



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1113893
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: _____



1113893

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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MIKE ENGELBRECHT

Licensed Geologist No. 334

2513 Spring Meadow
Wichita, KS 67205

Phone: 316-721-9225
Cell: 316-641-6000

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR RITCHIE EXPLORATION, INC.

LEASE KMB OTTLEY 12C #1

FIELD WILDCAT

LOCATION 50S & 45E OF NE SW 1/4 = 1930' SEC 12 2025'

SEC 12 TWP. 13 RGE. 31W

COUNTY GOVE STATE KS.

CONTRACTOR DUKE DRUG RIG #2

COMPR. 10-23-12 COMP. 11-01-12

RTD 4710 LOG TD 4710'

SAMPLES SAVED FROM 3600 TO RTD

DRILLING TIME KEPT FROM 3500 TO RTD

SAMPLES EXAMINED FROM 3600 TO RTD

GEOLOGICAL SUPERVISION FROM 3740' TO RTD

FLUID UP 3300' TYPE FLUID CHEMICAL

API # 15-063-22,051-00 00

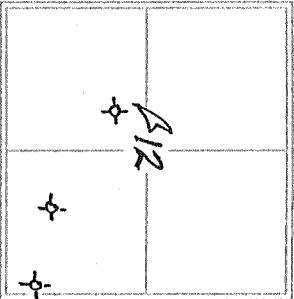
ELEVATION
KB 2920'
DF _____
GL 2912'
Measurements Are All
From KB 2920'

CASING RECORD

SURFACE 85/8" @ 213'
w/ 165 SXS.
PRODUCTION NA

WELL LOG SURVEYS
COMP/DENS/MULTIKON
DUAL INDUCTION

FORMATION	LOG	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH
ANHYDRITE		2386+	536	2386+	536	+2	
BASE		2412	+508	2412	+508	-1	
STOLLER		3594	-674	3594	-674	-4	
HEBNER		3942	-1022	3942	-1023	+4	
LANISING		3983	-1063	3983	-1063	+4	
WUNCIE SH		4136	-1216	4136	-1216	+3	
STARK SH		4224	-1304	4224	-1304	0	
MARLTON		4326	-1406	4326	-1406	-4	
PAWNEE		4415	-1495	4416	-1496	0	
FT SCOTT		4475	-1555	4476	-1556	+6	
CHEKREE SH		4502	-1582	4504	-1584	+5	
JOHNSON		4546	-1626	4550	-1630	+9	
MORROW							
MISSISSIPPIAN		4576	-1656	4573	-1653	+14	



DATE	DEPTH	HT	HT	HT	HT	HT	HT	HT	HT
10-23-12	WRT								
10-24	WDC. 215'								
10-25	DRG. 1970'								
10-26	DRG. 3002'								
10-27	DRG. 3552								
10-28	DRG. 4038'								
10-29	DRG. 4125'								
10-30	DFS @ 4250'								
10-31	DRG @ 4520'								
11-1	DRG @ 4644'								
11-2	PLUGGING								

FORMATION

DEPTH

FORMATION OR SURF

REFERENCE WELL FOR STRUCTURAL COMPARISON

Ritchie Explor #1 Beougher-Ottley

P 3A E/2 SEC 12-13-31W

20
30
40
50
60
70
80
90
2400
10
20
30
40
50
3500
10
20
30

TOP

ANHYDRITE

2386

+536

BASE

2412

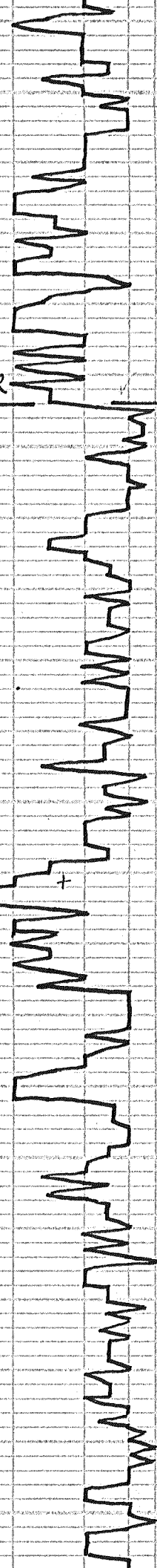
+508

DISPLACED @ 3300'

