

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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. 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 Geologist Report / Mud Logs <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
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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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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FIELD ORDER N° C 45268

BOX 438 • HAYSVILLE, KANSAS 67060
316-524-1225

DATE 12-8 2017

IS AUTHORIZED BY: BEAR Petroleum Inc.
(NAME OF CUSTOMER)

Address _____ City _____ State _____

To Treat Well As Follows: Lease Higgins B Well No. 1 Customer Order No. _____

Sec. Twp. Range 10-30s-8w County KINGMAN State Ks.

CONDITIONS: As a part of the consideration hereof it is agreed that Copeland Acid Service is to service or treat at owners risk, the hereinbefore mentioned well and is not to be held liable for any damage that may accrue in connection with said service or treatment. Copeland Acid Service has made no representation, expressed or implied, and no representations have been relied on, as to what may be the results or effect of the servicing or treating said well. The consideration of said service or treatment is payable. There will be no discount allowed subsequent to such date. 6% interest will be charged after 60 days. Total charges are subject to correction by our invoicing department in accordance with latest published price schedules.

The undersigned represents himself to be duly authorized to sign this order for well owner or operator.

THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED

Well Owner or Operator

By

Agent

CODE	QUANTITY	DESCRIPTION	UNIT COST	AMOUNT
2	40	Mileage Pickup	2.00	80.00
2	40	Mileage Pump TRUCK	4.00	160.00
2	1	Pump Chg.	1100.00	1100.00
2	20lsx	60-40 Pozmix 270 Gel	10.75	2150.00
2	10sx	CALCIUM CHLORIDE	30.00	300.00
2	210	Bulk Charge	1.25	262.50
2	40	Bulk Truck Miles $9.05 = 369 \times 1.10 =$		398.20
		Process License Fee on _____ Gallons		
TOTAL BILLING				4450.70

I certify that the above material has been accepted and used; that the above service was performed in a good and workmanlike manner under the direction, supervision and control of the owner, operator or his agent, whose signature appears below.

Copeland Representative Duane Brozek

Station Gr. Bend, Ks.

Dick Schremmer
Well Owner, Operator or Agent

Remarks _____

NET 30 DAYS



DRILL STEM TEST REPORT

Prepared For: **Bear Petroleum, LLC**

PO Box 438
Haysville, KS 67060-0438

ATTN: Dick Schremmer/Terry

Higgins B #1

10-30S-8W Kingman,KS

Start Date: 2017.12.14 @ 03:53:00

End Date: 2017.12.14 @ 11:11:30

Job Ticket #: 62016 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.12.18 @ 10:36:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum, LLC
 PO Box 438
 Haysville, KS 67060-0438
 ATTN: Dick Schremmer/Terry

10-30S-8W Kingman, KS
Higgins B #1
 Job Ticket: 62016 **DST#: 1**
 Test Start: 2017.12.14 @ 03:53:00

GENERAL INFORMATION:

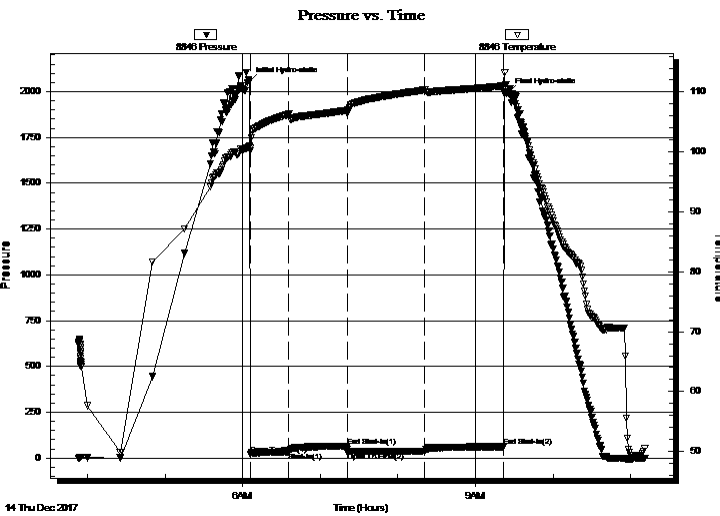
Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:05:50
 Time Test Ended: 11:11:30
 Interval: **4083.00 ft (KB) To 4163.00 ft (KB) (TVD)**
 Total Depth: 4163.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1521.00 ft (KB)
 1514.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8846

Inside

Press@RunDepth: 38.49 psig @ 4084.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.14 End Date: 2017.12.14 Last Calib.: 1899.12.30
 Start Time: 03:53:01 End Time: 11:11:30 Time On Btm: 2017.12.14 @ 06:05:10
 Time Off Btm: 2017.12.14 @ 09:25:39

TEST COMMENT: IF - Weak blow building to strong blow in 4 minutes
 FF - Weak blow building to strong blow in 2 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2053.17	100.95	Initial Hydro-static
1	22.20	100.20	Open To Flow (1)
31	33.23	106.31	Shut-In(1)
76	64.15	106.96	End Shut-In(1)
76	30.47	106.34	Open To Flow (2)
136	38.49	110.36	Shut-In(2)
197	61.76	111.03	End Shut-In(2)
201	1994.02	109.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
65.00	Drilling mud 100% M	0.32
1255.00	Weak gas in pipe 100% G	17.12

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum, LLC
 PO Box 438
 Haysville, KS 67060-0438
 ATTN: Dick Schremmer/Terry

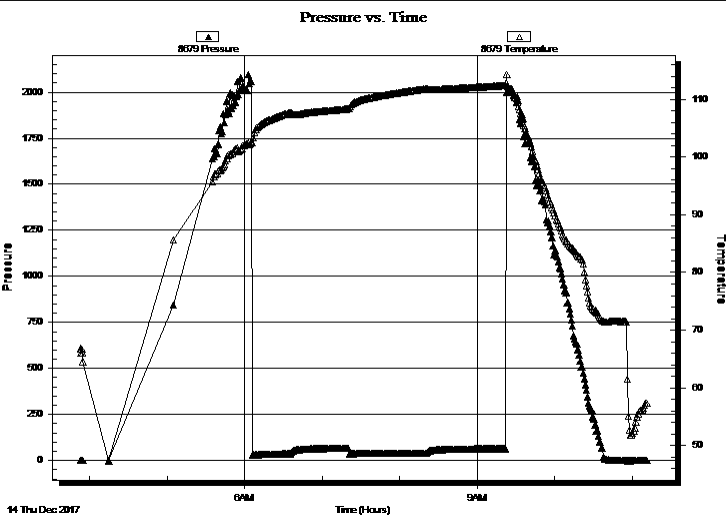
10-30S-8W Kingman, KS
Higgins B #1
 Job Ticket: 62016 **DST#: 1**
 Test Start: 2017.12.14 @ 03:53:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:05:50
 Time Test Ended: 11:11:30
Interval: 4083.00 ft (KB) To 4163.00 ft (KB) (TVD)
 Total Depth: 4163.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1521.00 ft (KB)
 1514.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8679 **Outside**
 Press@RunDepth: psig @ 4084.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.14 End Date: 2017.12.14 Last Calib.: 1899.12.30
 Start Time: 03:53:05 End Time: 11:11:29 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow in 4 minutes
 FF - Weak blow building to strong blow in 2 minutes



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

Recovery		
Length (ft)	Description	Volume (bbl)
65.00	Drilling mud 100% M	0.32
1255.00	Weak gas in pipe 100% G	17.12

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bear Petroleum, LLC
 PO Box 438
 Haysville, KS 67060-0438
 ATTN: Dick Schremmer/Terry

