



Confidentiality Requested:

Yes  No

# KANSAS CORPORATION COMMISSION 1128640 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: \_\_\_\_\_



1128640

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:  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> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	Kuhn 19A 1
Doc ID	1128640

Tops

Name	Top	Datum
Anhydrite	2255	+500
B/Anhydrite	2293	+462
Stotler	3511	-756
Heebner	3868	-1113
Lansing	3907	-1152
Muncie Shale	4048	-1393
Stark Shale	4132	-1377
Hush. Shale	4162	-1407
BKC	4190	-1435
Altamont	4230	-1475
Pawnee	4306	-1551
Myrick	4346	-1591
Fort Scott	4385	-1630
Cherokee Shale	4414	-1659
Mississippian	4485	-1730

# MIKE ENGELBRECHT

Licensed Geologist No. 354

2515 Spring Meadow  
Wichita, KS 67205

Phone: 316-721-9226  
Cell: 316-641-8003

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

OPERATOR **RICHELIE EXPLORATION INC.**

LEASE #1 **KUHN 19A**

FIELD **WILDGAT**

LOCATION **1900' FNL  $\frac{1}{2}$  1490' FEL = E/2 SW NE**

SEC. **19** TWP. **12** RGE. **28 W**

COUNTY **GOVE** STATE **KS.**

CONTRACTOR **DUKE DRILLING RIG# 2**

COMP. **12-3-12** COMP. **12-14-12**

RTD **4616** LOG TO **4616** RTD

SAMPLES SAVED FROM **3550'** TO **4616'** RTD

DRILLING TIME KEPT FROM **3400'** TO **RTD**

SAMPLES EXAMINED FROM **3550'** TO **RTD**

GEOLOGICAL SUPERVISION FROM **3684'** TO **RTD**

WAD UP **DISPL @ 3380'** TYPE HOOD **CHEMICAL**

API # **15-063-22,065-00-00**

FORMATION	LOG	PART 1	SAMPLE	DEPTH	SYNCT. COMP.
ANHYDRITE	2254 + 501		2255 + 500		+2
BASE	2290 + 465		2292 + 463		-3
STOTLER	3510 - 755		3511 - 756		-22
HEEBNER SH	3865 - 1110		3867 - 1112		-19
LANISING	3905 - 1150		3906 - 1151		-25
MUWIE SH	4044 - 1289		4046 - 1291		-28
STARK SH	4132 - 1377		4132 - 1377		-18
BKC	4182 - 1427		4183 - 1428		-12
ALTAMONT	4228 - 1473		4229 - 1474		-14
PRUNEE	4306 - 1551		4306 - 1551		-16
FT. SCOTT	4386 - 1631		4385 - 1630		-16
CHEROKEE SH	4412 - 1657		4413 - 1658		-15
MISSISSIPPIAN	4490 - 1735		4490 - 1735		-38

### ELEVATION

KB 2755

DF 2747

GL 2747

Measurements Are All From KB 2755'

### CASING RECORD

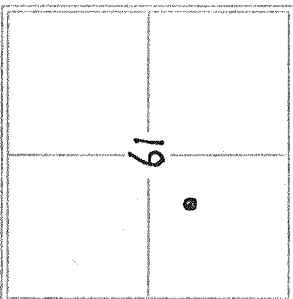
SURFACE **8 5/8" @ 235'**

w/ 165 SXS. COM.

PRODUCTION **4 1/2" @ 4600'**

w/ 225 SXS. PC @ 2234'

WELL LOG SURVEYS  
COMP/DENS/NEUTRAL  
DUAL INDUCTION



REFERENCE WELL FOR STRUCTURAL COMPARISON

TIDEWATER OIL Co. #1 E.M. BLAND  
CNE SE 23-12-29W

DATE	DEPTH	NO	SIZE	TYPE	DEPTH
12-1-12	MRT				
12-2					
12-3	SPUD RUN 8 5/8"				
12-4	DRG @ 1110'				
12-5	DRG @ 2680'				
12-6	DRG @ 3394'				
12-7	DRG @ 3950'				
12-8	DRG @ 4045'				
12-9	DST #3 @ 4103'				
12-10	COND @ 4135'				
12-11	DRG @ 4270'				
12-12	DRG @ 4400'				
12-13	DRG @ 4520'				
12-14	RAN 4 1/2" Csg.				



