



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1150246  
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: \_\_\_\_\_



1150246

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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:  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

<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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# MIKE ENGELBRECHT

Licensed Geologist No. 334

2513 Spring Meadow  
Wichita, KS 67205

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

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR RITCHIE EXPLORATION INC.

LEASE REYNOLDS - POTOSI #1

FIELD THUNDER

LOCATION N/2 NW SE = 2580 FSL & 2080 FEL

SEC. 13 TWP. 27 RGE. 24W

COUNTY FORD STATE KS.

CONTRACTOR VAL Energy Rig # 1

COMM. 3-11-13 COMP. 3-20-13

RTD 5100 LOG TD 5100

SAMPLES SAVED FROM 3800 TO RTD

DRILLING TIME KEPT FROM 3400 TO RTD

SAMPLES EXAMINED FROM 3800 TO RTD

GEOLOGICAL SUPERVISION FROM 3969 TO RTD

MUD UP DISPL @ 3621 TYPE MUD CHEMICAL

API # 15-057-20,881-00-00

FORMATION	TOP	LOG	BATTIN	TOP	SAMPLE	DATE	STRUCT.
							COMP.
ANKHYDRITE	1450	+992			3475-1033		-9
BASE	1494	+948					-8
STOLLER					4137-1695		-3
HEEBNER SH					4258-1816		-4
LANSING					4440-1998		-4
MUNIE SH					4565-2123		-5
STARK SH					4642-2200		-4
BKC					4704-2262		-6
MARKMOTN					4777-2335		-9
PAWNEE					4824-2382		-5
CHEKOKEE SH					4912-2470		-9
HUCK					4923-2481		-9
ATOKA SH							
MORROW							
MISSISSIPPIAN	4958	-2516			4960-2518		-7

### ELEVATION

KB 2442

DF 2432

GL 2432

Measurements Are All

From KB 2442

### CASING RECORD

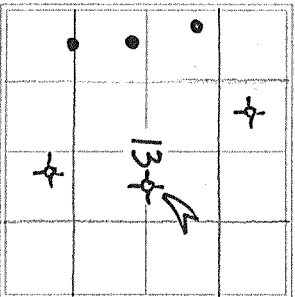
SURFACE 8 5/8" @ 409'

W/250 SKS. CDM.

PRODUCTION NA

### WELL LOG SURVEYS

COMP NEUTRON/DENSITY  
DUAL INDUCTION



DATE	DEPTH	NO	SIZE	HW	TYPE	DEPTH OUT
3-11-13	MIRT					
3-12	WOC					
3-13	DRUG @ 1830					
3-14	DRUG @ 2960					
3-15	DRUG @ 3622					
3-16	DRUG @ 4915					
3-17	DES @ 4770 DST1					
3-18	DRUG @ 4844 DST2					
3-19	DRUG @ 4939 DST3					
3-20	DRUG @ 5060					
3-21	PLUG					