10-30S-8W Kingman, KS
Higgins B #1
 Job Ticket: 62016 **DST#: 1**
 Test Start: 2017.12.14 @ 03:53:00

Tool Information

Drill Pipe:	Length: 3950.00 ft	Diameter: 3.80 inches	Volume: 55.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 21000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4083.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4063.00	
Shut In Tool	5.00			4068.00	
Hydraulic tool	5.00			4073.00	
Packer	5.00			4078.00	21.00 Bottom Of Top Packer
Packer	5.00			4083.00	
Stubb	1.00			4084.00	
Recorder	0.00	8679	Outside	4084.00	
Recorder	0.00	8846	Inside	4084.00	
Perforations	9.00			4093.00	
Change Over Sub	0.50			4093.50	
Blank Spacing	62.00			4155.50	
Change Over Sub	0.50			4156.00	
Perforations	2.00			4158.00	
Bullnose	5.00			4163.00	80.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bear Petroleum, LLC

10-30S-8W Kingman,KS

PO Box 438
Haysville, KS 67060-0438

Higgins B #1

Job Ticket: 62016

DST#: 1

ATTN: Dick Schremmer/Terry

Test Start: 2017.12.14 @ 03:53:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Drilling mud 100% M	0.320
1255.00	Weak gas in pipe 100% G	17.122

Total Length: 1320.00 ft Total Volume: 17.442 bbl

Num Fluid Samples: 0

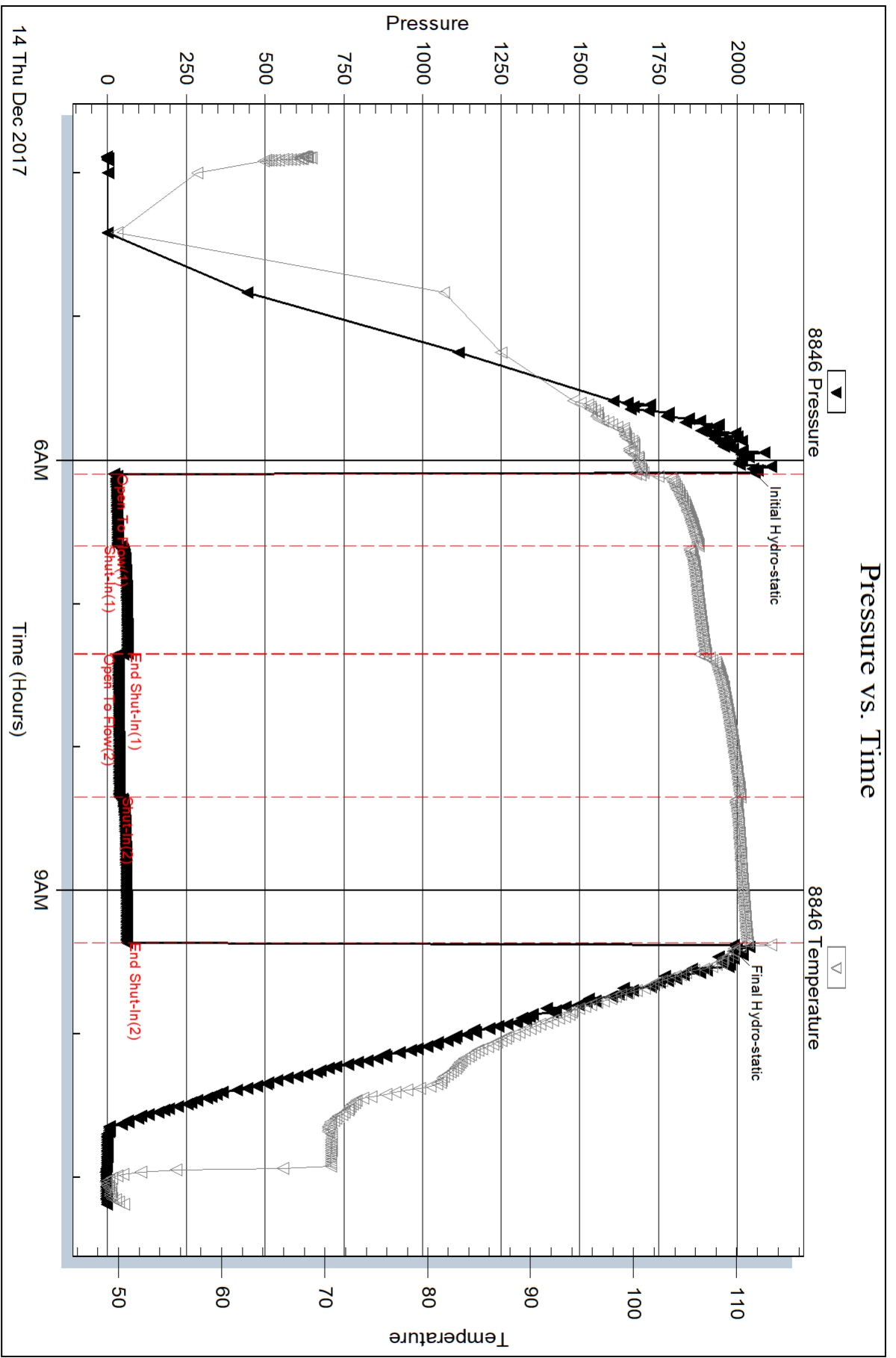
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