20  
30  
40  
50  
60  
70  
80  
90

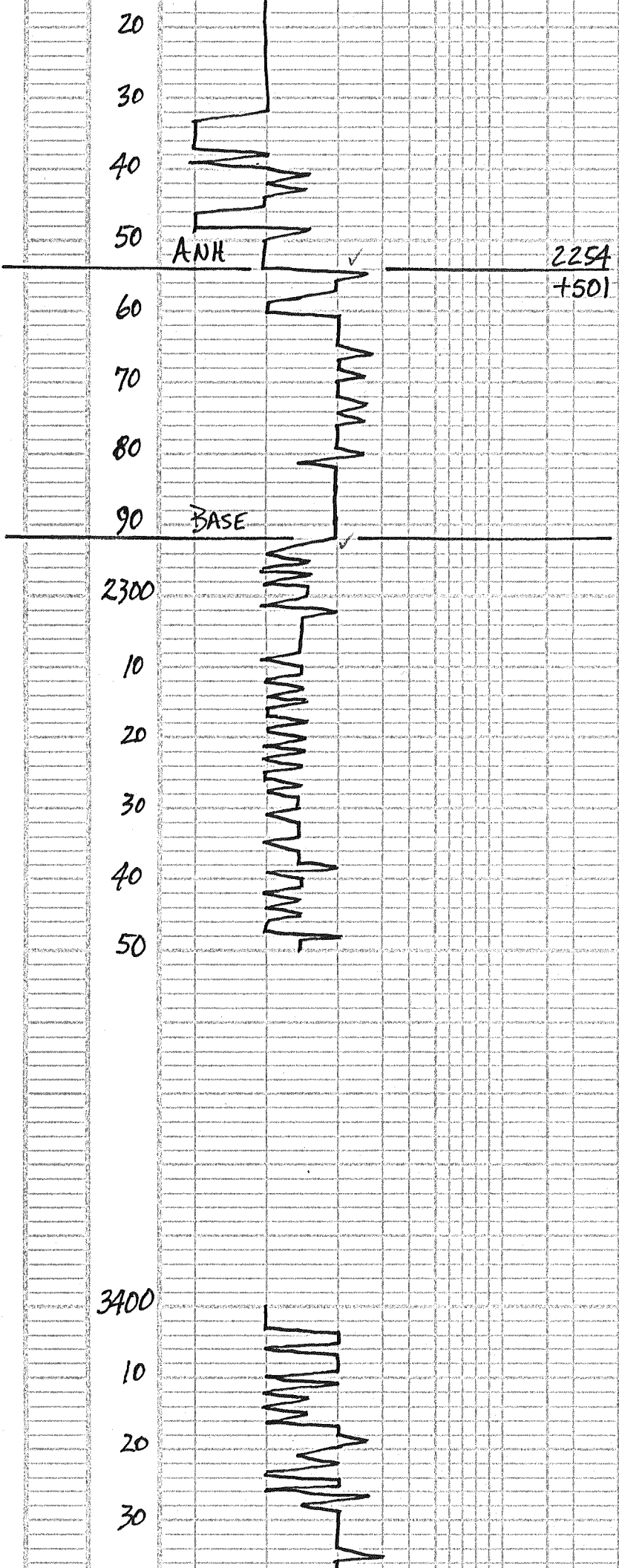
ANK

2254  
+501

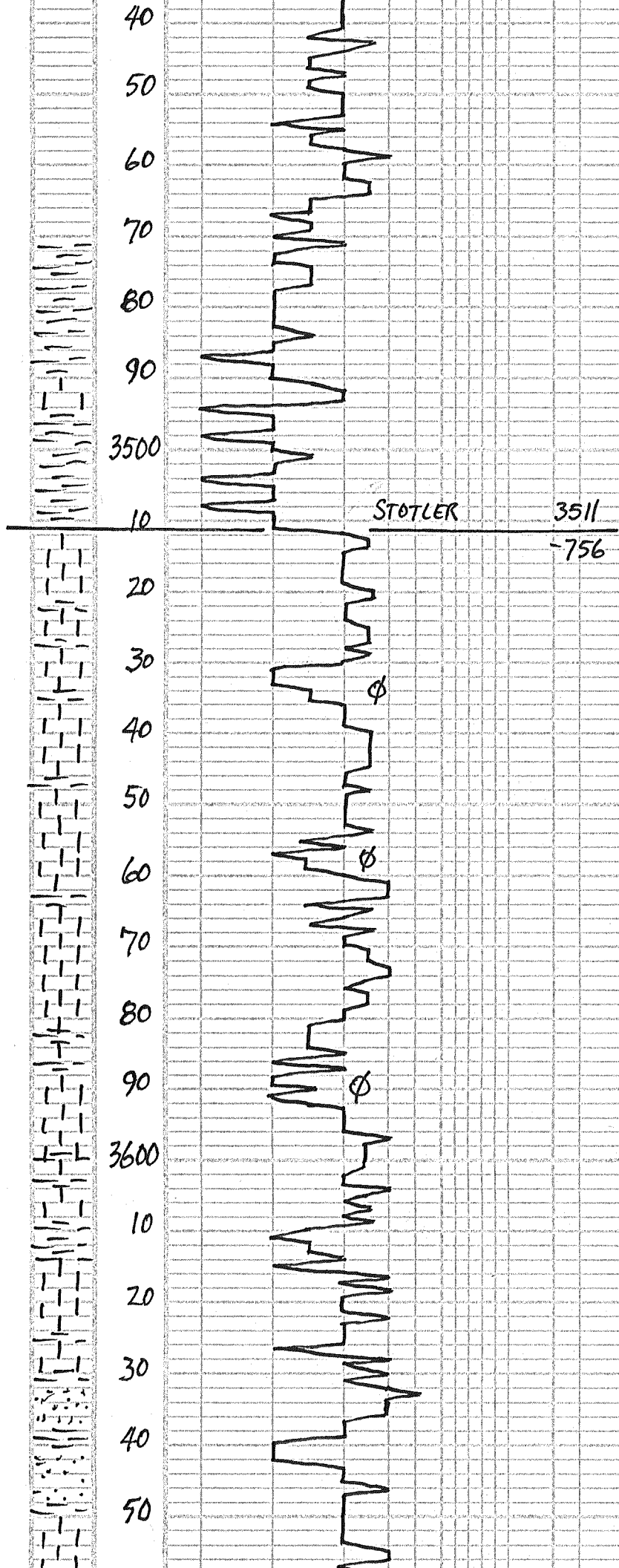
BASE

2300  
10  
20  
30  
40  
50

3400  
10  
20  
30



S.H.T = 1/2° @ 3452'



← MUD CO. ✓  
 VISC: 45 FILT: 6.8  
 WT: 8.8 CHL: 1,200

60 PRED LT CRM-BUFF FOSS LS FAIR φ  
 NS NO ODOR

ADD PRE-MIX

CRM-BUFF LS AA-NS INC GRY SH

80 LOTS PURE WH CRM LS-NS

GRM-BUFF SEMI-FOSS-DOL LS  
 POOR φ - NS NO ODOR

100 SALT N PEPPER-DOL LS POOR φ  
 NS NO ODOR

LT CRM TINY DOL LS POOR φ NS  
 SLI-CRY NO ODOR

20 LT BUFF FN-XLN DOL LS-NS

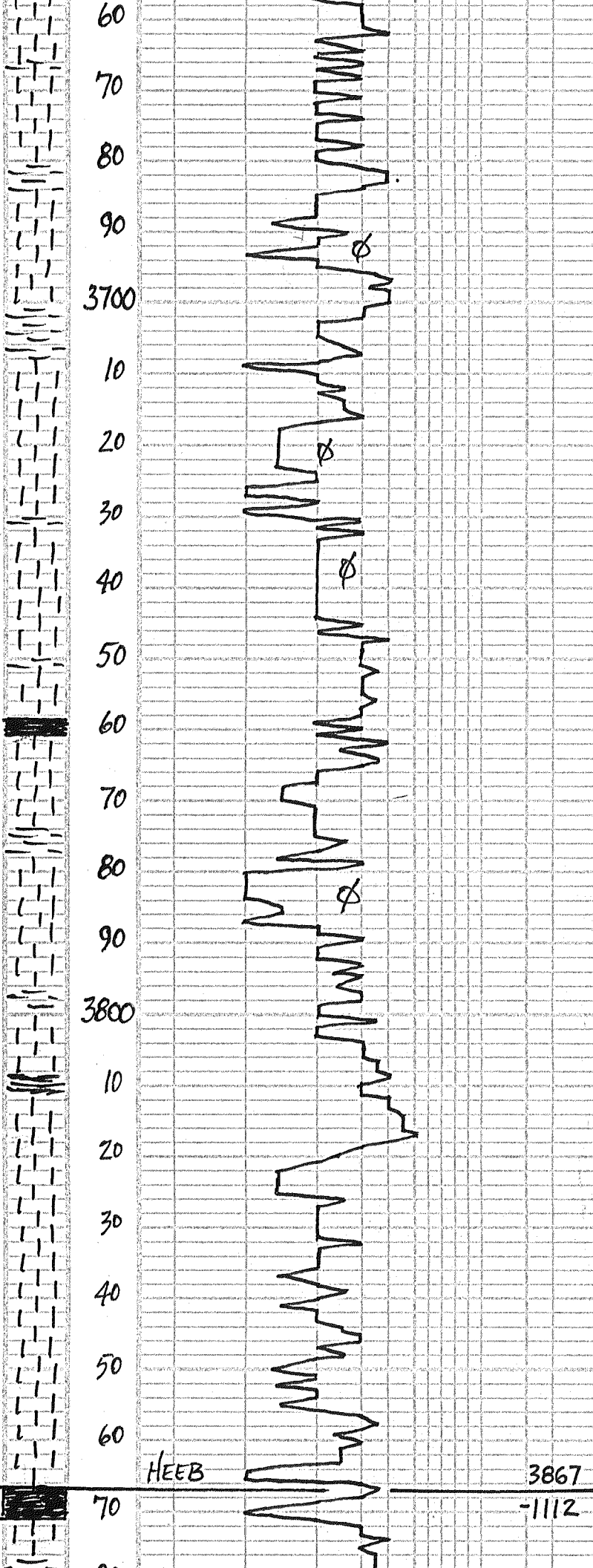
LT TAN-BUFF SLI-FOSS LS POOR φ  
 NS NO ODOR

