001
44.00	33.0	7.6	104.53	1.6591	0.001
45.00	33.2	7.8	104.59	1.6444	0.001
46.00	33.3	7.9	104.63	1.6304	0.001
47.00	33.5	8.1	104.69	1.6170	0.001
48.00	33.7	8.4	104.74	1.6042	0.001
49.00	34.0	8.6	104.80	1.5918	0.001
50.00	34.3	8.9	104.84	1.5800	0.001
51.00	34.4	9.0	104.89	1.5686	0.001
52.00	34.7	9.3	104.94	1.5577	0.001
53.00	34.9	9.5	104.99	1.5472	0.001
54.00	35.0	9.6	105.05	1.5370	0.001
55.00	35.2	9.8	105.10	1.5273	0.001
56.00	35.4	10.0	105.15	1.5179	0.001
57.00	35.7	10.3	105.20	1.5088	0.001
58.00	35.9	10.5	105.25	1.5000	0.001
59.00	36.0	10.6	105.30	1.4915	0.001
60.00	36.3	10.9	105.35	1.4833	0.001
***** End Shut-in 1					
***** Start Flow 2					
0.00	24.7	0.0	105.40		
1.00	25.4	0.6	105.46		
2.00	25.3	0.6	105.50		
3.00	25.2	0.5	105.54		
4.00	25.3	0.6	105.59		
5.00	25.3	0.6	105.64		
6.00	25.2	0.5	105.69		
7.00	25.4	0.7	105.74		
8.00	25.4	0.6	105.79		
9.00	25.3	0.6	105.85		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11218 DST #1 OBrien Energy
 DATE: 03/10/98 TIME: 11:46:05

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
	10.00	25.4	0.7	105.89		
	11.00	25.3	0.6	105.94		
	12.00	25.3	0.6	105.99		
	13.00	25.3	0.6	106.04		
***** End Flow 2	14.00	25.4	0.6	106.09		
***** Start Shutin 2	0.00	25.4	0.0	106.09	0.0000	0.001
	1.00	23.4	-2.0	106.14	44.0000	0.001
	2.00	23.7	-1.7	106.18	22.5000	0.001
	3.00	23.8	-1.5	106.23	15.3333	0.001
	4.00	24.1	-1.3	106.28	11.7500	0.001
	5.00	24.4	-1.0	106.33	9.6000	0.001
	6.00	24.4	-1	106.38	8.1667	0.001
	7.00	24.6	-0.7	106.43	7.1429	0.001
	8.00	24.7	-0.6	106.47	6.3750	0.001
	9.00	24.9	-0.4	106.51	5.7778	0.001
	10.00	25.0	-0.3	106.57	5.3000	0.001
	11.00	25.2	-0.2	106.61	4.9091	0.001
	12.00	25.4	0.1	106.66	4.5833	0.001
	13.00	25.6	0.2	106.70	4.3077	0.001
	14.00	25.7	0.3	106.76	4.0714	0.001
	15.00	25.9	0.6	106.81	3.8667	0.001
	16.00	26.1	0.8	106.85	3.6875	0.001
	17.00	26.2	0.9	106.90	3.5294	0.001
	18.00	26.4	1.0	106.94	3.3889	0.001
	19.00	26.6	1.3	106.99	3.2632	0.001
	20.00	26.8	1.5	107.03	3.1500	0.001
	21.00	26.9	1.6	107.08	3.0476	0.001
	22.00	27.1	1.8	107.13	2.9545	0.001
	23.00	27.3	1.9	107.18	2.8696	0.001
	24.00	27.5	2.1	107.22	2.7917	0.001
	25.00	27.6	2.2	107.27	2.7200	0.001
	26.00	27.7	2.4	107.30	2.6538	0.001
	27.00	28.1	2.7	107.35	2.5926	0.001
	28.00	28.1	2.7	107.39	2.5357	0.001
	29.00	28.2	2.9	107.44	2.4828	0.001
	30.00	28.5	3.1	107.48	2.4333	0.001
	31.00	28.7	3.3	107.52	2.3871	0.001
	32.00	28.7	3.4	107.57	2.3438	0.001
	33.00	28.9	3.6	107.62	2.3030	0.001
	34.00	29.1	3.7	107.65	2.2647	0.001
	35.00	29.2	3.9	107.70	2.2286	0.001
	36.00	29.4	4.0	107.75	2.1944	0.001
	37.00	29.6	4.2	107.80	2.1622	0.001
	38.00	29.7	4.3	107.84	2.1316	0.001
	39.00	29.9	4.6	107.88	2.1026	0.001
	40.00	30.1	4.8	107.92	2.0750	0.001
	41.00	30.3	5.0	107.96	2.0488	0.001
	42.00	30.5	5.1	108.01	2.0238	0.001
	43.00	30.7	5.3	108.05	2.0000	0.001
	44.00	30.8	5.4	108.09	1.9773	0.001
	45.00	31.0	5.7	108.13	1.9556	0.001