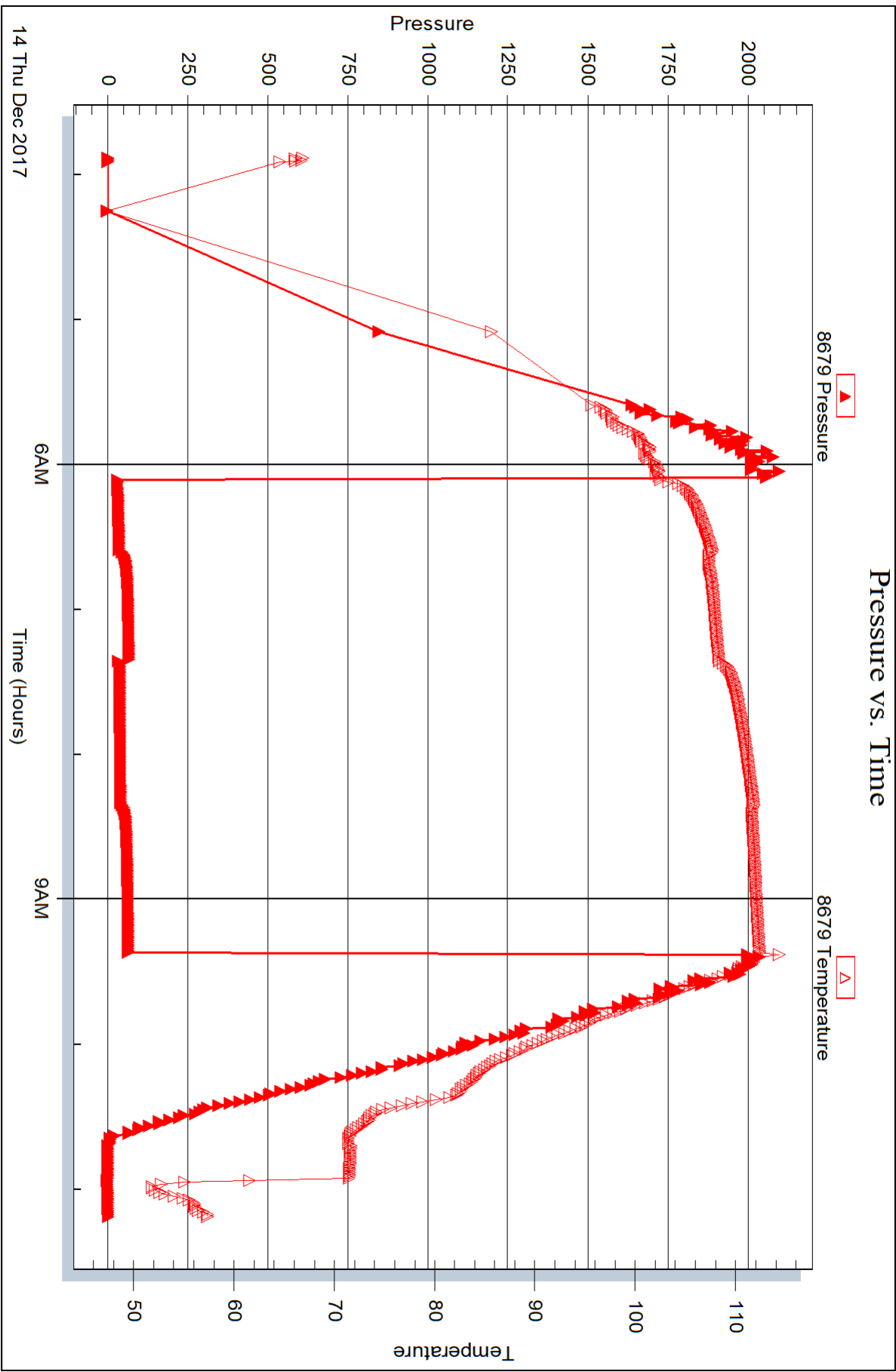


Serial #: 8679

Outside Bear Petroleum, LLC

Higgins B #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 62016

Printed: 2017.12.18 @ 10:36:26



DRILL STEM TEST REPORT

Prepared For: **Bear Petroleum, LLC**

PO Box 438
Haysville, KS 67060-0438

ATTN: Dick Schremmer/Terry

Higgins B #1

10-30S-8W Kingman,KS

Start Date: 2017.12.14 @ 17:25:00

End Date: 2017.12.15 @ 00:33:39

Job Ticket #: 62017 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.12.18 @ 10:35:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bear Petroleum, LLC
 PO Box 438
 Haysville, KS 67060-0438
 ATTN: Dick Schremmer/Terry

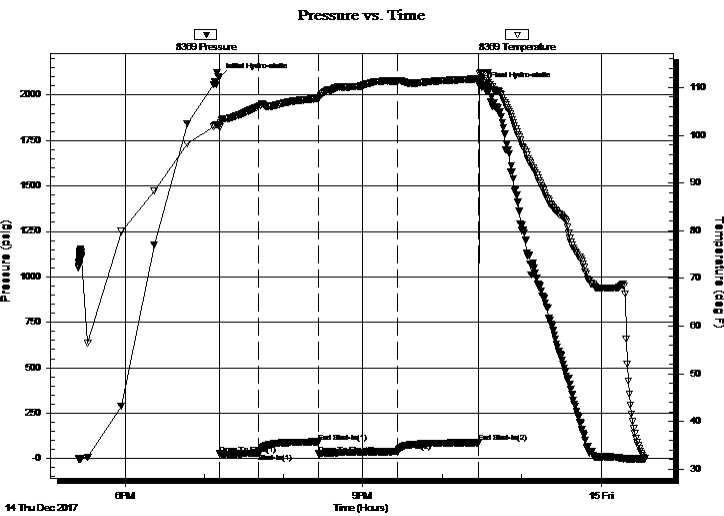
10-30S-8W Kingman, KS
Higgins B #1
 Job Ticket: 62017 **DST#: 2**
 Test Start: 2017.12.14 @ 17:25:00

GENERAL INFORMATION:

Formation: **Mississippian**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:11:50
 Time Test Ended: 00:33:39
 Interval: **4158.00 ft (KB) To 4210.00 ft (KB) (TVD)**
 Total Depth: 4210.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1521.00 ft (KB)
 1514.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8369 Outside
 Press@RunDepth: 38.16 psig @ 4159.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.12.14 End Date: 2017.12.15 Last Calib.: 1899.12.30
 Start Time: 17:25:01 End Time: 00:33:40 Time On Btm: 2017.12.14 @ 19:11:20
 Time Off Btm: 2017.12.14 @ 22:30:50

TEST COMMENT: IF - Weak blow building to strong blow in 18 minutes
 IS - Surface blow back
 FF - Weak blow building to strong blow in 7 minutes
 FS - Surface blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2095.32	102.11	Initial Hydro-static
1	26.03	101.68	Open To Flow (1)
30	29.93	106.01	Shut-In(1)
76	92.06	107.69	End Shut-In(1)
76	26.34	107.66	Open To Flow (2)
135	38.16	111.41	Shut-In(2)
197	88.06	111.82	End Shut-In(2)
200	2045.54	112.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Drilling mud trace oil TR O 100% M	0.30
0.00	630' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bear Petroleum, LLC
PO Box 438
Haysville, KS 67060-0438
ATTN: Dick Schremmer/Terry

10-30S-8W Kingman, KS
Higgins B #1
Job Ticket: 62017 **DST#: 2**
Test Start: 2017.12.14 @ 17:25:00

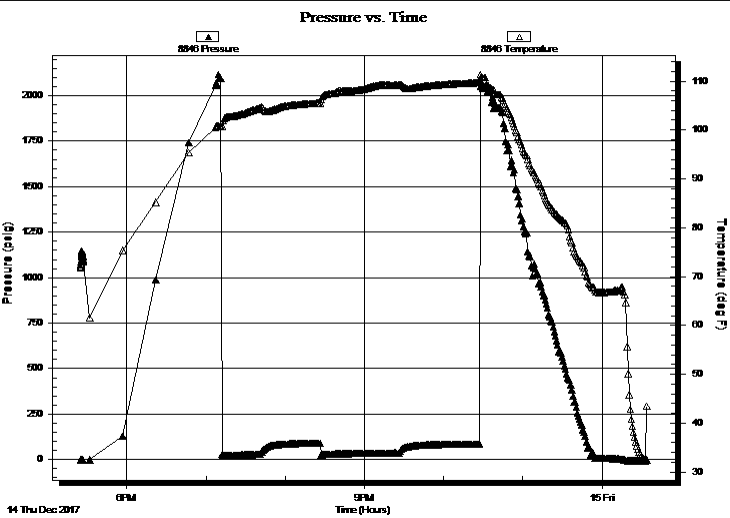
GENERAL INFORMATION:

Formation: Mississippian	Test Type: Conventional Bottom Hole (Initial)
Deviated: No Whipstock: ft (KB)	Tester: Jimmy Ricketts
Time Tool Opened: 19:11:50	Unit No: 80
Time Test Ended: 00:33:39	
Interval: 4158.00 ft (KB) To 4210.00 ft (KB) (TVD)	Reference Elevations: 1521.00 ft (KB)
Total Depth: 4210.00 ft (KB) (TVD)	1514.00 ft (CF)
Hole Diameter: 7.88 inches Hole Condition: Poor	KB to GR/CF: 7.00 ft

Serial #: 8846 Inside

Press@RunDepth: psig @ 4159.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2017.12.14 End Date: 2017.12.15	Last Calib.: 1899.12.30
Start Time: 17:25:01 End Time: 00:33:50	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow in 18 minutes
IS - Surface blow back
FF - Weak blow building to strong blow in 7 minutes
FS - Surface blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	Drilling mud trace oil TR O 100% M	0.30
0.00	630' GIP	0.00

