



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1065681

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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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> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Big Chief 2
Doc ID	1065681

All Electric Logs Run

Sector Bond / Gamma Ray CCL Log
Compensated Density / Neutron PE Log
Dual Induction Log
Geological Log

Form	ACO1 - Well Completion
Operator	Chieftain Oil Co., Inc.
Well Name	Big Chief 2
Doc ID	1065681

Tops

Name	Top	Datum
Heebner	3829	-2425
Lansing	4370	-2966
Cherokee	4747	-3343
Mississippian	4814	-3410
Kinderhook	5049	-3645
Chattanooga	5130	-3726
Misener	5153	-3749
Maquoketa	5160	-3756
Viola	5210	-3807
Total Depth	5300	-3896

Arden Ratzlaff

PETROLEUM GEOLOGIST

Phone: 262-8938

107 N. Market 808 Bitting Bldg. Wichita, KS 67202

DRILLING TIME AND SAMPLE LOG

COMPANY CHIEFTAIN OIL CO., INC.

LEASE BIG CHIEF No. 2

FIELD STRANATHAN

LOCATION NE SW SW SW

SECTION 6 TOWNSHIP 35S RANGE 11W

COUNTY BARBER STATE KANSAS

CONTRACTOR HARDT DRILLING RIG NO. 1

COMMENCED DRILLING 3-17-11

COMPLETED DRILLING 3-30-11

RTD 5300 FEET LTD 5300 FEET

MUD UP AT 3364 FEET MUD TYPE CHEMICAL

ELEVATIONS

KB 1404

DF 1402

GL 1394

Measurements Are All
From K.B.

CASING

8 5/8" @ 331' W. 355 SX.

5 1/2" @ 3296' W. 275 SX.

ELECTRICAL SURVEYS


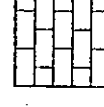
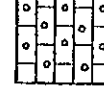
**SUPERIOR-GAMMA RAY DUAL
INDUCTION, COMPENSATED NEUTRON
DENSITY, S. P. & CALIPER**

REMARKS AFTER ANALYZING ALL OF THE PERTINENT INFORMATION OF THE ABOVE CAPTIONED WELL, IT WAS THE DECISION THAT CASING BE CEMENTED IN ANTICIPATION OF A VERY GOOD WELL.

Arden Ratzlaff, Petroleum Geologist

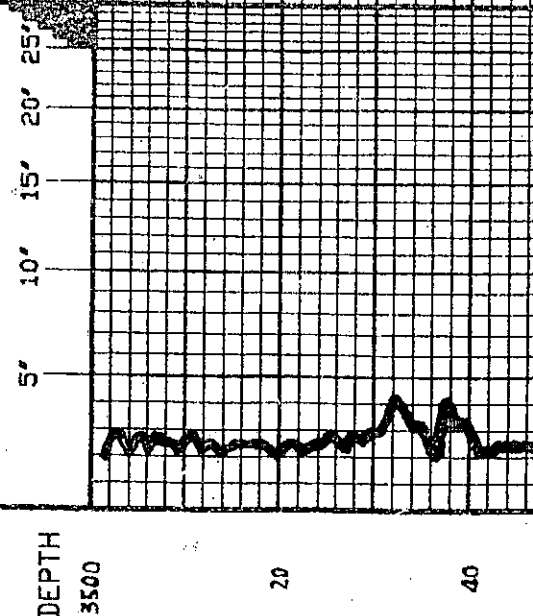
NOTE: NATIVE FURNISHED THE MUD ~ TRILOBITE FURNISHED THE DRILL-STEM TESTS ~ SAMPLES DEPOSITED AT THE K.G.S. SURVEY.

LEGEND

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb sh
-  Limestone Dol. Lime
-  Chert
-  Dolomite

DRILLING TIME IN MINUTES
PER FOOT

Rate of Penetration Increases



DEPTH
3500
20
40

LITHOLOGY



SAMPLE DESCRIPTIONS

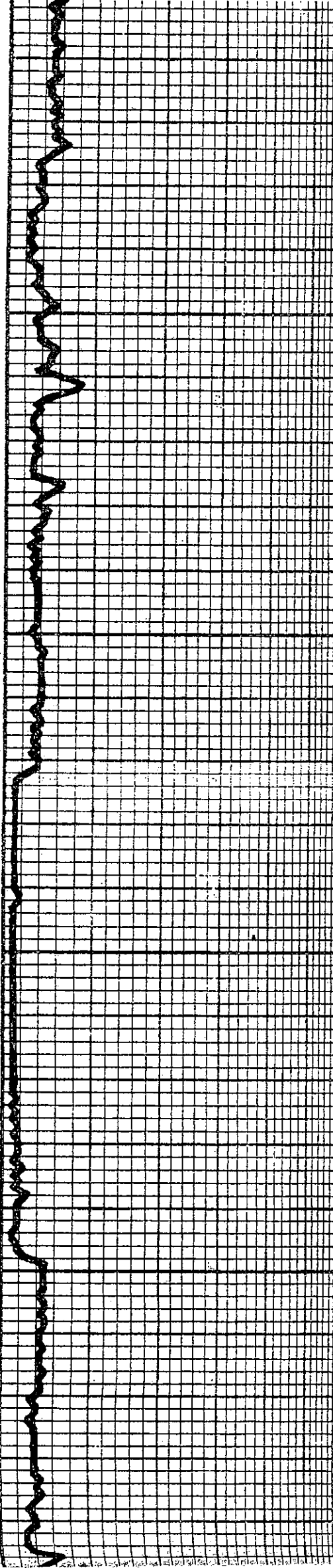
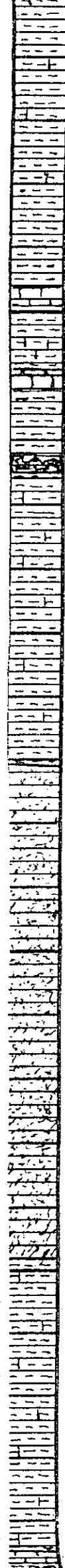
SAMPLES TO BE LOGGED - CAPTURED IN PERIOD
RIG IN USE BY OPERATOR
PRESENCE HARD LN.
SHEETS ABOVE
SAMPLES TO BE LOGGED - CAPTURED IN PERIOD
RIG IN USE BY OPERATOR
PRESENCE HARD LN.
11/20/11

FORMATION TOPS

SAMPLE

ELECTRIC LOG

HEEBNER	3829 (-2425)	3829 (-2425)
LANSING	4370 (-2966)	4370 (-2966)
CHEROKEE	4748 (-3344)	4747 (-3343)
MISSISSIPPIAN	4809 (-3405)	4814 (-3410)
KINDERHOOK	5049 (-3645)	5049 (-3645)
CHATTANOOGA	5128 (-3724)	5130 (-3726)
MISNER	5151 (-3747)	5153 (-3749)
MAQUOKETA	5158 (-3754)	5160 (-3756)
VIOLA	5211 (-3807)	5210 (-3807)
TOTAL DEPTH	5300 (-3896)	5300 (-3896)



SH. GRAY-GRN MED. & SM. DK. GRAY (DEN)
W/ SCAT. LIM. AS ABOVE

SAME AS ABOVE

SH. MED TO DK GRAY GRV. GRN. RIV. &
SCAT. RED. W/ SCAT. DK. GRAY. BAN. & TP
TAN. EN. YLN. DENSE. HARD. LIM.

SH. SILV. COBB. IN PART GRAY-GRN. MED.
TO DK. GRAY. SCAT. RED. W/ GRN. & DK. GRAY.
DENSE. HARD. LIM.

SAME AS ABOVE

SH. MED. TO DK. GRAY. GRV. GRN. RIV. (DEN)
& SCAT. RED. PLUS LIM. AS ABOVE

SH. SILV. (COBB.) GRV. GRN. MED. TO GRAY
& RED. W/ SCAT. BAN. & DK. GRAY. DENSE. LIM.
- SILT. AS 3700 - LAGGED. W.D.T.

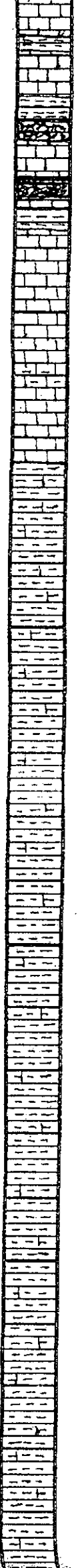
SAME AS ABOVE

SAME W/ INCREASE IN RED. SILT. TO
GRAY SILT.

SILT. IT. GRAY. W. RIV. SPX. EN. YLN. DENS.
W/ SCAT. PIECES. W/ TAN. CLEAR. SILT. -
BAND. OTT. GRAIN. INBAND. PREN. GOOD
FOR. ALS.