40 GRM-BUFF FN-XLN LS POOR φ  
 NS NO ODOR

LT GRM FN-CR MICA SST-DIRTY  
 POOR φ - NS NO ODOR

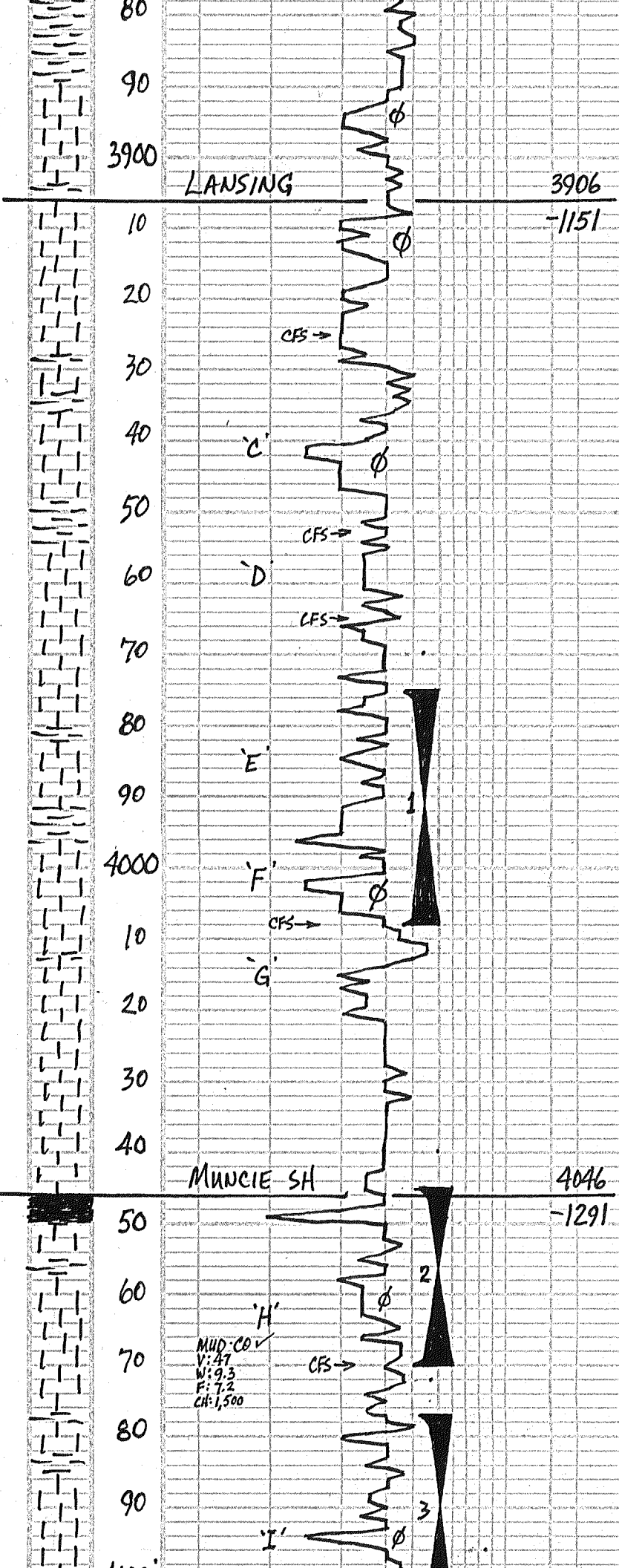
60 GRY SILTY SHS TRACE BUK SH

TAN-BUFF SEMI-DOL LS POOR φ



1.00 WH - SEMI WH - P-F  $\phi$  NS NO ODOR ← VISC: 50 WT: 9.1  
 80 LT CRM - BUFF FOSS LS P-F  $\phi$  NS NO ODOR  
 LOTS GRAY SHS & BUFF GRAINY LS POOR  $\phi$  - NS NO ODOR ← GEOL ON LOC. 5:30 PM TH 12-6-12  
 60 CRM - LT TAN SEMI-FOSS LS FAIR  $\phi$  - NS NO ODOR 1000 # P.P.  
 20 LT CRM - BUFF SEMI-ool - FOSS LS SLI SLY P-F  $\phi$  - NS  
 LT CRM - BUFF SLI - FOSS LS P-F  $\phi$  - NS  
 40 LS AA  $\frac{1}{2}$  DK GRAY - FEW BLK SHS  
 LOTS DK GRAY - BLK SHS  
 60 FLOOD LT CRM - WH CKY LS POOR  $\phi$  NS, NO ODOR ← VISC: 60 WT: 9.1  
 LT CRM - BUFF SLI - FOSS LS - NS  
 80 WH - LT CRM SLI - FOSS LS POOR  $\phi$  NS NO ODOR, FEW BLK SHS ← TIGHT CONN!  
 WH - LT CRM SLI - FOSS LS - NS  
 00 WH - LT CRM FOSS - CKY LS P-FAIR  $\phi$  - NS NO ODOR  
 FLOOD WH V. CKY LS P-FAIR  $\phi$  NS NO ODOR! LOOSE CKY ← VISC: 60 WT: 9.1  
 20 WH - LT CRM SLI - FOSS LS POOR  $\phi$  NS NO ODOR PTLY CKY TRACE DK GRAY - BLK SHS  
 LT TAN DNSE FN - XLN LS - NS ← VISC: 49 WT: 9.2 LCM: 2#  
 40 FLOOD LT CRM - TAN SEMI-FOSS LS P-F  $\phi$  - NS NO ODOR  
 LT CRM - LT TAN SLI - FOSS LS POOR  $\phi$  - NS NO ODOR  
 60 LT CRM - TAN SUB OOL FOSS LS FAIR  $\phi$  - NS SLI CKY  
 WH - CRM - LT TAN SEMI-FOSS LS P-F  $\phi$  PTLY CKY NS NO ODOR  
 80 FLOOD DK - GRAY BLK SHS ← VISC: 49 WT: 9.2 LCM: 2#  
 LT CRM - TAN FN - XLN LS - NS