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Bear Petroleum, LLC
 PO Box 438
 Haysville, KS 67060-0438
 ATTN: Dick Schremmer/Terry

10-30S-8W Kingman,KS
Higgins B #1
 Job Ticket: 62017 **DST#: 2**
 Test Start: 2017.12.14 @ 17:25:00

Tool Information

Drill Pipe:	Length: 4045.00 ft	Diameter: 3.80 inches	Volume: 56.74 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 23000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 57.32 bbl</u>	Tool Chased 1.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4158.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	72.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			4139.00	
Shut In Tool	5.00			4144.00	
Hydraulic tool	5.00			4149.00	
Packer	4.00			4153.00	20.00 Bottom Of Top Packer
Packer	5.00			4158.00	
Stubb	1.00			4159.00	
Recorder	0.00	8369	Outside	4159.00	
Recorder	0.00	8846	Inside	4159.00	
Perforations	10.00			4169.00	
Change Over Sub	0.50			4169.50	
Blank Spacing	32.00			4201.50	
Change Over Sub	0.50			4202.00	
Perforations	3.00			4205.00	
Bullnose	5.00			4210.00	52.00 Bottom Packers & Anchor

Total Tool Length: 72.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bear Petroleum, LLC

10-30S-8W Kingman,KS

PO Box 438
Haysville, KS 67060-0438

Higgins B #1

Job Ticket: 62017

DST#: 2

ATTN: Dick Schremmer/Terry

Test Start: 2017.12.14 @ 17:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Drilling mud trace oil TR O 100% M	0.295
0.00	630' GIP	0.000

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

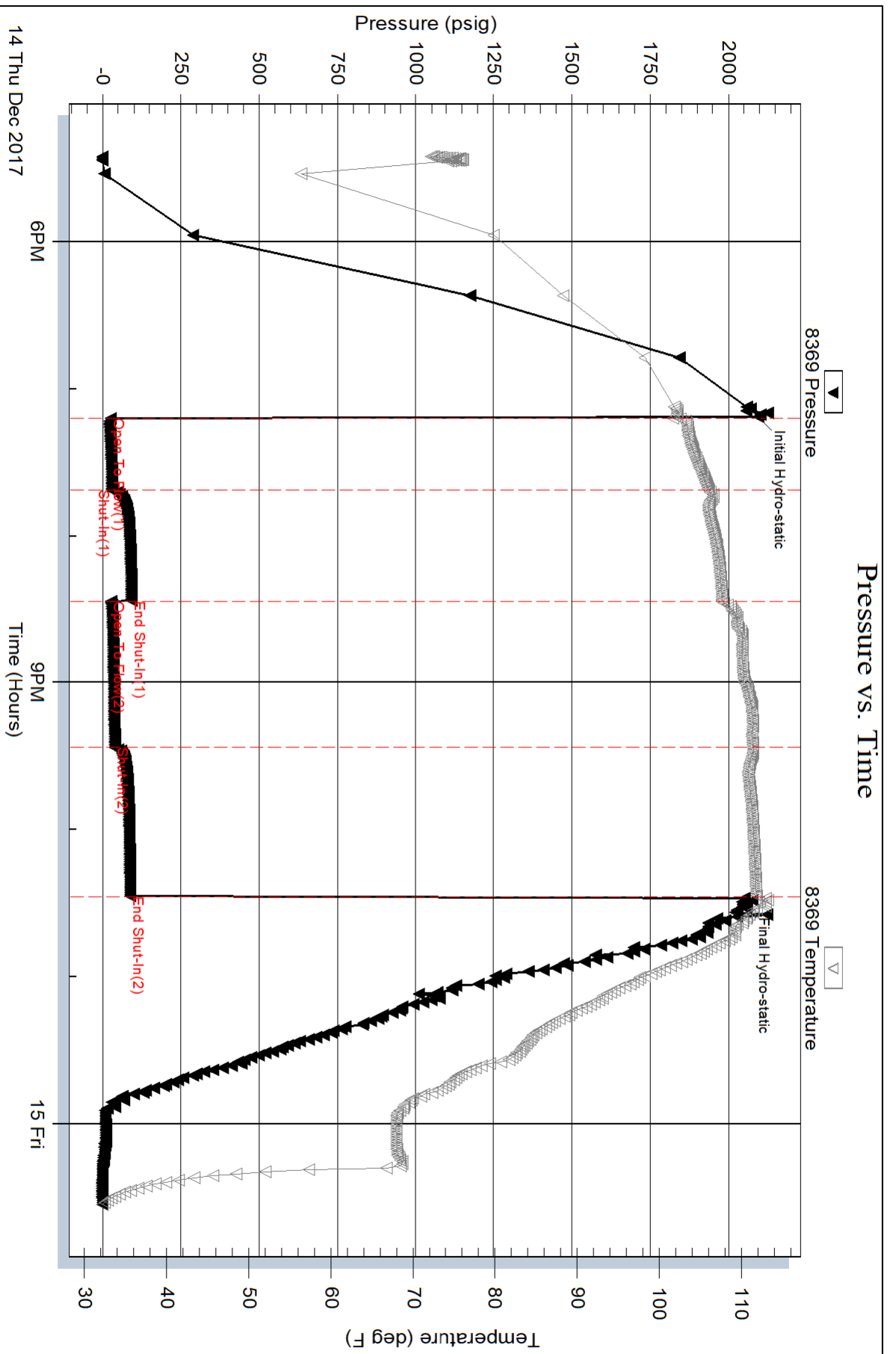
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