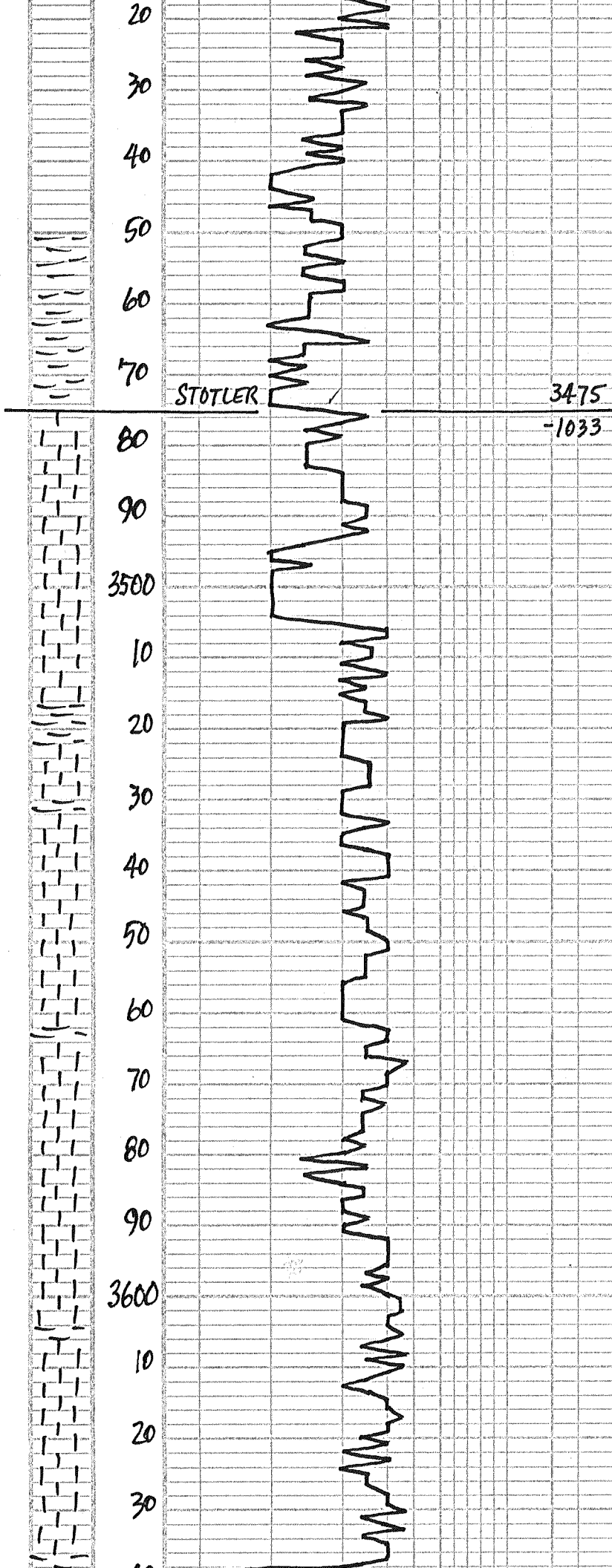
FORMATION

DESCRIPTION OF EVENT

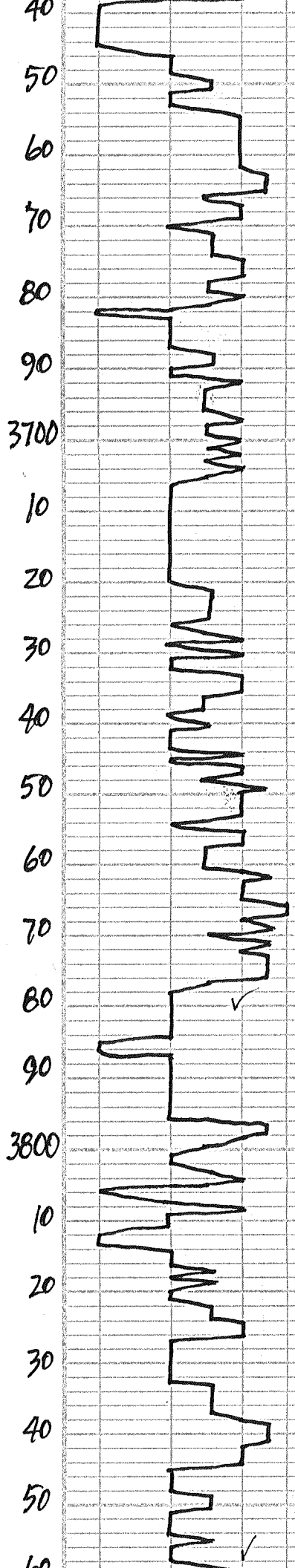
REFERENCE WELL FOR STRUCTURAL COMPARISON

RITCHIE EXPL. #1 Simon 13CD  
SE/4 13-27-24W





MUD CO ✓  
 ← VISC: 57  
 WT: 8.7  
 FILT: 10.4  
 CHL: 6,200  
 LCM: 0 #



PRED SHS RUST-GCY

1<sup>st</sup> WH-CRM-LT TAN SLI-Foss P-F φ  
 NS NO ODOR

2<sup>nd</sup> CRM-LT TAN SEMI-Foss Δty LS  
 P-F φ - NS NO ODOR

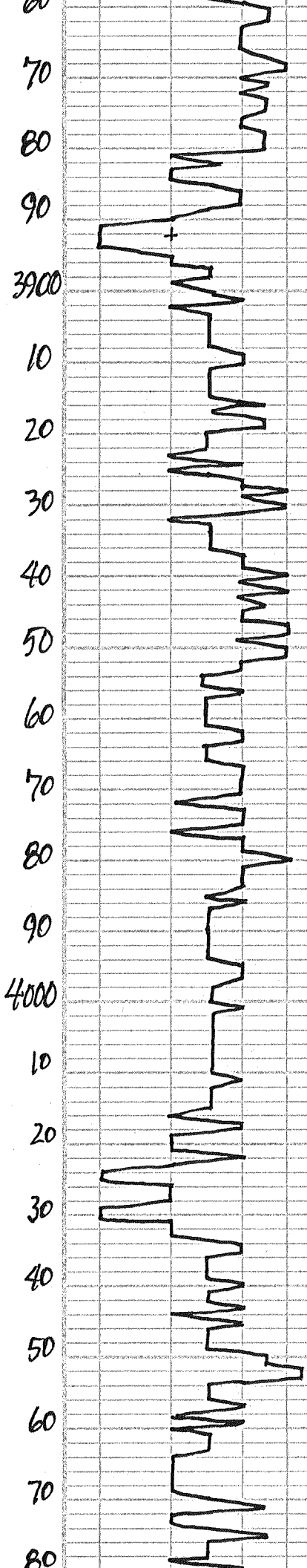
WH-CRM SLI-Foss Δty - GCY LS  
 POOR φ - NS NO ODOR

4<sup>th</sup> WH-CRM LT TAN SLI-Foss LS  
 NS PTZY GCY

CRM-BUFF FN-XLN LS DNSE-  
 GCY POOR φ - NS NO ODOR

6<sup>th</sup> CRM-BUFF SEMI-Foss Δty LS  
 P-F φ - NS NO ODOR

LT TAN - BUFF N. Foss LS FAIR φ  
 NS NO ODOR



80 LS AA-NS & GRAY CLY LS-NS  
 WH-CRM-TAN FOSS-CLY LS  
 P-F ϕ - NS NO ODOR  
 00 FEW DK GRAY SHS

CRM-BUFF FUSSLD LS P-F ϕ  
 NS NO ODOR

20 LT CRM-TAN SEMI-FOSS LS  
 P-F FOSS ϕ - NS NO ODOR

FLOOD LT CRM GRAN LS POOR ϕ  
 NS NO ODOR

40 LT CRM-LT TAN SEMI-FOSS LS  
 POOR ϕ - NS NO ODOR

WH-LT CRM SLI-FOSS LS P-F ϕ  
 NS NO ODOR

60 LT CRM-LT TAN SLI-FOSS LS  
 POOR ϕ - NS NO ODOR

INC MD-DK GRAY-GRN SHS

80 WH-LT CRM SLI-FOSS LS  
 P-F ϕ - NS NO ODOR

INC DK GRAY SHS

00 LT CRM-TAN DNSE-LS POOR ϕ  
 NS NO ODOR

WH-CRM-LT TAN MEALY CLY  
 LS POOR ϕ - NS

20 WH-CRM CLY LS-NS

WH-CRM CLY LS POOR ϕ NS

40 WH-CRM-LT TAN SLI-FOSS LS  
 POOR ϕ - NS NO ODOR

WH-CRM SLI-FOSS LS P-F ϕ  
 NS NO ODOR PTLY CLY

60 LT CRM-LT GRAY FN-MD-XLN  
 LS POOR ϕ NS

WH-CRM FN-XLN LS DNSE-  
 CLY POOR ϕ - NS NO ODOR

80 CRM-WH FN-XLN CLY LS  
 POOR ϕ - NS NO ODOR

FLOOD PURE WH CLY LS-NS

00 FLOOD WH CLY LS-NS

VISC: 50  
 WT: 8.9  
 LCM: 2#

← BEDL. ON LOC. SAT  
 FRI 3-15-13

GAS DETECTOR  
 OFF SCALE  
 CONTACTED MBE.V

825#PP

← TIGHT COMM.

