



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1140697  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

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

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

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

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

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

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

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

*(Data must be collected from the Reserve Pit)*

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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



1140697

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  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				

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# MIKE ENGELBRECHT

Licensed Geologist No. 334

2513 Spring Meadow  
Winifred, KS 67205

Phone: 316-721-9226  
Cell: 316-641-8008

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR  Ritchie Exploration, Inc.

LEASE  Kaiser Unit #1

FIELD  Wildcat

LOCATION  W/2 SW NE/4 = 2000 FWL & 2480 FEL

SEC.  14  TWP.  12  RGE.  29W

COUNTY  Good  STATE  KS.

CONTRACTOR  M.W. Drilling LLC Rig #6

COMM.  2-1-2013  COMP.  2-8-13

RTD  4616'  LOG TO  4614'

SAMPLES SAVED FROM  3550'  TO  RTD

DRILLING TIME KEPT FROM  3400'  TO  RTD

SAMPLES EXAMINED FROM  3550'  TO  RTD

GEOLOGICAL SUPERVISION FROM  3810'  TO  RTD

MUD UP  CHEMICAL  TYPE MUD  DISPL @ 3359

API #  15-063-22,083-00-00

FORMATION	LOG		SAMPLE		STRUCT. COMP.
	TOP	DATUM	TOP	DATUM	
ANHYDRITE	2305	+495	2302	+497	-4
BASE	2336	+463	2335	+464	-5
STOTLER	3535	-736	3532	-733	-3
HEEBNER SH	3892	-1093	3890	-1091	-2
LAUSING	3934	-1135	3930	-1131	-10
MUNCE SH	4068	-1269	4066	-1267	-2
STARCK SH	4153	-1354	4152	-1353	+5
BKC	4208	-1409	4208	-1409	+6
ALAMOUNT	4250	-1451	4248	-1449	+8
PRANEE	4323	-1524	4322	-1523	+11
MYRIC	4374	-1575	4368	-1569	+11
FORT SCOTT	4409	-1610	4407	-1608	+5
CHEROKEE SH	4435	-1636	4432	-1633	+6
MISSISSIPPIAN	4495	-1696	4495	-1696	+1
	4614	-1815	4610	-1811	

ELEVATION  
 KB  2799'   
 DF  
 GL  2794'   
 Measurements Are All  
 From  KB 2799'

### CASING RECORD

SURFACE  8 5/8 @ 228'

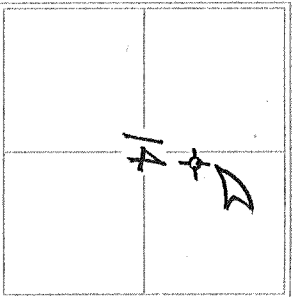
W/165 SXS. Common

PRODUCTION  NA

### WELL LOG SURVEYS

#### PIONEER

DUAL Comp POROSITY  
DUAL INDUCTION



### ACTIVITY @ 7:00 AM

### RT & SURVEY RECORD

DATE	DEPTH	NO	SIZE	WVC	TYPE	DEPTH CUT
02-1-13	MULTI/SPUD 1:30PM					
02-02	DRLG 1108'					
02-03	DRLG @ 2943'					
02-04	DRLG @ 3738'					
02-05	DST#1 @ 4029'					
02-06	QFS @ 4160'					
02-07	GOOD @ 4207'					
02-08	DRLG @ 4530'					
02-09						

### PROLOGGING

### INTERVAL

### DESCRIPTION OF SURV

REFERENCE WELL FOR STRUCTURAL COMPARISON

TIDEWATER OIL CO. #1 E.M. BLAUD

@ NESE 23-12-29W Dry Hole

FEET HOURS

O  
LOS ANGELES  
3 W

### DRILL STEM TESTS

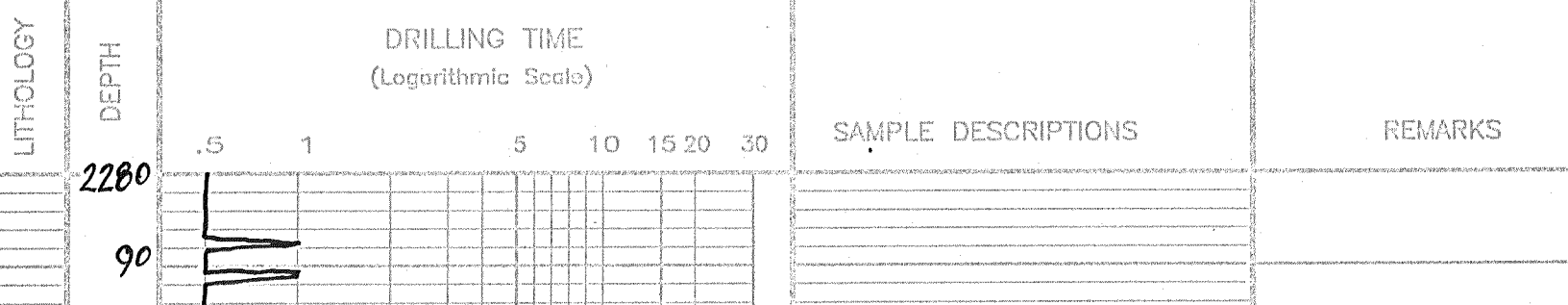
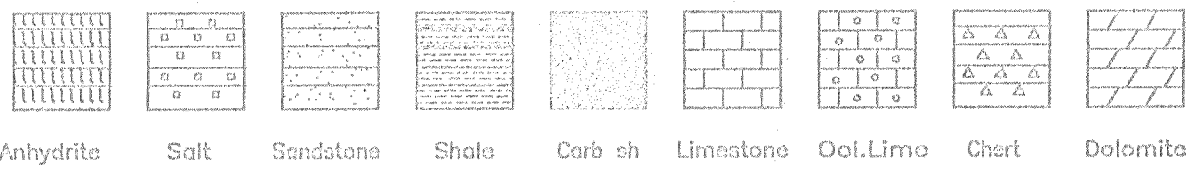
No.	Interval	SP/Time	ISP/Time	FP/Time	FSP/Time	SH-TR	REMARKS

**PLUGS AND RECOVERIES** — ALL SHOWS WERE DRILL STEM TESTED WITH NEGATIVE RECOVERIES; AFTER E-LOG EVALUATION IT WAS RECOMMENDED TO PLUG & ABANDON THIS TEST WELL.