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

STOTLER

3594
-674



LOTS GRAY SHS & TAN BUFF DOC LS
P-F ϕ - NS NO ODOR

20 LOTS TAN BUFF DOC LS P-F ϕ
NS NO ODOR Vi FOSS

LT CRM SEMI-FOSS LS P-F ϕ
NS NO ODOR

40 CRM - Dull WH SLI-FOSS LS-NS

LOTS DK GRAY SHS

60 GRAY-FN-XLN LS POOR ϕ - NS

FLOOD LT GRAY SLI-FOSS LS P-F ϕ
NS NO ODOR

80 LT LT GRAY SEMI-FOSS LS P-F ϕ
NS NO ODOR

FLOOD LT CRM-LT TAN FN-XLN
Dolo LS - NS

00 LOTS LT TAN Dolo LS SEMI-FOSS
P-F ϕ - NS NO ODOR

GRAY-BUFF SLI-FOSS LS P-F ϕ
NS NO ODOR INC GRAY SHS

20 LT BRN FN GR MICA SST - NS
POOR ϕ

LOTS PEARL GRAY FN-XLN LS
POOR ϕ - NS NO ODOR

40 LT CRM SLI-FOSS LS PTLY CVL
POOR ϕ - NS

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

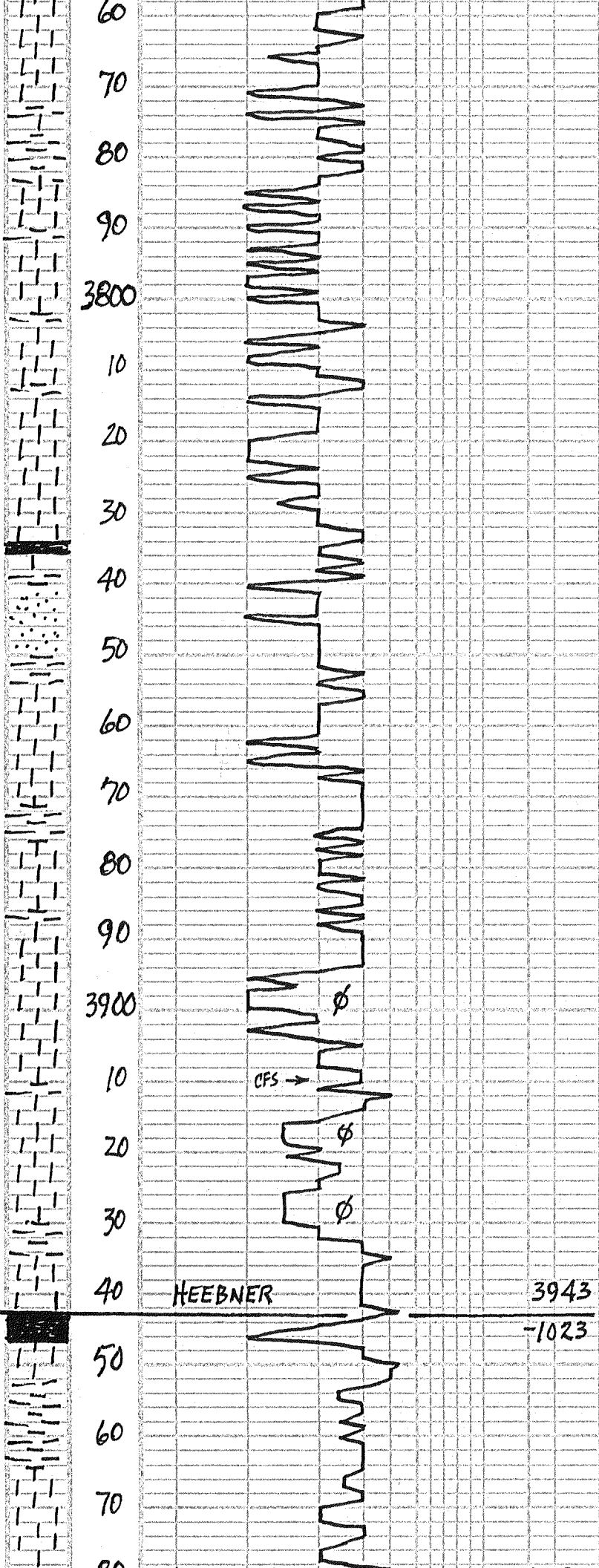
60 LT CRM SEMI-FOSS LS POOR ϕ
NS NO ODOR