LT GRAY - GRN SHS

00 LT CRM FN - XLN CLKY LS - NS  
LOTS SHS - GR4

10 FLOOD WH - LT CRM FN - XLN LS  
LOTS CLKY POOR  $\phi$  - NS NO ODOR

20 FLOOD WH - FN - XLN CLKY LS  
POOR  $\phi$  - NS NO ODOR

25) WH - LT CRM - LT TAN FN - XLN  
LS POOR  $\phi$  - NS NO ODOR

30 MIN: LT CRM SLI - FOSS LS  
POOR  $\phi$  - NS NO ODOR PTRY CLKY

60 MIN: WH - LT CRM FN - XLN LS  
POOR  $\phi$  - NS PTRY CLKY

40 WH - LT CRM CLKY LS POOR  $\phi$  - NS

50 RED - BRN SHS & WH SLI FOSS LS  
POOR  $\phi$  - NS NO ODOR CLKY

53) WH - LT CRM SLI - COC LS PTRY  
CLKY P-F FOSS  $\phi$  - NS NO ODOR

30 MIN: FLOOD WH CLKY LS FN - XLN  
POOR  $\phi$  - NS NO ODOR

60 MIN: LT CRM - LT TAN FN - XLN LS  
POOR  $\phi$  - NS NO ODOR PTRY CLKY

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

30 MIN: LT CRM SLI - FOSS LS POOR  
NS NO ODOR INC CLKY

60 MIN: WH - LT CRM SUB ODCL LS  
POOR - FAIR  $\phi$  - NS PTRY CLKY

80 WH - LT CRM SLI - FOSS LS PTRY  
CLKY POOR  $\phi$  - NS NO ODOR

90 FLOOD WH - LT CRM FN - XLN LS  
LOTS CLKY POOR  $\phi$  - NS NO ODOR

00 3 PCS LT CRM SLI - FOSS LS W/  
SCAT PPT - FOSS  $\phi$  W/SSFO, NO ODOR

08) CRM SEMI - FOSS LS W/SCAT VIK  
FOSS  $\phi$  LOTS W/LT BRN STN  
6 PCS W/V-SSFO, TRACE GAS, LT ODOR  
CLEAN  $\phi$

30 MIN: DECR IN PCS AA - FEW  
W/SCAT STN AT ODOR ON BRK

60 MIN: INC PCS W/MID BRN STN  
10 PCS W/V-SSFO IN CLKY & CLN PCS  
MED BRN FO, LT ODOR ON BRK

20 LT CRM FN - XLN LS POOR  $\phi$  - NS  
NO ODOR, DNSE - CLKY

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

40 FLOOD WH - FN - XLN LS POOR  $\phi$   
NS, NO ODOR LOTS CLKY

50 PRED WH FN - XLN CLKY LS POOR  $\phi$   
NS, NO ODOR LOTS CLKY

60 LOTS BLK SHS & LT CRM SLI FOSS  
LS POOR  $\phi$  - NS LT GRAY CLKY LS

70) FEW LT CRM & LT TAN V. FOSS LS  
W/FAIR FOSS  $\phi$  W/SAT STN & SSFO  
FAIR SWEET ODOR 'H' & 'H' IN LS

30 MIN: FAIR AMT LT CRM FOSS LS  
W/LT STN 10 PCS W/VSSLTGFO F-6D  
ODOR, CLEAN PCS

60 MIN: DECR IN PCS AA INC CLKY  
LS POOR  $\phi$  FEW W/STN STILL  
FAIR ODOR

90 WH FN - XLN SLI - FOSS LS POOR  $\phi$   
V, FEW PCS W/SCAT STN - NO FO  
LOTS CLKY, NO ODOR

← TIGHT CONN!

ADDING PRE-MIX

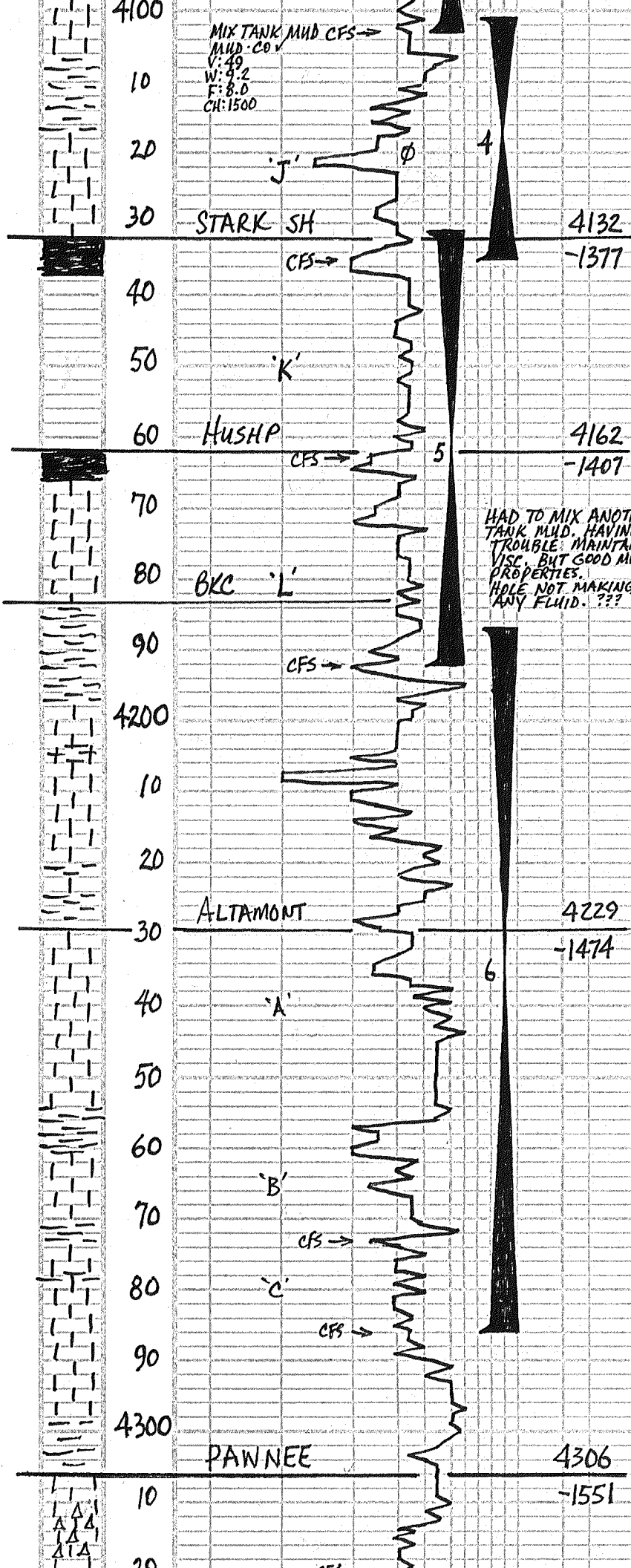
PULLED 25 STDS S.T.  
V. FEW TIGHT  
PIPE STRAP .84 LONG  
S.H.T. =  $\sqrt{2}$