SH. MED. TO DK. GRAY. RIV. SM. GRAY-GRN. &
SCAT. RED. PLUS SILT. AS ABOVE

SAME W/ TAN. & DEN. EN. YLN. PREN.
DENSE. HARD. LIM.



20
40
60
80
3900
20
40
60
80
4000
20
40

**HEEBNER 3829
-2425**

SAME AS ABOVE W. V. SCAT. BLK. CAPS, SU

SIL. BLK. CAPS W. MED. TO DK. GRN. GRN. CON. S. TO GRN. SIL. D. IS. TAIL GRN. GRN. EN. YLN. PROD. DENSE. HARD LM.

SIL. AS ABOVE PLUS GRN. EN. YLN. PROD. DENSE. HARD LM. PLUS GRN. BLUE. LIT. GRN. EN. YLN. SUB. CH. VY. TO DENSE. MED. HARD LM.

LM. W/LL. GRN. BLUE. LIT. GRN. EN. YLN. SUB. CH. VY. TO CH. VY. TO DENSE. HARD.

SIL. MED. GRN. GRN. CON. TO GRN. BLK. (PART. CAPS) PLUS LM. AS ABOVE. V. SCAT. APPL. MED. GRN. EN. YLN. DENSE. HARD LM.

SIL. MED. GRN. GRN. CON. SCAT. BY GRN. LIT. BLK. PLUS V. SCAT. BY GRN. LIT. EN. YLN. PROD. DENSE. HARD LM.

SAME AS ABOVE

SIL. AS ABOVE PLUS TR. LM. AS ABOVE

SAME AS ABOVE

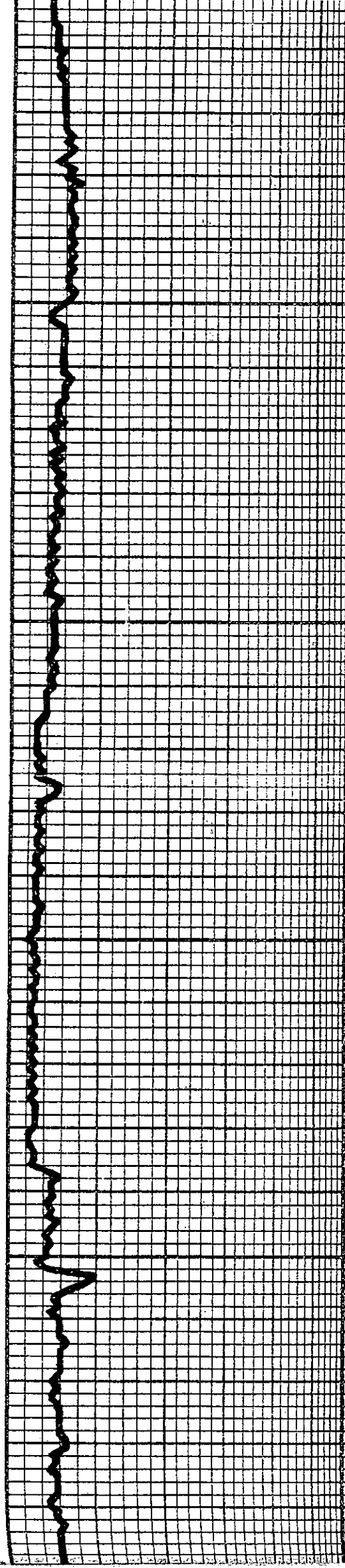
SIL. MED. GRN. GRN. CON. TO BLK. W/LL. SCAT. BLUE. TRAIL. GRN. SIL. PILKY. TO PROD. DENSE. HARD LM.

SOME AS ABOVE

SIL. MED. GRN. SCAT. GRN. CON. V. SCAT. BLK. V. SIL. SILTY. TEXT. IN PART. SOFT. TO MED. HARD. W. SCAT. BLUE. TRAIL. GRN. LM. AS ABOVE.

SAME W. INCR. IN GRN. GRN. SU. CONTENT.

60
80
4100
20
40
60
80
4200
20
40
60
80



SH. MED GRY. GRY-GRN & TR DK GRY TR
SILTY W BRN. EN YLN. DENSE. HARD LM

SH AS ABOVE W TRULY BRN MIXED IN
PART EN YLN. SUB-FULLY TO DENSE
HARD LM

SOME AS ABOVE

SH. MED GRY & GRY-GRN W SILTY W
SPOT LM AS ABOVE

SH AS ABOVE W SCOT BLUE TRN BRN
& TR GRY. DENSE DENSE HARD LM

SOME AS ABOVE

SH. MED TO DK GRY & SM GRY. GRN W
SCOT TRN & BRN. EN YLN. DENSE LM

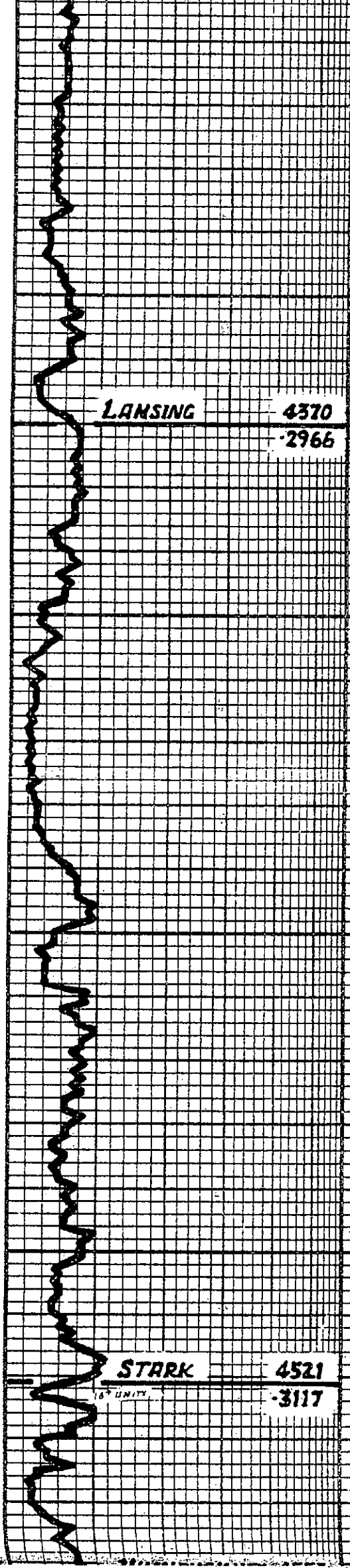
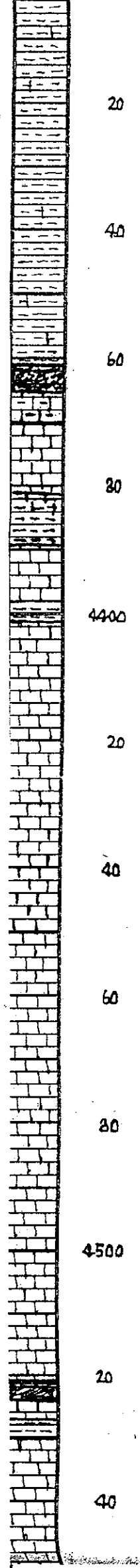
SOME AS ABOVE

SOME AS ABOVE

SH. MED TO DV GRY W SPOT GRY-GRN &
TR BLK

SH. MED TO DV GRY. GRY-GRN & BLK W
BLUE TRN & BRN. EN YLN. DENSE,
HARD & TR SILTY LM

SH. MED TO DV GRY. SCOT BLK TR SILTY
IN PART. EN YLN. BRN. EN
YLN. DENSE HARD LM



SAME AS ABOVE

SAME W/ LT GR. SILTY TO TR SOFT MUSHY SH.

SH-MED GR. SCOT GR. GRN & BK GR. & TR BK SH.

SH-BLK CARB & SM-MED GR. GR. GRN W. BLUE. GR. TAN & BRN. EN YLN. SUB-CHLY TO DENSE. HARD LM.

LM-BLUE GR. TAN & BRN. EN YLN. SUB-CHLY TO DENSE. HARD W. COVT. BLK CARB & SH AS ABOVE.

LM-CRM. BLUE GR. TAN & BRN. EN YLN. SUB-CHLY TO DENSE. HARD W. COVT. SH AS ABOVE.

LM-WH. CRM. BLUE GR. & TAN. SUB-CHLY TO DENSE. HARD. SUB-CHLY TO TR.

LM AS ABOVE W/ LT GR. FRESH. SUB-TRANS. SUB-CURT.

SAME AS ABOVE

LM-WH. CRM. BLUE GR. & TAN. EN YLN. CHLY & SUB-CHLY TO DENSE. HARD. CHLY & TR W/ THO. LM.

LM AS ABOVE. EN YLN. MED. CHLY. TR. CHLY TO DENSE & HARD. W/ COVT. & TR TAN. FRESH. SUB-CHLY. CURT.