MIKE ENGELBRECHT  
GEOLOGIST LIC # 334

MUD BY MUD-Co.  
DST'S BY SUPERIOR TESTING  
E-LOGS BY PIONEER

### LEGEND



ENGL-11

2300

TOP ANHYDRITE 2302

+497

10

20

30

BASE

2335

+464

40

50

60

70

80

3400

10

20

30

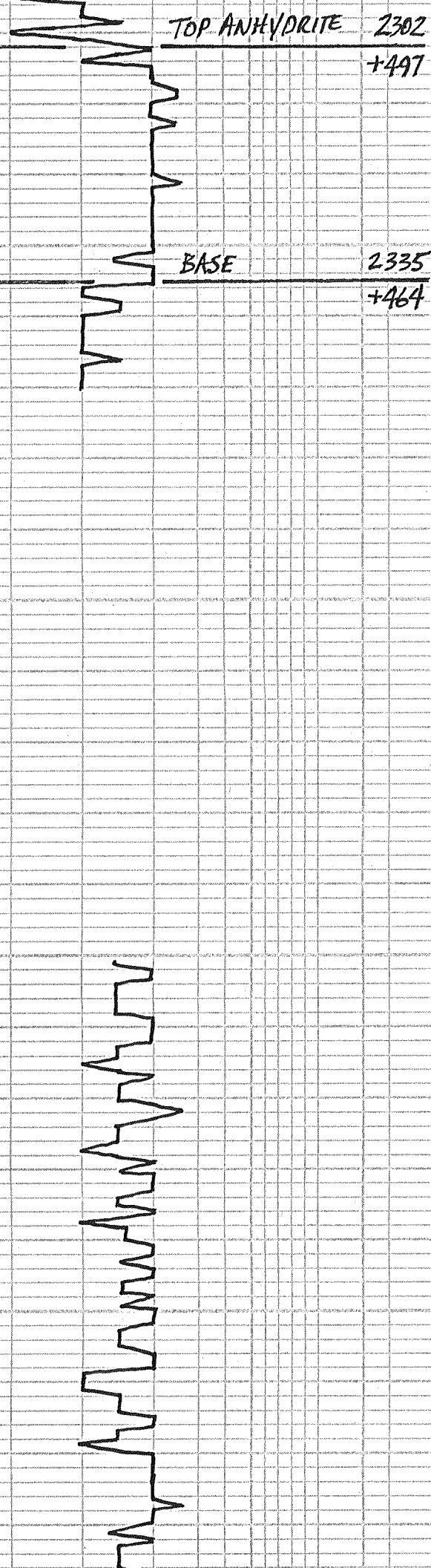
40

50

60

70

80



90  
3500  
10  
20  
30  
40  
50  
60  
70  
80  
90  
3600  
10  
20  
30  
40  
50  
60  
70  
80  
90  
3700

