



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1080161  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

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

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

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

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

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

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

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ 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

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

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

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1080161

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

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

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Blue Ridge Petroleum Corporation
Well Name	ANTENEN 2-12
Doc ID	1080161

All Electric Logs Run

CDN
Micro
DIL
Sonic

Form	ACO1 - Well Completion
Operator	Blue Ridge Petroleum Corporation
Well Name	ANTENEN 2-12
Doc ID	1080161

Tops

Name	Top	Datum
Anhydrite	1777	+733
Heebner	3808	-1298
Toronto	3827	-1317
Lansing	3850	-1340
BKC	4195	-1687
Marmaton	4219	-1709
Pawnee	4304	-1794
Ft. Scott	4365	-1855
Cherokee Shale	4390	-1880
Mississippi	4468	-1958
Mississippi Dolomite	4474	-1964

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Ward Loyd, Commissioner  
Thomas E. Wright, Commissioner

Sam Brownback, Governor

May 03, 2012

Jonathan Allen  
Blue Ridge Petroleum Corporation  
PO BOX 1913  
ENID, OK 73702-1913

Re: ACO1  
API 15-135-25358-00-00  
ANTENEN 2-12  
NE/4 Sec.12-19S-26W  
Ness County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Jonathan Allen

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 462

Date	Sec.	Twp.	Range	County	State	On Location	Finish
7-20-12				Ness	Kansas		12:00am
Lease Antegen	Well No. 2-12		Location Ness City (40) 459E int				
Contractor Southwind Drilling Rig 1				Owner			
Type Job Surface				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size 12 1/4	T.D. 219		Charge To Blue Ridge Refractor				
Csg. 88 23lb	Depth 217		Street				
Tbg. Size	Depth		City				
Tool	Depth		State				
Cement Left in Csg. 10-15'	Shoe Joint		The above was done to satisfaction and supervision of owner agent or contractor.				
Meas Line	Displace 13861		Cement Amount Ordered 150 Cannon				
<b>EQUIPMENT</b>				3011 28lb			
Pumptrk 5	No.	Cementer	Common 150				
		Helper	Steve				
Bulktrk 14	No.	Driver	Poz. Mix				
		Driver	Brot				
Bulktrk	No.	Driver	Gel. 3				
		Driver	Michael				
<b>JOB SERVICES &amp; REMARKS</b>				Calcium 5			
Remarks: Antegen 2-12				Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
Cement dist. Circulate				Sand			
				Handling 158			
				Mileage			
<b>FLOAT EQUIPMENT</b>							
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				SWAB			
				Pumptrk Charge Surface			
				Mileage 18			
Signature <i>[Signature]</i> X Signature <i>[Signature]</i>				Tax			
				Discount			
				Total Charge			

JOB LOG

SWIFT Services, Inc.

DATE: 28 FEB 12 PAGE NO. 1

CUSTOMER: Blue Ridge WELL NO. 2-12 LEASE Antennan JOB TYPE cement long string TICKET NO. 22012

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								175 sk EA-2 w/ 1/2" floccle 104 jts 5 1/2" 14" P.C 1933' * 62 Tambolines 1, 2, 3, 4, 63 Bskat 61, 62 Shoe jt 42'
	1230							on loc TRK 114
	1305							Start 5 1/2" 14" casing in well Drop ball - circulate - ROTATE
	1615	4 3/4	12				200	Pump 500 gal mud flush
		4 3/4	20				200	Pump 20 bbl KCL flush
	1620		7					Plug RH - MH <del>30 sks</del> - <del>20 sks</del>
	1630	4 3/4	36				200	Mix EA-2 <del>125 sks</del> @ 15.3 PPG
	1642							Drop latch down plug wash out pump & line
	1645	6 3/4					200	Displace plug
		6 3/4	92				500	
	1700	6 3/4	110				1500	Land plug
	1705							Release pressure to truck - dried up wash tank Rack up
	1740							job complete Thanks Blaine Dalg, Dave & Isaac

**JOB LOG**

**SWIFT Services, Inc.**

DATE **3-2-12** PAGE NO. **7**

CUSTOMER **BLUERIDGE PETROLEUM** WELL NO. **2-12** LEASE **ANTENJEN** JOB TYPE **CONST PORT COLLAR** TICKET NO. **21987**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1145							ON LOCATION
								TUBING - 2 7/8
								CASING - 5 1/2
								PORT COLLAR - 1833'
	1215				✓		1000	PRE TEST CASING - HEAD
	1220	3	2	✓		300		OPEN PORT COLLAR - INT RATE
	1225	4	97	✓		300		MIX CEMENT 175 SPS SMD
	1230	4	9 1/2	✓		550		DISPLACE CEMENT
	1255			✓		1000		CLOSE PORT COLLAR - PRE TEST HEAD
								CALCULATED 15 SPS CEMENT TO PRT
	1310	4	25		✓		500	RUN 5 JOBS - GRADUATE CLEAN
								WASH TROCK
	1345							JOB COMPLETE
								THANK YOU WAYNE, DAVE, ROB, ISAAC