DST #1 3975-4008'  
30-45-45-60  
IF: WK BUILT TO 10 1/2"  
FF: FAIR BUILT TO BOB 43 MINS  
REC: 1' CO  
150' WM = 30% W, 70% M  
120' MW = 10% M, 90% W  
271' TOTAL FLUID  
CHL = 49,000  
SIP: 1256-1227  
IFP: 49-99 FFP: 104-172  
(GTS - LT GAS ODOR)

DST #2 4045-4070  
30-45-45-60  
IF: FAIR BUILT TO BOB 10 MINS  
IS: BB. BUILT TO 4"  
FF: BUILT TO BOB IN 4 MINS  
FS: BB. BUILT TO 9 1/2"  
REC: 1260' GIP  
78' CGO = 35% G, 65% O  
63' MGO = 25% G, 25% M, 50% O  
63' GOM = 20% G, 20% O, 60% M  
204' T.F. 37° GRAV.  
SIP: 1232-1214  
IFP: 45-71 FFP: 78-113

DST #3 4077-4103  
30-45-30-45  
IF: WK BUILT TO 1 1/2"  
FF: DEAR - FLIGHT - NO HELD

MUD. CO. ✓  
V: 47  
W: 9.3  
F: 7.2  
CH: 1,500



FF: DEAD FLUSH NO FIELT  
REC: 5' OIL SPT MUD = 1% O  
SIP: 418-112  
IFP: 35-36 FFP: 37-38

20 PRED BLK GRAY-GRN SHS FEW  
CRM LS W/SCAT VLG Ø W/SSFØ

30 PRED SHS GRAY-GRN SILTY FEW LS  
AA W/SCAT STN TRACE FO NO ODOR  
35) FLOOD CRM V. FOSS LS W/F-GD FOSS  
Ø 50 PCS W/STN & SSLTG FO, GD ODOR  
SOME PCS MELT. SEMI-FRIA CLEAN RKS  
SOME SLI LTY, SMALL-MD VLG, TINY VOL  
30 MIN: DECR IN PCS BUT MD VLGs  
W/S-FSLTGFO, STILL GD ODOR, CLEAN  
60 MIN: FLOOD BLK SHS STILL LOTS  
CRM LS W/MED VLG Ø W/S-FSLTGFO  
CLEAN POR V. FEW CLK

50 FLOOD BLK SHS

60 WH-LT CRM SLI-FOSS CLK LS  
POOR Ø, FEW PCS SCAT LT STN  
SLUFF? FT ODOR OL BRK  
63) FLOOD WH-V. LT GRAY CLK LS POOR Ø  
NS NO ODOR  
30 MIN: FLOOD WH-V. LT GRAY FN-XLN  
CLK LS NS POOR Ø, NO ODOR  
PRED WH-V. LT GRAY FN-XLN CLK LS  
POOR LS NS LOTS BLK SHS  
80 TAN FLESH FN-MD-XLN LS POOR Ø  
NS NO ODOR PTLY CLK

90 LT TAN BUFF FLESH SLI-FOSS LS W/POR  
INTER-XLN Ø 3 PCS W/VSSFO, FT ODOR  
92) TAN-ROOT BEER LS W/PPT Ø W/SCAT  
STN 4 PCS W/VSSLTFO, FT ODOR  
30 MIN: LT CRM SLI-FOSS LS W/POR  
FOSS PPT Ø 2 PCS W/VSSLTFO NO ODOR  
60 MIN: FEW PCS AA PRED SHS, GRAY GRN  
EUST-BRN-BLK

10 PRED GRAY-GRN SHS & WH-CRM FN-  
XLN LS POOR Ø NS PTLY CLK

20 LT GRAY-GRN FN-GR SILTSTONE POOR  
Ø NS NO ODOR WH-CRM-TAN  
LS FN-XLN NS NO ODOR

30 WH-CRM-TAN FN-XLN LS POOR Ø  
NS NO ODOR, LOTS PYRITE & SHS

40 PRED WH-LT CRM FN-XLN LS DNSE-  
CLK POOR Ø NS 2 PCS W/STN  
50 LT CRM SLI-FOSS LS W/POR FOSS Ø  
3 PCS W/LT STN, TRACE FO SLUFF?

60 PRED GRAY-GRN SHS & LS AA-NS  
NO ODOR, FEW PCS SCAT LT STN

70 WH-LT CRM FN-XLN LS DNSE-  
CLK POOR Ø NS NO ODOR  
30 MIN: WH-LT CRM-LT TAN FN-XLN  
LS POOR Ø NS NO ODOR  
60 MIN: WH FN-XLN CLK LS POOR Ø  
NS NO ODOR  
80) WH-LT CRM VLT PEACH FN-XLN LS  
CLK POOR Ø NS NO ODOR  
30 MIN: FLOOD WH SUB DOC LS  
MOSTLY CLK POOR Ø NS NO ODOR  
60 MIN: WH-DOC CLK LS POOR Ø  
NS NO ODOR