WH-LT CRM SLI-FOSS LS POOR ϕ

SPLS FEW
RED BEDS

MUD COV
VISC: 48 FILT: 6.0
WT: 9.1 CHL: 2,000

GEOLOGICAL LOCATION
2:00 PM SAT. 10-27-12



NS NO ODOR

80 WH-LT CRM SEMI-FOSS LS
POOR ϕ - NS

GRY - MEALY - FN-XLN SILTY LS
POOR ϕ - NS

00 V. LT GRAY MEALY SILTY LS-NS

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

20 WH-LT CRM SEMI-FOSS LS
PTLY CKY - NS NO ODOR

GRY DNSE L $\frac{1}{2}$ LS $\frac{1}{2}$ LS AA-NS
NO GRAY SHS NO ODOR

40 FLOOD LT CRM FN-XLN DOL LS
SLI-CKY SLI-FOSS P-F ϕ - NS

975# PSI

WH-LT CRM - LT GRAY SLI FOSS LS
POOR ϕ - NS FEW BLK SHS

60 LT BUFF-TAN SLI FOSS LS DNSE
MEALY POOR ϕ - NS NO ODOR
 $\frac{1}{2}$ LT GRAY DIRTY SILTSTONE

← VISC: 46
WT: 9.2

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

80 WH-LT CRM FOSS LS FAIR ϕ - NS
NO ODOR

LT TAN LT BUFF SLI-FOSS LS
P-F ϕ - NS NO ODOR

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

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

30 MIN: FLOOD LT CRM FOSS LS
FAIR FOSS ϕ - NS LOTS CKY NO ODOR

60 MIN: LT CRM-FOSS CKY LS FAIR ϕ
NS NO ODOR

80 WH-LT CRM FN-XLN LS SLI-FOSS
NS NO ODOR

WH-LT CRM LS PTLY FOSS VUG ϕ
NS PTLY CKY

975# PSI

40 WH-LT CRM - LT TAN FUSSLD
LS FAIR ϕ - NS NO ODOR

FLOOD WH-LT CRM FN-XLN LS
DNSE-CKY POOR ϕ - NS

HEEBNER 3943
-1023

60 DK GRAY - BLK SHS

LOTS LT GRAY SH $\frac{1}{2}$ LT GRAY SILTY
SHS

← VISC: 47
WT: 9.3
LCM: 1#

80 WH-LT CRM MEALY CKY LS-NS

LT CRM FN-XLN SLI-FOSS LS
POOR ϕ - NS PTLY CKY NO ODOR

LANSING

3983

-1063

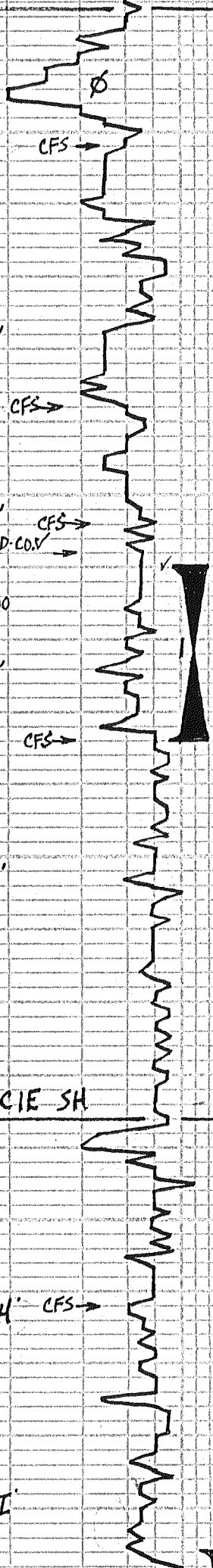
90
4000
10
20
30
40
50
60
70
80
90
4100
10
20
30
40
50
60
70
80
90
11200