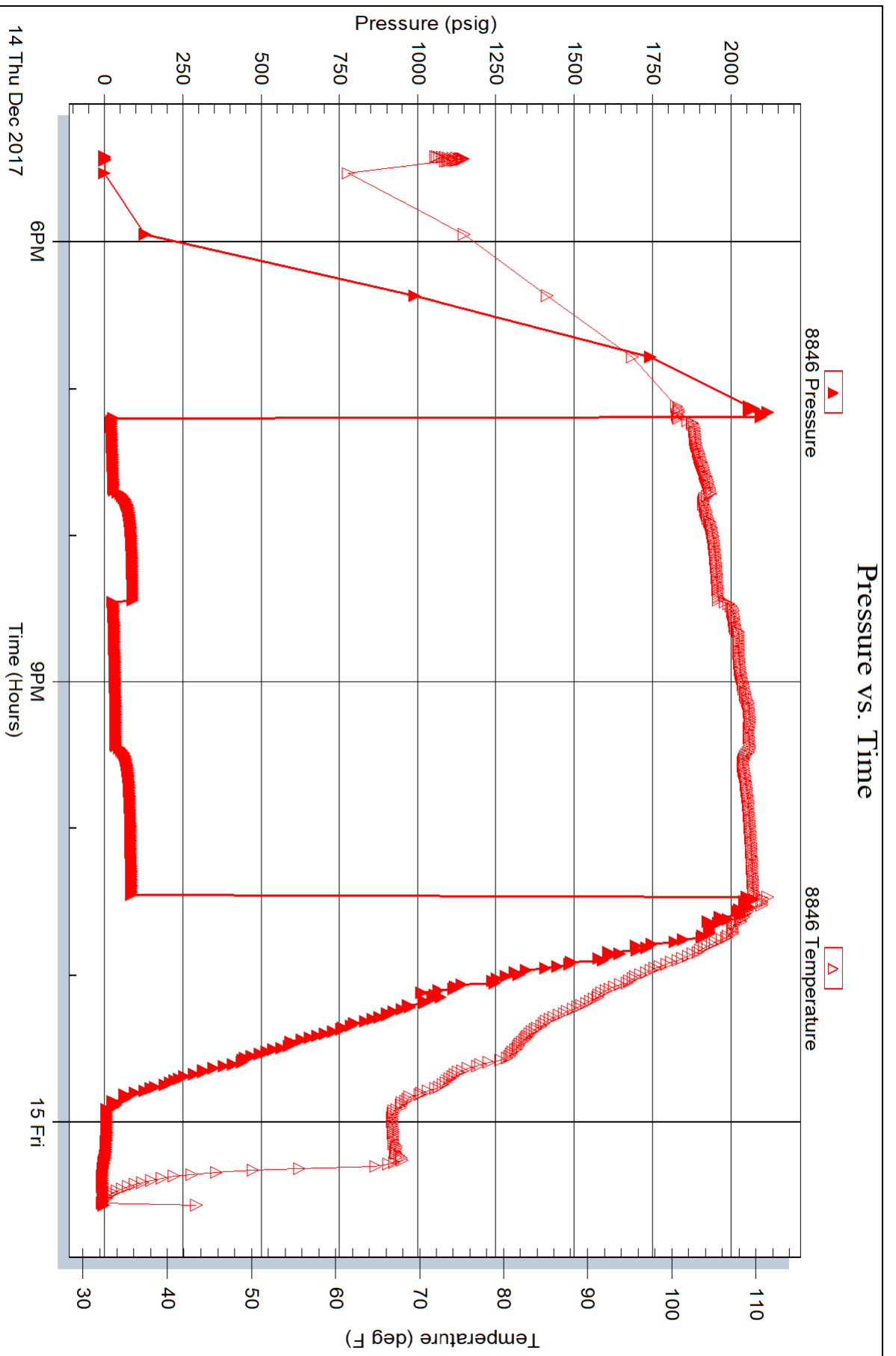
Serial #: 8846

Inside

Bear Petroleum, LLC

Higgins B #1

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62016

Well Name & No. Higgins B #1 Test No. 1 Date 12-14-17
 Company Bear Petroleum, LLC Elevation 1521 KB 1514 GL
 Address P.O. Box 438 Haysville, KS. 67060-0438
 Co. Rep / Geo. Dick Schremmer / Terry McLeod Rig ww drilling #2
 Location: Sec. 10 Twp. 30 S Rge. 8 W Co. Kingman State KS

Interval Tested 4083-4163 Zone Tested Mississippian
 Anchor Length 80' Drill Pipe Run 3950 Mud Wt. 9.0
 Top Packer Depth 4078 Drill Collars Run 118 Vis 52
 Bottom Packer Depth 4083 Wt. Pipe Run 0 WL 8.8
 Total Depth 4163 Chlorides 5000 ppm System LCM
 Blow Description IF- weak blow building to strong blow 4 mins into FFP
FF- weak blow building to strong blow 2 mins into FFP

Rec	Feet of	%gas	%oil	%water	%mud
<u>1255</u>	<u>Weak gas in pipe</u>	<u>100</u>			
<u>65</u>	<u>Drilling Mud</u>				<u>100</u>

Rec Total 65 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2053 Test 1150 T-On Location 0200
 (B) First Initial Flow 22 Jars _____ T-Started 0353
 (C) First Final Flow 33 Safety Joint _____ T-Open 0606
 (D) Initial Shut-In 64 Circ Sub _____ T-Pulled 0921
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 1100
 (F) Second Final Flow 38 Mileage 76.50 RT 102 Comments _____
 (G) Final Shut-In 62 Sampler _____
 (H) Final Hydrostatic 1994 Straddle _____
 Shale Packer 250 Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1476.50
 Sub Total 1476.50 MP/DST Disc't _____

Approved By Ty L. McLeod Our Representative Jimmy D. Keith

Trilobite Testing Inc. shall not be liable for damaged 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 62017

Well Name & No. Higgins B #1 Test No. 2 Date 12-14-17
 Company Bear Petroleum, LLC Elevation 1521 KB 1514 GL
 Address P.O. Box 438 Haysville, KS. 67060-0438
 Co. Rep / Geo. Dick Schremmer / Terry McLeod Rig WW Drilling #2
 Location: Sec. 10 Twp. 30 S Rge. 8W Co. Kingman State KS

Interval Tested 4158-4210 Zone Tested Mississippian
 Anchor Length 52 Drill Pipe Run _____ Mud Wt. 9.1
 Top Packer Depth 4153 Drill Collars Run 118 Vis 52
 Bottom Packer Depth 4158 Wt. Pipe Run 0 WL 8.0
 Total Depth 4210 Chlorides 5000 ppm System LCM _____

Blow Description IF - weak blow building strong blow 18 mins into FFP
IS - Surface blow back during FSP
FF - weak blow building to strong blow 7 mins. into FFP
FS - Surface blow back during FSP

Rec	Feet of	%gas	%oil	%water	%mud
<u>630</u>	<u>Gas in pipe</u>	<u>100%</u>			
<u>60</u>	<u>Drilling mud with trace oil</u>		<u>TR</u>		<u>100</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 60 BHT 113 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2095 Test 1150 T-On Location 1700
 (B) First Initial Flow 26 Jars _____ T-Started 1725
 (C) First Final Flow 30 Safety Joint _____ T-Open 1912
 (D) Initial Shut-In 92 Circ Sub _____ T-Pulled 2227
 (E) Second Initial Flow 26 Hourly Standby _____ T-Out 0030
 (F) Second Final Flow 38 Mileage 76.50 RT 102 Comments _____
 (G) Final Shut-In 88 Sampler _____
 (H) Final Hydrostatic 2046 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 60 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1226.50
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1226.50

Approved By Luc L. McLeod Our Representative Jeremy Roberts

Trilobite Testing Inc. shall not be liable for damaged 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.

Terry McLeod

Consulting Geologist
 P.O. Box 503
 Wichita, Kansas 67201
 316-640-2440

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR Bear Petroleum, L.L.C.
 LEASE Higgins "B" WELL NO. 1
 FIELD SPIVEY-GRABS-BASIL
 LOCATION Sw Se Nw Sw
 SEC. 10 TWP. 30S RGE. 8W
 COUNTY Kingman STATE Kansas

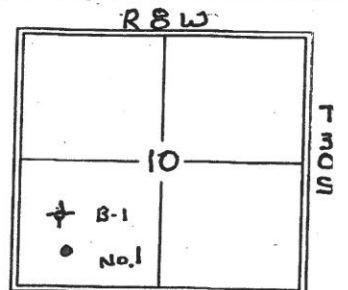
ELEVATION
 KB 1521
 DF _____
 GL 1514
 Measurements Are All
 From KB

CONTRACTOR ww drlg co. Rig 2.
 COMM: 12-8-2017 COMP: 12-15-2017
 RTD 4250' LOG TO 4248'
 SAMPLES SAVED FROM 3100' TO RTD
 DRILLING TIME KEPT FROM 3100' TO RTD
 SAMPLES EXAMINED FROM 3100' TO RTD
 GEOLOGICAL SUPERVISION FROM 3100' TO RTD.
 MUD UP 3000' TYPE MUD Chemical

CASING RECORD
 SURFACE 8 5/8" @ 208'
 PRODUCTION None

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATUM	TOP	DATUM	
Heebner sh.	3178	-1657	3189	-1668	+6
Lansing	3410	-1889	3411	-1890	+3
stark sh.	3805	-2284	3805	-2284	+5
BKC	3902	-2381	3904	-2383	+4
Cherokee Shale	4050	-2529	4050	-2529	Flat
Mississippi	4138	-2617	4144	-2623	+3