STOTLER 3532  
-733

60 CRM-BUFF SEMI-FOSS LS P-FØ NS  
NO ODOR

CRM-BUFF SLI-FOSS LS P-FØ NS  
INC WH CRY SOFT LS

80 CRM-BUFF-WH SEMI-FOSS LS  
PTLY CRY-NS

BUFF-TAN SEMI-FOSS LS W/FAIR  
FOSS Ø NS, NO ODOR

00 LT GRAY BLKY FN-XLN LS POOR Ø NS

LT CRM FOSS LS W/FAIR FOSS Ø NS

20 TAN-BUFF LT GRAY SLI-FOSS LS  
SALT & PEPPER P-FØ NS

LT CRM-BUFF SLI-FOSS LS NS

40 LT CRM-WH FN-XLN CRY LS NS  
NO ODOR

CRM-TAN SEMI-FOSS LS P-FØ NS  
LT GRAY SHS

60 FLOOD MD GRAY SLI-FOSS LS &  
MD GRAY SHS NS

LOTS LT-MD GRAY SILTSTONE  
POOR Ø NS NO ODOR

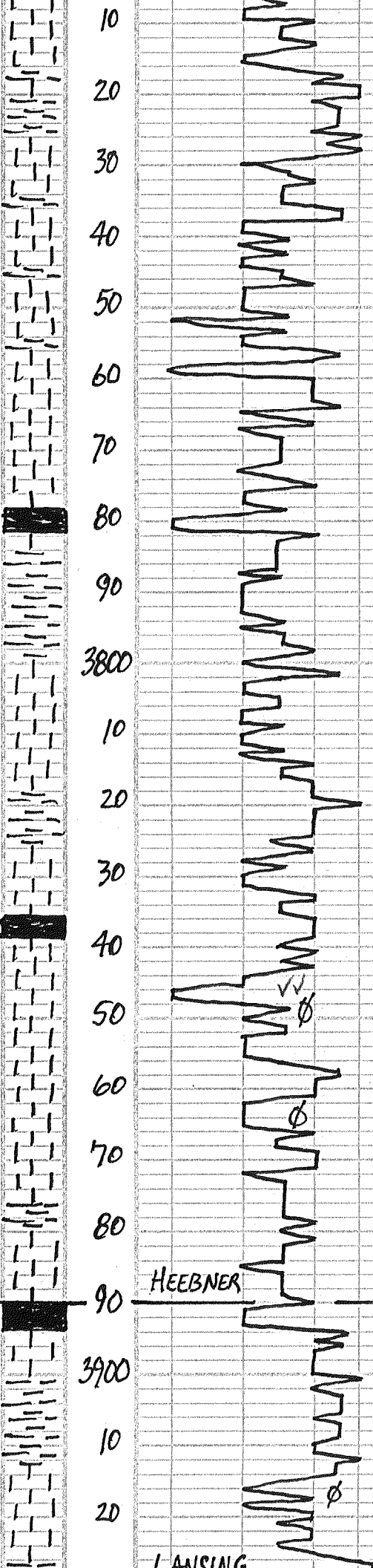
80 SPL-TRASH MOSTLY HULLS & GRAY  
GUMBO SHS NO ODOR

LOTS LT CRM-WH FN-XLN LS  
PTLY CRY POOR Ø NS

00 FLOOD BUFF-LT GRAY SLI-FOSS  
SMOOTH-SILTY LS POOR Ø NS

BUFF-LT GRAY SLI-FOSS LS  
P-FØ NS NO ODOR

20 LOTS WH-LT GRAY SLI-FOSS LS  
P-FØ NS



FLOOD LT BUFF V. FOSS LS P-F  $\phi$   
NS NO ODOR

40 LT BUFF LS SEMI-FOSS  $\phi$  FAIR  $\phi$   
NS NO ODOR

LS AA-NS

60 CRM-BUFF SEMI-FOSS LS  
P-F FOSS  $\phi$ -NS NO ODOR

WH-CRM-BUFF SEMI-FOSS LS  
PTLY CLY -NS

80 LTCRM-V. LT TAN SEMI-FOSS LS  
P-F  $\phi$ -NS

LT CRM-BUFF SEMI-FOSS LS P-F  $\phi$   
NS NO ODOR

100 LS AA-NS  $\phi$  FEW BLK SHS

FEW BLK SHS PRED. LTCRM-BUFF  
SEMI-FOSS LS P-F  $\phi$ -NS

20 CRM-BUFF LS FOSS  $\phi$ -FAIR-NS  
 $\phi$  LT GRN SILT-SDY SHS NO ODOR

LT CRM-BUFF FOSS LS W/FAIR  $\phi$   
NS NO ODOR

40 CRM-BUFF SLI-FOSS LS POOR  $\phi$   
NS NO ODOR

FLOOD LT CRM SEMI-FOSS LS  
P-F FOSS  $\phi$ -NS NO ODOR

60 LTCRM-LT TAN SEMI-FOSS LS  
FAIR  $\phi$  NS

LT CRM SEMI-COL LS FAIR COL  $\phi$   
NS NO ODOR

80 LTCRM-LT TAN FN-XLN DNSE  
LS POOR  $\phi$ -NS

WH-LTCRM-V. LT TAN V. FOSS  
LS P-F FOSS  $\phi$  NS NO ODOR

100 FLOOD BLK CARB SHS!

HEEBNER

3890

-1091

10 LOTS BLK SHS  $\phi$  LT CRM  
SEMI-FOSS LS P-F  $\phi$ -NS

20 LT GRN FN-XLN SLI-FOSS LS  
DNSE POOR  $\phi$ -NS

30 BRN-RUST-GRY-GRN SHS

40 FLOOD WH-LTCRM SLI-FOSS  
LS PTLY DTY P-F  $\phi$ -NS  
NO ODOR

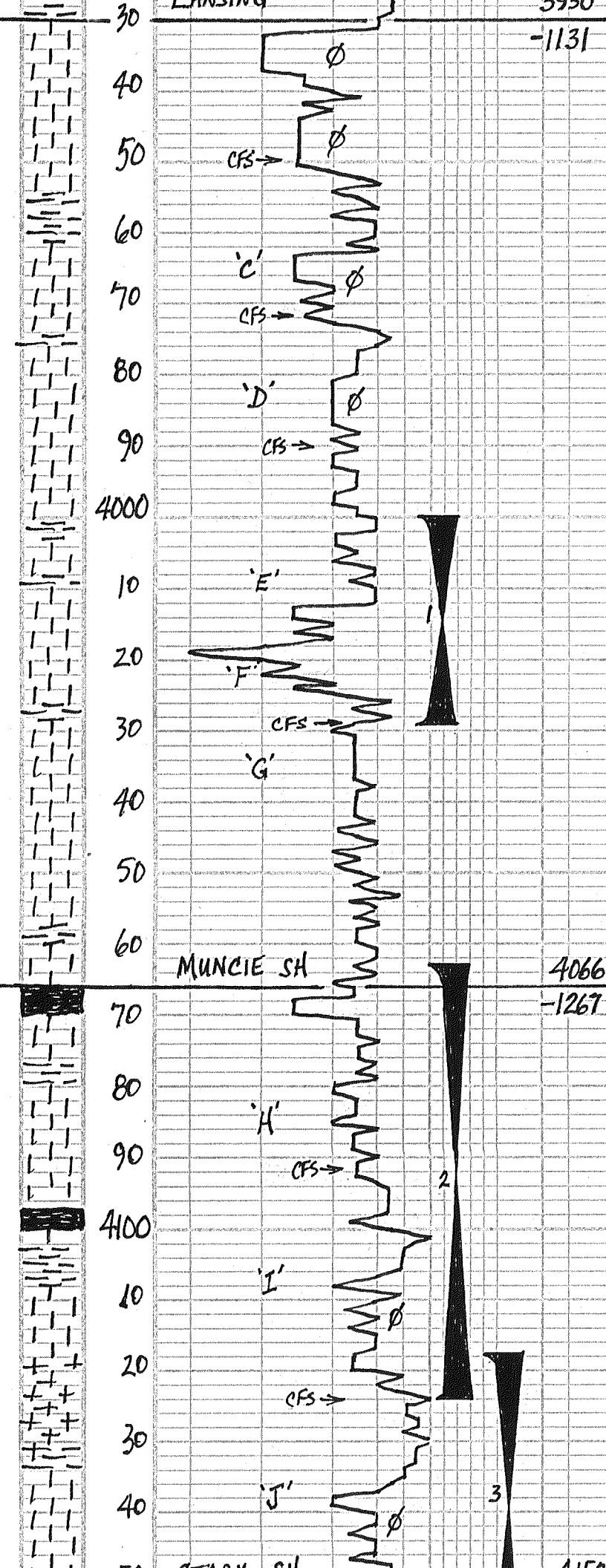
VISC: 63  
WT: 8.9  
LCN: 2#

← GEOL. ON LOCATION  
11:45 AM Mon. 2-4-13

850\*PP

LANCING

203A



5750  
-1131

4066  
-1267

50) FLOOD WH - LT CRM SEMI - OOL LS  
P-F  $\phi$  PTLY CLK NS NO ODOR

30 MIN: WH - LT CRM SEMI - OOL LS  
P-F  $\phi$  - NS NO ODOR PTLY CLK

60 MIN: LS AA P-F FOSS OOL  $\phi$   
NS NO ODOR

LT CRM - LT TAN SLI - FOSS LS P-F  $\phi$   
