

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 31341  
Name: Ward Craig DBA Craig Oil Company  
Address 1: 15 S main  
Address 2: \_\_\_\_\_  
City: Russell State: KS Zip: 67665 + 2901  
Contact Person: Ward Craig  
Phone: (785) 483-1543  
CONTRACTOR: License # 33905  
Name: Royal Drilling, Inc.  
Wellsite Geologist: Francis C. Whisler

API No. 15 - 167-23730-00-00  
Spot Description: \_\_\_\_\_  
E2 SE SW SE Sec. 26 Twp. 15 S. R. 15  East  West  
330 Feet from  North /  South Line of Section  
1330 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Russell  
Lease Name: Bolte Well #: 2  
Field Name: Rooseveltdt

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.): \_\_\_\_\_

Producing Formation: \_\_\_\_\_  
Elevation: Ground: 1925 Kelly Bushing: 1932  
Total Depth: 3422 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 610' 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/ \_\_\_\_\_

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 #: \_\_\_\_\_  
9/6/11 9/11/11 9/12/11  
Spud Date or Date Reached TD Completion Date or Recompletion Date

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 5000 ppm Fluid volume: 400 bbls  
Dewatering method used: let pits dry & backfill  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Ward Craig  
Title: owner Date: 5-1-12

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution PLA  
ALT  I  II  III Approved by: Dig Date: 5/22/12

Operator Name: Craig Oil Company Lease Name: Bolte Well #: 2  
 Sec. 26 Twp. 15 S. R. 15  East  West County: Russell

**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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	946 +986
Electric Log Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Topeka	2873 -941
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Heebner	3103 -1171
List All E. Logs Run:		Toronto	3118 -1186
		Lansing	3161 -1229
		Base KansasCity	3387 -1455
		Weathered Arbuckle	3398 -1466
		Arbuckle	3416 -1484
		Total Depth	3422 -1490

CASING RECORD  New  Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	→ 23/Ft	610'	common	250	2% gel 35 CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

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

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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 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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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FRANCIS C. WHISLER  
Certified Petroleum Geologist  
837 East First St.  
Russell, Kansas

GEOLOGICAL REPORT FOR  
CRAIG OIL COMPANY, INC.  
Russell, Kansas  
Lic. No. 31341

BOLTE No. 2  
330 ft. From South Line &  
1330 ft. From East Line  
Sec. 26, T 15 S, R 15 W  
Russell County, Kansas  
API No. 15-167-23730-00-00

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Sept. 12, 2011

CRAIG OIL COMPANY, INC.  
Russell, Kansas

GEOLOGICAL REPORT:

Bolte No. 2  
330' FSL & 1330' FEL  
Sec. 26, T 15 S, R 15 W  
Russell County, Kansas

Contractor:

Royal Drilling, Inc.  
Russell, Kansas  
Lic. No. 33905

Drilling Commenced:

Sept. 6, 2011

Drilling Completed:

Sept. 11, 2011

Casing Record:

8 5/8" surface casing set at 610'  
cemented with 250 sacks cement.  
Production casing: NONE

Samples:

Saved and examined from 2850' to  
3422', RTD. Zones of interest are  
described in this report. Samples  
will be sent to Kansas Sample Bureau  
4150 Monroe St., Wichita, Kansas.

Drilling Time:

Recorded and plotted from 2850' to  
3422', RTD. A copy of the plotted  
drilling time/lithology log is inc-  
luded with this report.

Drillstem Tests:

3 by Trilobite Testing, Inc. of  
Hsys, Kansas.

Electric Logs:

NONE

Elevations:

Kelly Bushing: 1932  
Ground Level: 1925  
Measurements From: KB

Well Status:

Plugged and abandoned.

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FORMATIONS:

ROTARY  
DEPTHS:

SUBSEA  
DATUMS:

Anhydrite	946-76	+ 986
Topeka Lime	2873	- 941
Heebner Shale	3103	-1171
Toronto Lime	3118	-1186
Lansing-Kansas City	3161	-1229
Base Kansas City	3387	-1455
Weathered Arbuckle	3398	-1466
Arbuckle	3416	-1484
Total Depth	3422	-1490

LITHOLOGY: Zones of Interest & Drillstem Tests;

Topeka: Plattsmouth Section:

3024-3030: LS-white, light gray dense and psrtly oolitic with some dark oil stain. No value.

3039-3043: LS-white, light gray, chalky with rare light and dark oil stain. Very slight show of free oil and faint odor. No value.