## DRILL STEM TEST REPORT

Prepared For: **Blueridge Petroleum Coporation**

PO Box 1913  
Enid OK 73704-1913

ATTN: Jim Musgrove

### **Antenen #2-12**

### **12-19s-26w Ness,KS**

Start Date: 2012.02.27 @ 05:00:00

End Date: 2012.02.27 @ 13:27:15

Job Ticket #: 45073                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2012.02.29 @ 14:47:37



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Blueridge Petroleum Corporation

**12-19s-26w Ness, KS**

PO Box 1913  
Enid OK 73704-1913

**Antenen #2-12**

Job Ticket: 45073

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2012.02.27 @ 05:00:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:15

Time Test Ended: 13:27:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

**Interval: 4410.00 ft (KB) To 4480.00 ft (KB) (TVD)**

Reference Elevations: 2508.00 ft (KB)

Total Depth: 4480.00 ft (KB) (TVD)

2498.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8675 Inside**

Press @ Run Depth: 88.43 psig @ 4411.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.27

End Date: 2012.02.27

Last Calib.: 2012.02.27

Start Time: 05:00:01

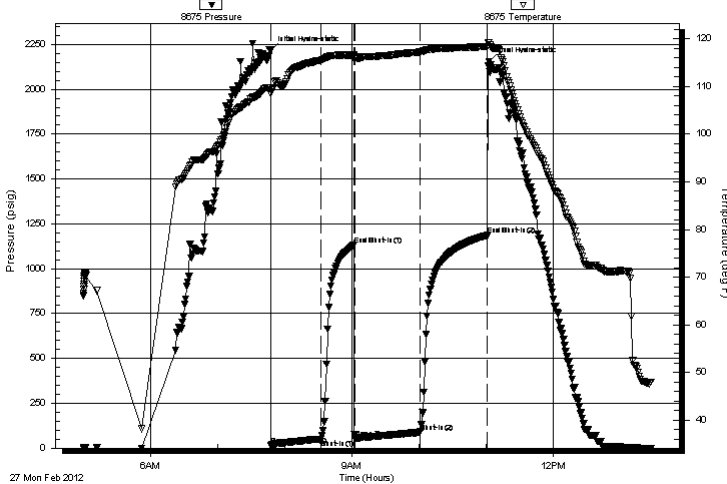
End Time: 13:27:15

Time On Btm: 2012.02.27 @ 07:47:00

Time Off Btm: 2012.02.27 @ 11:02:45

**TEST COMMENT:** Built to 4" blow  
No return blow  
Built to 8 1/2" blow  
No return blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2217.69	109.73	Initial Hydro-static
1	17.17	108.55	Open To Flow (1)
46	51.16	115.48	Shut-In(1)
75	1133.43	116.56	End Shut-In(1)
76	54.22	116.15	Open To Flow (2)
134	88.43	117.23	Shut-In(2)
195	1186.07	118.38	End Shut-In(2)
196	2155.09	119.25	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	77 Feet Gas in pipe	0.00
20.00	100% Free Oil	0.28
213.00	mco 50%M 50%O	2.99

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Blueridge Petroleum Coporation

**12-19s-26w Ness,KS**

PO Box 1913  
Enid OK 73704-1913

**Antenen #2-12**

Job Ticket: 45073

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2012.02.27 @ 05:00:00

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:47:15

Time Test Ended: 13:27:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Jace McKinney

Unit No: 46

Interval: **4410.00 ft (KB) To 4480.00 ft (KB) (TVD)**

Reference Elevations: 2508.00 ft (KB)

Total Depth: 4480.00 ft (KB) (TVD)

2498.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

**Serial #: 8650 Outside**

Press @ RunDepth: psig @ 4411.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.27 End Date: 2012.02.27

Last Calib.: 2012.02.27

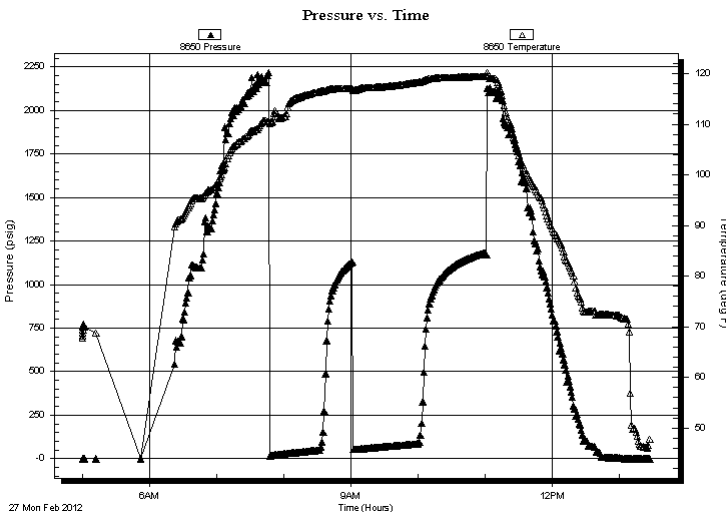
Start Time: 05:00:01 End Time: 13:27:15

Time On Btm:

Time Off Btm:

TEST COMMENT: Built to 4" blow  
No return blow  
Built to 8 1/2" blow  
No return blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	77 Feet Gas in pipe	0.00
20.00	100% Free Oil	0.28
213.00	mco 50%M 50%O	2.99

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Blueridge Petroleum Coporation

**12-19s-26w Ness,KS**

PO Box 1913  
Enid OK 73704-1913

**Antenen #2-12**

Job Ticket: 45073

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2012.02.27 @ 05:00:00

## Tool Information

Drill Pipe:	Length: 4397.01 ft	Diameter: 3.80 inches	Volume: 61.68 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 61.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.01 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	4410.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4391.00	
Shut In Tool	5.00			4396.00	
Hydraulic tool	5.00			4401.00	
Packer	5.00			4406.00	20.00 Bottom Of Top Packer
Packer	4.00			4410.00	
Stubb	1.00			4411.00	
Recorder	0.00	8675	Inside	4411.00	
Recorder	0.00	8650	Outside	4411.00	
Perforations	32.00			4443.00	
Change Over Sub	1.00			4444.00	
Drill Pipe	32.00			4476.00	
Change Over Sub	1.00			4477.00	
Bullnose	3.00			4480.00	70.00 Bottom Packers & Anchor

**Total Tool Length: 90.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Blueridge Petroleum Coporation

**12-19s-26w Ness,KS**

PO Box 1913  
Enid OK 73704-1913

**Antenen #2-12**

Job Ticket: 45073

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2012.02.27 @ 05:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

38 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	77 Feet Gas in pipe	0.000
20.00	100% Free Oil	0.281
213.00	mco 50%M 50%O	2.988

Total Length: 233.00 ft      Total Volume: 3.269 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW: 37 @ 50 F = 38