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11218

Well Name & No. <u>Schubert</u>	Test No. <u>1</u>	Date <u>3-10-98</u>
Company <u>O'Brien Energy Corp.</u>	Zone Tested <u>M:SS</u>	
Address <u>P.O. Box 1389, Great Bend, KS 67530</u>	Elevation <u>2265'</u> KB <u>2260'</u> GL	
Co. Rep / Geo. <u>Denny Furst</u>	Cont. <u>D:5 #2</u>	Est. Ft. of Pay <u> </u> Por. <u> </u> %
Location: Sec. <u>26</u> Twp. <u>19</u> Rge. <u>22</u> Co. <u>NeSS</u> State <u>KS</u>		
No. of Copies <u>None</u> Distribution Sheet (Y, N) <u> </u>	Turnkey (Y, N) <u>N</u>	Evaluation (Y, N) <u> </u>

Interval Tested 4364' 4380' Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000
Anchor Length 16' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 53,000
Top Packer Depth 4359' Tool Weight 4,000
Bottom Packer Depth 4364' Hole Size — 7 7/8" Rubber Size — 6 3/4"
Total Depth 4380' Wt. Pipe Run Drill Collar Run 61'
Mud Wt. 9.3 LCM Vis. 51 WL 9.2 Drill Pipe Size 4 1/2 x 14 Ft. Run 4283'
Blow Description Weak 1/2" in blow

I.S.I. No return

F.F.I. No Blow

F.S.I. No return

Recovery — Total Feet	GIP	Ft. in DC	Ft. in DP
Rec. <u>1'</u> Feet Of <u>Drilling Mud</u>	<u> </u>	<u>1'</u>	<u> </u>
Rec. <u> </u> Feet Of <u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u> </u> Feet Of <u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u> </u> Feet Of <u> </u>	<u> </u>	<u> </u>	<u> </u>
Rec. <u> </u> Feet Of <u> </u>	<u> </u>	<u> </u>	<u> </u>

BHT 110° °F Gravity °API D@ °F Corrected Gravity °API

RW @ °F Chlorides ppm Recovery Chlorides 5,200 ppm System

(A) Initial Hydrostatic Mud	<u>2222</u>	<u>2212</u>	PSI Recorder No. <u>2342</u>	T-Started <u>13:00 P.M.</u>
(B) First Initial Flow Pressure	<u>66</u>	<u>24</u>	PSI (depth) <u>4366'</u>	T-Open <u>15:05 P.M.</u>
(C) First Final Flow Pressure	<u>44</u>	<u>25</u>	PSI Recorder No. <u>11058</u>	T-Pulled <u>17:50 P.M.</u>
(D) Initial Shut-in Pressure	<u>55</u>	<u>36</u>	PSI (depth) <u>4377'</u>	T-Out <u>19:50 P.M.</u>
(E) Second Initial Flow Pressure	<u>44</u>	<u>24</u>	PSI Recorder No. <u> </u>	
(F) Second Final Flow Pressure	<u>44</u>	<u>25</u>	PSI (depth) <u> </u>	
(G) Final Shut-in Pressure	<u>55</u>	<u>33</u>	PSI Initial Opening <u>30</u>	Test x <u>700</u>
(H) Final Hydrostatic Mud	<u>2210</u>	<u>2159</u>	PSI Initial Shut-in <u>60</u>	Jars x <u>200</u>

Final Flow 15 Safety Joint x 50

Final Shut-in 60 Straddle

 Circ. Sub x N/C

 Sampler

 Extra Packer

 Elect. Rec. Y 150

 Other

TOTAL PRICE \$ 1100

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 Denny Furst

Our Representative

TRILOBITE TESTING L.L.C.