visc: 56
wt: 9.2
filt: 6.4
chl: 2,100

MUNCIE SH

4136

-1216



- 00 PURE WH OOL LS PTLY ATY
POOR ϕ - NS NO ODOR
- 30 MIN: WH-LT CRM ODL LS
P-F OOL ϕ - NS LOTS CKY
- 60 MIN: WH-LT CRM FOSS LS
FAIR FOSS ϕ - NS LOTS CKY
NO ODOR
- WH-00C-FOSS CKY LS FAIR ϕ - NS
- 20 WH-LT CRM FN-XLN LS DNSE-
CKY POOR ϕ - NS NO ODOR
- 30 LT TAN FN-XLN DNSE LS POOR ϕ
NS NO ODOR
- 38) LT BLUE-GRY SHS & CRM SLI-FOSS
LS POOR ϕ - NS NO ODOR
- 30 MIN: WH-LT CRM SLI-FOSS LS
POOR ϕ NS NO ODOR FEW BRIGHT
ORANGE Δ
- 60 MIN: WH-LT CRM SLI-FOSS LS
POOR ϕ NS NO ODOR SLI CKY
- 50 PRED GRY-BRN-KUST SHS
- 54) LT CRM SLI-FOSS LS POOR ϕ NS
NO ODOR, SLI CKY
- 30 MIN: LT CRM SLI-FOSS LS POOR ϕ
NS PTLY CKY NO ODOR
- 60 WH-LT CRM SLI-FOSS LS -NS
- 70 WH-LT CRM SLI-FOSS LS DNSE-
CKY POOR ϕ - NS NO ODOR
- 80 WH-LT CRM FN-XLN LS POOR ϕ
DNSE-CKY NS NO ODOR
- 8A) LT CRM SLI-FOSS LS POOR ϕ 3RS
SCAT LT STN, NO FO, NO ODOR
- 30 MIN: 3RS LT CRM, SLI FOSS VUG
W/ P-F FOSS ϕ W/ S LT BRN FO
- TRACE GAS BUB, LT ODOR SLI CKY
- 60 MIN: DECR IN P.S W/SEO INC
IN CKY P.S
- LS & SH JUNK FROM TRIP
- 00 FLOOD WH-LT CRM FN-XLN LS
MOSTLY CKY-SOFT -NS NO ODOR
- 10 WH-LT CRM SUB OOC LS PTLY CKY
POOR ϕ - NS NO ODOR
- 20 WH-LT CRM FN-XLN CKY LS POOR ϕ
NS NO ODOR
- 30 FLOOD SNOW WH FN-XLN CKY LS
POOR ϕ - NS NO ODOR
- 40 WH-LT GRY FN-XLN LS PTLY CKY
POOR ϕ - NS, NO ODOR
- 50 BLK SHS & LT TAN GRANULAR LS
W/ P-F INTER-XLN ϕ W/ LT STN
NO FO, FT ODOR ON BREAK 3RS
- 60) 3RS LT TAN GRAN LS P-F ϕ W/
LT STN NO FO, FT ODOR ON BK
- 30 MIN: FLOOD WH FN-XLN LS
POOR ϕ - NS NO ODOR PTLY CKY
- 70 WH FN-XLN CKY LS POOR ϕ NS
- 80 WH-V LT GRY FN-XLN LS POOR ϕ
NS NO ODOR LOTS CKY
- 90 LT TAN-LT ROOT BEER LS FN-XLN
POOR ϕ - NS NO ODOR, DK GRY SH
- 00 FLOOD LT CRM-V, LT TAN FN-XLN
LS POOR ϕ - NS DNSE-CKY NO ODOR
- 30 MIN: PRED WH-LT CRM FN-XLN
CKY LS - POOR ϕ - NS NO ODOR
- 60 MIN: PRED WH-LT CRM FN-XLN

SHORT TRIP 25 STDS.
COND HOLE 1 3/4 HRS.