SAME W. BLK CARB SH.

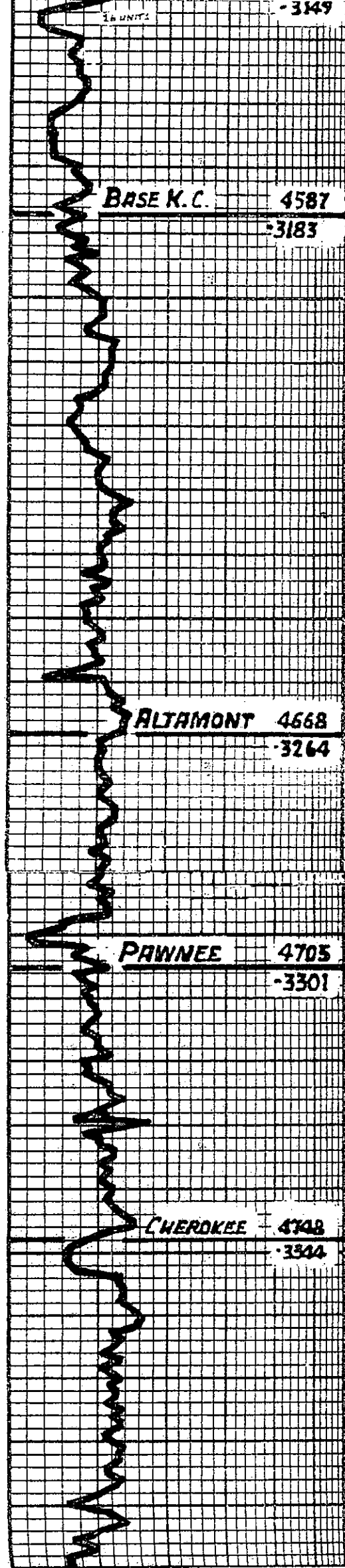
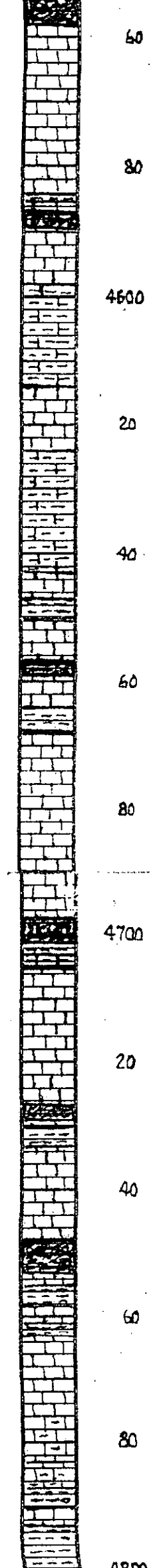
LM-CRM. BLUE GR. & TAN. EN YLN. SUB-CHLY & CHLY TO DENSE. HARD. W. MED. TO DK. GR. BLK/COVT. CARB. SH.

LANSING **4370**
2966

STARK **4521**
3117

DST No. 1 (4517-4509')
30-60-60-90
STRONG BLOW TO B.O.B. IN 40 SEC'S
(1st OPEN) GAS TO SURFACE 29 MIN'S
GAGE 29,000 DEPRTE TO 23,000 CF/D
IN 60 MIN'S (2nd OPEN)
REC: 105 FT OF GAS CLIT MUD &
80 FT MDY WTR (3,000 CHLOR)
ISIP/1781# F5IP/1734#
IFP/27-51# FFP/41-78#
TEMP = 116° F.
STRAIGHT HOLE SURVEY 4721'
DEVIATION = 3 3/4°
STRAP PIPE @ 4721'
STRAP 4695.60'
BOARD 4690.77'

DST 1



- 3149

SH. BLK. CARB. W/ INCL. COAL. BLUE GRAY
 & TON. EN. YIN. SUB-CHILKY & CHILKY TO
 U. DENSE & HARD

BASE K.C. 4587

- 3183

LM. BLUE GRAY. TAN. BRN. EN. YIN. SUB-
 CHILKY TO U. DENSE & HARD. W. SCOT. DK
 GRAY. BLK. CARB. SH.

4600

SH. WH. TO PRED. GRN. BLUE GRAY. TON.
 EN. YIN. SUB-CHILKY & TR. CHILKY TO
 DENSE & HARD. W. MED. GRAY. SCOT. GRAY.
 GRN. BLK. SH.

20

SH. MED. TO DK. GRAY. GRN. BRN. & GRN.
 IN. BLUE GRAY. TAN. EN. YIN. DENSE. HARD.
 LM. PLUS. 1. BLUE GRAY. TAN. EN. YIN. PRED.
 YIN. VILGY. LM. W. GOOD. BRN. (PERM.)
 W. BRN. STN. BRN. CO. S. BLUE. BLUE. GLOSSY
 OIL. PROBLETS. (SLOPE ZONE)

40

SH. MED. GRAY. GRN. GRAY. GRAY. & BLK.
 (CARB.) W. BLUE GRAY. TAN. EN. YIN.
 PRED. DENSE & HARD. LM. PLUS. Y. SCOT. LT.
 GRAY. & TR. TAN. FRESH. SUB. TRANSL. CHRT.

60

ALTAMONT 4668

- 3264

SH. AS ABOVE. PLUS. CONS. GRN. IN. BLUE
 GRAY. GRN. & STN. TRN. EN. YIN. SUB-CHILKY
 TO PRED. DENSE. HARD. LM.

80

LM. GRN. BLUE GRAY. GRN. TAN. & TR. BRN.
 EN. YIN. SUB-CHILKY TO DENSE & HARD.
 W. SH. AS ABOVE. PLUS. Y. SCOT. LT. GRAY.
 FRESH. SWRP. SUB. TRANSL. CHRT.

4700

PAWNEE 4705

- 3301

SH. BLK. CARB. MED. TO DK. GRAY. GRN. GRAY-
 GRN. IN. BLUE GRAY. TAN. & BRN. EN.
 YIN. PRED. DENSE. HARD. LM.

20

LM. BLUE GRAY. TAN. EN. YIN. SUB-CHILKY
 TO DENSE & HARD. W. SH. AS ABOVE. PLUS. Y.
 SCOT. LT. GRAY. FRESH. SWRP. SUB. TRANSL.
 CHRT.

40

CHEROKEE 4708

- 3300

PRED. SH. W. SCOT. BLUE GRAY. TAN. & TR.
 PRED. DENSE. HARD. LM. (DETR. D. S. T. R.)
 PLUS. BLK. CARB. SH.

60

LM. COAL. BLUE GRAY. TAN. EN. YIN. SUB-
 CHILKY TO DENSE & HARD. W. MED. TO
 TR. GRAY. GRAY. GRN. BLK. & TR. GRN. SH.

80

LM. BLUE GRAY. TAN. EN. YIN. SUB-CHILKY
 TO DENSE & HARD. W. SH. AS ABOVE.

4800

MISSISSIPPIAN 4809

3405

20

37 UNITS - SINTER OFF

(3890) CHRT. W/LL IT GRY. SGT TAN & BRN. SGT
DEVIT & WEATHERED W/ BOOR POP. BRN SMT
SGT OIL & GAS IN POP W/ DRED GOOD POP
IN WEATH & YNG CHRT - TAN & BRN SMT
(GRT IN PART) GAS BUBBLES & GRD OIL
DROPLETS / CAUSING STRONG TO LIVE
GASSY OIL DROPLETS - V GOOD ODR

40

84 UNITS

(3890) CHRT. W/LL IT GRY. EPOCH SUB-TRANG
TO SMT ODR W/ BIEFC W/ WEATH & DEVIT
EDGES W/ BRN SMT. COX GAS BUBBLES &
OIL DROPLETS & BRN COMP WEATH & YNG
POP. SGT TAN & BRN GAS BUBBLES & LIVE
OIL DROPLETS - V GOOD ODR

60

CHRT. AS ABOVE - STILL GOOD POP. AND
SGT TAN & BRN GAS BUBBLES. FREE OIL & V
GOOD ODR

80

96 UNITS

CHRT. GRY & W/LL EPOCH W/ DEVIT POP
GRADING TO DEVIT WEATH & YNG POP W/
SGT TAN & V GOOD POP. BRN GAS BUBBLES
& BRN TAN & BRN OIL DROPLETS - GOOD ODR

4900

CHRT. CHRT. AS ABOVE - STILL GOOD SHOW
(OIL POP STRENGTH) AND OIL & GAS BUBBLES.
PLUS V BRN GRY & TAN. EN YNG. DRED
DENSE. HARD & DOLD - M. GOOD ODR

20

IM-DOLD IN PART. BUFE. GRY & TAN. EN YNG.
SUB-CHLVY TO DRED DENSE & HARD ---
STILL CONS. CHRT. AS ABOVE - FAIR ODR

40

DOLD. LTY. BUFE. GRY & TAN. EN YNG.
DRED. DENSE & HARD. DOLD. DOLD. DOLD. DOLD.
TO BUFE. GRY. EPOCH. SUB-TRANG.
CHRT. & SMT. DOLD. DOLD. - WEDY ODR

60

TAN. LTY. GRY. BUFE & TAN. EN YNG. TO
DOLD. TO DENSE & HARD

80

DOLD. S. W. DOLD. LTY & SMT. MED. GRY. EN YNG.
SUB-CHLVY TO DRED DENSE & HARD. W/LL &
MED. GRY & TR. GRN. SW

5000

SH. MED. TO DY. GRY & BLK (GRT. IN PART)
W/ V. SGT. DOLD. DOLD. DOLD. AS ABOVE ---
POOR TALE - NOT REPRESENTATIVE!