NS NO ODOR

70) LT CRM - LT TAN SLI - FOSS LS  
POOR  $\phi$  - NS NO ODOR

30 MIN: FLOOD LT CRM - LT TAN  
SEMI - FOSS - OOL LS P-F FOSS  $\phi$   
NS NO ODOR PTLY CLK

60 MIN: LT CRM SLI - SEMI - FOSS  
LS P-F FOSS  $\phi$  - NS NO ODOR

80 WH - LT CRM SEMI - OOL LS  
P-F  $\phi$  - NS NO ODOR PTLY CLK

90) WH - LT CRM SLI - FOSS LS POOR  $\phi$   
INC CLK NS NO ODOR

30 MIN: FLOOD WH - LT CRM SEMI -  
OOL LS P-F  $\phi$  - NS NO ODOR

WH - CRM SEMI - FOSS LS P-F  $\phi$   
NS NO ODOR

10 WH - LT CRM - LT TAN SLI - SEMI -  
FOSS LS P-F  $\phi$  - NS NO ODOR

20 LT CRM - LT TAN SLI - FOSS LS  
DNSE - CLK POOR  $\phi$  - NS

29) LT CRM - LT TAN FN - XLN DNSE  
LS POOR  $\phi$  NS NO ODOR

30 MIN: FAIR AMT WH - LT CRM  
V. FOSS LS W/F - GD FOSS  $\phi$   
W/SS LT & DKFO FEW GAS, BAD  
NO ODOR ROCKS HARD & CLEAN

60 MIN:

40 JUNK PRED GRAY - RUST - BLK SHS

50 WH - CRM - LT TAN SLI - FOSS LS  
POOR  $\phi$  - NS NO ODOR

60 FLOOD WH - V. LT GRAY SLI - FOSS LS  
LOTS CLK FEW DNSE - NS

NO ODOR

70 PRED WH - V. LT GRAY LS CLK -  
DNSE POOR  $\phi$  - NS

80 LOTS BLK SHS & FEW GRAY SMOKY  
 $\Delta$  & LS AA - NS NO ODOR

90) 2 Pcs LT CRM LS w/ POOR INTER-  
XLN  $\phi$  w/ SCAT LT STN NO FO  
FT OBOR?!

30 MIN: WH - LT CRM - LT TAN LT GRAY  
SLI - FOSS LS POOR  $\phi$  NS NO ODOR

60 MIN: WH - LT GRAY SLI - FOSS  
LS POOR  $\phi$  - NS NO ODOR

90 WH - LT TAN SLI - FOSS LS POOR  $\phi$   
NS, NO ODOR

10 FLOOD LT CRM - V. LT TAN SLI - FOSS  
LS POOR  $\phi$  - NS INC GRAY SHS

20 WH - LT CRM SLI - FOSS LS W/P-F  
SMALL FOSS & INTER - XLN  $\phi$  FAIR AMT  
W/ LT & DK STN 6 Pcs W/SSGFO

24) LT OBOR CLEAN & SLY CLK  
FEW Pcs W/ SCAT STN 2 Pcs W/SSFO  
INC IN CLK

30 MIN: DEGR IN Pcs W/ SCAT STN - B  
1 PC W/SSFO SLI CLK

60 MIN: FEW Pcs CRM LS W/ STN  
NO FO NO ODOR SLI CLK

30 JUNK FROM DST LOTS SHS

40 FLOOD LT - MD GRAY SHS

50 PRED GRAY - GRN SHS FEW WH  
FN - XLN CLK LS - NS NO ODOR

60) 30 Pcs P TRAY  
FAIR AMT WH - LT CRM TINY FOSS  
LS W/P-F FOSS  $\phi$  W/SSLT & GRN GFO

VISe: 62  
WT: 8.9  
LCM: 2.8

PULLED 30 STD SHORT TRIP  
SEVERAL TIGHT  
PIPE STRAP 1.89 LONG  
SHT = 1° @ 4029'

DST #1 4000-4029  
TOOL SLID 12' TO BOT.  
30-45-45-60  
IF: WK BUILT TO 5"  
FF: WK BUILT TO 4"  
REC: 195' MW = 101. M, 90% W  
CHL = 41,000 PPM  
SIP: 1269-1265  
IFP: 60-102 FFP: 105-134  
TEMP: 114