3064-3068: LS-white slight fossiliferous with rare light oil stain. Very slight show free oil and faint odor. No value.

Toronto: LS-white, very dense with trace of light stain. No value.

Lansing-Kansas City:

3161-3170: LS-white, light gray, dense with no oil stain noted.

3181-3188: LS-white, dense and slight fossiliferous and oolitic with B zone porosity. Some white vitreous chert. Rare light oil stain with very slight show of free oil and odor. Tested by drillstem test #1.

3195-3200: LS-white, dense to fair fossiliferous and vuggy porosity. C zone Rare scattered light and dark oil stain. Very slight show of free oil and odor. Tested by drillstem test #1.

DRILLSTEM TEST No. 1: 3168 to 3200

Tool open 30 min.  
Tool shut in: 60 min.  
Tool open 30 min:  
Tool shut in: 60 min:

BOB 18 Min.  
BOB 28 min.

IFP: 17-73 psi  
IBHP: 658 psi  
FFP: 76-122 psi  
FBHP: 651 psi

Recovery:

85' of gas  
2' gassy oil  
215' gassy, muddy water

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Lithology & Test data, cont...

- 3252-3265: LS-White, dark gray& black oolitic dense with very dark oil stain & light oil stain. very slight show of free oil. Some white oolitic and oolitic barren porosity. No value.  
G zone
- 3305-3310: ls-white light gray dense, with some fine oolitic-oolitic porosity with rare light oil stain and faint odor. some barren porosity. Tested by drillstem test No.2.  
H zone
- 3320-3324; LS-dense to slight oolitic porosity with very rare light oil stain and faint odor. Tested by drillstem test No.2.  
I zone
- 3342-3248: LS-white, dense to chalky, some oolitic porosity with minor oil stain, no free oil or odor. Tested by drillstem test #2.  
J zone

DRILLSTEM TEST No. 2: 3290-3355:

Tool open 30 min. Blow to 10"	18-56 psi
Tool shut in 60 min.	432 psi
Tool open 30 min. blow to 7"	62-87 psi
Tool shut in 60 min.	416 psi

Recovery: 1 ft. of oil  
150 of muddy water

3369-3378: LS-white, light gray, dense with minor trace of oil stain.  
No value.

Weathered Arbuckle:

Samples were circulated at 3410' indicated a typical Conglomerate-Arbuckle mix, with abundant various colored shales and yellow red vitreous chert, small amount of white, very fine crystalline dolomite and some brown dense lime and with a very minor stain of light oil and dark heavy oil. No value. The interval from 3410 to 3418 was samples as above.

ARBUCKLE DOLOMITE:

3418-3422; DOL-samples circulated at 3422 indicated good fine, medium and some coarse crystalline dolomite with fair oil stain and saturation, with fair crystalline porosity and fair oil odor. Although the structural position on top of the Arbuckle was somewhat low (-1484) it was decided the Arbuckle needed testing.

DRILLSTEM TEST No. 3: 3376-3422:

Tool open 30 min. BOB 16 min.	22-81 psi
Tool shut in 60 min.	844 psi
Tool open 30 min. Blow to 7"	85-122 psi
Tool shut in 60 min.	760 psi