← VISC: 55  
 WT: 9.0  
 LCM: 2#

90  
4100  
10  
20  
30  
40  
50  
60  
70  
80  
90  
4200  
10  
20  
30  
40  
50  
60  
70  
80  
90  
4300

HEEBNER

4138  
-1696

TOR

LANSING

4260  
-1818

CFS →

10 FLOOD LT CRM SEMI-FOSS LS  
P-F φ - NS NO ODOR

20 LOTS DK GRAY SHS LS AA NS

30 FLOOD WH CRM CLK LS  
POOR φ - NS NO ODOR

40 LT CRM-LT TAN MEALY LS  
POOR φ - NS INC GRAY SHS

50 LOTS DK GRAY-BLK SHS

60 LT GRAY SLI-FOSS LS DNSE-  
POOR φ - NS NO ODOR

70 DIRTY GRAY SHS

80 GRAY MEALY SLI-FOSS LS - NS  
NO ODOR

90 GRAY-TAN SLI-FOSS LS - MEALY  
POOR φ - NS, NO ODOR

00 WH-LT CRM FN-XLN CLK LS  
P-F φ - NS NO ODOR

10 LT CRM LS AA-NS & GRAY-GRN  
SHS

20 IN GRAY-GRN GUMBO SHS

30 CRM-BUFF SLI-FOSS LS POOR φ  
NS NO ODOR

40 FLOOD CRM-BUFF SLI-FOSS LS  
P-F φ - NS NO ODOR

50 LT GRAY-GRN SHS FEW SILTY

60 FLOOD LT CRM CLK-MEALY LS  
POOR φ - NS NO ODOR

70 LT CRM-BUFF SLI-FOSS LS  
POOR φ - NS NO ODOR

71) LT CRM-TAN SEMI-FOSS LS  
POOR φ - NS NO ODOR

30 MIN: LT TAN-CRM SLI-FOSS LS  
P-F φ - NS NO ODOR

60 MIN: LOTS PURE WH CLK LS  
POOR φ - NS NO ODOR

90 WH-LT CRM FUSSLD LS P-F φ - NS

00 PRED LT CRM SLI-FOSS LS POOR φ  
NS NO ODOR

10 CRM-LT TAN SLI-FOSS LS DNSE  
POOR φ - NS

VISC: 53  
WT: 9.1  
LCM: 2#

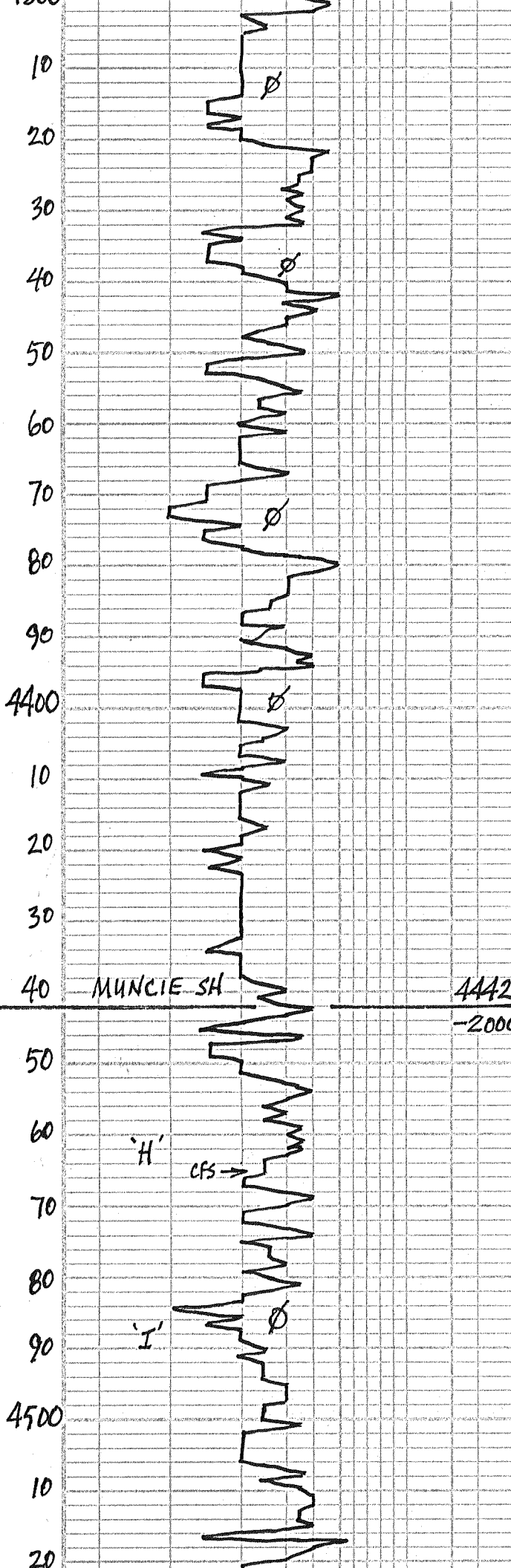
VISC: 51  