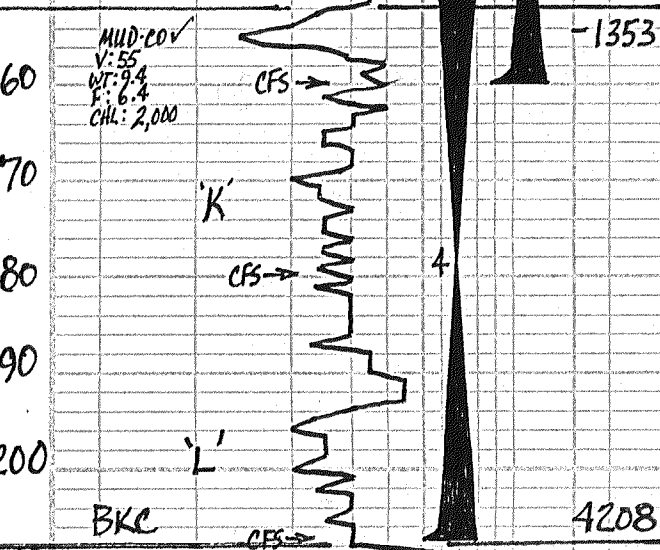
MIX MUD

DST #2 4063-4124  
30-30-30-30  
IF: WK 3/4" BLOW THRU-OUT  
FF: DEAD - FLUSH - SURGE  
REC: 5' MUD  
SIP: 114-115  
IFP: 58-60 FFP: 60-64  
TEMP: 113°

DST #3 4118-4160  
30-30-30-30  
IF: V. WK BLOW DIED 17 MINS.  
FF: DEAD - FLUSH - SURGE  
REC: 2' MUD  
SIP: 78-70  
IFP: 49-50 FFP: 50-53  
TEMP: 111°



50 STARK SH 4152

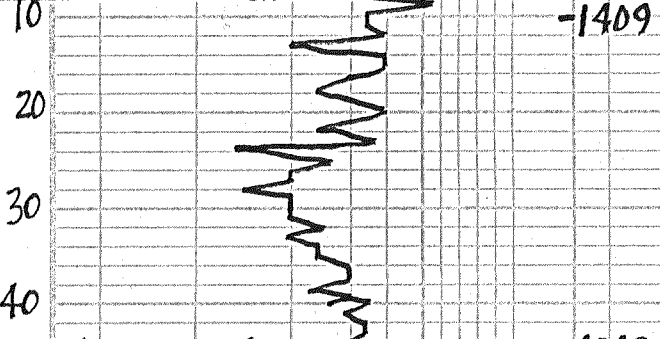


MUD-COV  
V: 55  
WT: 9.4  
FL: 6.4  
CHL: 2,000

GD ODOR, GAS BUB, SOL. CRN, SAT STR  
30 MIN: FLOOD BLK SHS

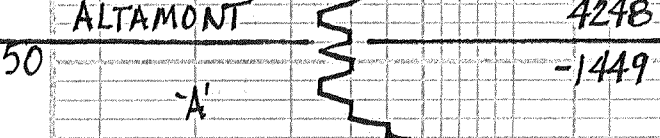
60 MIN: PRED BLK SHS  
70 PRED SHS, GRN-GRN, BRN  
80) MOLT V-GRY LS MEALY POOR  $\phi$   
NS STILL GRN-GRN SHS  
30 MIN: PRED LT CRM-LT GRN LS  
FN-MD-XLN POOR  $\phi$  - NS NO ODOR  
60 MIN: LT GRN MD-XLN GRN LS  
POOR  $\phi$  - NS NO ODOR

DST #4 4150-4207  
30-45-30-45  
IF: WK 1/2" BLOW THRU-OUT  
FF: DEAD-FLUSH SURGE  
REC: 1' MUD + SO  
SIP: 572-216  
IFP: 54-56 FFP: 58-62  
TEMP: 114°



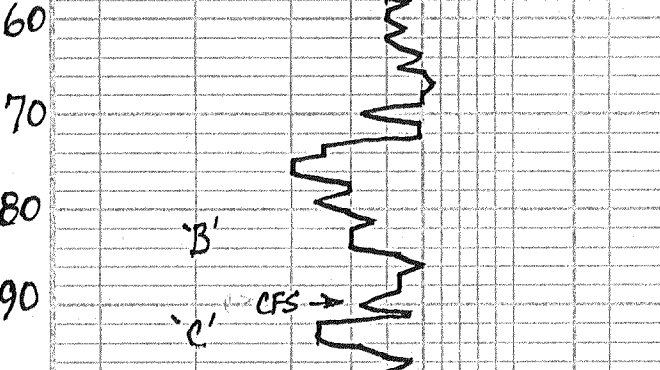
BKC

90 LT GRN FN-MD-XLN LS POOR  $\phi$   
NS NO ODOR  
00 DK GRN-BLK SHS & TAN-ROOF-  
BEER FN-XLN DNSE LS - NS  
07) FAIR AMT WH-LT CRM, TINY FOSS LS  
W/P-F TINY FOSS - PPT  $\phi$  LOTS W/LT  
STR FEW SAT STR, 10 RS SSLT BGF  
FAIR ODOR, SLI CRN  
30 MIN: WH-LT CRM, TINY FOSS LS  
W/P-F FOSS  $\phi$  W/SSLT BGF FAIR ODOR  
60 MIN: DECREA IN LS AA WH-LT CRM  
FN-XLN LS POOR  $\phi$  - NS INC SHS



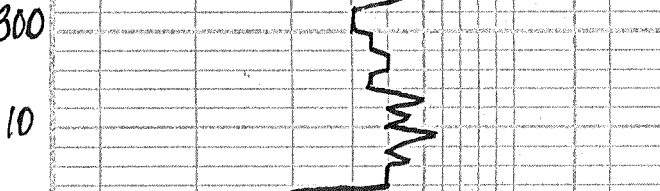
ALTAMONT

20 PRED GRN-GRN RUST SHS  
NO ODOR  
30 PRED GRN-GRN SHS LT GRN  
V. FN-GRSS-SILTSTONE DIRTY  
NS  
40 FEW WH CRM-FN-XLN LS POOR  $\phi$   
NS NO ODOR FEW GRN SILTSTONE  
50 WH-LT CRM-LT BUFF LS FN-XLN  
-MEALY POOR  $\phi$  - NS NO ODOR  
LT-MD GRN SILTSTONE - NS