Serial #: 8675

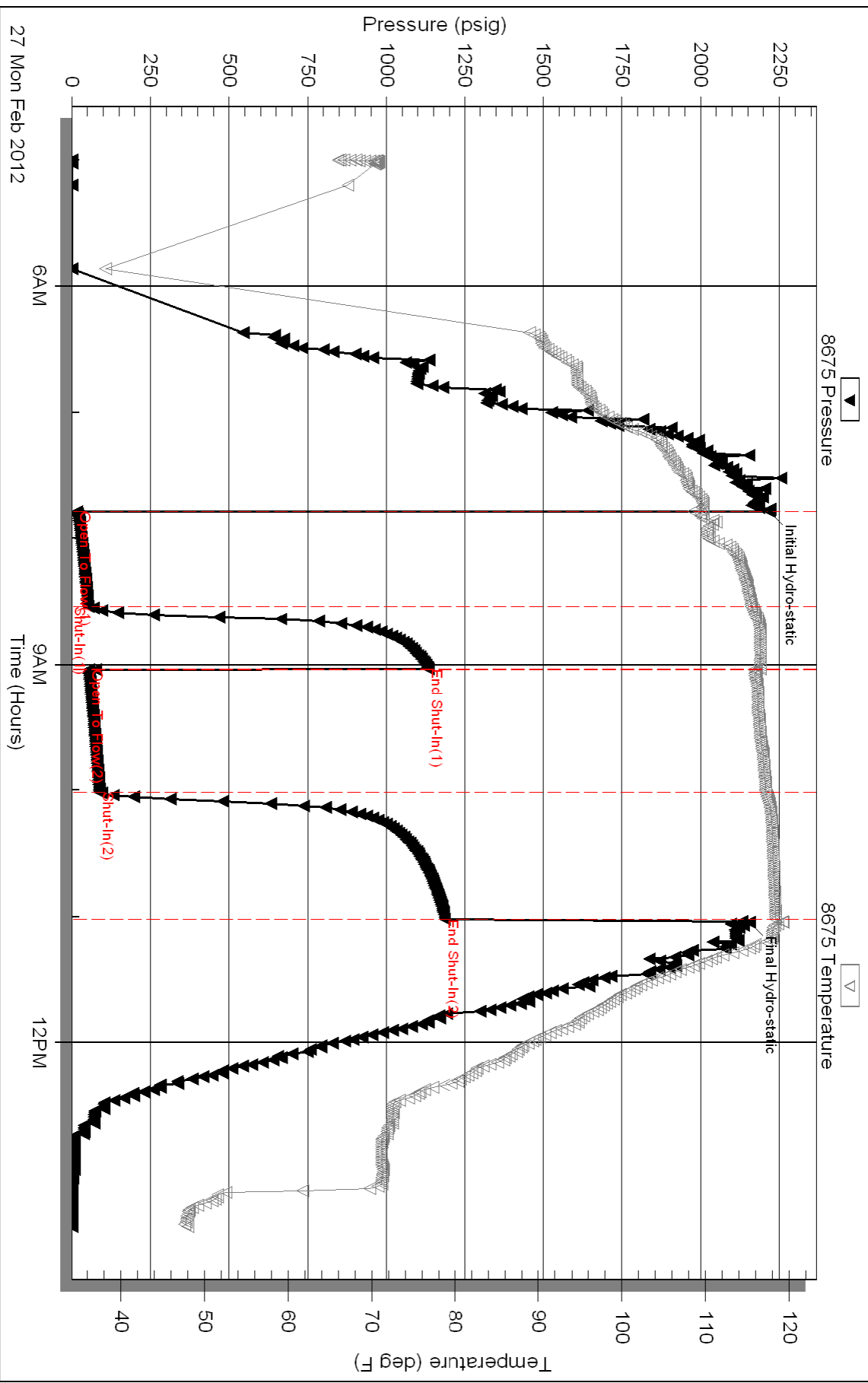
Inside

Blueridge Petroleum Corporation

Anteren #2-12

DST Test Number: 1

### Pressure vs. Time



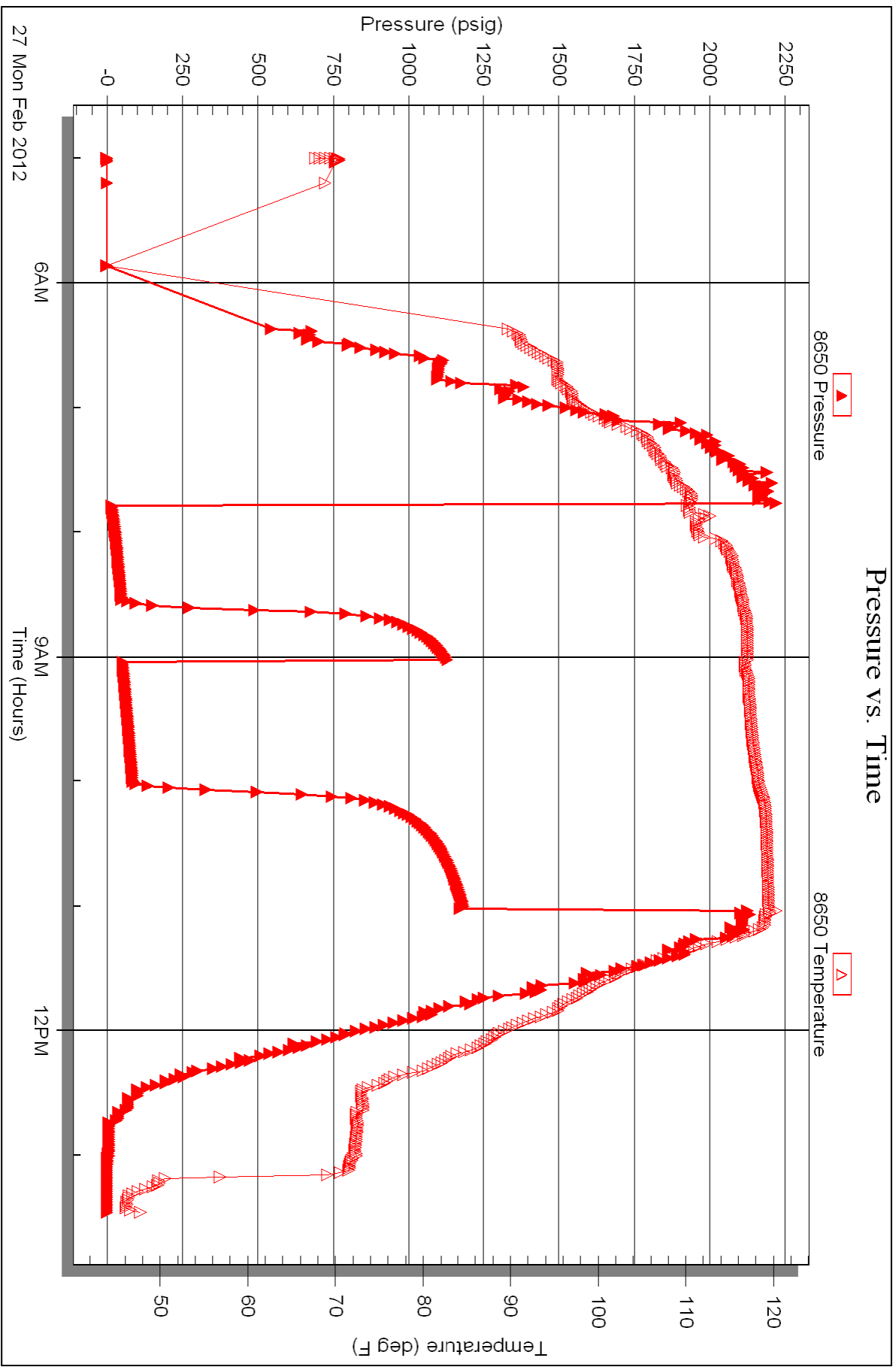
Serial #: 8650

Outside

Blueridge Petroleum Corporation

Anteren #2-12

DST Test Number: 1





# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
FEB 29 2012

## Test Ticket

NO. 45073

4/10

BY: \_\_\_\_\_

Well Name & No. Antenen 2-12 Test No. 2/27/12 Date 2/27/12  
 Company Blue Ridge Petroleum Corporation Elevation 2508 KB 2498 GL  
 Address PO Box 1913 Enid OK 73702 - 1913  
 Co. Rep / Geo. Jim Musgrave Rig Southwind Rig 1  
 Location: Sec. 12 Twp. 19B Rge. 21ew Co. Ness State KS