OPERATOR : O Brien Energy Corp.

DATE 3-11-98

WELL NAME: Schaben #1

KB 2265.00 ft

TICKET NO: 11219

DST #2

LOCATION : 26-19S-22W CO Ness KS

GR 2260.00 ft

FORMATION: miss.

INTERVAL : 4364.00 To 4400.00 ft

TD 4400.00 ft

TEST TYPE: CONV.

RECORDER DATA

Mins	Field	1	2	3	4	TIME DATA-----
F 30 Rec.	11058	11058	2342			PF Fr. 0835 to 0905 hr
I 60 Range(Psi)	4500.0	4500.0	4995.0	0.0	0.0	IS Fr. 0905 to 1005 hr
SF 15 Clock(hrs)	12	12	alpin			SF Fr. 1005 to 1020 hr
FS 60 Depth(ft)	4397.0	4397.0	4366.0	0.0	0.0	FS Fr. 1020 to 1120 hr

	Field	1	2	3	4	
A. Init Hydro	0.0	0.0	2207.0	0.0	0.0	T STARTED 0600 hr
B. First Flow	0.0	0.0	26.0	0.0	0.0	T ON BOTM 0832 hr
1. Final Flow	0.0	0.0	28.0	0.0	0.0	T OPEN 0835 hr
C. In Shut-in	0.0	0.0	79.0	0.0	0.0	T PULLED 1120 hr
D. Init Flow	0.0	0.0	28.0	0.0	0.0	T OUT 1325 hr
E. Final Flow	0.0	0.0	29.0	0.0	0.0	
F. Fl Shut-in	0.0	0.0	57.0	0.0	0.0	
G. Final Hydro	0.0	0.0	2138.0	0.0	0.0	
Inside/Outside	i		o			

TOOL DATA-----

Tool Wt.	4000.00 lbs
Wt Set On Packer	26000.00 lbs
Wt Pulled Loose	53000.00 lbs
Initial Str Wt	45000.00 lbs
Unseated Str Wt	45000.00 lbs
Bot Choke	0.75 in
Hole Size	7.88 in
D Col. ID	2.25 in
D. Pipe ID	3.50 in
D.C. Length	61.00 ft
D.P. Length	4283.00 ft

RECOVERY

Tot Fluid	2.00 ft of	2.00 ft in DC and	0.00 ft in DP
2.00	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 5200.00 P.P.M. A.P.I. Gravity 0.00

BLOW DESCRIPTION

Initial Flow:
Weak 1/4" blow died in 19 mins.
Initial Shut-in:
No return
Final Flow:
No blow
Final Shut-in:
No blow

SAMPLES:

SENT TO:

MUD DATA-----

Mud Type	chem
Weight	9.40 lb/cf
Vis.	45.00 S/L
W.L.	9.30 in3
F.C.	0.00 in
Mud Drop N	
Amt. of fill	0.00 ft
Btm. H. Temp.	106.00 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	Shane McBride
Co. Rep.	Denny Furst
Contr.	Discovery
Rig #	2
Unit #	
Pump T.	

Test Successful: Y

*** TOOL DIAGRAM *** CONV.

WELL NAME: Schaben #1
 LOCATION : 26-19S-22W CO Ness KS
 TICKET No. 11219 D.S.T. No. 2 DATE 3-11-98
 TOTAL TOOL TO BOTTOM OF TOP PACKERS 27
 INTERVAL TOOL
 BOTTOM PACKERS AND ANCHOR 36
 TOTAL TOOL 63
 DRILL COLLAR ANCHOR IN INTERVAL
 D.C. ANCHOR STND.Stands Single Total
 D.P. ANCHOR STND.Stands Single Total
 TOTAL ASSEMBLY 63
 D.C. ABOVE TOOLS.Stands1 Single Total 61
 D.P. ABOVE TOOLS.Stands70 Single 1 Total 4283
 TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4407
 TOTAL DEPTH 4400
 TOTAL DRILL PIPE ABOVE K.B. 7
 REMARKS:

P.O. SUB	4336
C.O. SUB 1'	
S.I. TOOL 5'	4342
HMV 5'	4347
JARS 5'	4352
SAFETY JOINT 2'	4354
PACKER top	4359
PACKER bottom	4364
DEPTH 4364	
STUBB 1'	4365
ANCHOR 1' perf	4366
alpine recorder	4366
29' perf	4395
ak-1 recorder	4397
T.C.	
DEPTH	
BULLNOSE 5' bullplug	4400
T.D.	4400

TEST HISTORY

11218 DST #1 OBrien Energy

Flag Points
t(Min.) P(PSig)

A:	0.00	2212.51
B:	0.00	24.60
C:	29.00	25.40
D:	60.00	36.29
E:	0.00	24.72
F:	14.00	25.36
G:	60.00	33.59
Q:	0.00	2159.50

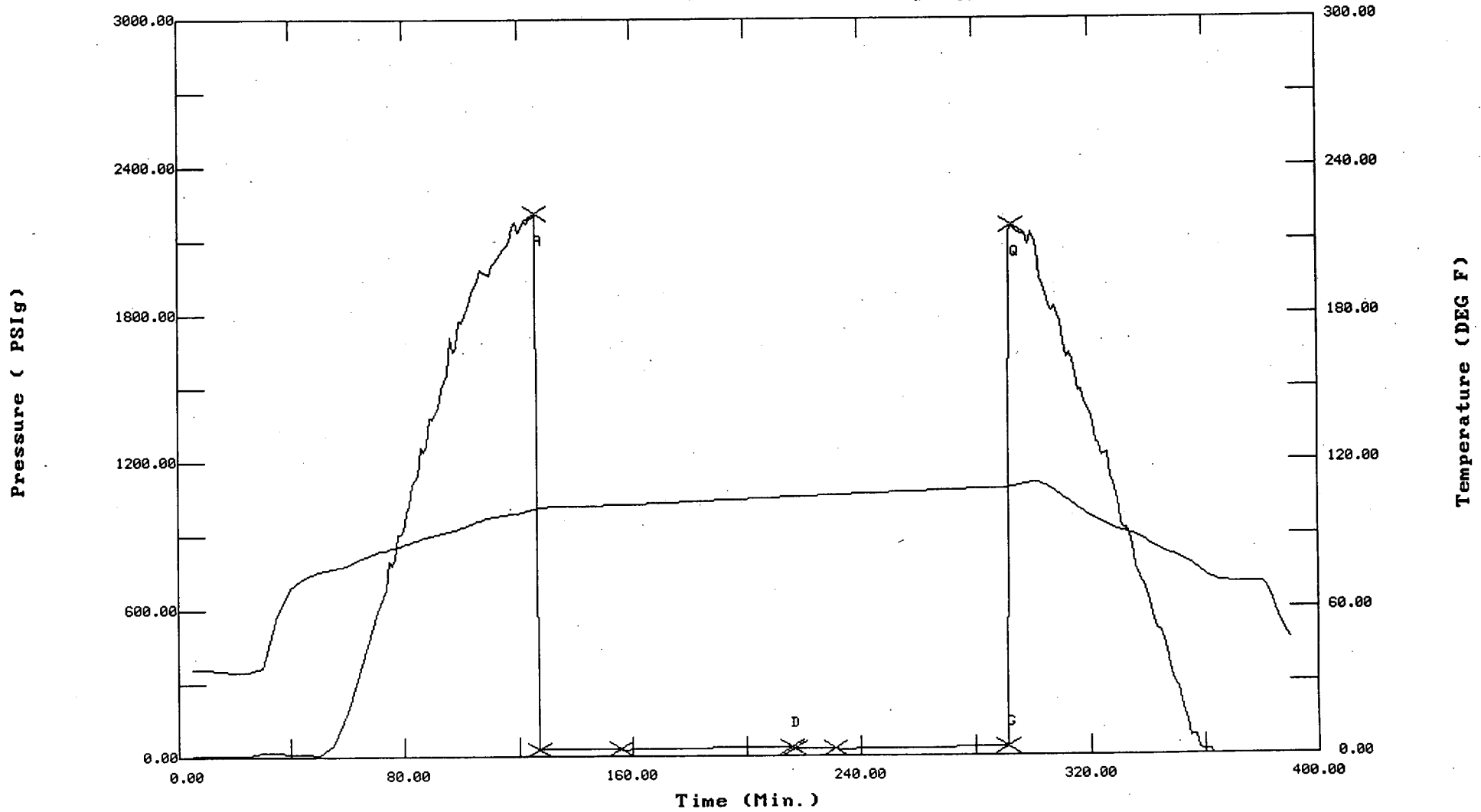
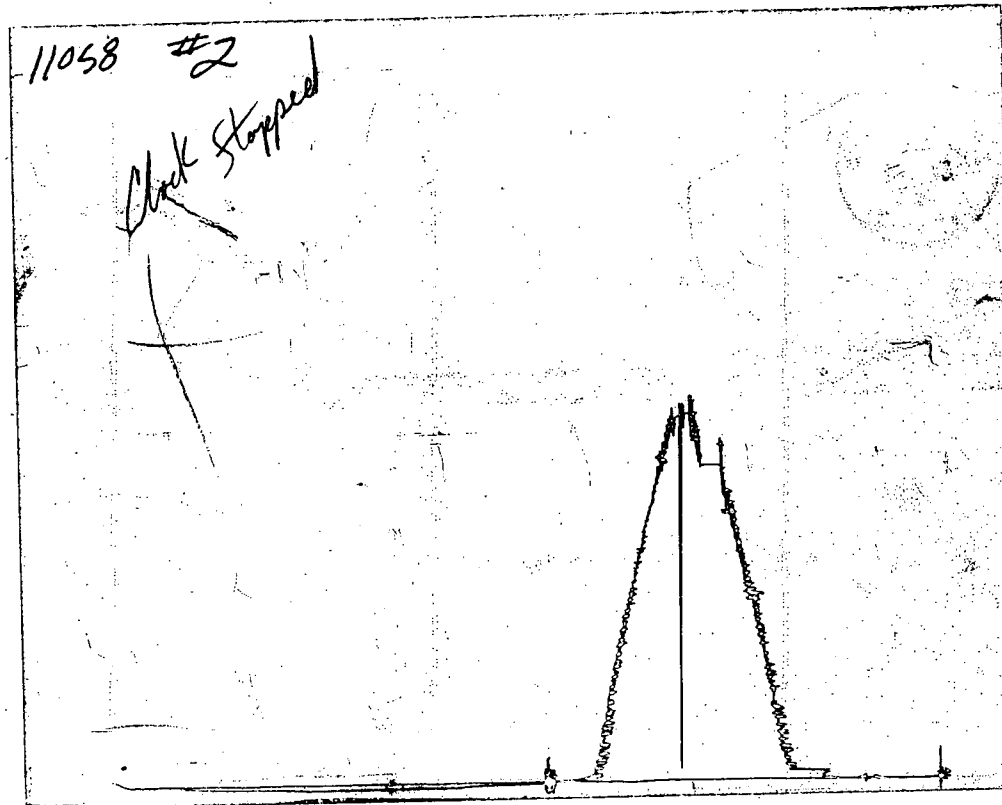