PAWNEE

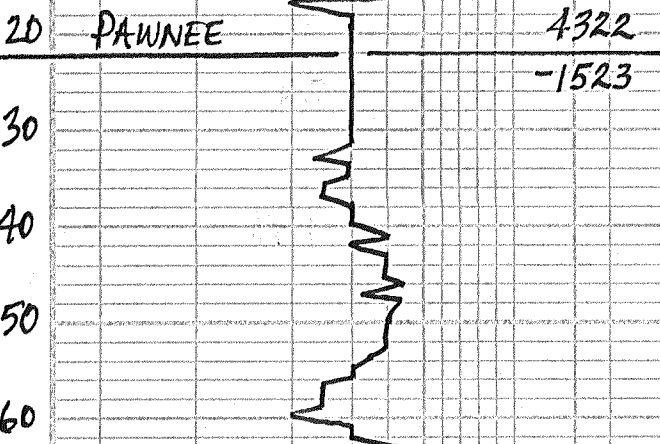
60 LT BUFF-LT TAN BLOCKY LS FN-XLN  
POOR  $\phi$  - NS NO ODOR  
70 LT CRM-WH-LT TAN FN-XLN LS  
DNSE POOR  $\phi$  - NS NO ODOR  
80 LT CRM-BUFF FN-XLN LS POOR  
 $\phi$  - NS NO ODOR



MYRICK

90) INC GRN EARTHY SHS & CRM-BUFF  
FN-XLN LS POOR  $\phi$  - NS NO ODOR  
30 MIN: WH-CRM-TAN FN-XLN LS  
DNSE - CRN POOR  $\phi$  - NS NO ODOR  
60 MIN: WH-CRM-TAN LS  
POOR  $\phi$  - NS NO ODOR DNSE-CRM  
00 LOTS GRN-GRN SHS LS AA-NS

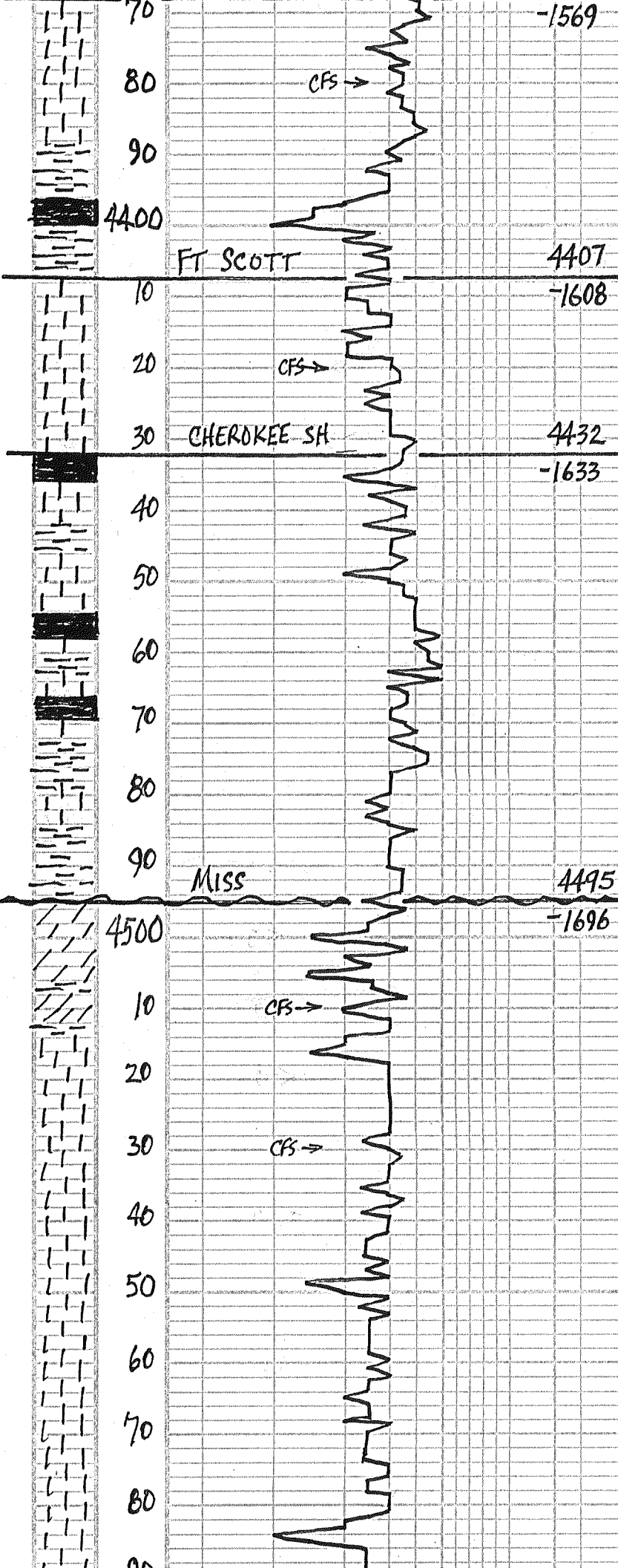
← VISC: 53  
WT: 9.4  
LCM: 1 1/2



10 WH & LT TAN LS FN-XLN DNSE-  
CRN POOR  $\phi$  - NS NO ODOR  
20 V. LT TAN-V. LT GRN FN-XLN LS  
BLOCKY POOR  $\phi$  - NS NO ODOR  
30 LT CRM-LT TAN FN-XLN LS  
DNSE - CRN POOR  $\phi$  - NS NO ODOR  
INC GRN SHS  
40 FLOOD WH-LT CRM FN-XLN LS  
DNSE - CRN SLI-LTY POOR  $\phi$   
NS NO ODOR

50 DULL WH-BUFF FN-XLN LS  
DNSE - SLI CRN GRAN POOR  $\phi$   
NS NO ODOR  
60 PRED BUFF FN-XLN LS POOR  $\phi$   
NS NO ODOR  
70 FLOOD DK GRN-BLK SHS &  
BRN-DK TAN FOSS LS POOR  $\phi$   
NS NO ODOR