Interval Tested 4410-4480 Zone Tested Mississippi  
 Anchor Length 70 Drill Pipe Run 4397 Mud Wt. 9.5  
 Top Packer Depth 4406 Drill Collars Run 0 Vis 51  
 Bottom Packer Depth 4410 Wt. Pipe Run 0 WL 8.0  
 Total Depth 4480 Chlorides 5,200 ppm System LCM 1

Blow Description Built to 4" below  
No return below  
Built to 8 1/2" below  
No return below

Rec	Feet of	%gas	%oil	%water	%mud
<u>0</u>	<u>77' Gas In Pipe</u>				
<u>20</u>	<u>100' Free Oil</u>		<u>100</u>		
<u>213</u>	<u>MCO</u>		<u>50</u>		<u>50</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 233 BHT 117 Gravity 38 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2,218  Test 1225 T-On Location 3:25  
 (B) First Initial Flow 17  Jars \_\_\_\_\_ T-Started 5:00  
 (C) First Final Flow 51  Safety Joint \_\_\_\_\_ T-Open 7:47  
 (D) Initial Shut-In 1,133  Circ Sub n/c T-Pulled 11:01  
 (E) Second Initial Flow 54  Hourly Standby \_\_\_\_\_ T-Out 13:27  
 (F) Second Final Flow 88  Mileage 90RT 126 Comments \_\_\_\_\_  
 (G) Final Shut-In 1,186  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2,155  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1351  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_

Initial Open 45  
 Initial Shut-In 30  
 Final Flow 60  
 Final Shut-In 60  
 Sub Total 1351

Approved By [Signature] Our Representative [Signature]

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## GEOLOGIST'S REPORT

### DRILLING TIME AND SAMPLE LOG

COMPANY <u>Blue Ridge Petroleum</u>	ELEVATIONS
LEASE <u>Antenen #2-12</u>	KB <u>2510</u>
FIELD <u>WCV NORTH</u>	DF _____
LOCATION <u>SW-SW-NW-NE (1030' FNL 2580' FEL)</u>	GL <u>2500</u>
SEC <u>12</u> TWP <u>19S</u> RGE <u>26W</u>	Measurements Are All From <u>-KB-</u>
COUNTY <u>NESS</u> STATE <u>Kansas</u>	
CONTRACTOR <u>Southwind Drilling Co.</u>	CASING
SPUD <u>2-20-2012</u> COMP <u>2-28-2012</u>	SURFACE <u>8 5/8" @ 219'</u>
RTD <u>4550</u> LTD <u>4550</u>	PRODUCTION <u>5 1/2" @ 4549'</u>
MUD UP <u>3600</u> TYPE MUD <u>Chemical displaced</u>	ELECTRICAL SURVEYS
	By <u>Superior Well Services</u>
	<u>DIL, CDL/CVL, MEL, Son-</u>
SAMPLES SAVED FROM <u>3600</u> TO _____	
DRILLING TIME KEPT FROM <u>3600</u> TO _____	
SAMPLES EXAMINED FROM <u>3700</u> TO _____	
GEOLOGICAL SUPERVISION FROM <u>3850</u> TO _____	
GEOLOGIST ON WELL <u>Jim Musgrove</u>	

FORMATION TOPS	LOG	SAMPLES			
anhydrite	1777 + 733	Mississippian 4468	-	1958	
Base anhydrite	1812	Miss			
Heebner	3808 - 1258	Dolomite 4474	-	1964	
Toronto	3827 - 1317	RTD 4550	-	2040	
Wansing	3850 - 1340	RTD 4550	-		
Stark Sh.	4098 - 1588				
Base Kansas City	4195 - 1687				
Marmaton	4219 - 1709				
Pawnee	4304 - 1794				
E.T. Scott	4365 - 1855				
Cherokee Shale	4390 - 1880				

REMARKS

7505

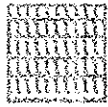
5 1/2" production was set & cemented.

Respectfully submitted;

*James C. Morrison*  
Petroleum Geologist

LOG 7792

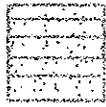
### LEGEND



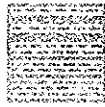
Anhydrite



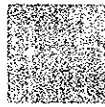
Salt



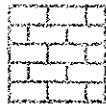
Sandstone



Shale



Carb sil



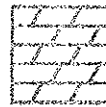
Limestone



Col. Lime



Chert



Dolomite

LITHOLOGY

DEPTH

DRILLING TIME  
(Logarithmic Scale)