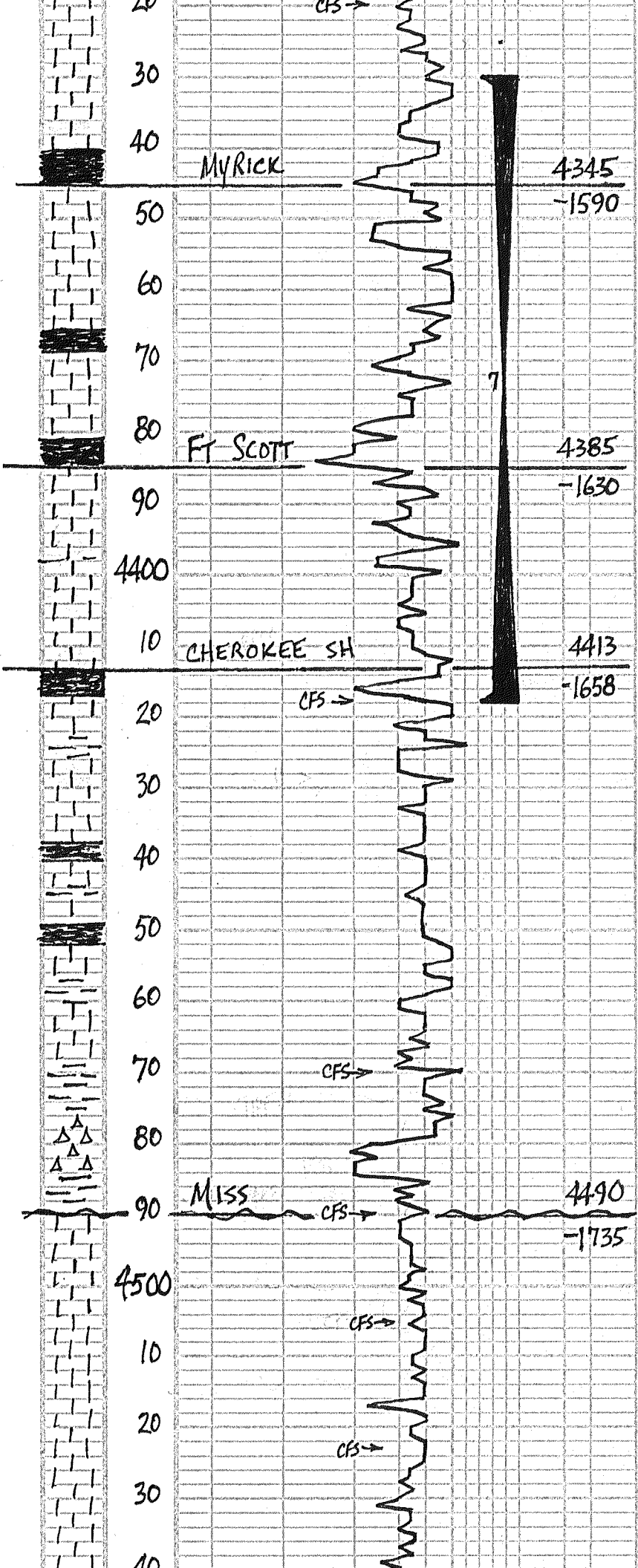
90 PRED WH FN-XLN LS DNSE-CLK  
POOR Ø NS NO ODOR

10 LOTS GRAY-BLUE-BLK SHS FEW  
FN GR SST POOR SORT LS MATRIX  
POOR Ø NS NO ODOR  
20) PURP SHS FEW GRAY SEMI-CLD  
WH-CRM FN-XLN LS POOR Ø NS  
30 MIN: FLOOD DULL WH V. LT GRAY  
& DULL WH FN-XLN LS POOR Ø  
DNSE-CLK NS NO ODOR  
60 MIN: FLOOD DULL WH-LT CRM LS  
POOR Ø NS NO ODOR

DST #4 4101-4135'  
30-45-45-60  
IF: WK BUILT TO 8 1/2"  
IS: V. WK 1/4" BB.  
FF: GD BUILT TO BOB 2 1/2 MIN  
FS: V. WK SURF BB  
REC: 290' GIP  
70' OM = 25% O, 75% M  
SIP: 275-456  
IFP: 41-54 FFP: 58-68

DST #5 4131-4192  
30-45-45-60  
IF: WK BUILT TO 1 1/2"  
FF: DEAD-FLUSH-SURGE  
REC: 5' MUD + SO  
SIP: 83-68  
IFP: 52-53 FFP: 54-55

DST #6 4187-4286'  
30-30-30-30  
IF: V. WK 1/4" SURF BLOW  
FF: DEAD-FLUSH-SURGE  
REC: 5' MUD  
SIP: 108-93  
IFP: 73-75 FFP: 75-77