ELECTRICAL SURVEYS
 ELL Wireline
 Dual Induction
 Density Neutron
 microlog - ELL -



REFERENCE WELL FOR STRUCTURAL COMPARISON Gulf Oil Corp Nat Thomas
Higgins, Sw Ne Sw Sw Sec 10-30S-8W, 1523' K.B

DATE	DEPTH	NO	SIZE	MAKE	TYPE	DEPTH OUT	FEET	HOURS
12-8-2017	MIRT - SPUD	1	12 1/4	Smith	tooth	20.8'	20.8'	
12-9-2017	228' surf	2	7 7/8	Smith	SpI Sll	42.50'	40.42'	
12-10-2017	685' drlg							
12-11-2017	1715' drlg							
12-12-2017	2856' drlg on Loc							
12-13-2017	3770' drlg -2-							
12-14-4163	4163' dst-1 -3-							
12-15-2017	4250' dst 2 Log 4							
FORMATION		INTERVAL	DESCRIPTION OF SHOW				LOG ANALYSIS O SW	
Pleasanton	3935-42'	Limestone, tan to light brown, fine grained fossiliferous, w/ 3 to 4 pieces w/ poor spl'd oil stain in fair foss, No free oil faint odor.						
Mississippi	4144-63'	chert, white, fresh + weathered w/ drk brown heavy oil spots of free oil in spotted stain in fair weathered s.					dst-1	
Mississippi	4164'-95'	chert, white, opaque, fresh + weathered w/ a few pieces but show of brown free oil + spl'd stain in good frac-weathered s. faint odor					dst-2	
		BOARD 4179.42'						
		STRAP 4181.34'						
		Diff 1.92' Long						
		Surveys 208' 3/4°						
		4163' 3/4°						
		PDC BIT DRILLED whole well						

No.	
	1
	2
REMARKS	pa ca

DRILL STEM TESTS

No.	Interval	FFP/Time	ISIP/Time	FFP/Time	FSIP/Time	BH-FH	RECOVERY
1	4083' to 4163'	22-33 30"	64* 45"	30-38 60"	62* 60"	2053 /1994	1225' GAS in pipe 65' mud NO SHOW.
2	4158' TO 4210'	26-30 30"	92* 45"	26-38 60"	88* 60"	2095 /2096	630' GAS in pipe 60' mud w/trace oil-

REMARKS AND RECOMMENDATIONS with lack of shut in pressures and poor recoveries of oil + gas the High in "B" 1 was declared dry and abandon on 12-15-2017