80) FLOOD DK TAN-BRN-V. FN-XLN LS



-1569

SCRT FOSS POOR  $\phi$  - NS NO ODOR  
 SOME ROOT BEER DNSE LS  
 30 MIN: 1 PCS GRM FOSS LS w/ P-F  $\phi$   
 W/STN: FT ODOR ON BREAK  
 60 MIN: FLOOD LT BUFF V. LT GRAY  
 FN: XLN SMOOTH LS POOR  $\phi$   
 NS NO ODOR

100 PRED LT CRM-BUFF FN: XLN LS  
 POOR  $\phi$  - NS NO ODOR & LOTS  
 GRAY-GRN EARTH SHS  
 10 FLOOD BLK SHS

FT SCOTT

4407

20) LT CRM-BUFF FN: XLN SH-FOSS  
 LS POOR  $\phi$  - NS NO ODOR

← VISC: 51  
 WT: 9.5  
 LCM: 1#

30 MIN: WH-LT CRM SH-FOSS  
 LS 3 PCS w/ LT STN IN SCAT  
 VUG  $\phi$  - NO HO, FT ODOR ON BK  
 SH-YAW

CHEROKEE SH

4432

45 MIN: WH-LT CRM FN: XLN LS  
 POOR  $\phi$  CKY - NS NO ODOR  
 30 PRED WH-V. LT TAN LS SU-FOSS  
 POOR  $\phi$  - NS NO ODOR

JET & ADD PRE-MIX & LCM

40 PRED LT CRM FN: XLN LS POOR  $\phi$   
 PTLY CKY - NS NO ODOR

50 LOTS BLK SHS & CRM-TAN-GRY LS  
 FN: XLN DNSE-CKY NS NO ODOR

60 PURE WH CKY LS FN: XLN POOR  
 $\phi$  - NS NO ODOR

70 FLOOD WH-LT CRM FN: XLN LS  
 DNSE-CKY POOR  $\phi$  - NS NO ODOR

80 LT CRM-LT TAN FN: XLN LS POOR  $\phi$   
 NS NO ODOR INC GRAY-BLK SHS

96 WH-LT CRM FN: XLN CKY LS POOR  $\phi$   
 NS PTLY CKY NO ODOR

100 LS AA-NS & FEW LT PEACH-  
 LT ORANGE SHARP  $\Delta$  - NS

MISS

4495

10 WH-LT CRM FN: XLN CKY LS &  
 FEW ORAN-PEACH  $\Delta$  - POOR  $\phi$  NS

← VISC: 55  
 WT: 9.3  
 LCM: 3#

30 MIN: GOLD PURPLE BRN SHS  
 WH-CRM LS FN: XLN DNSE-CKY  
 NS NO ODOR FEW LT TAN WEA DOLO NS  
 60 MIN: AA FEW LT TAN WEA DOLO  
 FAIR VUG  $\phi$  - NS NO ODOR

20 FEW LT TAN DOLO LS w/ FAIR WEA  $\phi$   
 NS NO ODOR

30) WH FN: XLN CKY LS - NS & INC  
 VELL-LT GRAY LS - POOR  $\phi$  - NS  
 30 MIN: WH-DIRTY VELL MD-XLN  
 LS PTLY CKY POOR  $\phi$  - NS NO ODOR  
 60 MIN: WH-DIRTY VELL LS AA  
 NS NO ODOR

50 CRM-DIRTY VELL MD XLN LS  
 P-F INTER-XLN  $\phi$  NS NO ODOR

60 WH CRM-LT VELL-PEACH FN: MD-XLN  
 LS POOR  $\phi$  - NS ALSO FEW CL FN-GR  
 RTZ SST TIGHT POOR  $\phi$  - NS NO ODOR

70 WH-CRM DIRTY MD-XLN LS  
 P-F  $\phi$  - NS NO ODOR PTLY CKY

80 LT GRAY MD-XLN LSTY LS P-F  $\phi$   
 NS NO ODOR

90 FLOOD LT GRAY DOLO LS & GRAY  $\Delta$   
 POOR  $\phi$  DNSE-MEALY NS NO ODOR

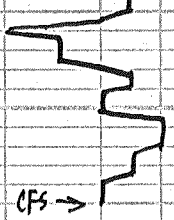
← MUD: COV  
 VISC: 56 CHL: 2,000  
 WT: 9.3 LCM: 2#  
 FILT: 6A

100 LT GRAY LSTY DOLO-LS POOR-FAIR  
 $\phi$  - NS NO ODOR & LOTS SH

90

4600

10



RTD = 4610

LT D = 4614

10 LT GRY CLK - LK, LS P-Fd  
NS WD ODR, LOTS GRY SHS

30 MIN: PURE WH CLK LS - NS  
LOTS GRN - GRN - BLK SHS

RTD 10:45 AM FRI 2-8-13  
SHORT TRIP 10 STDS COND 1 1/2 HR.  
CAME OUT FOR LOGS. STARTED  
LOGGING 4:00 PM



**#1 Kaiser Unit**

2000' FNL & 2480' FEL

20' S & 170' W of W/2 SW NE Section 14-12S-29W

Gove County, Kansas

API# 15-063-22083-00-00

Elevation: 2794' GL, 2799' KB

Sample Tops			Ref. Well
Anhydrite	2301'	+498	-1
B/Anhydrite	2335'	+464	-4
Stotler	3532'	-733	Flat
Heebner	3890'	-1091	Flat
Lansing	3924'	-1125	Flat
Muncie Shale	4066'	-1267	Flat
Stark Shale	4152'	-1353	+6
Hush	4182'	-1383	+7
BKC	4204'	-1405	+10
Altamont	4246'	-1447	+12
Pawnee	4325'	-1526	+9
Myrick	4366'	-1567	+19
Fort Scott	4400'	-1601	+14
Cherokee Shale	4432'	-1633	+9
Mississippian	4496'	-1697	Flat
RTD	4610'	-1811	

# ALLIED OIL & GAS SERVICES, LLC 058846

Federal Tax I.D.# 20-6976804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT  
*Deakley*