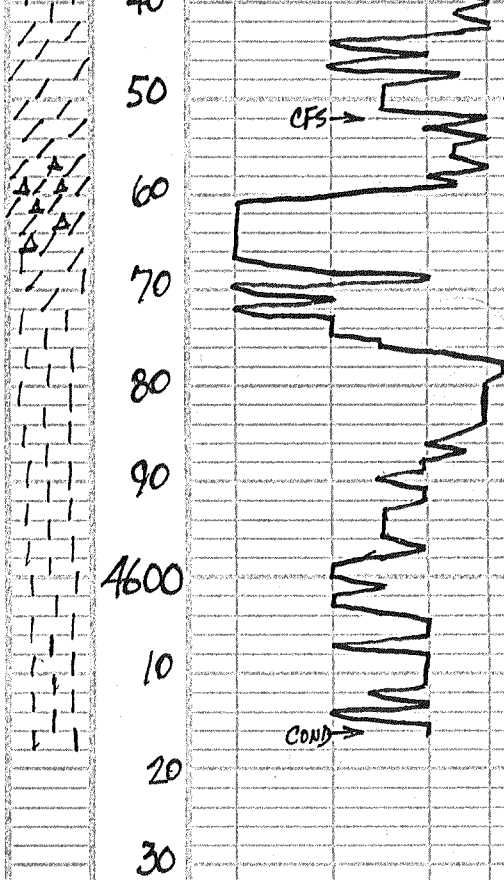


20 WH - FLOOD WH-LT CRM-LT TAN LS  
 30 WH - XLN LS - NS NO ODOR  
 40 WH - LT CRM - V. LT TAN FN-XLN  
 LS - POOR  $\phi$  - NS NO ODOR  
 50 WH - LT CRM FN-XLN LS - NS  
 INC. LT GRAY EARTH SHS  
 60 LT CRM V. COOL FOSS LS W/ FAIR  
 FOSS - INTER COOL  $\phi$  W/ SSS LTGFO  
 \* FAIR AMT PCS IS - FAIR ODOR  
 CLEAN!  
 70 WH - LT CRM FN-XLN LS, POOR  $\phi$   
 DNSE - CRK NS NO ODOR & BLK SH  
 80 WH - LT CRM SEMI-FOSS LS W/  
 FAIR FOSS  $\phi$  W/ S LTGFO LT ODOR  
 CLEAN! LOTS GRAY - GRN BLK SHS  
 90 LT CRM TAN FOSS LS W/ FAIR FOSS  
 $\phi$  SSS LTGFO LT ODOR DRED  
 BLK SHS - CLEAN RKS  
 100 FLOOD BLK SHS!  
 110 LT CRM FN-XLN LS POOR  $\phi$  FEW  
 PCS W/ LT STN IN POOR FOSS  $\phi$   
 SLI - CRK  
 120 WH - LT CRM SLI-FOSS LS W/ POOR  
 $\phi$  FEW PCS W/ SCAT. LT STN  
 VSS LTGFO FAIR ODOR SLI GRN  
 30 MIN: LT CRM LS POOR  $\phi$  FEW  
 W/ LT STN NO ODOR INC. BLK SHS  
 60 MIN: INC. BLK SHS LT CRM LS  
 POOR  $\phi$  - NS NO ODOR!  
 70 LOTS LT GRAY FN-XLN LS & LT GRAY SH  
 NS NO ODOR  
 80 FLOOD WH - LT GRAY FN-XLN LS  
 POOR  $\phi$  - NS NO ODOR DNSE - CRK  
 90 WH - V. LT GRM FN-XLN LS DNSE -  
 CRK - NS NO ODOR  
 100 FLOOD PURE WH FN-XLN LS  
 DNSE - CRK POOR  $\phi$  - NS NO ODOR  
 110 LS AA - NS & LOTS GRAY-BLUE SHS  
 & FEW GRAY V. FNGR SST - NS  
 30 MIN: WH - LT CRM FN-XLN LS  
 POOR  $\phi$  - NS LOTS GRAY-BLK SHS  
 60 MIN: LS AA - NS FEEL YELLOW  
 SHS TRACE ORANGE  $\Delta$  - NS  
 80 WH FN-XLN LS BRN SHS & FEW  
 YELL SHS & FEW GRAY  $\Delta$  - NS  
 90 WH - VELL - ORANGE WEA  $\Delta$  P-F  $\phi$   
 NS NO ODOR  
 30 MIN: LOTS VELL - GOLD WEA  $\Delta$  - NS  
 & LT PURPLE FN-GR SST - QUARTZITE  
 P-F  $\phi$  - NS NO ODOR  
 60 MIN:  $\Delta$  AA - NS & PURPLE SST -  
 QUARTZITE - NS NO ODOR  
 105 FLOOD PURPLE & BLUE - GRN SHS  
 30 MIN: FLOOD PURE WH & V. LT VELL  
 FN-XLN CRK LS POOR  $\phi$  - NS NO ODOR  
 60 MIN: WH - LT CRM - LT VELL LS POOR  
 $\phi$  DNSE - CRK - NS NO ODOR  
 WH - CRM - LT TAN FN-MD-XLN LS - NS  
 120 FLOOD WH FN-MD-XLN LS DNSE -  
 CRK POOR  $\phi$  - NS NO ODOR  
 30 MIN: WH - CRM - LT GRAY LS - NS  
 60 MIN: FLOOD PURE WH CRK LS  
 POOR  $\phi$  - NS NO ODOR  
 140 WH - LT CRM FN-MD-XLN LS POOR  $\phi$   
 NS NO ODOR CRK - DNSE  
 160 WH - CRM - LT BUFF - PEACH CRK LS  
 POOR  $\phi$  - NS NO ODOR  
 30 MIN: FLOOD WH V. CRK LS

DST #7 4330'-4418'  
 30-45-30-45  
 IF: WK BUILT TO 1 3/4"  
 FF: SURE BLOW DIED 18 MINS  
 REC: 10' MUD + OS = 17.0  
 SIP: 124.93  
 IFP: 66-71 FFP: 72.72

ADDING MUD  
 ⚡

MUD: COV  
 VISC: 62 FILT: 7.2  
 WT: 9.3 CHL: 1,700



RTD 4616'

LTD 4616'

POOR  $\phi$  - NS NO ODOR

FEEN V. LT GRAY V. FN GR DOLO POOR  $\phi$   
 NS NO ODOR SOFT  
 70 - LT GRAY DOLO AA & LT GRAY SHS  
 - GUMBO NS NO ODOR  
 80 - LT GRAY V. FN GR DOLO & LT GRAY  
 SHLY MEALY DOLO NS NO ODOR  
 90 - FLOOD V. LT BLUE-GRAY SHARP  $\Delta$   
 NS ALSO PURE WH V. FN GR DOLO  
 POOR  $\phi$  - NS NO ODOR, SOFT CLAY

00 FLESH - LT BUFF FN XLN LS  
 POOR  $\phi$  - NS NO ODOR

10 LOTS V. LT BLUE-GRAY SHARP  $\Delta$   
 NS & LT GRN FN XLN DOLO &  
 LS POOR  $\phi$  - NS SOFT CLAY

16) LOTS LT BLUE-GRAY  $\Delta$  - NS  
 LOTS LT PEACH FN XLN LS  
 POOR  $\phi$  - NS NO ODOR

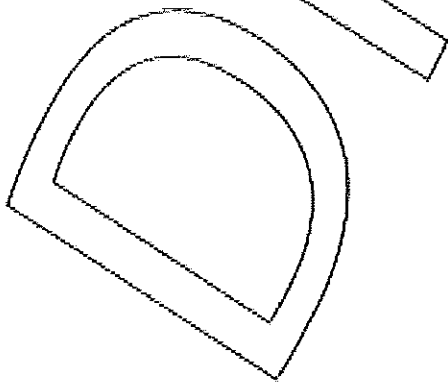
30 MIN: PRED LT BLUE-GRAY  $\Delta$   
 SHARP - NS NO ODOR

± NOON, THURS. 12-13-12  
 SHORT TRIP 7 STDS COND 1 1/2 HRS.

Form	ACO1 - Well Completion
Operator	Ritchie Exploration, Inc.
Well Name	Kuhn 19A 1
Doc ID	1128640

Tops

Name	Top	Datum
Anhydrite	2255	+500
B/Anhydrite	2293	+462
Stotler	3511	-756
Heebner	3868	-1113
Lansing	3907	-1152
Muncie Shale	4048	-1393
Stark Shale	4132	-1377
Hush. Shale	4162	-1407
BKC	4190	-1435
Altamont	4230	-1475
Pawnee	4306	-1551
Myrick	4346	-1591
Fort Scott	4385	-1630
Cherokee Shale	4414	-1659
Mississippian	4485	-1730





**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 39239  
LOCATION Oakley, KS  
FOREMAN Kelly Gabel

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
12-18-12	7173	Kubon 19A #1	19	22	28 <sup>W</sup>	GOV
CUSTOMER		MAILING ADDRESS		CITY		
Ritchie Expl		Grainite 75 1/2 E Sinto		STATE ZIP CODE		
TRUCK #		DRIVER		TRUCK #		DRIVER
399		Damon M				
528		Jordan L				

JOB TYPE Part collar HOLE SIZE \_\_\_\_\_ HOLE DEPTH 4616 CASING SIZE & WEIGHT 4 1/2 10.5#  
CASING DEPTH 4600 DRILL PIPE \_\_\_\_\_ TUBING 2 3/8 OTHER PO @ 233#  
SLURRY WEIGHT 125 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT In CASING \_\_\_\_\_  
DISPLACEMENT 2 1/2 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting, rigged up on well, pressured tool to 1200#, opened tool & checked for blow, mixed 385 SKS 60/40 P02 102 gal 1/4# Flow-seal w/ +400# cotton seed hulls, displaced with 2 1/2 bbl water, shut tool, pressured to 1200#, ran 55T tubing & reversed out, washed out pumps lines, rigged down.