20

SH. MED. GRY. GRY. GRN. BLK. W/ TR. GRN.
& MED. W/ V. SGT. DOLD. DOLD. AS ABOVE
POOR TALE

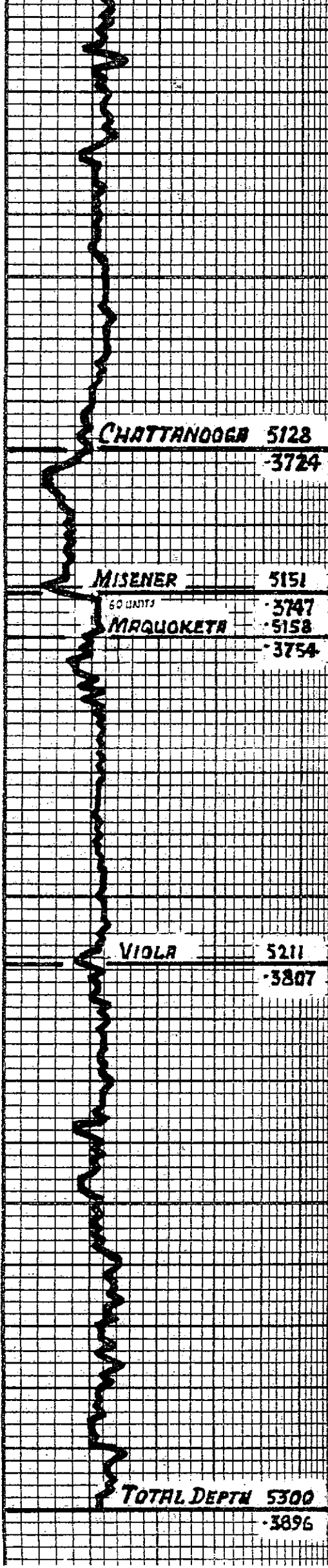
40

DOLD. GRY & GRY. BRN. EN YNG. TO SGT.
YNG. & BRN. DOLD. DOLD. TO GRN. & IT
GRY. EN YNG. DOLD. PLUS. BRN. MED. DY.
GRY. BLK. & GRY. GRN. SW

KINDERHOOK 5089

DOLD. AS ABOVE. EN YNG. DOLD. DOLD. IN PART
W/ SGT. BUFE & TAN. EN YNG. SUB-CHLVY
DRED DENSE. HARD. DOLD. AS ABOVE

60
80
5100
20
40
60
80
5200
20
40
60
80
5300



SU-MED TO BK GRY BLK SGT GRY-GRN
L TO GRN TO SPINTRY TO GRY & MDR.
MIXED IN PART SGT DOL AS ABOVE

SU AS ABOVE W/ STH BROWNISH-BLK SIL &
INCR SPINTRY SH

SU-MED GRY GRY-GRN SGT BLK TO GRN
& TO BROWN-BLK AS ABOVE

SU AS ABOVE W/ CHRT LIM & DOLA AS UP.
HOLE-POOR SAMPLES-LOW USE.

SU-BLK & BROWN-BLK, COPR (P. GAS
RIBBLES) SIL-DOLA BLK & SPARS

(S) SDST-IT GRY W/ BLK SGT'S ENGRAINED
SUB-ANG TO WELL-RINDB OTT GRDING
FRI. FRI. FOR GAS BUBBLES & THIN
OIL DROPLETS, WHEN BROKEN (NEED) MEAN
RIGHT WHITE GOLD FLUR. FRI. ODR.

PREP MED TO BK GRY SIL W/ GRY-GRN
W/ RED. GRAL & BLK SH'S W/ SGT GRN
BLUE GRY & TAN EN YIN. SUB-CHLKY TO
DENSE HARD LIM & W/ SGT W/ L
LIT GRY. PREP FRESH CHRT & TP
W/ SGT & BK GRY & BKN. STN. NO EPAC
OIL. GR. OR ODR.

SAME PREP SU W/ SGT DK BKN. SIL YIN
DENSE HARD LIM

PREP SU SIL GRY. CHLKY IN PART W/ SGT
W/ LIT GRY GRN & TAN EN YIN. SUB-
CHLKY & TP CHLKY TO SGT DENSE HARD LIM.

LIM. W/ LIT GRN. EN YIN. CHLKY & SUB-
CHLKY IN GRN. BLUE GRY & TAN EN
YIN. SUB-CHLKY TO DENSE HARD LIM.

LIM. W/ LIT GRN. BLUE LIT GRY. TAN & BKN.
EN YIN. CHLKY & SUB-CHLKY TO DENSE &
HARD - STILL GRY. CALC SH.

LIM AS ABOVE W/ LIT GRY & TAN W/ SGT DK
SGT'S (MICRO-ORGANISMS). FRESH. THIN
CHRT CHRT.

LIM. GRN. BLUE LIT GRY. EN YIN. SUB-
CHLKY & IMP. HARD W/ GRY. TAN & BKN. EN
YIN. V. DENSE. HARD. CHRT & LITHO LIM.

(5300) LIM. BLUE GRY. TAN & BKN. EN YIN. PREP
V. DENSE. HARD. W/ CHRT AS ABOVE. DOLA
V. SGT. W/ LIT GRY. FRESH. PREP. SUB-
TRAC. TO COPR CHRT.

DST No 2 (5143-5158)
30-45-90-90
STRONG BLOW B.O.B. 12 SEC'S
20 MIN'S 131,000 CF/D
30 " 138,000 "
STRONG BLOW B.O.B. (2nd OPEN)
10 MIN'S 158,000 CF/D
30 " 192,000 "
50 " 205,000 "
70 " 144,000 "
90 " 131,000 "
REC. 40' MUD W/ TR OF OIL
15IP/2000# F5IP/2056 #
1FP/28-30# FFP/24-29 #
TEMP = 123°F.



STRAIGHT HOLE SURVEY 5158'
DEVIATION = 3/4°

STRAIGHT HOLE SURVEY 5300
DEVIATION = 1°



PAGE 1 of 1	CURT NO 1000719	INVOICE DATE 03/18/2011
INVOICE NUMBER 1718 - 90549441		

Pratt (620) 672-1201
 B CHIEFTAIN OIL COMPANY
 I PO Box: 124
 L KIOWA
 L KS US 67070
 T
 O ATTN:

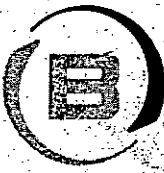
J LEASE NAME Big Chief 2
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40297255	19905		Net - 30 days	04/17/2011

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 03/17/2011 to 03/17/2011</i>				
0040297255				
171803419A Cement-New Well Casing/Pi 03/17/2011 13 3/8" Conductor				
60/40 POZ	355.00	EA	9.00	3,194.99 T
Cello-flake	89.00	EA	2.78	246.98 T
Calcium Chloride	918.00	EA	0.79	722.93 T
Unit Mileage Charge-Pickups, Vans & Cars	50.00	HR	3.19	159.38
Heavy Equipment Mileage	100.00	MI	5.25	525.00
Proppant and Bulk Delivery Charges	765.00	MI	1.20	918.00
Depth Charge 0-500'	1.00	HR	750.00	750.00
Blending & Mixing Service Charge	355.00	MI	1.05	372.75
Supervisor	1.00	HR	131.25	131.25

ENTERED
 MAR 21 2011
 912/BC

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	7,021.28
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	304.04
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	7,325.32
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 03419 A

DATE _____ TICKET NO. _____

DATE OF JOB: <u>3-17-11</u> DISTRICT: <u>PRA TT KS</u>	NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO. _____
CUSTOMER: <u>Chieftain Oil</u>	LEASE: <u>Big Chief</u> WELL NO. <u>2</u>
ADDRESS _____	COUNTY: <u>BARBER</u> STATE: <u>KS</u>
CITY _____ STATE _____	SERVICE CREW: <u>Sullivan, Metcal, McGraw</u>
AUTHORIZED BY _____	JOB TYPE: <u>PNW 13 3/8 COVA.</u>