DATE <i>2/9/13</i>	SEC. <i>14</i>	TWP. <i>10</i>	RANGE <i>29</i>	CALLED OUT	ON LOCATION	JOB START <i>12:30p</i>	JOB FINISH <i>1:30p</i>
LEASE <i>Kaiser Unit</i>	WELL # <i>1</i>	LOCATION <i>Grant Bell Co's mile S 1/2 W</i>			COUNTY <i>Garze</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one) <i>NEW</i>				<i>Sints</i>		<i>1.03</i>	

CONTRACTOR *WV 6*

TYPE OF JOB *RTA Retung*

HOLE SIZE *8 7/8* DBPTH *150'*

CASING SIZE *8 7/8* DBPTH *229'*

TUBING SIZE DBPTH

DRILL PIPE *4 1/2* DBPTH

TOOL DBPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER *Same*

CEMENT AMOUNT ORDERED *205 60/40 47 1485*

COMMON	<i>123</i>	@ <i>17.20</i>	<i>2201.20</i>
POZAMIX	<i>82</i>	@ <i>9.25</i>	<i>766.70</i>
GEL	<i>7</i>	@ <i>23.40</i>	<i>163.20</i>
CHLORIDE		@	
ASC	<i>Pro Seal 50 lb</i>	@ <i>2.22</i>	<i>151.42</i>
HANDLING	<i>220 CF</i>	@ <i>2.48</i>	<i>545.60</i>
MILBAG	<i>200 lbs 700 Mile 9.13</i>	@ <i>2.69</i>	<i>538.00</i>

EQUIPMENT

PUMP TRUCK	CEMENTER <i>Alan</i>	<i>1</i>
# <i>402</i>	HELPER <i>Wagon</i>	<i>2</i>
BULK TRUCK	DRIVER <i>Kevin Ryan</i>	<i>3</i>
# <i>404</i>	DRIVER	

REMARKS:

*25 SK @ 2315'*

*120 SK @ 1245'*

*40 SK @ 280'*

*10 SK @ 40'*

*30 SK @ R Hole*

TOTAL *4498.89*

*257.40*

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<i>2453.00</i>
EXTRA FOOTAGE	@	
MILBAG	<i>20</i>	@ <i>7.20</i> <i>215.60</i>
MANIFOLD	@	
<i>1370 Vehicle</i>	<i>80</i>	@ <i>4.40</i> <i>352.00</i>

TOTAL *2792.60*

CHARGE TO: *Ritchie Exploration*

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

<i>8 7/8 Wood Plug</i>	@	<i>107.46</i>
	@	
	@	
	@	

TOTAL *107.46*

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) *595.62*

TOTAL CHARGES *7,399.04*

DISCOUNT *2219.71* IF PAID IN 30 DAYS

*5179.33*

PRINTED NAME *Jason Riddle*

SIGNATURE *J. Riddle*

*3070*

# ALLIED OIL & GAS SERVICES, LLC 060111

Federal Tax I.D. # 20-8051476

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

Oakley

DATE <u>2/1-13</u>	SEC. <u>14</u>	TWP. <u>12</u>	RANGE <u>29</u>	CALLED OUT	ON LOCATION	JOB START <u>4:30pm</u>	JOB FINISH <u>5:00pm</u>
LEASE <u>Kaiser Unit</u>	WELL# <u>1</u>	LOCATION <u>Crainfield Ls 16W</u>			COUNTY <u>Goive</u>	STATE <u>Ks</u>	
OLD OR (NEW) (Circle one) <u>NEW</u>				<u>5 into</u>			

CONTRACTOR W+W Co  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 229'  
 CASING SIZE 8 5/8 DEPTH 229'  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT  
 CEMENT LEFT IN CSO. 15'  
 PERFS.  
 DISPLACEMENT 13,63 BOE

OWNER same  
 CEMENT AMOUNT ORDERED 11.5 sks com  
3% @ 2 1/2 gal

COMMON	<u>11.5 sks</u>	@ <u>12.90</u>	<u>2953.50</u>
POZMIX		@	
GEL	<u>3 sks</u>	@ <u>23.90</u>	<u>701.20</u>
CHLORIDE	<u>6 sks</u>	@ <u>64.00</u>	<u>384.00</u>
ASC		@	

EQUIPMENT  
 PUMP TRUCK CEMENTER Andrew Fordlund  
 # 431 HELPER V. Dore Retzloff  
 BULK TRUCK DRIVER Brandon Wilkerson  
 # 396  
 BULK TRUCK DRIVER

HANDLING	<u>178.41 cu/ft</u>	@ <u>2.48</u>	<u>442.16</u>
MILBAGE	<u>2.60 mi/mile</u>	@ <u>2.14 mi</u>	<u>5.57</u>

REMARKS:

Cement did not circulate

thank you

CHARGE TO: Ritchie  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 442.75  
 SERVICE 2,279.11

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>1512.25</u>
EXTRA FOOTAGE	@	
MILBAGE	<u>28 miles</u>	@ <u>7.70</u> <u>215.60</u>
MANIFOLD	<u>Leach</u>	@ <u>225.00</u>
Light Vehicle	@ <u>4.90</u>	<u>123.20</u>

TOTAL 2126.05

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

TOTAL \_\_\_\_\_

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cement and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Jason Richardson  
 SIGNATURE [Signature]

SALBS TAX (if Any) 274.31 6568.80  
 TOTAL CHARGES 3046.43 6553.20  
 DISCOUNT 1507.37 IR PAID IN 30 DAYS  
2370 11510.82 disc  
505298 net

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



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

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

May 21, 2013

John Niernberger  
Ritchie Exploration, Inc.  
8100 E 22ND ST N # 700  
BOX 783188  
WICHITA, KS 67278-3188

Re: ACO1  
API 15-063-22083-00-00  
Kaiser Unit 1  
NE/4 Sec.14-12S-29W  
Gove County, Kansas

Dear Production Department:

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

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

Respectfully,  
John Niernberger