Respectfully,

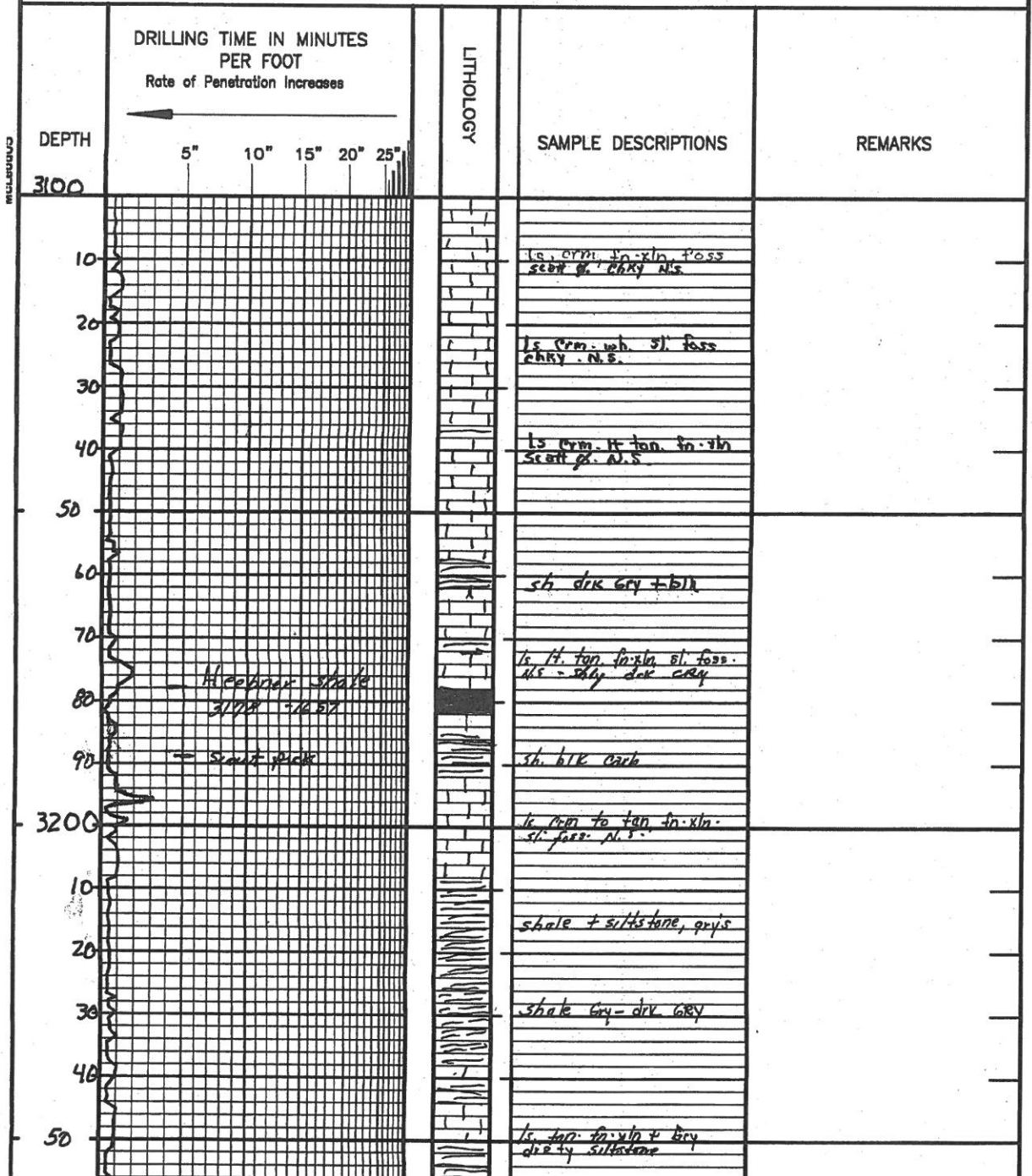
Jay L. McLeod
 Petroleum Geologist

LEGEND



Anhydrite Salt Sandstone Shale Carb sh Limestone Ool. Lime Chert Dolomite

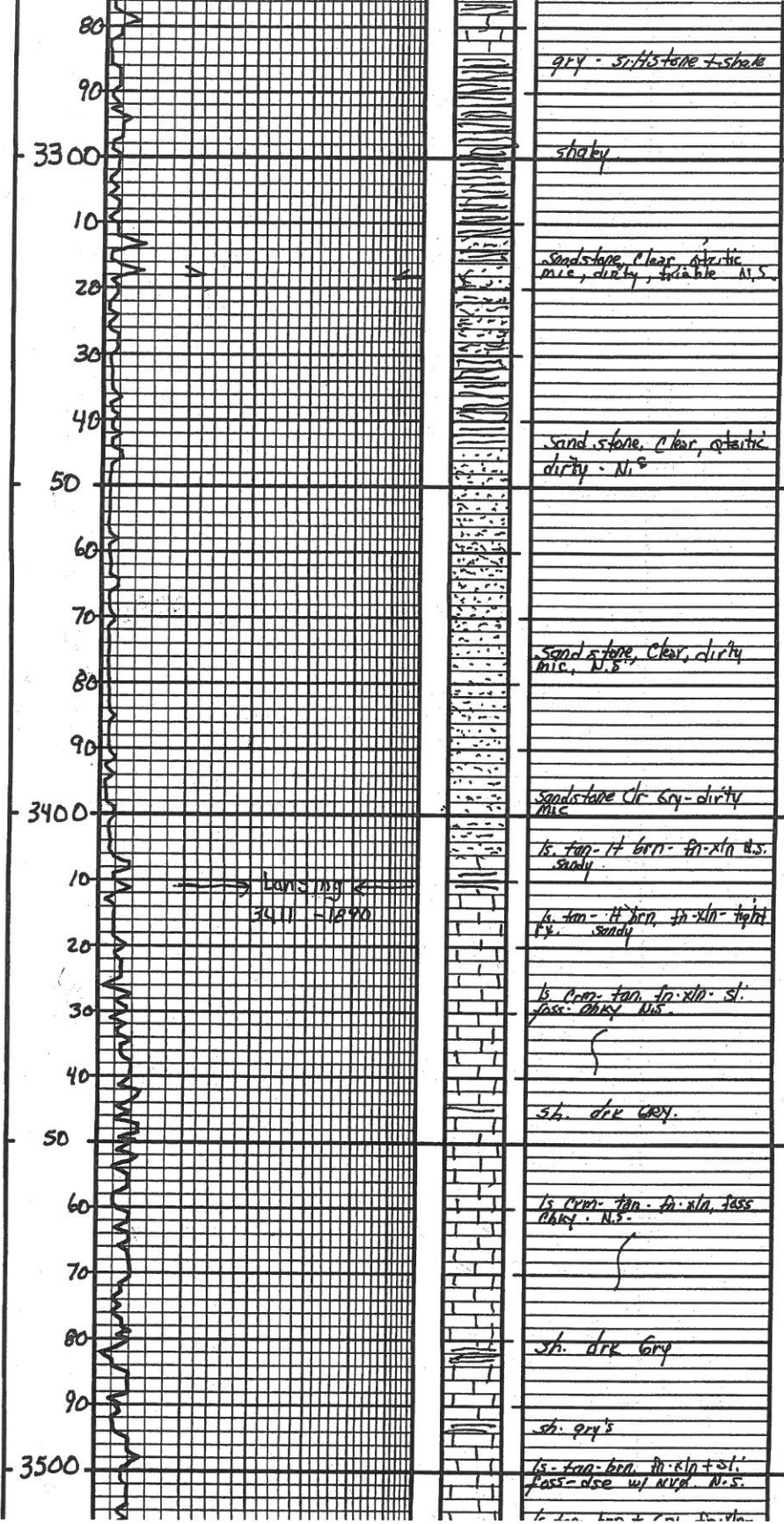
SCALE " = 100'