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>19903-19905</u>	<u>35</u>	<u>19826-19840</u>	<u>35</u>				<u>3-17-11</u>	AM	<u>5:00</u>
								PM	<u>6:30</u>
<u>19866</u>								AM	<u>10:55</u>
								AM	<u>11:30</u>
								AM	<u>12:00</u>
						MILES FROM STATION TO WELL			<u>50</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Scott C Adelman
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 p02 cement	SK	355		4,260.00
CC 102	Caltake	lb	89		329.30
CC 109	Calcium chloride	lb	918		963.90
E 100	Dicks milyn	mi	50		212.50
E 101	Heavy Egnat milige	mi	100		700.00
E 113	Bank Delay	TON	765		1,224.00
CE 200	Depth charge 0-500'	SA	1		1,000.00
CE 240	Blending - mixing	SK	355		497.00
S003	Savant Superoxide	SA	1		175.00

CHEMICAL / ACID DATA:		

SUB TOTAL				
SERVICE & EQUIPMENT	%TAX ON \$			
MATERIALS	%TAX ON \$			
TOTAL		<u>7,021.28</u>		

SERVICE REPRESENTATIVE: Robert Jellison
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Scott C Adelman
FIELD SERVICE ORDER NO. _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

Customer Chietan Oil	Lease No.	Date 3-17-11
Lease Big-Chief	Well # 2	
Field Order # 3479	Station	Casing 13 3/8
		Depth 331'
Type Job CNW 13 3/8 cond.	Formation	County BARBER
		State KS
		Legal Description 6-35-11

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
13 3/8							Max	5 Min.
Depth 331	Depth	From	To	Pre Pad			Min	10 Min.
Volume 48 1/2	Volume	From	To	-Pad			Avg	15 Min.
Max Press 500	Max Press	From	To	Frac			HHP Used	Annulus Pressure
Well Connection 2 1/2"	Annulus Vol.	From	To	Flush			Gas Volume	Total Load
Plug Depth 311'	Packer Depth	From	To					

Customer Representative	Station Manager DAVE SCOTT	Treater Robert Fullum
-------------------------	-----------------------------------	------------------------------

Service Units	19866	19903	19905	19826	19860				
Driver Names	Sullivan	Metal	M. McALW	Burgardt					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
0700					ON loc Softy mdrdy
					RWD 8 STS 13 3/8 CS
1040 Am					CASING ON BOTTOM
1045					Hook Up TO Circ.
1055			3	3	At SPACON
			76	5	At mix cmt 355 sk 60/40 p02
				5	At Disp
1130 Am	300	48 1/2			plug down
					circulated 15 BBL cmt TO pit
					SOB complete
					Thank you



PAGE	CRAT NO	INVOICE DATE
1 of 1	1000719	04/01/2011
INVOICE NUMBER		
1718 - 90562354		

Pratt (620) 672-1201
 B CHIEFTAIN OIL COMPANY
 I PO Box: 124
 L KIOWA
 L KS US 67070
 T
 O ATTN:

J LEASE NAME Big Chief 2
 O LOCATION
 B COUNTY Barber
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE	
40303029	19905		Net - 30 days	05/01/2011	
<i>For Service Dates: 03/31/2011 to 03/31/2011</i>					
0040303029					
ENTERED APR 02 2011 9121BG					
171803860A Cement-New Well Casing/Pi 03/31/2011 Longstring					
		QTY	U of M	UNIT PRICE	
				INVOICE AMOUNT	
AA2 Cement		255.00	EA	12.75	3,251.24 T
De-foamer (Powder)		48.00	EA	3.00	144.00 T
Salt (Fine)		1,264.00	EA	0.38	474.00 T
Gas-Blok		240.00	EA	3.86	927.00 T
FLA-322		192.00	EA	5.63	1,080.00 T
Gilsonite		1,275.00	EA	0.50	640.69 T
CS-1L KCL Substitute		5.00	EA	26.25	131.25 T
Mud Flush		500.00	EA	0.65	322.50 T
Super Flush II		500.00	EA	1.15	573.75 T
Latch Down Plug & Baffle 5 1/2" (Blue)		1.00	EA	300.00	300.00
Auto Fill Float Shoe 5 1/2" (Blue)		1.00	EA	270.00	270.00
Turbolizer 5 1/2" (Blue)		7.00	EA	82.50	577.50
5 1/2" Basket (Blue)		2.00	EA	217.50	435.00
Unit Mileage Charge-Pickups, Vans & Cars		50.00	HR	3.19	159.38
Heavy Equipment Mileage		100.00	MI	5.25	525.00
Proppant and Bulk Delivery Charges		600.00	MI	1.20	720.00
Depth Charge; 5001-6000'		1.00	HR	2,160.00	2,160.00
Blending & Mixing Service Charge		255.00	MI	1.05	267.75
Plug Container Utilization Charge		1.00	EA	187.50	187.50
Supervisor		1.00	HR	131.25	131.25

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	13,277.81
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	550.74
PO BOX 841903	PO BOX 10460	INVOICE TOTAL	13,828.55
DALLAS, TX 75284-1903	MIDLAND, TX 79702		



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

6-355-11W

FIELD SERVICE TICKET
1718 03860 A

DATE _____ TICKET NO. _____

DATE OF JOB: 3-31-11		DISTRICT: Pratt, Kansas		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/>		WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: Chieftrain Oil Company, Incorporated						LEASE: Big Chief			WELL NO. 2		
ADDRESS:						COUNTY: Barber			STATE: Kansas		
CITY:						SERVICE CREW: C. Messick, M. Mattal, M. McGraw					
AUTHORIZED BY:						JOB TYPE: C.U.W. - Longstring					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED		DATE: 3-31-11	TIME: 5:30 AM		
37,216	1					ARRIVED AT JOB			8:45 AM		
19,903-19,905	1					START OPERATION			3:00 AM		
19,826-19,860	1					FINISH OPERATION			4:00 PM		
						RELEASED		3-31-11	4:15 AM		
						MILES FROM STATION TO WELL		50			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	AA2 Cement	sk	255		\$ 4,335.00
CC 105	Defoamer	Lb	48		\$ 192.00
CC 111	Salt (Fine)	Lb	1264		\$ 632.00
CC 115	Gas Blot	Lb	240		\$ 1,236.00
CC 129	FLA-322	Lb	192		\$ 1,440.00
CC 201	Gilsonite	Lb	1275		\$ 854.25
CF 607	Latch Down Plug and Baffle, 5 1/2"	ea	1		\$ 400.00
CF 1251	Auto Fill Float Shoe, 5 1/2"	ea	1		\$ 360.00
CF 1651	Turbolizer, 5 1/2"	ea	1		\$ 770.00
CF 1901	Basket, 5 1/2"	ea	2		\$ 580.00
C 704	CS-1L, KCL	Gal	5		\$ 175.00
CC 151	Mud Flush	Gal	500		\$ 430.00
CC 155	Super Flush II	Gal	500		\$ 765.00

SUB TOTAL
DLS

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: <i>Lawrence R. Messick</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
--	---

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 ~~03861~~ A

Continuation

6-355-11W

DATE TICKET NO. 3,260

DATE OF JOB: 3-31-11	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.
CUSTOMER: Chieftain Oil Company, Incorporated		LEASE: Big Chief				WELL NO. 2	
ADDRESS		COUNTY: Barber		STATE: Kansas			
CITY		STATE		SERVICE CREW: C. Messick, M. Mattal, M. McGraw			
AUTHORIZED BY		JOB TYPE: C.N.W. - Longstring					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM PM TIME
						ARRIVED AT JOB	AM PM
						START OPERATION	AM PM
						FINISH OPERATION	AM PM
						RELEASED	AM PM
						MILES FROM STATION TO WELL	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
E 100	Pickup Mileage	mi	50		\$ 212.50
E 101	Heavy Equipment Mileage	mi	100		\$ 700.00
E 113	Built Delivery	tm	600		\$ 960.00
CE 206	Cement Pump: 5,001 Feet To 6,000 Feet	hrs	4		\$ 2,880.00
CE 240	Blending and Mixing Service	sh	255		\$ 357.00
CE 504	Plug Container	Job	1		\$ 250.00
S 003	Service Supervisor	hrs	8		\$ 175.00

SUB TOTAL

PLS \$13,277.81

CHEMICAL / ACID DATA:

SERVICE & EQUIPMENT

%TAX ON \$

MATERIALS

%TAX ON \$

TOTAL

SERVICE REPRESENTATIVE: *R. M. Messick*

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

[Signatures]

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASIC

energy services, L.P.