CHART PAGE



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

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11218 DST #1 OBrien Energy
 DATE: 03/10/98 TIME: 11:46:05

	Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P^2/10^6
***** Initial Hydro.	126.00	2212.5	0.0	100.95		
***** Start Flow 1	0.00	24.6	0.0	101.16		
	1.00	24.8	0.2	101.34		
	2.00	25.0	0.4	101.46		
	3.00	25.1	0.5	101.54		
	4.00	25.1	0.5	101.61		
	5.00	25.2	0.6	101.66		
	6.00	25.2	0.6	101.70		
	7.00	25.2	0.6	101.72		
	8.00	25.3	0.7	101.75		
	9.00	25.2	0.6	101.78		
	10.00	25.2	0.6	101.80		
	11.00	25.2	0.6	101.83		
	12.00	25.3	0.7	101.85		
	13.00	25.3	0.7	101.87		
	14.00	25.3	0.7	101.90		
	15.00	25.3	0.7	101.92		
	16.00	25.4	0.8	101.96		
	17.00	25.3	0.7	101.99		
	18.00	25.4	0.8	102.00		
	19.00	25.4	0.8	102.03		
	20.00	25.5	0.9	102.07		
	21.00	25.4	0.8	102.10		
	22.00	25.5	0.9	102.14		
	23.00	25.4	0.8	102.17		
	24.00	25.5	0.9	102.20		
	25.00	25.5	0.9	102.25		
	26.00	25.5	0.9	102.28		
	27.00	25.5	0.9	102.32		
	28.00	25.4	0.8	102.35		
***** End Flow 1	29.00	25.4	0.8	102.40		
***** Start Shutin 1	0.00	25.4	0.0	102.40	0.0000	0.001
	1.00	24.2	-1.2	102.44	30.0000	0.001
	2.00	24.4	-1	102.48	15.5000	0.001
	3.00	24.6	-0.8	102.52	10.6667	0.001
	4.00	24.8	-0.6	102.56	8.2500	0.001
	5.00	25.1	-0.3	102.61	6.8000	0.001
	6.00	25.3	-0.1	102.65	5.8333	0.001
	7.00	25.5	0.1	102.70	5.1429	0.001
	8.00	25.8	0.4	102.74	4.6250	0.001
	9.00	25.9	0.5	102.79	4.2222	0.001
	10.00	26.1	0.7	102.83	3.9000	0.001
	11.00	26.4	1	102.88	3.6364	0.001
	12.00	26.5	1.1	102.93	3.4167	0.001
	13.00	26.7	1.3	102.97	3.2308	0.001
	14.00	26.9	1.5	103.02	3.0714	0.001
	15.00	27.2	1.8	103.07	2.9333	0.001
	16.00	27.4	2.0	103.11	2.8125	0.001
	17.00	27.6	2.2	103.16	2.7059	0.001
	18.00	27.7	2.3	103.21	2.6111	0.001
	19.00	27.9	2.5	103.26	2.5263	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11218 DST #1 OBrien Energy
 DATE: 03/10/98 TIME: 11:46:05

Time	Pressure PSig	delta P PSig	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
20.00	28.2	2.8	103.31	2.4500	0.001
21.00	28.4	3.0	103.36	2.3810	0.001
22.00	28.6	3.2	103.41	2.3182	0.001
23.00	28.7	3.3	103.46	2.2609	0.001
24.00	28.9	3.5	103.51	2.2083	0.001
25.00	29.1	3.7	103.56	2.1600	0.001
26.00	29.3	3.9	103.61	2.1154	0.001
27.00	29.6	4.2	103.66	2.0741	0.001
28.00	29.7	4.3	103.71	2.0357	0.001
29.00	30.0	4.6	103.76	2.0000	0.001
30.00	30.2	4.8	103.82	1.9667	0.001
31.00	30.4	5.0	103.88	1.9355	0.001
32.00	30.6	5.2	103.90	1.9062	0.001
33.00	30.8	5.4	103.96	1.8788	0.001
34.00	31.1	5.7	104.01	1.8529	0.001
35.00	31.2	5.8	104.07	1.8286	0.001
36.00	31.4	6.0	104.12	1.8056	0.001
37.00	31.6	6.2	104.17	1.7838	0.001
38.00	31.8	6.4	104.22	1.7632	0.001
39.00	32.0	6.6	104.28	1.7436	0.001
40.00	32.2	6.8	104.33	1.7250	0.001
41.00	32.4	7.0	104.38	1.7073	0.001
42.00	32.7	7.3	104.42	1.6905	0.001
43.00	32.8	7.4	104.48	1.6744	0.001
44.00	33.0	7.6	104.53	1.6591	0.001
45.00	33.2	7.8	104.59	1.6444	0.001
46.00	33.3	7.9	104.63	1.6304	0.001
47.00	33.5	8.1	104.69	1.6170	0.001
48.00	33.7	8.4	104.74	1.6042	0.001
49.00	34.0	8.6	104.80	1.5918	0.001
50.00	34.3	8.9	104.84	1.5800	0.001
51.00	34.4	9.0	104.89	1.5686	0.001
52.00	34.7	9.3	104.94	1.5577	0.001
53.00	34.9	9.5	104.99	1.5472	0.001
54.00	35.0	9.6	105.05	1.5370	0.001
55.00	35.2	9.8	105.10	1.5273	0.001
56.00	35.4	10.0	105.15	1.5179	0.001
57.00	35.7	10.3	105.20	1.5088	0.001
58.00	35.9	10.5	105.25	1.5000	0.001
59.00	36.0	10.6	105.30	1.4915	0.001
60.00	36.3	10.9	105.35	1.4833	0.001
***** End Shut-in 1					
***** Start Flow 2					
0.00	24.7	0.0	105.40		
1.00	25.4	0.6	105.46		
2.00	25.3	0.6	105.50		
3.00	25.2	0.5	105.54		
4.00	25.3	0.6	105.59		
5.00	25.3	0.6	105.64		
6.00	25.2	0.5	105.69		
7.00	25.4	0.7	105.74		
8.00	25.4	0.6	105.79		
9.00	25.3	0.6	105.85		