WT: 9.1  
LCM: 2#

ADD. PRE-MIX

NO KICK

MHD. COV  
VISC: 50 FILT: B.B  
WT: 9.1 CHL: 6,900





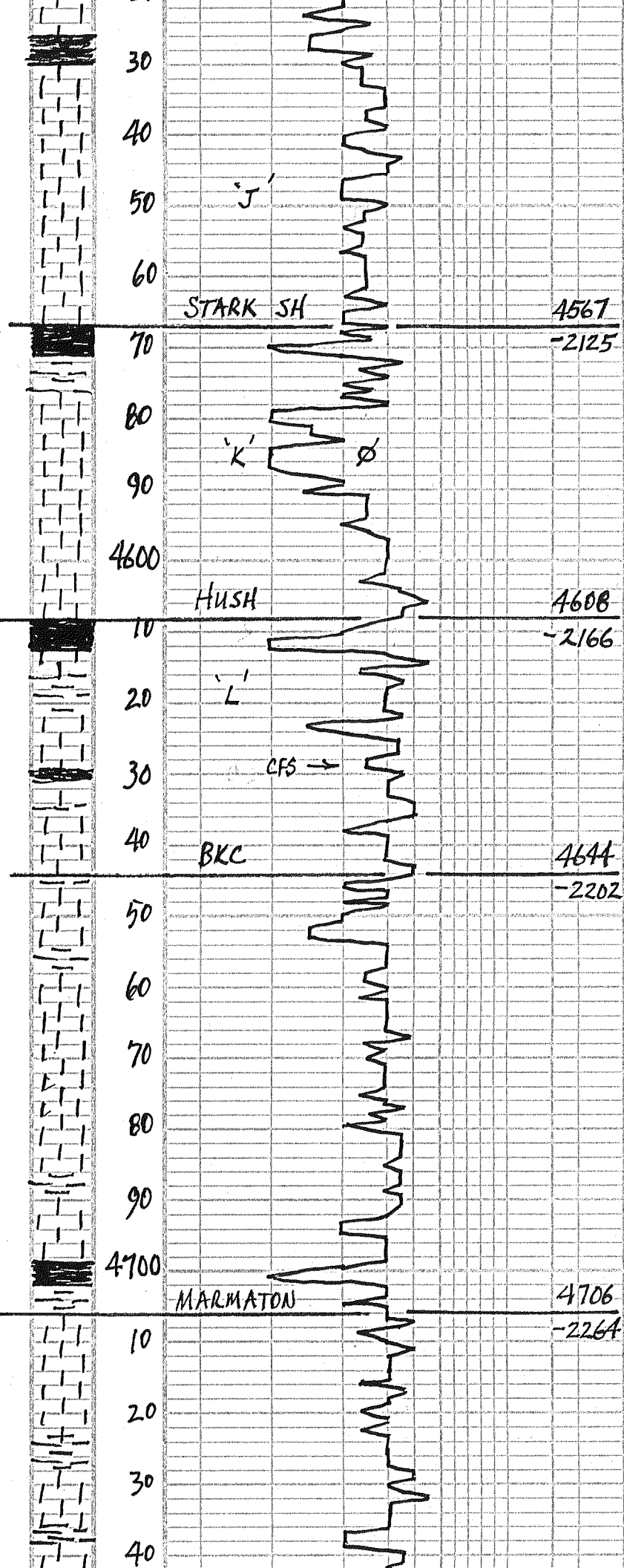
- 20 LT GRAY-TAN FN-XLN DNSE LS  
NS, INC GRAY SHS
- 30 LT TAN-BUFF FOSS LS W/FAIR Ø  
NS NO ODOR
- 40 GRAY-TAN FN-XLN LS POOR Ø  
NS NO ODOR, PTLY CKY
- 50 LT GRAY-CRM-TAN SEMI-FOSS LS  
P-F Ø-NS SLI-CKY NO ODOR
- 60 LTCRM-TAN SEMI-FOSS LS  
FUSSLD & MASHED OOC POOR Ø  
NS NO ODOR
- 70 GRAY FN-XLN LS POOR Ø-NS  
NO ODOR
- 80 CRM-LT TAN SEMI-FOSS LS  
P-F Ø-NS NO ODOR
- 90 LT TAN-BUFF SEMI-FOSS LS  
P-F FOSS Ø-NS
- 00 LTCRM-BUFF SEMI-FOSS LS  
P-F Ø-NS NO ODOR
- 10 WH-TAN-BUFF SLI FOSS LS  
P-F Ø-NS, NO ODOR
- 20 WH-CRM FN-XLN CKY LS-NS
- 30 FLOOD WH-LTCRM SLI-FOSS LS  
& LT GRAY SMOKEY Δ-NS
- 40 PRED WH-LTCRM CKY LS POOR Ø  
NS NO ODOR
- 50 CRM-LT TAN BUFF SLI-FOSS LS  
POOR Ø-NS
- 60 DK GRAY-BLUE SHS & CRM-BUFF LS  
POOR Ø-NS NO ODOR
- 65 CRM-BUFF SLI-FOSS LS POOR Ø  
NS NO ODOR
- 30 MIN: PRED LT CRM-LT TAN SLI-  
FOSS LS W/ POOR Ø-NS NO ODOR
- 60 MIN: CRM-BUFF SLI-FOSS LS  
POOR Ø-NS NO ODOR
- 80 FLOOD WH-LTCRM SLI-FOSS LS  
POOR Ø-NS NO ODOR
- 90 LTCRM-BUFF SLI-FOSS LS-NS
- 00 LS AA-NS INC GRAY SHS
- 10 CRM OOC LS W/ P-F OOC Ø-NS  
& LT GRAY CKY LS-NS
- 20 LTCRM-BUFF SLI-FOSS LS  
POOR Ø-NS NO ODOR
- 30 CRM-BUFF LS-AA-NS NO ODOR