DST #1 4060-4084

E-F ZONE 24' ANCHOR

30-30-30-30

IF: WIK SURF BLOW DIED 6 MIN

FF: NO BLOW-FLUSH-SURGE

REC: 45' MUD

SIP: 245-378

IFP: 7-10 FFP: 10-32

TEMP: 113

S.H.T = 1°

NO STRAP-BROKE TAPE

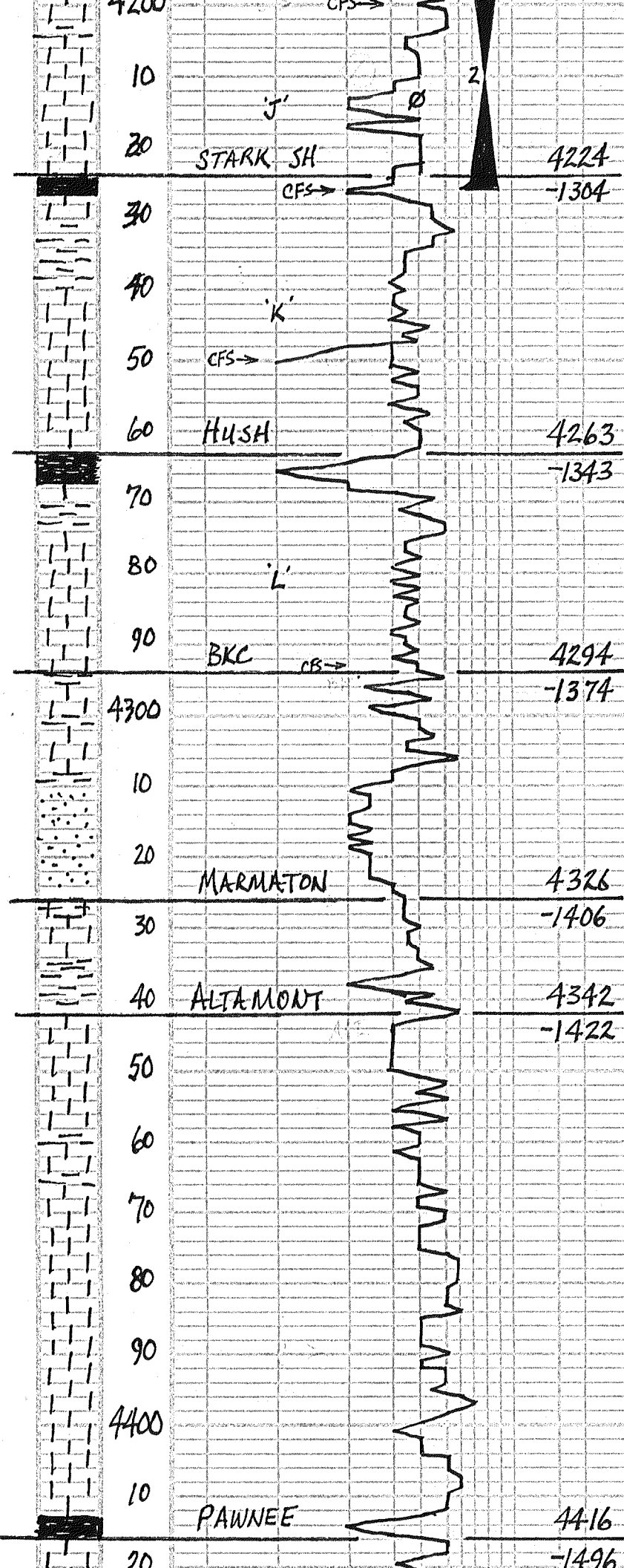
visc: 48
wt: 9.3 #
LCM: 1 1/2

MUD CO CKV
visc: 44 Filt: 6.4
wt: 9.4 chl: 2,200

ADDING PRE-MIX

PIPE STRAP .75 SHORT

DST #2 4196-4226



10. WH-LTCRM FN-XLN LS POOR ϕ - NS NO ODOR
 2. PCS W/SCAT LT STN, NO FO NO ODOR
 20. WH-LTCRM SLI-FOSS LS POOR ϕ
 4. PCS SCAT LT STN
 26) 8-10 PCS WH-CRM SEMI-FOSS-DOL
 LS W/ FAIR ϕ W/SS BRNF LT ODOR
 4 PCS W/SSFD 2 PCS SAT STN-SSFD
 30 MIN: DECREASE IN PCS AA FEW
 W/SCAT STN, NO ODOR LOTS BLK SH
 60 MIN: WH-CRM LS AA-NS & BLK SH
 40 TAN BUFF FN-XLN DNSE LS
 POOR ϕ - NS NO ODOR & BLK SH
 50 TAN BUFF FN-XLN SLI-FOSS LS
 POOR ϕ - NS NO ODOR FUSS LDS
 30 MIN: WH-LT GRAY SLI-FOSS LS
 CKY-MEALY POOR ϕ - NS NO ODOR
 60 MIN: FLOOD WH-LT GRAY CKY LS
 POOR ϕ - NS NO ODOR
 60 WH-CRM-BUFF TAN FN-XLN LS
 POOR ϕ - NS NO ODOR