Recovery; 5' of muddy water w/ oil spots  
220' muddy water

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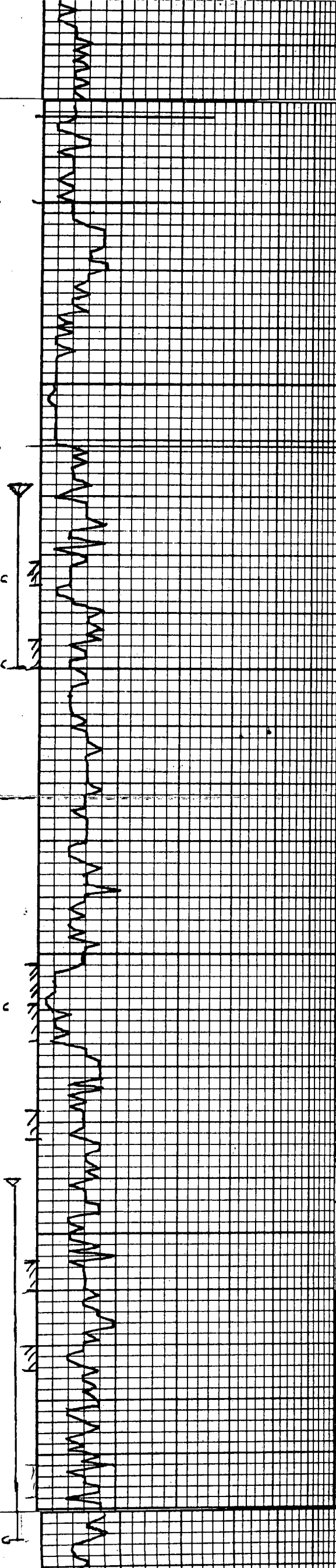
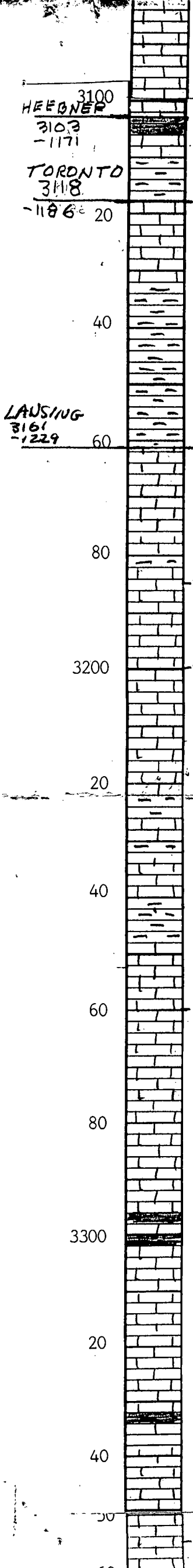
REMARKS: Due to the absence of quality oil shows and the negative results the three drillstem tests it was decided Bolte #2 would be plugged and abandoned:

Respectfully submitted;

*Francis C. Whisler*  
Francis C. Whisler, CPG 1933

Depth	Drilling Time	Lithology	Remarks
		CRAIG OIL BOLTE No. 2	
2850	0 5 Min/ft.	1330' FEL & 330' FSL Sec. 26, T 15 S R 15 W Elev. 1925 GL 1932 KB	
60		LS-wht Gry dns above 2850 Sh-Gry	
TOPEKA 2873 -941		LS-wht Gry dns	
80		LS-AA	
		LS-AA	
2900		LS-mostly Gry dns w/Gry cht	
		LS-wht lt Gry dns	
20		AA	
		AA	
40		LS-AA w/blk cht	
		AA	
60		LS-more wht H Gry dns	
		LS-AA w/Gry cht	
80		AA	
		AA	
3000		AA	
QUEEN HILL 3017 -1085		Sh-blk Carb	
20		LS-wht lt Gry dns to prty col w/ some blk oil str	
		LS-wht H Gry dns	
40		LS-AA	
		LS-wht lt Gry chky w/ R. lt str & Dvk str. USSFO + ft Odor	
60		LS-wht sli foss w/ R. lt str. USSFO + odor	
		LS-wht H Gry chky Al. S.	
80		AA	
		AA	
3100 HEERDNER 3103 -1171		Sh-blk carb	