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11218 DST #1 OBrien Energy
 DATE: 03/10/98 TIME: 11:46:05

	Time	Pressure PSI _g	delta P PSI _g	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	10.00	25.4	0.7	105.89		
	11.00	25.3	0.6	105.94		
	12.00	25.3	0.6	105.99		
	13.00	25.3	0.6	106.04		
***** End Flow 2	14.00	25.4	0.6	106.09		
***** Start Shutin 2	0.00	25.4	0.0	106.09	0.0000	0.001
	1.00	23.4	-2.0	106.14	44.0000	0.001
	2.00	23.7	-1.7	106.18	22.5000	0.001
	3.00	23.8	-1.5	106.23	15.3333	0.001
	4.00	24.1	-1.3	106.28	11.7500	0.001
	5.00	24.4	-1.0	106.33	9.6000	0.001
	6.00	24.4	-1	106.38	8.1667	0.001
	7.00	24.6	-0.7	106.43	7.1429	0.001
	8.00	24.7	-0.6	106.47	6.3750	0.001
	9.00	24.9	-0.4	106.51	5.7778	0.001
	10.00	25.0	-0.3	106.57	5.3000	0.001
	11.00	25.2	-0.2	106.61	4.9091	0.001
	12.00	25.4	0.1	106.66	4.5833	0.001
	13.00	25.6	0.2	106.70	4.3077	0.001
	14.00	25.7	0.3	106.76	4.0714	0.001
	15.00	25.9	0.6	106.81	3.8667	0.001
	16.00	26.1	0.8	106.85	3.6875	0.001
	17.00	26.2	0.9	106.90	3.5294	0.001
	18.00	26.4	1.0	106.94	3.3889	0.001
	19.00	26.6	1.3	106.99	3.2632	0.001
	20.00	26.8	1.5	107.03	3.1500	0.001
	21.00	26.9	1.6	107.08	3.0476	0.001
	22.00	27.1	1.8	107.13	2.9545	0.001
	23.00	27.3	1.9	107.18	2.8696	0.001
	24.00	27.5	2.1	107.22	2.7917	0.001
	25.00	27.6	2.2	107.27	2.7200	0.001
	26.00	27.7	2.4	107.30	2.6538	0.001
	27.00	28.1	2.7	107.35	2.5926	0.001
	28.00	28.1	2.7	107.39	2.5357	0.001
	29.00	28.2	2.9	107.44	2.4828	0.001
	30.00	28.5	3.1	107.48	2.4333	0.001
	31.00	28.7	3.3	107.52	2.3871	0.001
	32.00	28.7	3.4	107.57	2.3438	0.001
	33.00	28.9	3.6	107.62	2.3030	0.001
	34.00	29.1	3.7	107.65	2.2647	0.001
	35.00	29.2	3.9	107.70	2.2286	0.001
	36.00	29.4	4.0	107.75	2.1944	0.001
	37.00	29.6	4.2	107.80	2.1622	0.001
	38.00	29.7	4.3	107.84	2.1316	0.001
	39.00	29.9	4.6	107.88	2.1026	0.001
	40.00	30.1	4.8	107.92	2.0750	0.001
	41.00	30.3	5.0	107.96	2.0488	0.001
	42.00	30.5	5.1	108.01	2.0238	0.001
	43.00	30.7	5.3	108.05	2.0000	0.001
	44.00	30.8	5.4	108.09	1.9773	0.001
	45.00	31.0	5.7	108.13	1.9556	0.001

ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11218 DST #1 OBrien Energy
 DATE: 03/10/98 TIME: 11:46:05