*Thomas Atkins*  
*Shelly & crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401B	1	PUMP CHARGE	169.50	169.50
5406	30 mi	MILEAGE	5.00	150.00
1131	385	60/40 P02	15.10	5813.50
118B	1987#	Bentonite	.25	496.75
1107	96	Flow-seal	2.83	270.72
5407A	16.56	Ton mileage delivery	167	829.80
1105	400#	cotton seed hulls	.55	220.00
1111	100#	salt		NC
				9475.72
		Lead 1070 disc		947.58
				8528.14
		SALES TAX		490.73

**Completed**

Ravin 3737

1100RM AUTHORIZATION Thomas Atkins

TITLE \_\_\_\_\_ DATE 12-18-12

ESTIMATED TOTAL 9020.90

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

255480



**CONSOLIDATED**  
Oil Well Services, LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

*Corrected*

TICKET NUMBER 39189  
LOCATION Oakley, KS  
FOREMAN Kelly Leabe  
Walt Dined

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
12-14-12	7173	Kuhn 19A #1	19	22	28 <sup>th</sup>	GOVE	
CUSTOMER		Grainfield		TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS		75 1/2 E South into		399	Jelly P Yates		
CITY		STATE		530	Tim W		
ZIP CODE					Phillip K	Ride along	

JOB TYPE Prod HOLE SIZE 7 1/4 HOLE DEPTH 4616 CASING SIZE & WEIGHT 4 1/2 10.5  
 CASING DEPTH 4600 DRILL PIPE \_\_\_\_\_ TUBING PC top # 55 OTHER PC @ 2234  
 SLURRY WEIGHT 14<sup>2</sup> SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 21' (shoe)  
 DISPLACEMENT 72 3/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting, ran float-equipment on JT #5  
cent. 1, 4, 7, 10, 12, 14, 15, 54, 56, baskets - 7, 55, 69, 87, 96  
PC top # 55 ran pipe to bottom 100 JT total, hooked up &  
circulated for 45 min, mixed 30 SKS 60/40 Poz. 40 gal 1/4" Flo-seal,  
20 SKS MIT, pumped 5 bbl water mud flush, 5 bbl water, mixed 225 SKS  
OWC 5" Kol-seal, released plug & displaced with 72 bbl water with  
900' lift & plug landed @ 1500' released pressure, float held wash  
pump, rigged down  
Thank You  
Kelly & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401P	1	PUMP CHARGE	302.00	302.00
5406	30	MILEAGE	5.00	150.00
1126	225 SKS	OWC	22.55	5073.75
1131	50 SKS	60/40 Poz.	15.10	755.00
1110A	112.5 #	Kol-seal	1.56	630.00
1118B	172 #	Bentonite	1.25	430.00
1146	3 1/2	CAF-38	9.73	306.15
1137	53 #	FSI-26	9.69	513.57
1107	13 #	Flo-seal	2.83	36.66
5407A	12.72	Ton Mileage delivery	1.67	637.37
41103	5	4 1/2 basket (2)	266.00	1305.00
41139	8	4 1/2 turbolizer (2)	60.00	480.00
41201	1	4 1/2 Guide shoe (2)	138.00	138.00
41226	1	4 1/2 AFU insert (2)	193.00	193.00
41284	1	4 1/2 Vert collar (2)	1,890.00	6,890.00
11446	500 gal	mud flush	1.00	500.00
4404	1	4 1/2 Rubber Plug	53.00	53.00
111	100 #	salt		NC
Subtotal 15,724.43			disc 1,572.49	= 14,151.94
			TAXES TAX	863.42
			ESTIMATED TOTAL	15,015.40

Ravin 3737  
9:00 AM

AUTHORIZATION Thomas A. Act

TITLE \_\_\_\_\_

DATE 12-14-12

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

# ALLIED CEMENTING CO., LLC. 044142

Federal Tax I.D.# 20-5976804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT: SAKLEY

DATE <u>12-3-12</u>	SEC. <u>19</u>	TWP. <u>12S</u>	RANGE <u>8W</u>	CALLED OUT	ON LOCATION <u>11:30 AM</u>	JOB START <u>1:28 PM</u>	JOB FINISH <u>2:00 PM</u>
LEASE <u>Kuhns 19-A</u>	WELL # <u>1</u>	LOCATION <u>Box 31 - 1/2 S - 8 W</u>			COUNTY <u>GOV</u>	STATE <u>KS</u>	
OLD OR (NEW) (Circle one) <u>NEW</u>							

CONTRACTOR DUKE DAIG Reg # 2

TYPE OF JOB SURFACE

HOLE SIZE 22 1/4" T.D. 237

CASING SIZE 8 5/8" DEPTH 235.54

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_

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

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOULDER JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15'

PBFS. \_\_\_\_\_

DISPLACEMENT 14 BBL

OWNER SAME

CEMENT AMOUNT ORDERED 165 SKS COM 3% CC 220.961

COMMON	<u>165 SKS @ 17.90</u>	<u>2953.50</u>
POZMIX	_____ @ _____	_____
OBL	<u>8 SKS @ 28.40</u>	<u>227.20</u>
CHLORIDE	<u>6 SKS @ 64.80</u>	<u>388.80</u>
ASC	_____ @ _____	_____

EQUIPMENT

PUMP TRUCK CEMENTER 1 TERRY HEINRICH

# 422 HELPER 3 BRANDON WILKINSON

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

# 396 + 306 DRIVER 3 CHRIS HELFINGSHINE

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

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

HANDLING	<u>178.42 @ 2.48</u>	<u>442.48</u>
MILBAG	<u>8.1427 @ 2.82</u>	<u>22.96</u>
TOTAL		<u>442.24</u>

REMARKS:

Hook up to 8 5/8" casing + break  
circulation, circ for 5 min, mix  
165 SKS COM 3% CC 220.961. Displace  
with 14 BBL WATER SHUT IN  
SWEDGE. bleed off pressure.

CEMENT IN CELLAR.

THANK YOU

CHARGE TO: RITCHIE EXPLORATION

STREET \_\_\_\_\_

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

227.97

SERVICE

DEPTH OF JOB	<u>1</u>	
PUMP TRUCK CHARGE		<u>1512.25</u>
EXTRA FOOTAGE	_____ @ _____	_____
MILBAG	<u>28 MI @ 7.20</u>	<u>201.60</u>
MANIFOLD <u>SWEDGE</u>	_____ @ _____	<u>275.00</u>
<u>LIGHT VEHICLE 29 MI</u>	<u>@ 4.40</u>	<u>127.20</u>
TOTAL		<u>2126.05</u>

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

\_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

To Allied Cementing Co., L.L.C.  
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 Dion Vasquez

SIGNATURE Dion Vasquez

SALES TAX (if Any) 274.31

TOTAL CHARGES 6,560.97

DISCOUNT 1642.24 IF PAID IN 30 DAYS

4926.73  
2570



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

March 27, 2013

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

Re: ACO1  
API 15-063-22065-00-00  
Kuhn 19A 1  
NE/4 Sec.19-12S-28W  
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,  
Peter Fiorini