NO KICKS

← Visc: 50  
WT: 9.2  
LCM: 1\*

NO KICKS

← Visc: 54  
WT: 9.3



40 LT TAN ROOT BEER SLI-FOSS LS  
POOR  $\phi$  - NS NO ODOR

50 LT CRM SUB DOC LS P-FOOC  $\phi$   
NS NO ODOR

60 LT TAN BUFF SLI-FOSS LS  
POOR  $\phi$  - NS

← VISC: 57  
WT: 9.3#  
LCM: 2#

70 LT CRM-SLI-FOSS LS PLY CLY  
POOR  $\phi$  - NS NO ODOR

80 GRY-BLK SHS & FEW GRY Lty LS  
POOR  $\phi$  - NS

← VISC: 55  
WT: 9.4  
LCM: 2#  
30 UGK HW

90 LOTS GRY-BLUE-BLK SHS  
CRM-BUFF SLI-FOSS LS-NS

00 BUFF-LT TAN SEMI-DOC LS  
P-F  $\phi$  - NS NO ODOR

10 V. LT TAN BUFF FN-XLN Dolo LS  
P-F INTER. GRAN  $\phi$  - NS NO ODOR

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

← 30 UGK HW

29) LOTS BLK SHS!  
30 MIN: LT CRM SLI-FOSS LS  
POOR  $\phi$  - NS NO ODOR  
60 MIN: LT CRM-LT TAN SLI-FOSS  
LS POOR  $\phi$  - NS NO ODOR

40 LT CRM-LT TAN SLI-FOSS LS  
POOR  $\phi$  - NS

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

ADD PRE-MIX

60 DIRTY GRY-BUFF LS POOR  $\phi$   
NS

70 INC GRY LS & GRY SHS

80 GRY-BUFF-TAN SLI-FOSS LS  
SOME Lty POOR  $\phi$  - NS

90 WH-CRM-TAN FN-XLN CLY LS  
POOR  $\phi$  - NS, NO ODOR

← VISC: 55  
WT: 9.3#

00 LOTS GRY-TAN Lty LS POOR  $\phi$   
NS NO ODOR

10 LOTS GRY-TAN-BRN FOSS Lty LS  
DUSE INC GRY BLK SHS

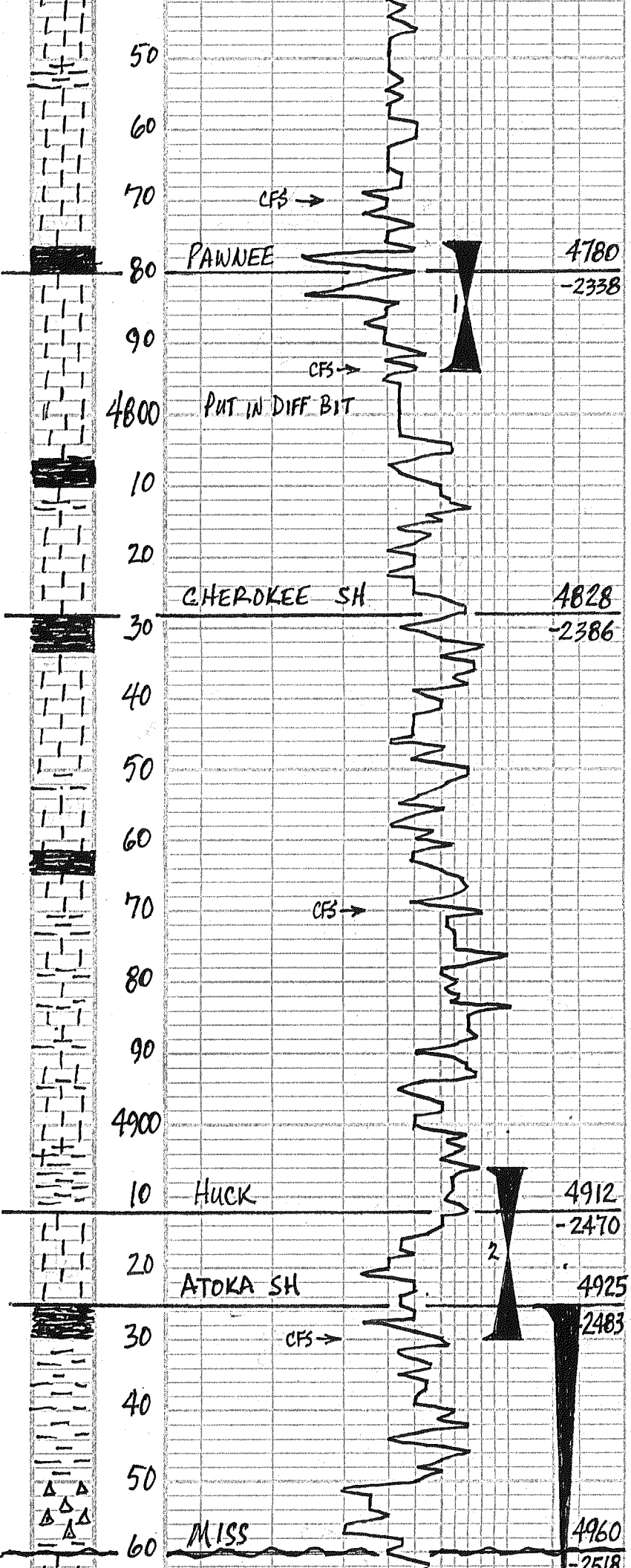
20 LT GRY-BUFF-TAN SLI-FOSS  
LS POOR  $\phi$  - NS NO ODOR

30 LOTS LT CRM SLI-FOSS LS  
POOR  $\phi$  - NS

← VISC: 55  
WT: 9.3

40 LT GRN SH & CRM LS - POOR  $\phi$   
NS NO ODOR

50 CRM-TAN FN-XLN LS - NS



60 DK GRAY LT LS - NS & BLK SHS

70) CRM-LT TAN SLI-FOSS MEANLY  
LS POOR  $\phi$  - NS NO ODOR  
30 MIN: LOTS LT TAN - BUFF SLI-  
FOSS LS POOR  $\phi$  - NS NO ODOR  
60 MIN: LT CRM SLI-FOSS LS  
POOR  $\phi$  - NS NO ODOR  
80) LT CRM - LT TAN SLI-FOSS LS  
POOR  $\phi$  - NS NO ODOR  
90) BLK - DK GRAY SHS