 70 LOTS SMOKEY GRAY Δ - $\frac{1}{2}$ LT GRAY
 FN-XLN LS POOR ϕ - NS NO ODOR
 80 FLOOD BLK CARB SHS
 90 CRM-BUFF FN-XLN MEALY LS
 POOR ϕ - NS & LT GRAY GRN SHS
 30 MIN: FLOOD WH-LTCRM FN-XLN
 CKY LS POOR ϕ - NS NO ODOR
 60 MIN: CRM-WH-V. LT GRAY LS
 FN-XLN DNSE-CKY - NS
 PRED WH-CRM FN-XLN LS
 10 POOR ϕ - NS NO ODOR
 LT GRAY GRN SHS & LT GRAY
 MEALY LS POOR ϕ - NS NO ODOR
 20 PRED WH-V. LT GRAY FN-XLN LS
 DNSE-CKY POOR ϕ - NS
 30 LOTS LT PEACH-BRN SHS & LT GRAY
 V. FN-GR SST & SILT STONE-MICA
 POOR ϕ - NS NO ODOR
 40 LOTS LTCRM-WH CKY LS POOR ϕ
 NS NO ODOR SOFT
 50 FEW BLK SHS & LOTS LT TAN-
 CRM FN-XLN LS POOR ϕ - NS
 60 WH-LTCRM-TAN FN-XLN LS
 DNSE-CKY - NS NO ODOR
 70 LTCRM-LT TAN FN-XLN LS POOR ϕ
 NS NO ODOR
 80 LTCRM-Dull WH FN-XLN LS
 POOR ϕ - NS NO ODOR
 90 PRED WH-LTCRM FN-XLN LS
 POOR ϕ DNSE-CKY - NS NO ODOR
 00 WH-LTCRM-LT TAN FN-XLN LS
 POOR ϕ - NS
 10 LT GRAY-LT CRM FN-XLN LS - NS
 NO ODOR
 20 LT GRAY-CRM FN-XLN LS POOR ϕ
 NS NO ODOR DNSE-CKY
 30 LOTS WH-LTCRM FN-XLN LS