	Time	Pressure PSIg	delta P PSIg	Temp. DEG F	(T+dT)/dT	P ² /10 ⁶
	46.00	31.1	5.7	108.17	1.9348	0.001
	47.00	31.3	5.9	108.22	1.9149	0.001
	48.00	31.4	6.1	108.26	1.8958	0.001
	49.00	31.6	6.2	108.31	1.8776	0.001
	50.00	31.8	6.4	108.35	1.8600	0.001
	51.00	31.9	6.6	108.39	1.8431	0.001
	52.00	32.1	6.8	108.43	1.8269	0.001
	53.00	32.4	7.0	108.47	1.8113	0.001
	54.00	32.5	7.1	108.51	1.7963	0.001
	55.00	32.7	7.4	108.55	1.7818	0.001
	56.00	32.8	7.5	108.59	1.7679	0.001
	57.00	33.0	7.7	108.64	1.7544	0.001
	58.00	33.2	7.9	108.67	1.7414	0.001
	59.00	33.4	8.0	108.72	1.7288	0.001
***** End Shut-in 2	60.00	33.6	8.2	108.74	1.7167	0.001
***** Final Hydro.	293.00	2159.5	0.0	108.93		

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 11219

Well Name & No. Schubien #1 Test No. 2 Date 3-11-98
 Company O'Brien Energy Zone Tested MISS
 Address P.O. Box 1389 Great Bend KS 67530 Elevation 2265 KB 2260 GL
 Co. Rep / Geo. Denny Furst Cont. D.S. #2 Est. Ft. of Pay Por. %
 Location: Sec. 26 Twp. 19 Rge. 22 Co. Ness State KS
 No. of Copies Norm Distribution Sheet (Y, N) X Turnkey (Y, N) X Evaluation (Y, N)

Interval Tested 4364' 4400' Initial Str Wt./Lbs. 45,000 Unseated Str Wt./Lbs. 45,000
 Anchor Length 36' Wt. Set Lbs. 26,000 Wt. Pulled Loose/Lbs. 53,000
 Top Packer Depth 4359' Tool Weight 4,000
 Bottom Packer Depth 4364' Hole Size — 7 7/8" ✓ Rubber Size — 6 3/4" ✓
 Total Depth 4400' Wt. Pipe Run Drill Collar Run 61
 Mud Wt. 9.4 LCM Vis. 45 WL 9.3 Drill Pipe Size 4 1/2 X 11 Ft. Run 4283'

Blow Description Weak 1/4" in blow died in 19 mins.
 I.S.F.: No return
 F.F.: No blow
 E.S.F.: No return

Recovery — Total Feet 2' GIP Ft. in DC 2' Ft. in DP
 Rec. 2' Feet Of Drilg Mud %gas %oil %water 100% mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud
 Rec. Feet Of %gas %oil %water %mud

BHT 106° °F Gravity °API D@ °F Corrected Gravity °API
 RW @ °F Chlorides ppm Recovery Chlorides 5,200 ppm System

(A) Initial Hydrostatic Mud	<u>2207</u> PSI	Recorder No. <u>2342</u>	T-Started <u>06:00 am</u>
(B) First Initial Flow Pressure	<u>26</u> PSI	(depth) <u>4366'</u>	T-Open <u>08:35 AM.</u>
(C) First Final Flow Pressure	<u>28</u> PSI	Recorder No. <u>1158</u>	T-Pulled <u>11:20 AM.</u>
(D) Initial Shut-in Pressure	<u>79</u> PSI	(depth) <u>4397'</u>	T-Out <u>13:25 P.M.</u>
(E) Second Initial Flow Pressure	<u>28</u> PSI	Recorder No. <u> </u>	
(F) Second Final Flow Pressure	<u>29</u> PSI	(depth) <u> </u>	
(G) Final Shut-in Pressure	<u>57</u> PSI	Initial Opening <u>30</u>	Test <u>X</u>
(H) Final Hydrostatic Mud	<u>2138</u> PSI	Initial Shut-in <u>60</u>	Jars <u>X</u>

Final Flow 15 Safety Joint X
 Final Shut-in 60 Straddle
 Circ. Sub X N/C
 Sampler
 Extra Packer
 Elect. Rec. X
 Other

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 Denny Furst
 Our Representative Shirley B. A.

TOTAL PRICE \$