MUD-CO ✓  
VISC: 53 FILT: 8.8  
WT: 9.4 CHL: 5,700

PULLED 25 STDS, FIRST  
17 PULLED 40K OVER,  
COND. HOLE 1 HR.  
PIPE STRAP, 6' OFF  
SHT = Y2

90) LT GRAY  $\Delta$ -FOSS LS DNSE & BLK SH  
30 MIN: 3 PLS LT CRM SLI-FOSS LS  
W/ LT TAN NO FO, FT ODOR ON BRK  
PTLY CKY  
60 MIN: INC WH CKY NO SHOW, NO ODOR  
00 CRM SLI-FOSS LS POOR  $\phi$  - NS  
NO ODOR  
10) PRED WH-LT CRM FN-XLN CKY  
LS POOR  $\phi$  - NS, NO ODOR

DST #1 4776-4794  
30-30-30-30  
IF: WK BLOW BUILT TO 1/4"  
FF: V. WK - FLUSH - SURGE  
REC: 3' MUD  
SIP: 636-396  
IFP: 36-37 FFP: 38-39

20 DK GRAY LT LS & BLK SHS

30 WH-CRM-LT TAN FN-XLN CKY LS  
POOR  $\phi$  - NS, NO ODOR

LOTS TRIP GAS

40 WH-CRM CKY LS - NS & BIG BLK SH

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

60) PRED LT CRM-TAN SLI-FOSS LS  
POOR  $\phi$  - NS NO ODOR PTLY CKY

70) FEW DK GRAY-BLK SHS & LT TAN  
SLI-FOSS LS POOR  $\phi$  - NS NO ODOR  
30 MIN: LT CRM-LT TAN SLI-FOSS  
LS POOR  $\phi$  - NS PTLY CKY  
60 MIN: TAN SLI-FOSS LS - NS

MUD-CO ✓  
VISC: 53 FILT: 9.6  
WT: 9.3 CHL: 5,900

MBC HERE TO FIX V  
GAS DETECTOR

80) WH-LT GRAY-BUFF SEMI-ODL LS  
POOR  $\phi$  - NS DNSE-CKY

90) LT CRM SEMI-ODL LS HARD DNSE  
P.F.  $\phi$  - NS NO ODOR

00) WH CRM-BUFF SEMI-FOSS LS  
P.F.  $\phi$  - NS NO ODOR, INC SHS  
GRY & BLK

10) WH-CRM-BUFF LS DNSE-CKY  
POOR  $\phi$  - NS NO ODOR

DST #2 4906-4930  
30-45-45-60  
IF: WK BLOW BUILT TO 2 1/4"  
FF: V. WK BLOW BUILT TO Y2  
REC: 7' MUD  
SIP: 85-138  
IFP: 43-44 FFP: 42-44

20) CRM-TAN-LT GRAY SLI-FOSS LS POOR  $\phi$   
NS ARIES FT ODOR

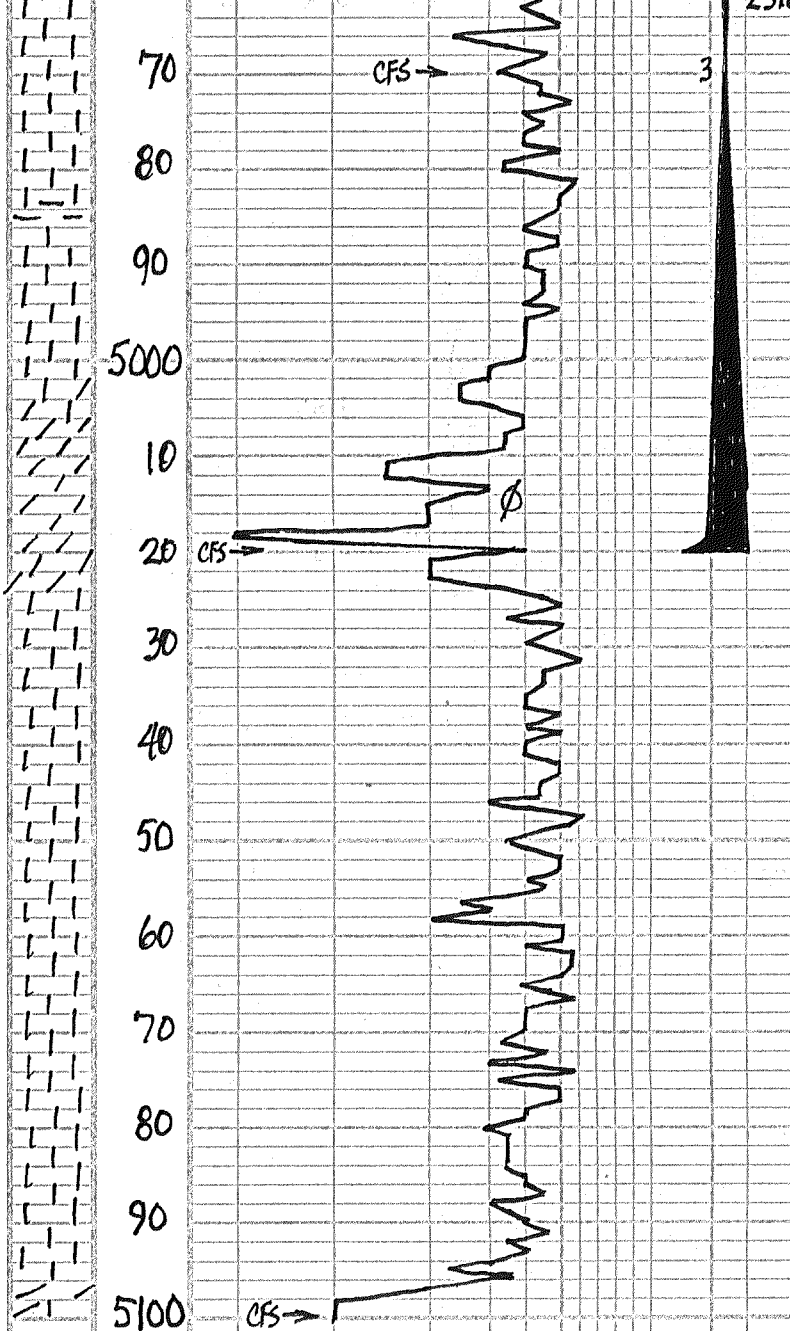
30) CRM-LT TAN LS W/SLI-FOSS POOR  
W/ SCAT LT TAN LT-FAIR ODOR NFO  
30 MIN: INC LT CRM SLI-FOSS LS  
W/ SCAT LT TAN NO FO LT-FAIR ODOR  
60 MIN: FEW PLS LT TAN LS W/P.F.  
W/ SCAT LT TAN LT ODOR 20LGR  
CARBIDE TEST GOOD, RICK HW  $\pm$  70  
40) VARI: COLAR SHS, BRN, GRAY, RUST  
GRN EARTY