TREATMENT REPORT

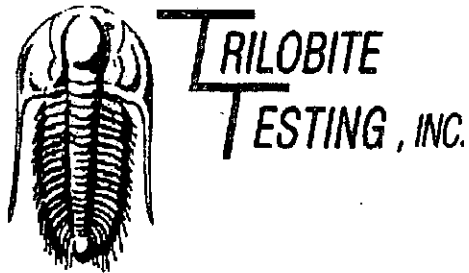
Customer Chieftain Oil Company, Incorporated	Lease No. Well # 2	Date 3-31-11
Lease Big Chief	Field Order # 3860	Station Pratt, Kansas
Type Job C.N.W.-Longstring	Casing 5 1/2 15.5 Lb	Depth 5,299 Feet
	County Barber	State Kansas
	Formation	Legal Description 6-355-11W

PIPE DATA		PERFORATING DATA		MATERIALS USED		TREATMENT RESUME	
Casing Size 5 1/2 15.5 Lb/ft	Tubing Size 6 1/2 17.5 Lb/ft	Shots/Ft	225 sacks AA2 with	RATE	PRESS	ISIP	Defoamer,
Depth 5,299 Feet	Depth	From	18 Gas Blk, 108 Salt, 5	Max	322	28	5 Min.
Volume 26.1 Bbl	Volume	From	To 15 Lb/Gal., 5.94 Gal./s	Min	1.43	CU.F.T./st.	10 Min.
Max Press 1,400 PSI	Max Press	From	To	Avg			15 Min.
Well Connection Plug Container	Annulus Vol.	From	To 30 sacks of above blend	HHP Used	to plug Rat Hole		Annulus Pressure
Plug Depth 5.276 Feet	Packer Depth	From	To	Flush	125.6 Bbl 28 RCL	Gas Volume	Total Load

Customer Representative Ron Molz	Station Manager David Scott	Treater Clarence R. Messich
-------------------------------------	--------------------------------	--------------------------------

Service Units	37,216	19,903	19,905	19,826	19,860				
Driver Names	Messich	Mattal	Mc	Graw					

Time A.M.	Casing Pressure	Tubing Pressure	Bbbls. Pumped	Rate	Service Log
8:45					Trucks on location and hold safety meeting.
10:30					Hardt Drilling start to run Auto Fill Float Shoe, Shoe Joint with Latch Down Baffle screwed into collar and a total of 12 Joints new 15.5 Lb/Ft. 5 1/2" casing. A Basket was installed above collars #2 and #7. A Turbolizer was installed on collars #3, 5, 9, 12, 13, 15 and #16.
2:00					Casing in well. Circulate for 1 hour.
3:06	300		12	6	Start Mud Flush after pressure testing to 2,500
			24	6	start Fresh water spacer.
	300		36	5	start super Flush II.
3:16	400		39	5	start mixing 225 sacks AA2 cement.
	-0-		92		stop pumping. Shut in well. Wash pump and lines. Release Latch Down Plug. Open Well.
3:28	100		88	6.5	Start 28 RCL Displacement.
			125.6	5	Start to lift cement.
3:48	900				Plug down.
	1400				Pressure up.
					Release pressure. Float Shoe held.
			7	3	Plug Rat Hole.
					Wash up pump truck.
4:30					Job Complete.
					Thank You. Clarence, Mitte, Mitte



DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co.Inc.**

605 S.6th, P.O.Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

6-35s-11w Barber KS

Big Chief #2

Start Date: 2011.03.25 @ 20:06:47

End Date: 2011.03.26 @ 05:46:32

Job Ticket #: 041621 DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Chieftain Oil Co.Inc.

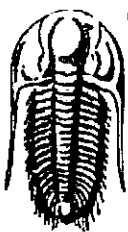
Big Chief #2

6-35s-11w Barber KS

DST # 1

Swopa

2011.03.25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Chieftain Oil Co. Inc.
 605 S.6th, P.O.Box 124
 Kiowa, KS 67070
 ATTN: Arden Ratzlaff

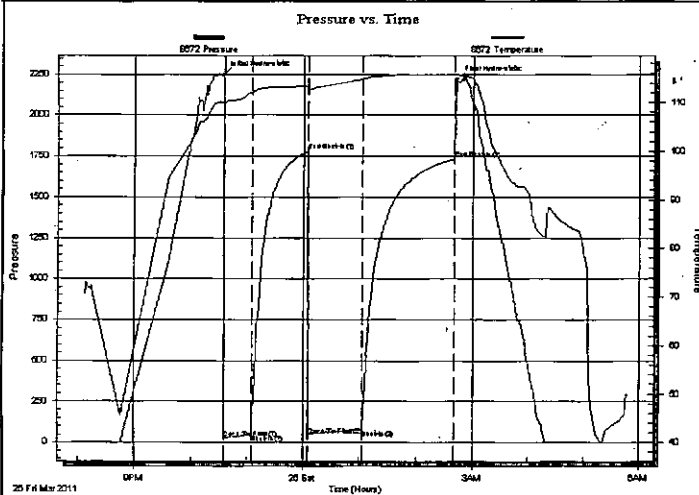
Big Chief #2
6-35s-11w Barber KS
 Job Ticket: 041621 **DST#: 1**
 Test Start: 2011.03.25 @ 20:06:47

GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:35:17
 Time Test Ended: 05:46:32
 Test Type: Conventional Straddle
 Tester: Gary Pavoteaux
 Unit No: 56
 Interval: 4517.00 ft (KB) To 4549.00 ft (KB) (TVD)
 Reference Elevations: 1404.00 ft (KB)
 Total Depth: 4721.00 ft (KB) (TVD)
 1394.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 KB to GR/CF: 10.00 ft

Serial #: 8672 Inside
 Press@RunDepth: 78.38 psig @ 4518.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.03.25 End Date: 2011.03.26 Last Calib.: 2011.03.26
 Start Time: 20:06:52 End Time: 05:46:32 Time On Btm: 2011.03.25 @ 22:34:02
 Time Off Btm: 2011.03.26 @ 02:42:47

TEST COMMENT: IF: Strong blow. B.O.B. in 40secs. GTS in 29 mins.
 IS: Weak blow. 1".
 FF: Strong blow. B.O.B. in 2 secs. (see gas flow report)
 FS: Weak blow. 1 - 1 1/2".



PRESSURE SUMMARY

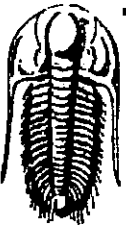
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2250.06	110.10	Initial Hydro-static
2	26.55	109.50	Open To Flow (1)
31	50.54	112.08	Shut-In(1)
91	1781.36	113.34	End Shut-In(1)
92	40.68	112.73	Open To Flow (2)
149	78.38	114.77	Shut-In(2)
247	1734.26	115.75	End Shut-In(2)
249	2219.91	115.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	MW 19% m 81% w / Rw .31ohms@50deg	0.39
105.00	GCM 12%g 88% m	1.11

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.25	5.00	30.78



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Chieftain Oil Co. Inc.
 605 S.6th, P.O.Box 124
 Kiowa, KS 67070
 ATTN: Arden Ratzlaff

Big Chief #2
6-35s-11w Barber KS
 Job Ticket: 041621 DST#: 1
 Test Start: 2011.03.25 @ 20:06:47

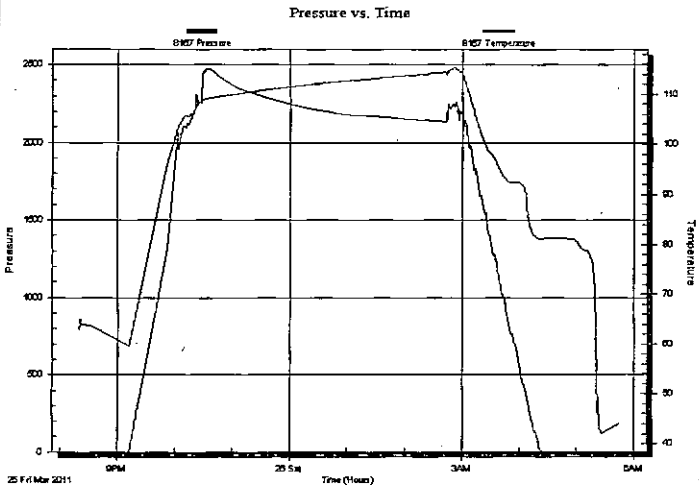
GENERAL INFORMATION:

Formation: **Swope**
 Deviated: **No Whipstock: ft (KB)**
 Time Tool Opened: **22:35:17**
 Time Test Ended: **05:46:32**
 Interval: **4517.00 ft (KB) To 4549.00 ft (KB) (TVD)**
 Total Depth: **4721.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Test Type: **Conventional Straddle**
 Tester: **Gary Pevoteaux**
 Unit No: **56**
 Reference Elevations: **1404.00 ft (KB)**
1394.00 ft (CF)
 - KB to GR/CF: **10.00 ft**

Serial #: 8167 Below
 Press@RunDepth: **psig @ 4550.00 ft (KB)**
 Start Date: **2011.03.25** End Date: **2011.03.26**
 Start Time: **20:20:10** End Time: **05:45:35**
 Capacity: **8000.00 psig**
 Last Calib.: **2011.03.26**
 Time On Btm:
 Time Off Btm:

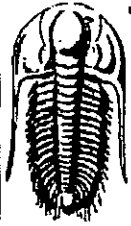
TEST COMMENT: IF: Strong blow. B.O.B. in 40secs. GTS in 29 mins.
 IS: Weak blow. 1".
 FF: Strong blow. B.O.B. in 2 secs. (see gas flow report)
 FS: Weak blow. 1 - 1 1/2".