.5 1 2 3 4 5 10 15 20 30

SAMPLE DESCRIPTIONS

REMARKS

20

40

60

80

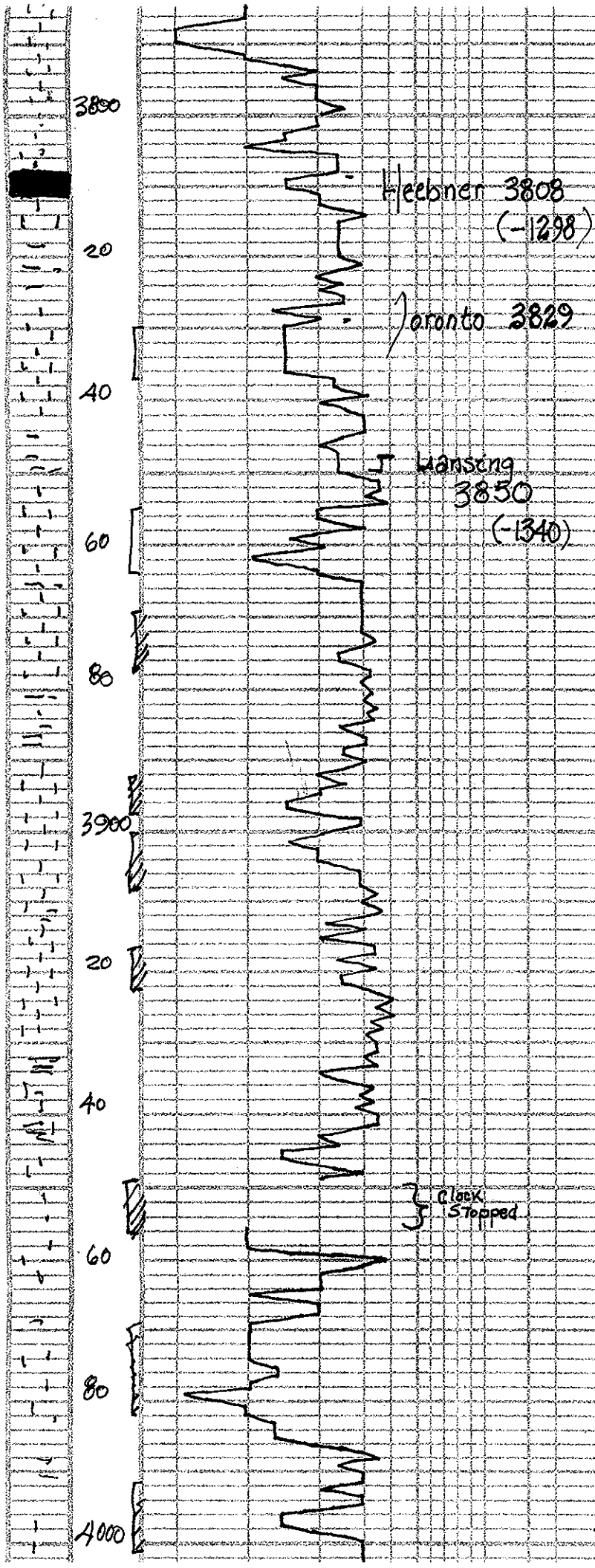
3800

~ ls; gray; wh; foss; green  
scat g + loose fossil  
fragments n/s

ls; tan; foss; chky + tan  
gray; green ls; scat g

aa; few shaly dolomite??

Ar. ara 1



few slightly dolomitic??

fr. gry Δ

blk carb sh.

2510 KB -

LS, wh, few foss, cherty  
+ wh/gry Darcy Δ

fr. litogeo. cherty LS??

LS, tan, (xh) few foss,  
poor of + tan-gry Δ

LS, gry-tan, few Δy  
(dense)

LS, tan, yellow (??) ool,  
dense, poor vis o, n/s

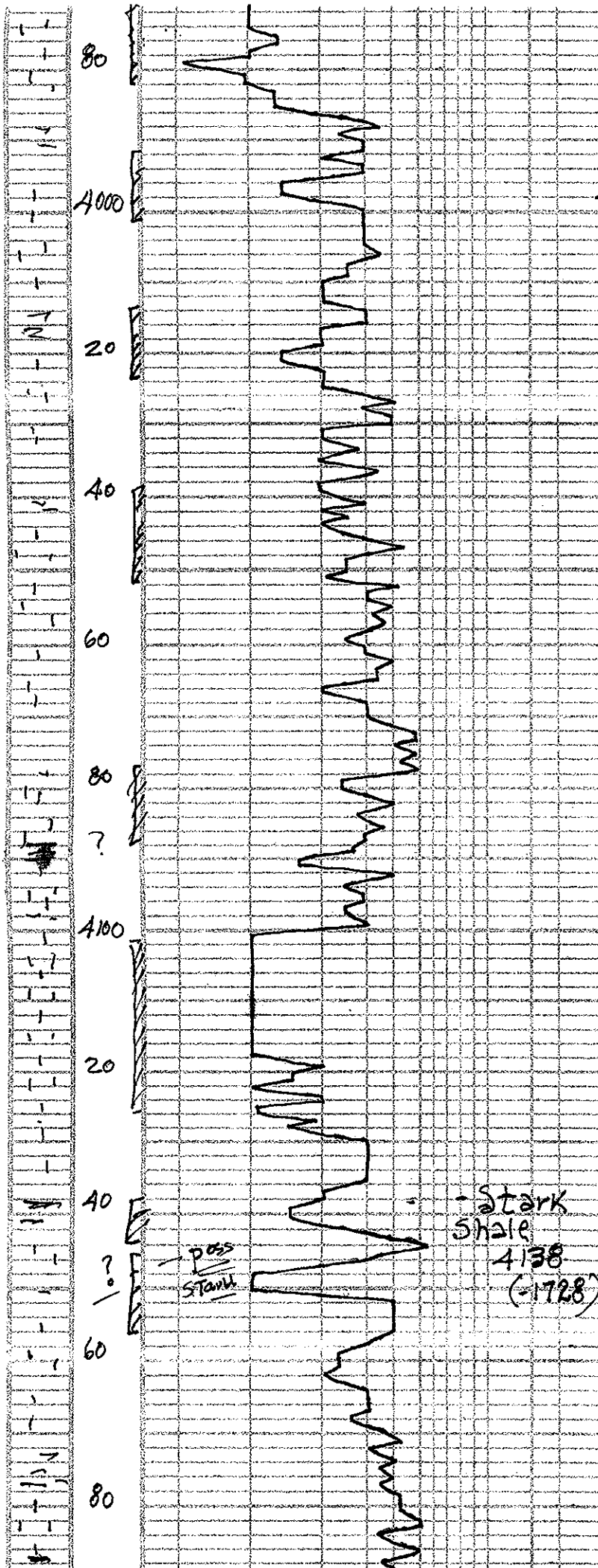
LS, wh/gry - cherty  
dense, poor vis o,