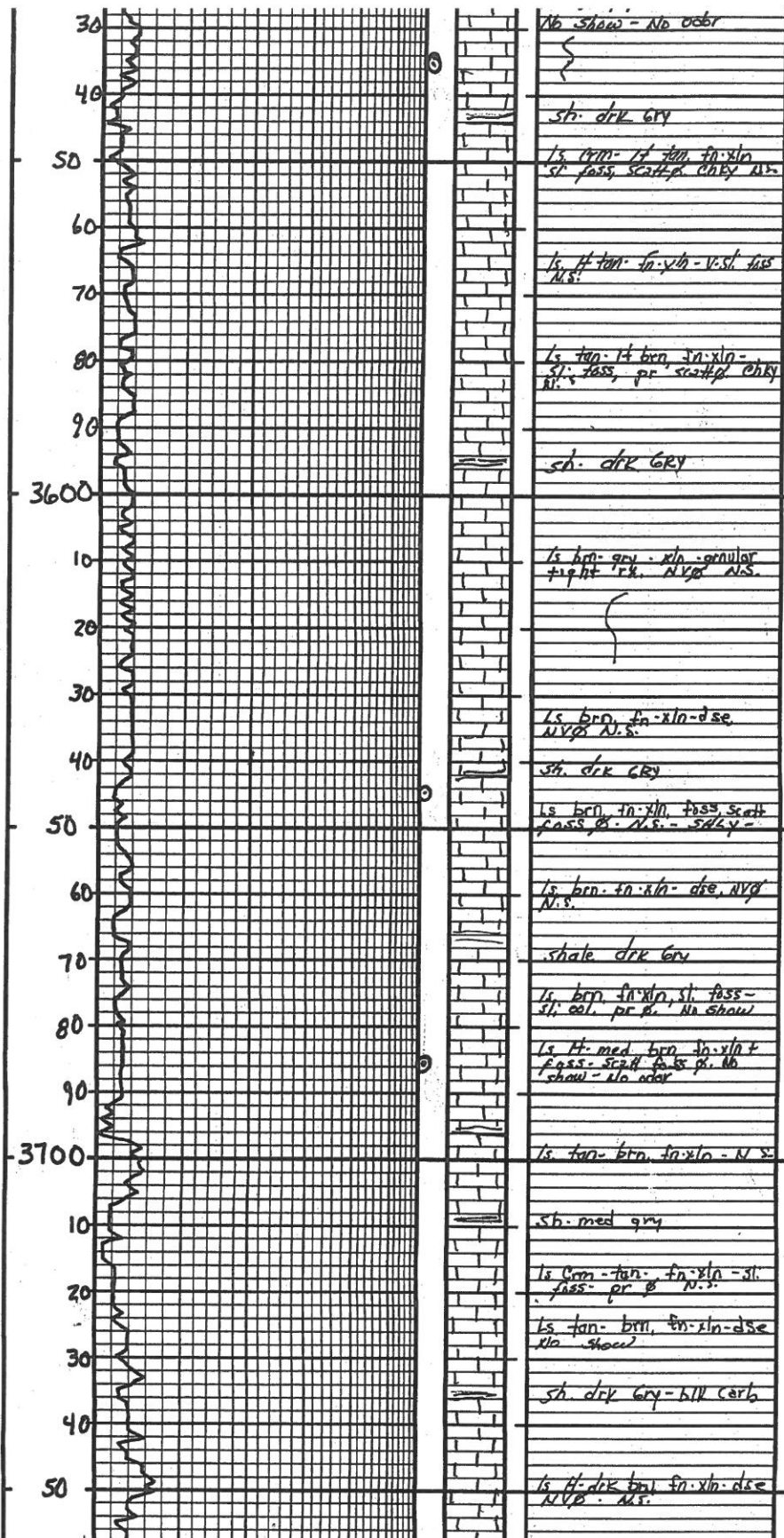


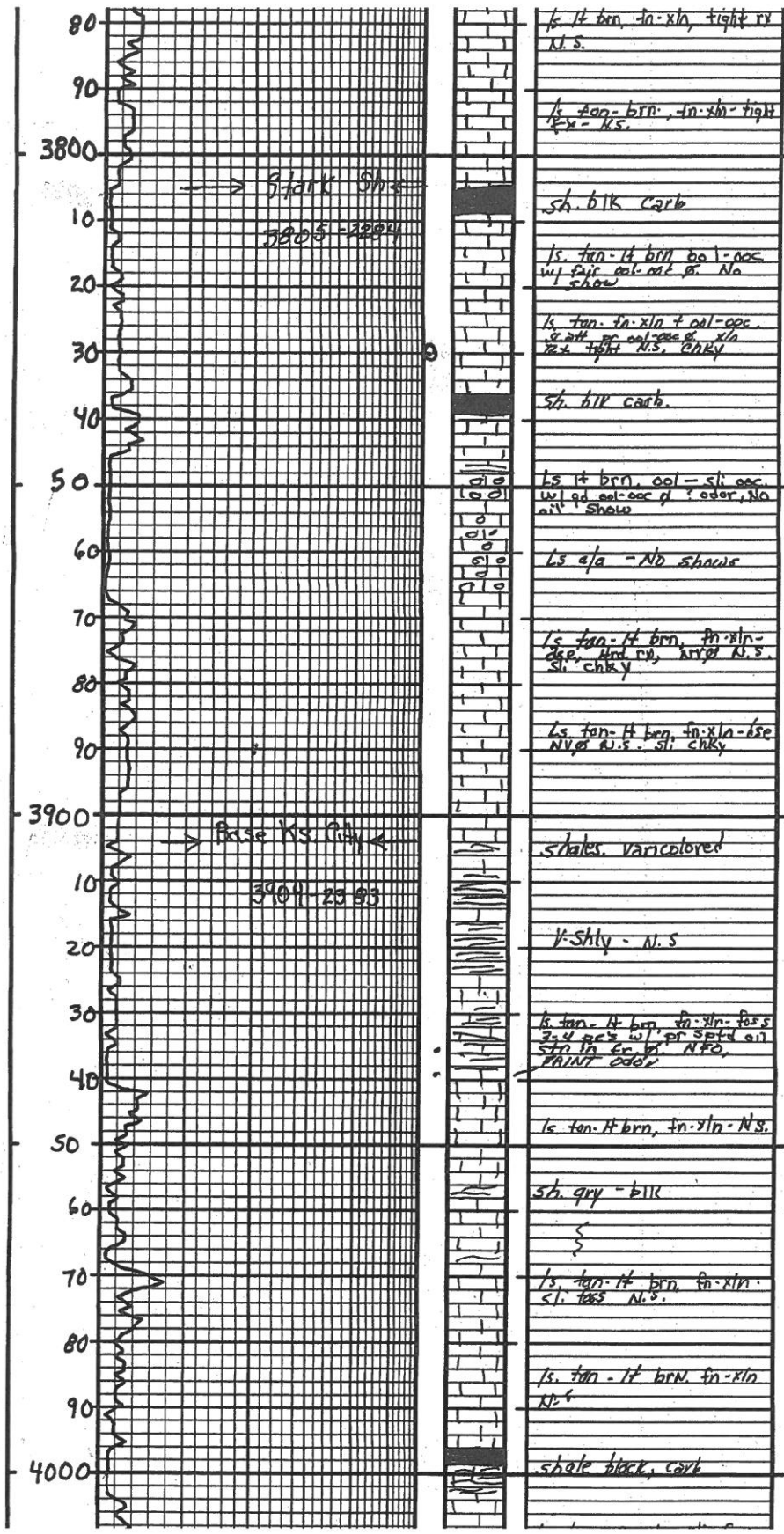
CORRECTION

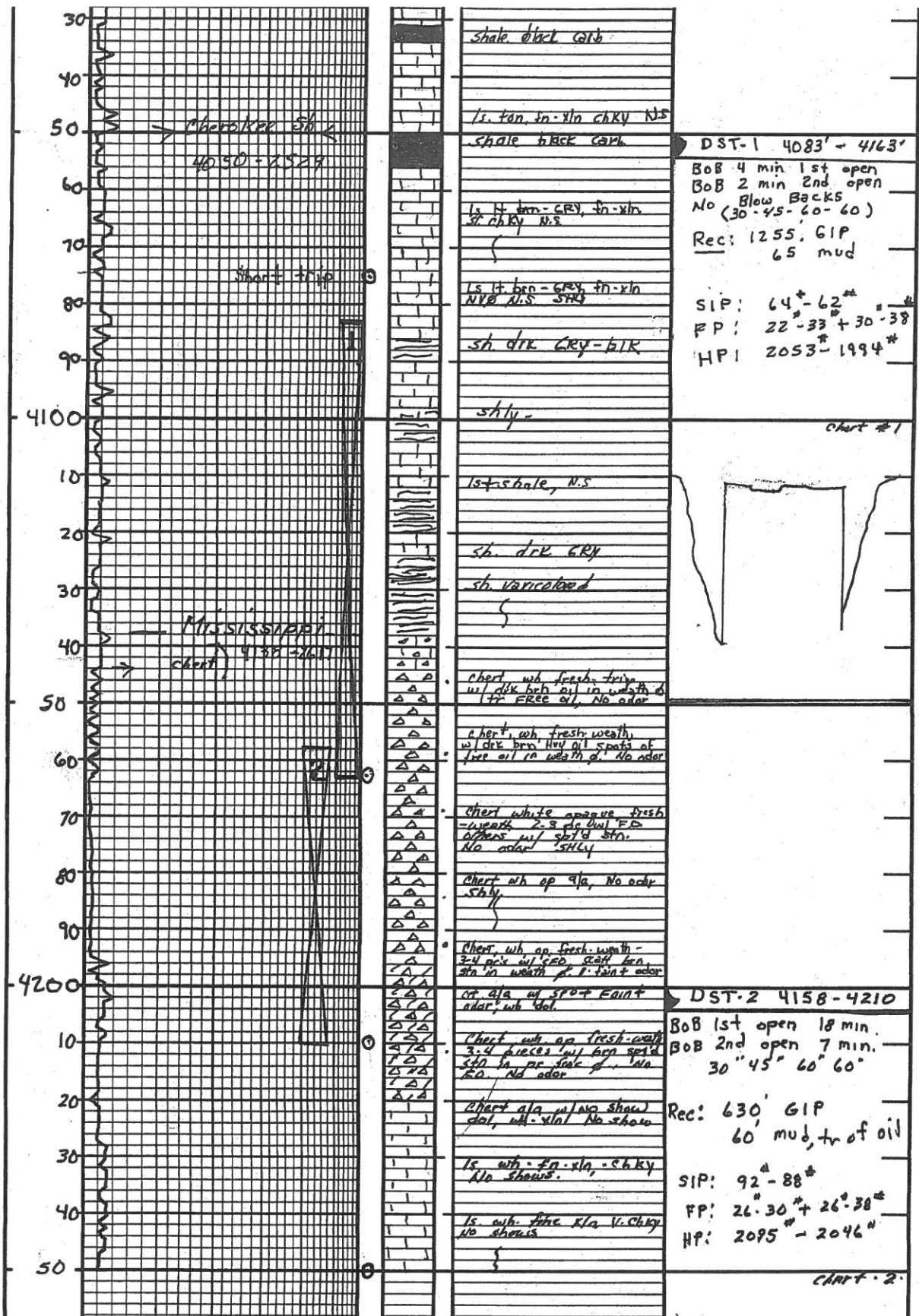
Healy shale
3110 - 3120

Scout pick









DEPTH	DRILLING TIME Minutes/Foot 5" 10" 15" 20" 25" Rate of Penetration Increases	LITHOLOGY	SAMPLE DESCRIPTIONS	REMARKS

COMPANY Bear Petroleum LLC.
 LEASE Higgins "B"-1
 LOCATION Sw Se Nw Sw SEC. 10 TWP 30S RNG 8W
 COUNTY Kingman STATE Kansas

ELEVATION: 1521' K.B.