50) PRED GRN, GRN, PURPLE SHS FEW GOLD  
FEW LT CRM SEMI-CL  $\Delta$  - NO  $\phi$  - NS  
& CRM FN-XLN LS DNSE-CKY - NS

60) PRED SHS - GRAY - PURPLE GRN GOLD,  
SOME BANDED, FEW GEN. 304 QRTZ,  
NS NO ODOR

NO KICKS

70) LOTS WH-PEACH-ORANGE  $\Delta$  W/ SCAT  
V.G.  $\phi$  - NS 10 PLS W/ S DRFO NO ODOR  
TRACE GAS BUR NO 1 SST



RTD = 5100'  
LTD = 5100'

30 MIN: WH - LT CRM FN - XLN LS  
POOR  $\phi$  - NS NO ODOR

60 MIN: INC WH  $\Delta$  & WH CRM  
CHKY LS - NS NO ODOR

80 MDT SHS FEW GRN LS WH CRM  
FN - XLN CHKY LS - NS NO ODOR

90 PRED WH - LT CRM MICRO - OOL LS  
PTLY CHKY POOR  $\phi$  - NS NO ODOR

00 PRED WH - LT CRM MICRO - OOL LS  
TRY TO CHKY POOR - F  $\phi$  NS NO ODOR

10 PRED WH MICRO - OOL CHKY LS POOR  $\phi$   
NS NO ODOR

20) LOTS LT TAN: BUFF DOLD LS W/FEW  
LT SCAT STN, NO FO, FT ODOR?

30 MIN: LOTS LT TAN: GRN: BUFF DOLD  
& DOLD LS FEW W/ SCAT STN NO FO  
FT ODOR: PTLY CHKY SALT & PEPPER

60 MIN: LOTS TAN DOLD FN - GR SUGAR  
DOLD W/ FAIR INTER - XLN  $\phi$  FEW W/STN  
NO FO FT ODOR ON BK PTLY CHKY

70 PRED SHS JUNK FROM TRIP

40 WH - LT CRM FN - XLN CHKY LS POOR  
 $\phi$  - NS, NO ODOR

50 PRED WH - LT CRM FN - MD - XLN LS  
CHKY POOR  $\phi$  - NS, NO ODOR

60 FLOOD WH - LT CRM CHKY LS - NS  
FEW WH  $\Delta$  POOR  $\phi$  - NS

70 FLOOD PURE WH FN - XLN LS  
PTLY CHKY FEW WH  $\Delta$  - NS  
NO ODOR

80 WH - LT CRM FN - XLN LS POOR  $\phi$   
NS NO ODOR

90 WH - LT CRM FN - XLN LS & FEW  
DOLD - LS P - F  $\phi$  - NS NO ODOR

00) PURE SNOW WH CHKY LS - NS

30 MIN: WH FN - XLN DOLD & LS POOR  
 $\phi$  - NS NO ODOR WH - LOOSE CK

60 MIN: PURE WH CHKY LS NS FEW  
NO KICK: TRY VUG DOLD - NS

MUD - COV  
VISC: 51 FILT: 8.8  
WT: 9.3 CHL: 4,800  
LCM: 1#  
ADDING LCM TO 3#

DST #3 4925-5020  
30-45-45-60  
IF: WK BLOW BUILT TO 4"  
FF: WK BLOW BUILT TO  
REC: 90' MUD  
SIP: 1481-1460  
IFP: 89-101 FFP: 107-122

MUD - CO CK  
VISC: 53 FILT: 10.4  
WT: 9.65 CHL: 6,800  
ADDING PRE-MIX

E @ 9:40 AM WENS MARCH 20, 13  
PULLED 10 STD SHORT TRIP - COND  
HOLE 1 1/2 HRS - CAME OUT FOR  
E-LOGS.





**#1 Reynolds-Potosi**

2580' FSL & 2080' FEL

270'N & 100'W of N/2 NW SE Section 13-27S-24W

Ford County, Kansas

API# 15-057-20881-0000

Elevation: 2432' GL, 2442' KB

Sample Tops			Ref. Well
Anhydrite	NA		
B/Anhydrite	NA		
Stotler	3475'	-1033	-9
Heebner	4140'	-1698	-6
Lansing	4260'	-1818	-6
Muncie Shale	4442'	-2000	-6
Stark Shale	4567'	-2125	-7
Hush	4608'	-2166	-4
BKC	4645'	-2203	-7
Marmaton	4710'	-2268	-12
Altamont	4722'	-2280	-8
Pawnee	4779'	-2337	-11
Cherokee Shale	4828'	-2386	-9
Huck	4914'	-2472	-11
Atoka Shale	4927'	-2485	-13
Mississippian	4962'	-2520	-11
RTD	5100'	-2658	