blk carb sh.

LS, wh/gry, foss, cherty  
+ gry wh Δ

LS, wh/gry, finely com  
fr. com, cherty n/s

LS, wh/gry, foss, ool,  
cherty poor vis o



ls, wh, gry, finely com,  
fr. com, Chiky, vis

ls, wh, gry, (foss/ool)  
Chiky, poor vis. o  
fr. wh Δ

fr. blk sh

ls,

ls, wh, tan, f. red xly, foss,  
spang calcite cement  
+ gry / oolite Δ

ls, few ool. ? ?? gry sh  
xly, no oolite

??

ls, wh, gry, few Chiky  
+ wh, tan, ool; opaque Δ

ls, gry, wh, highly ool, oom  
good g  
+ shug wh. chik

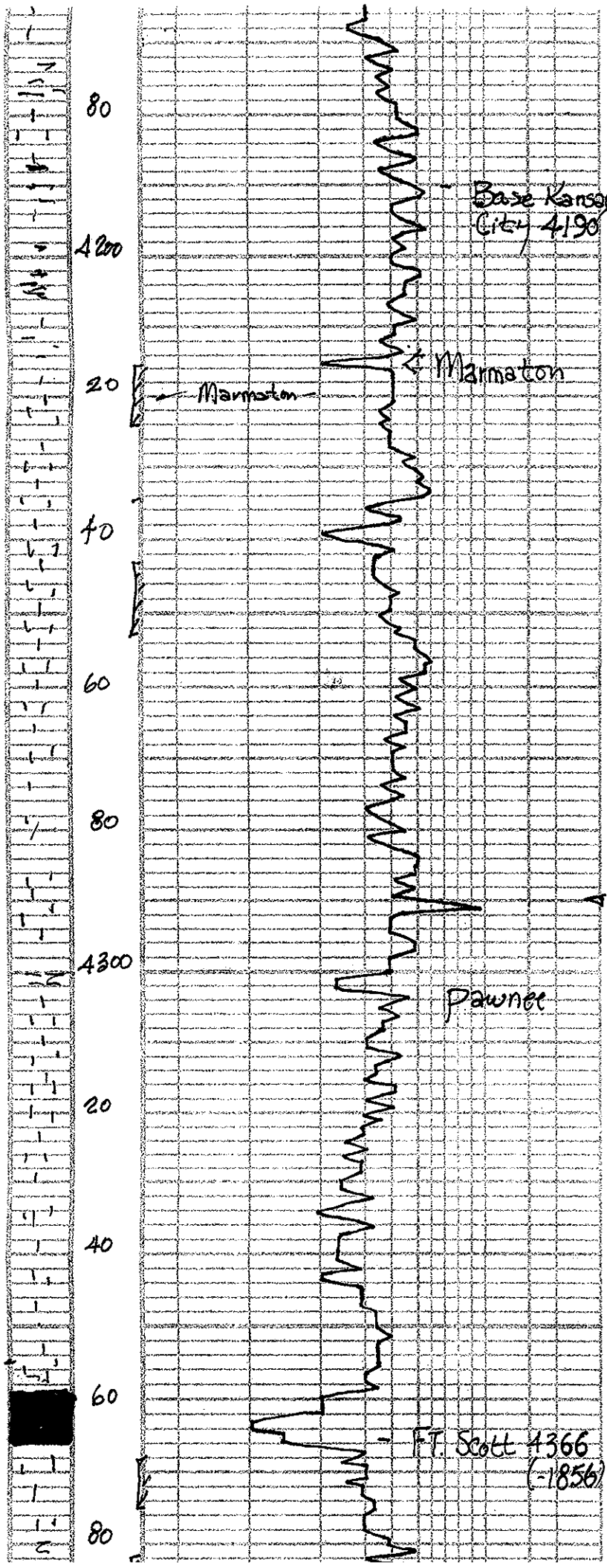
??

blk carb sh.

ls, tan, brown, highly ool,  
dense; few fr.

ls, tan, brown Δy (dense)

shug blk carb sh.