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

Recovery		
Length (ft)	Description	Volume (bbl)
80.00	MV 19% m 81% w / Rw .31ohms@50deg	0.39
105.00	GCM 12%g 88% m	1.11

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.25	5.00	30.78



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co. Inc.

Big Chief #2

605 S.6th, P.O.Box 124
Kiowa, KS 67070

6-35s-11w Barber KS

Job Ticket: 041621

DST#: 1

ATTN: Arden Ratzlaff

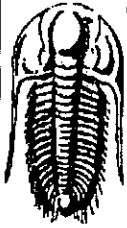
Test Start: 2011.03.25 @ 20:06:47

Tool Information

Drill Pipe:	Length: 4392.00 ft	Diameter: 3.80 inches	Volume: 61.61 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 27000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 62.20 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4517.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	4549.00 ft			
Interval between Packers:	32.00 ft			
Tool Length:	227.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			4495.00	
Shut in tool	5.00			4500.00	
HMV	5.00			4505.00	
Safety Joint	3.00			4508.00	
Packer	4.00			4512.00	23.00 Bottom Of Top Packer
Packer	5.00			4517.00	
Stubb	1.00			4518.00	
Recorder	0.00	8672	Inside	4518.00	
Recorder	0.00	8370	Outside	4518.00	
Perforations	27.00			4545.00	
Blank Off Sub	1.00			4546.00	
T.C.	3.00			4549.00	32.00 Tool Interval
Packer	0.00			4549.00	
Stubb	1.00			4550.00	
Recorder	0.00	8167	Below	4550.00	
Perforations	9.00			4559.00	
Blank Spacing	157.00			4716.00	
Bullnose	5.00			4721.00	172.00 Bottom Packers & Anchor
Total Tool Length:	227.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co. Inc.

Big Chief #2

605 S.6th, P.O.Box 124
Kiowa, KS 67070

6-35s-11w Barber KS

Job Ticket: 041621

DST#: 1

ATTN: Arden Ratzlaff

Test Start: 2011.03.25 @ 20:06:47

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:

31000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	MW 19% _m 81% _w / Rw .31ohms@50deg	0.393
105.00	GCM 12% _g 88% _m	1.108

Total Length: 185.00 ft

Total Volume: 1.501 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Chieftain Oil Co. Inc.
605 S.6th, P.O.Box 124
Kiowa, KS 67070