# ALLIED OIL & GAS SERVICES, LLC 059365

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Energy Services

DATE <u>3-11-13</u>	SEC. <u>13</u>	TWP. <u>27</u>	RANGE <u>24N</u>	CALLED OUT	ON LOCATION	JOB START <u>12:00 AM</u>	JOB FINISH <u>1:00 AM</u>
LEASE <u>Reynolds</u>	WELL# <u>1</u>	LOCATION <u>FT Dodge 2E 13 1/2E</u>			COUNTY <u>Ford</u>	STATE <u>TX</u>	
OLD OR (NEW) (Circle one) <u>NEW</u>			SINCE				

CONTRACTOR <u>Val Energy #1</u>	OWNER
TYPE OF JOB <u>Surf Gels</u>	
HOLE SIZE <u>12 1/4</u>	T.D.
CASING SIZE <u>6 5/8</u>	DEPTH <u>413</u>
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15 FT</u>	
PERFS.	
DISPLACEMENT <u>25.35 bbls Freshwater</u>	
EQUIPMENT	
PUMP TRUCK # <u>366</u>	CEMENTER <u>Austin Chambers</u>
BULK TRUCK # <u>609-112</u>	HELPER <u>Charles Kinyn</u>
BULK TRUCK #	DRIVER <u>Austin Riley</u>
BULK TRUCK #	DRIVER

CEMENT	
AMOUNT ORDERED <u>250 STS Class A</u>	
<u>3/4 cc 2 1/2 gal</u>	

COMMON	<u>250</u>	@ <u>17.90</u>	<u>4,475.00</u>
POZMIX		@	
GEL	<u>5</u>	@ <u>23.40</u>	<u>117.00</u>
CHLORIDE	<u>9</u>	@ <u>64.00</u>	<u>576.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>270.83</u>	@ <u>2.48</u>	<u>671.65</u>
MILEAGE	<u>12.35 x 50 x</u>	<u>2.60</u>	<u>1,605.82</u>
			TOTAL <u>7,445.47</u>

**REMARKS:**

Break circulation, up to Big Road  
Pump 5 bbls Freshwater Ahead  
Mix 250 Class A 3/4 cc 2 1/2 gal  
Displace 25.35 bbls Freshwater  
4 1/2 hours  
Cement Did Circulate  
Plug Down 12:30 AM  
Big Down

**SERVICE**

DEPTH OF JOB	<u>413</u>
PUMP TRUCK CHARGE	<u>1512.35</u>
EXTRA FOOTAGE	@
MILEAGE	<u>HUM 50 @ 7.70 = 385.00</u>
MANIFOLD	@
<u>HUM 50 @ 4.70 = 220.00</u>	
TOTAL <u>2,117.25</u>	

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

**PLUG & FLOAT EQUIPMENT**

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL _____		

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.

PRINTED NAME X Walter Parcell  
 SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 9,562.72  
 DISCOUNT 2,390.68 IF PAID IN 30 DAYS  
7,172.04

Thank You!!

[Signature]

# ALLIED OIL & GAS SERVICES, LLC 060073

Federal Tax I.D. # 20-8851475

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

SERVICE POINT: Oakley, KS

DATE <u>3-20-13</u>	SEC. <u>13</u>	TWP. <u>27</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION <u>10:50pm</u>	JOB START <u>11:00pm</u>	JOB FINISH <u>12:00pm</u>
LEASE <u>Reynolds</u>	WELL # <u>1</u>	LOCATION <u>Fort Dodge 2 E, 15, 1/2 E,</u>			COUNTY <u>Ford</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>St winfo</u>			

CONTRACTOR Dal #1 OWNBR Same

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. 3100' CEMENT

CASING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_ AMOUNT ORDERED 250 SK 64404890

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_ 1/4 # 5lb seal

DRILL PIPE 4 1/2 DEPTH 1485'

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_ COMMON 150 SK @ 12.90 2685.00

MEAS. LINE \_\_\_\_\_ SHOES JOINT \_\_\_\_\_ POZMIX 100 SK @ 9.35 935.00

CEMENT LEFT IN CSG. \_\_\_\_\_ GBL 9 SK @ 23.40 210.60

PERFS. \_\_\_\_\_ CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_

DISPLACEMENT 1386 bbl ASC \_\_\_\_\_ @ \_\_\_\_\_

EQUIPMENT Flow 63# @ 2.77 187.11

PUMP TRUCK CEMENTER Lakone & Wente

# 423/281 HELPER Paul Beaver

BULK TRUCK \_\_\_\_\_ @ \_\_\_\_\_

# 396/306 DRIVER Joe Halcom (MLA)

BULK TRUCK \_\_\_\_\_ @ \_\_\_\_\_

# \_\_\_\_\_ DRIVER \_\_\_\_\_ @ \_\_\_\_\_

HANDLING 267.5 SK @ 2.40 665.88

MILBAGE 11.21 mi @ 2.60 291.46

TOTAL 6140.89

REMARKS:

Mix 50 SK cement 1475'  
Mix 80 SK cement 900'  
Mix 50 SK cement 450'  
Mix 20 SK cement 60'  
Plug H. H. - 20 SK cement  
Plug R. H. - 30 SK cement

SERVICE

DEPTH OF JOB 1475'

PUMP TRUCK CHARGE 2249.84

EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_

MILBAGE MHD 50 @ 7.70 385.00

MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_

MFLD. 50 @ 4.40 220.00

TOTAL 2854.84

CHARGE TO: Ritchie Exploration

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____
_____	@ _____

TOTAL \_\_\_\_\_

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.

PRINTED NAME Walter Purcell

SIGNATURE Walter Purcell

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 8995.73

DISCOUNT 2,248.93 JR PAID IN 30 DAYS

6,746.80 Net.

*[Handwritten mark]*



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

July 02, 2013

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

Re: ACO1  
API 15-057-20881-00-00  
Reynolds-Potosi 1  
SE/4 Sec.13-27S-24W  
Ford 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