2- Slug blk carb sh.

~ grey/green sh.

ls, grey, wh/ tan, ool  
cherty - A'y (dense)

~ blk carb sh. ?!

ls, wh/grey, (foss ool), poor  
cherty

} }

ls, wh/grey - cherty, ool, wh  
part (dense)

ls, wh/grey, cherty - dense

} }

ls + grey/dk grey shaley  
cherty

} }

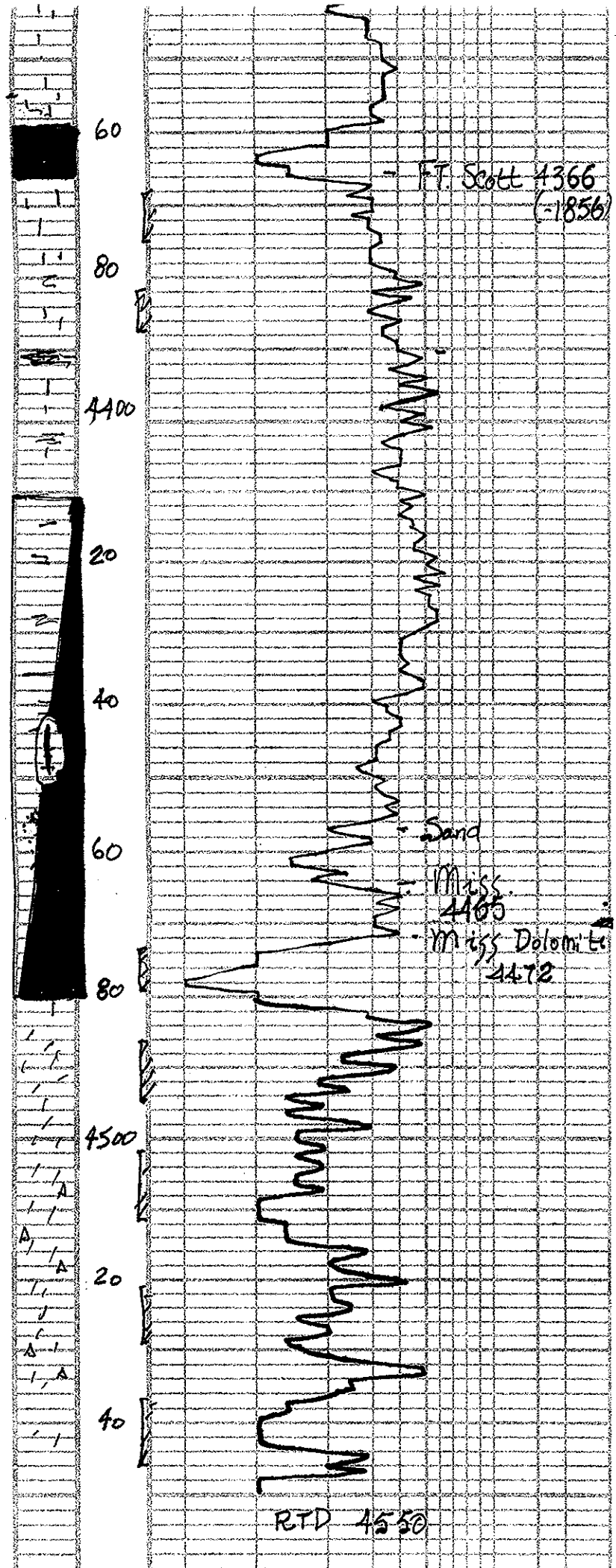
~ ls

~ Slug black carb. sh.

ls, tan, brown, foss/ool  
cherty

} }





aa

Slug black carb. sh.

ls, tan, brown, foss./oil  
cherty sh

aa }  
Jr. wh A

blk carb sh.

blk carb sh.

ls, tan / gray ; cherty

Jr. blk carb sh

ls  
Jr. gray / green sh.

gr. blk sh.

ls, wh / gray ; cherty - dense

Sand, gray, wh, Vsg; sub rounded,  
few friable, gray - brown sh, Jr. fo,  
no odor  
Jr. wh / yellow A, blk / gray sh.

do; tan, yellow (fx) suc  
Scott pp, few Scott. vuggy,  
brown sh, soft) sfo, Jr. odor

dol. tan - buff fine suc in part  
fr pp - vuggy - dense in part  
brn sh sfo Jr. odor  
fr. wh - heavy A

dol. tan - buff Sal dense, heavy  
in part, fr vuggy, sh dy  
fr brn sh NSF fr odor

dolomite erm - tan f-mulxt  
Vuggy / sh suc dy in part  
N/S

aa.

DST # 1 4410 -  
45.30 - 60 - 60  
Blow; fan (4")  
End opening; fan (8")  
Rec; 77' gas in pi  
20' clean oil  
213' muddy o  
(50% oil; 50% m

pressures - ESIP H  
SS: P 118  
IFD 17  
STP 54  
MSH  
2218-2

RTD 4550