Big Chief #2

6-35s-11w Barber KS

Job Ticket: 041621

DST#: 1

ATTN: Arden Ratzlaff

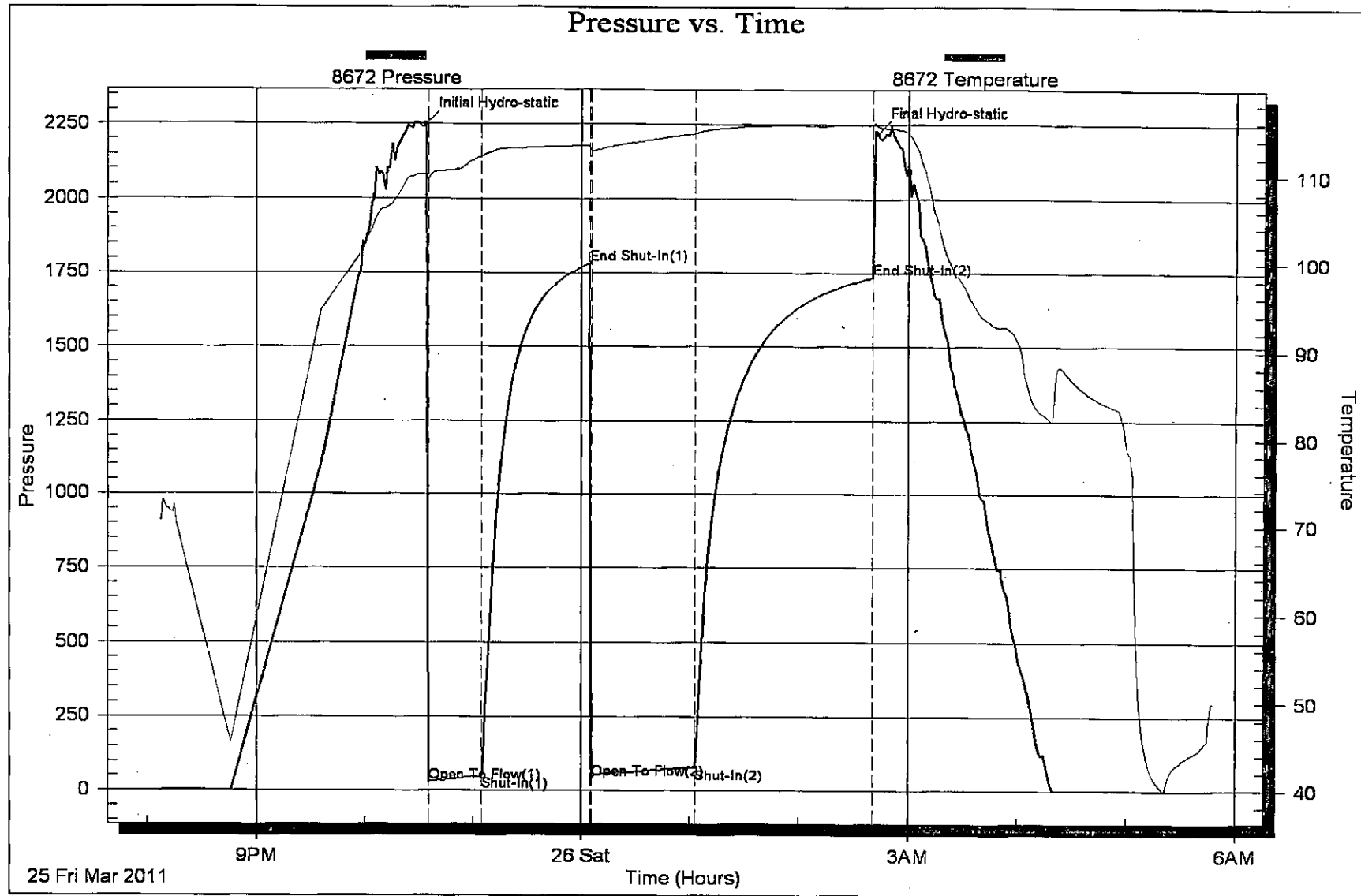
Test Start: 2011.03.25 @ 20:06:47

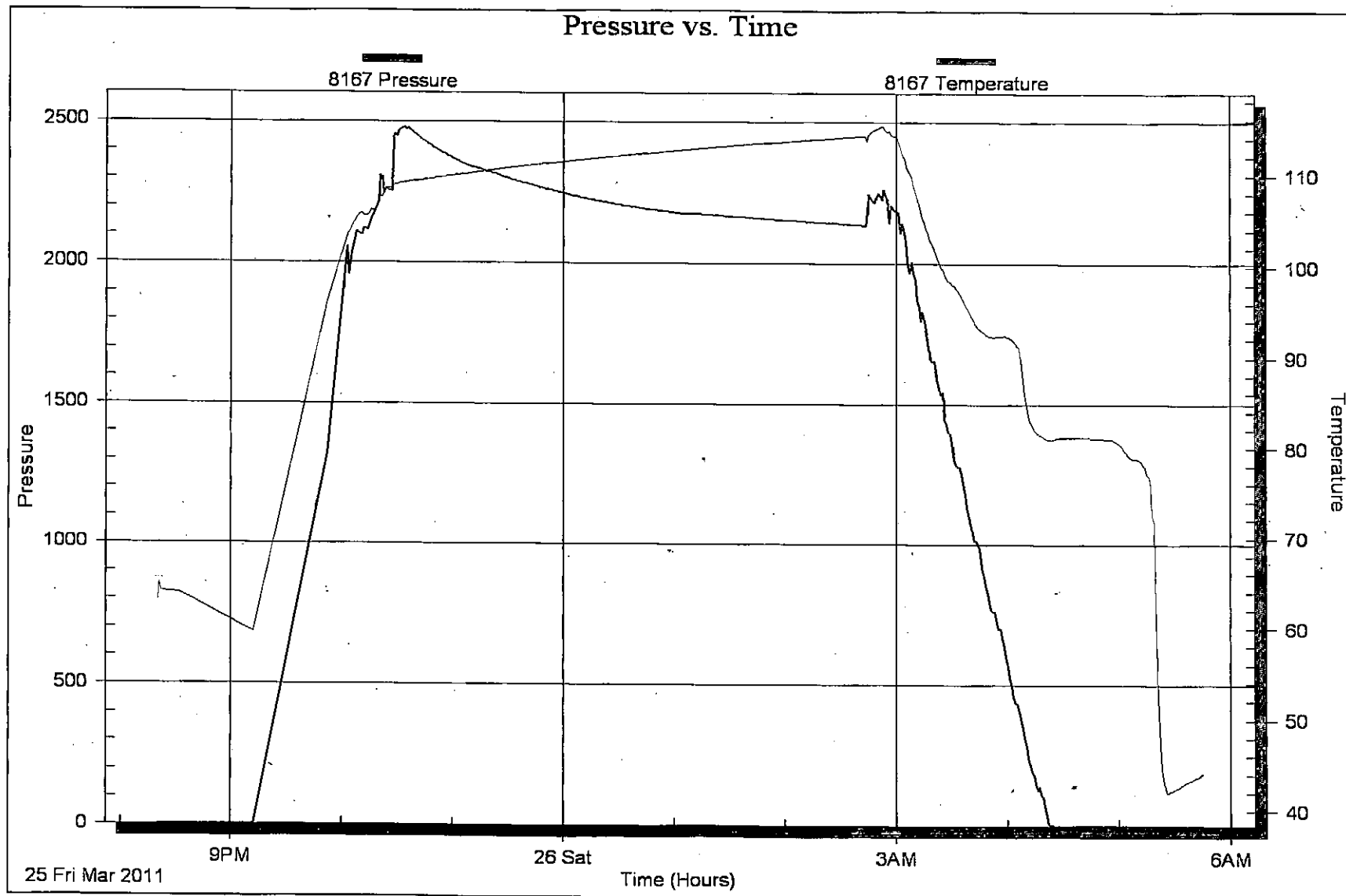
Gas Rates Information

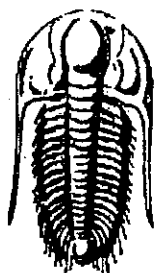
Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	5	0.25	5.00	30.78
2	5	0.25	5.00	30.78
2	10	0.25	3.00	27.60
2	20	0.25	2.00	26.02
2	40	0.25	1.00	24.43







**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Chieftain Oil Co.Inc.**

605 S.6th, P.O.Box 124
Kiowa, KS 67070

ATTN: Arden Ratzlaff

6-35s-11w Barber KS

Big Chief #2

Start Date: 2011.03.28 @ 10:30:47

End Date: 2011.03.28 @ 19:40:32

Job Ticket #: 041622 DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Chieftain Oil Co.Inc.

Big Chief #2

6-35s-11w Barber KS

DST # 2

Misener

2011.03.28



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Chieftain Oil Co. Inc.
 605 S.6th, P.O.Box 124
 Kiowa, KS 67070
 ATTN: Arden Ratzlaff

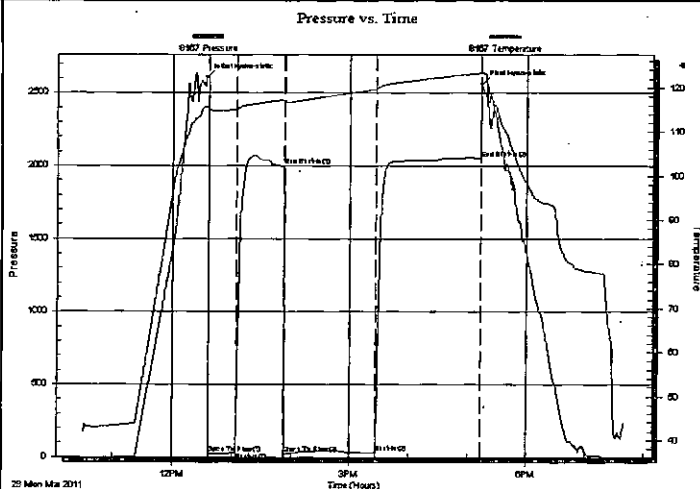
Big Chief #2
6-35s-11w Barber KS
 Job Ticket: 041622 **DST#: 2**
 Test Start: 2011.03.28 @ 10:30:47

GENERAL INFORMATION:

Formation: **Misener**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole**
 Time Tool Opened: 12:36:02
 Tester: **Gary Revoteaux**
 Time Test Ended: 19:40:32
 Unit No: **56**
 Interval: **5143.00 ft (KB) To 5158.00 ft (KB) (TVD)**
 Reference Elevations: **1404.00 ft (KB)**
 Total Depth: **5158.00 ft (KB) (TVD)**
1394.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 KB to GR/CF: **10.00 ft**

Serial #: 8167 **Inside**
 Press@RunDepth: **29.09 psig @ 5144.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.03.28** End Date: **2011.03.28** Last Calib.: **2011.03.28**
 Start Time: **10:30:52** End Time: **19:40:32** Time On Btm: **2011.03.28 @ 12:34:02**
 Time Off Btm: **2011.03.28 @ 17:13:32**

TEST COMMENT: IF: Strong blow . B.O.B. in 12 secs. GTS in 11 mins. (see gas flow report)
 IS: Strong blow . B.O.B.
 FF: Strong blow . (see gas flow report)
 FS: Strong blow . B.O.B.



PRESSURE SUMMARY

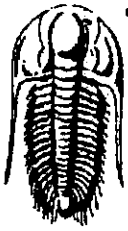
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2609.09	115.57	Initial Hydro-static
2	27.50	115.11	Open To Flow (1)
31	29.72	115.06	Shut-In(1)
79	1999.58	117.29	End Shut-In(1)
80	24.32	116.76	Open To Flow (2)
173	29.09	119.72	Shut-In(2)
279	2055.58	123.38	End Shut-In(2)
280	2561.46	123.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drig. mud w/trace of oil	0.20

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	5.00	130.87
Last Gas Rate	0.50	6.00	137.61
Max. Gas Rate	0.50	16.00	205.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Chieftain Oil Co. Inc.

Big Chief #2

605 S. 6th, P.O. Box 124
Kiowa, KS 67070

6-35s-11w Barber KS

Job Ticket: 041622

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2011.03.28 @ 10:30:47

Tool Information

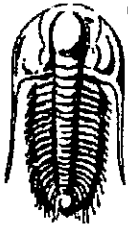
Drill Pipe:	Length: 5018.00 ft	Diameter: 3.80 inches	Volume: 70.39 bbl	Tool Weight: 2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 24000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 83000.00 lb
			<u>Total Volume: 70.98 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	5143.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			5121.00	
Shut in tool	5.00			5126.00	
HMV	5.00			5131.00	
Safety Joint	3.00			5134.00	
Packer	4.00			5138.00	23.00 Bottom Of Top Packer
Packer	5.00			5143.00	
Stubb	1.00			5144.00	
Recorder	0.00	8167	Inside	5144.00	
Recorder	0.00	8370	Outside	5144.00	
Perforations	9.00			5153.00	
Bullnose	5.00			5158.00	15.00 Bottom Packers & Anchor

Total Tool Length: 38.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Chieftain Oil Co. Inc.

Big Chief #2

605 S.6th, P.O.Box 124
Kiowa, KS 67070

6-35s-11w Barber KS

Job Ticket: 041622

DST#: 2

ATTN: Arden Ratzlaff

Test Start: 2011.03.28 @ 10:30:47

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:

5000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.59 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Drlg.mud w/trace of oil	0.197

Total Length: 40.00 ft

Total Volume: 0.197 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Chieftain Oil Co. Inc.
605 S.6th, P.O.Box 124
Kiowa, KS 67070

Big Chief #2
6-35s-11w Barber KS
Job Ticket: 041622 DST#: 2
Test Start: 2011.03.28 @ 10:30:47

ATTN: Arden Ratzlaff

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
1	20	0.50	5.00	130.87
1	30	0.50	6.00	137.61
2	10	0.50	9.00	157.85
2	20	0.50	12.00	178.09
2	30	0.50	14.00	191.58
2	40	0.50	16.00	205.07
2	50	0.50	16.00	205.07
2	60	0.50	13.00	184.83
2	70	0.50	7.00	144.36
2	80	0.50	6.00	137.61