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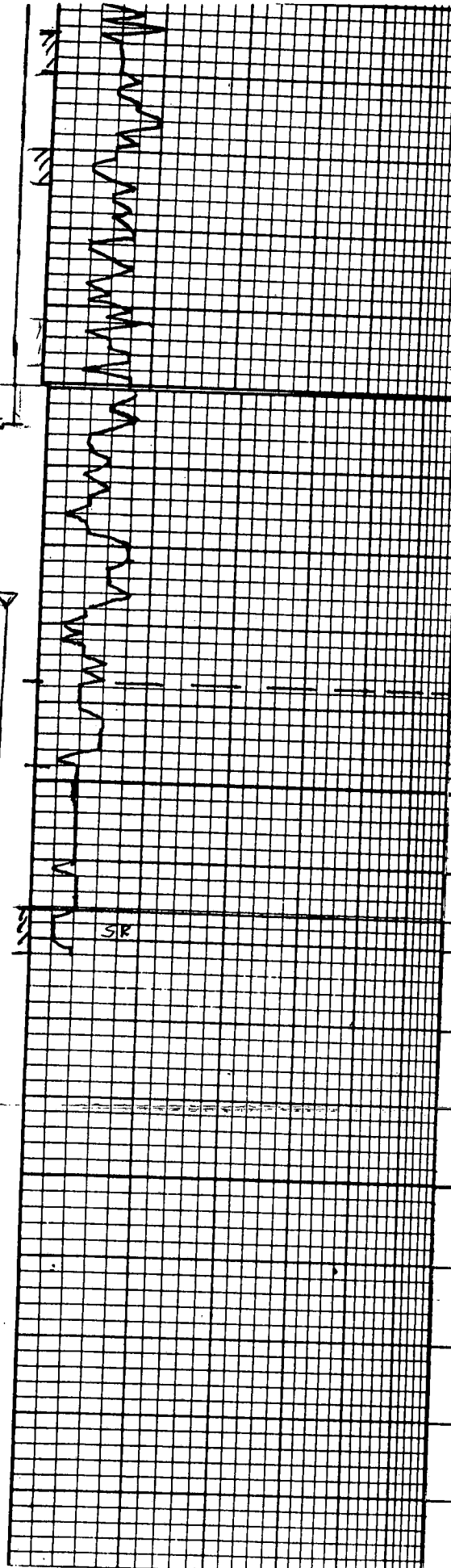
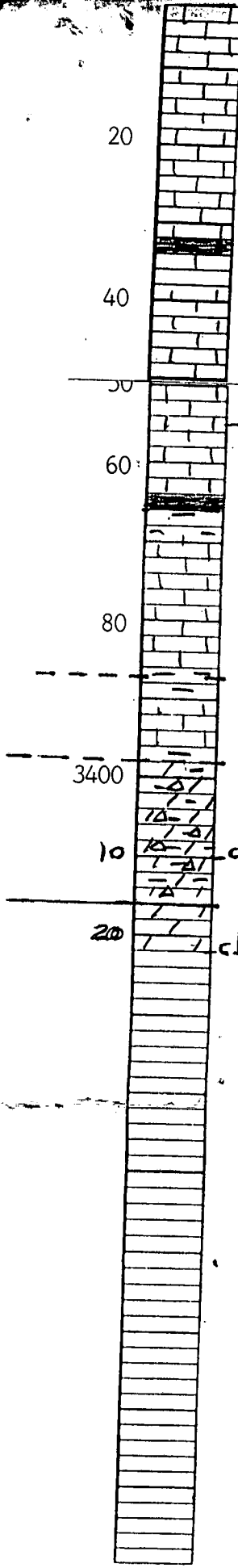
AA	
AA	
sh-blk carb	
sh-Gry w/ LS-AA	
LS-wht vy dns w/ Tri H stn Tricht	
sh-Gry Grn & brn	
ε mica sh	
LS-wht HGry dns N.S.	
sh-Some blk sh	
LS-wht dns to sli' foss & ool φ: R. H. stn. VSSFO + ε wht vit cut & ool	
LS-wht dns to fair foss & some vuggy. Rare scath ε	
It ε Dnk stn. VSSFO + Fr. odor	
LS - lt Gry dns	
LS-wht vy dns	
sh-Gry-blk	
sh-blk, Gry & pale grn	
LS-wht dns chty	
LS-wht Dik gry-blk ool dns w/ v. k. dk & H stn. Ft odor some wht ool-ool LS & barren	
LS-wht lt Gry dns wht chky ool-barren	
LS-AA & dns some ool φ-barren	
LS-AA w/ blk carb sh	
LS-wht lt Gry dns some ool-ool w/ R. H stn ool porous & some barren	
LS-wht dns to sli' ool w/ vy R. H stn. Ft odor	
sh-blk carb	
LS-wht dns to chky w/ some ool & v. minor Tr. oil stn. NFO odor	

vis 55  
wt 8.7

vis 52  
wt 8.9  
vis 52  
wt 9.2  
wt 8.8

vis 54  
wt 9.1





LS - Whit to Gry dns some ool-ool w/ R. H str	
ool porous & some barren	
LS - Whit dns to sl. ool w/ V R. H str. Ft odor	
Sh - blk carb	
LS - Whit dns. to chky w/ some ool. Q. minor tr. oil str. NFO or odor	vis. 54
	wt. 9.1
Sh - blk & Gry	
LS - Whit dns w/ Tr. ool Ls, w/ Ft. Tr. str & and Gry dns Ls	
BASE KC 3387 (-1455)	vis 51
WEATHERED ARBUCKLE 3398 (-1466)	wt. 9.1 wl. 10.2
Sample Description See body of Report	
ARBUCKLE 3416 (-1484)	
T.D. 3422 (-1490)	

wt.