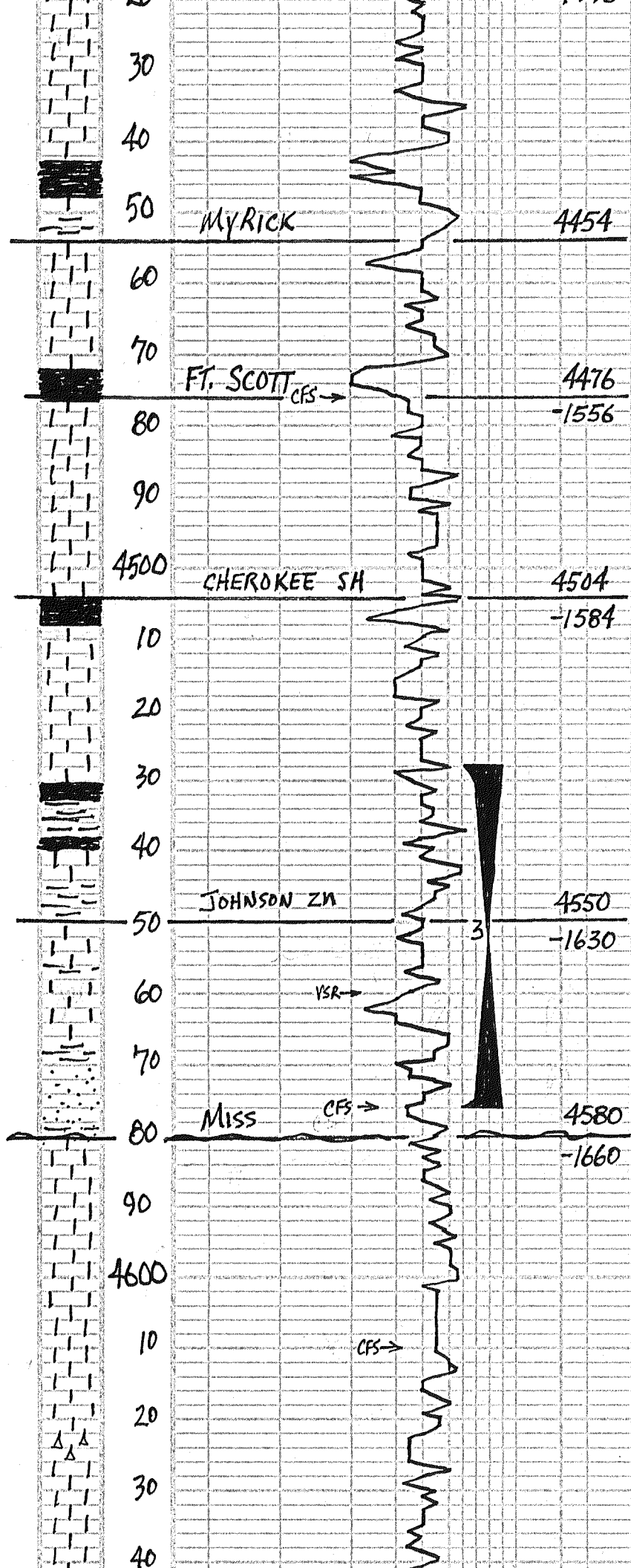
J ZONE 30' ANCHOR
 30-45-30-45
 IF: WK 3/4" BLOW THRU-OUT
 FF: WK SURF DIED 20 MINS.
 REC: 15' VSOCM = 2% OIL
 SIP: 1253-1147
 IFP: 9-14, 15-17
 TEMP: 117°

MUD CO. \checkmark
 VISC: 51 FILT: 7.2
 WT: 9.2 CHL: 2,000

VISC: 51
 WT: 9.4
 LCM: 1#

VISC: 53
 WT: 9.4

ADDING PREMIX



DNSE - CR4 FEN ATy - NS

40 FLOOD WH FN XLN LS POOR ϕ
NS NO ODOR PTL4 CR4

50 FLOOD LT GR4 FN XLN LS - SLI FOSS
POOR ϕ - NS NO ODOR

60 FLOOD BLK SHS! LS AA - NS

70 LTRM - LT TAN SLI FOSS LS POOR ϕ
NS, NO ODOR PTL4 CR4

76) PRED WH - LT CRM FN XLN LS
POOR ϕ SLI ATy - CR4 NS NO ODOR
30 MIN: FLOOD BLK SHS!

60 MIN: PRED BLK SH CRM, WH
FN XLN LS POOR ϕ - NS NO ODOR

90 LT GR4 - PEARL FN XLN LS POOR ϕ
DNSE - NS, NO ODOR, V OOL NO ϕ

00 GR4 - CRM FN XLN LS PTL4 OOL
V POOR ϕ - NS NO ODOR

10 PRED V. LT GR4 FN XLN LS POOR ϕ
DNSE - CR4 - NS, NO ODOR

20 LOTS BLK SHS!

30 FLOOD WH - LTRM FN XLN LS
POOR ϕ - NS NO ODOR DNSE -
CR4

40 WH - LT GR4 FN XLN LS POOR ϕ
CR4 - DNSE NS NO ODOR

50 FEW BLK SH $\frac{1}{2}$ LS AA - NS NO ODOR

60 TAN FN XLN SLI FOSS LS 5 PCS
W/S - FS DRFD IN P-F VUG ϕ LT ODOR

70 TAN SEMI FOSS LS PPT & VUG ϕ
15 PCS W/LT - DK STN 10 PCS W/SSLT -
DK FO, FAIR ODOR CLEAN SLI CR4
76) STILL 10 PCS TAN - CRM LS W/PET
& VUG ϕ W/SSLT & DRFD FAIR ODOR
1 INC IN CR4 PCS BUT SOME W/SSFO
30 MIN: FEW GOLD GRN GR4 FN - GR
SST - QUARTZITE POOR ϕ DIRTY - NS
60 MIN: PRED VARI COLOR SHS BUT
STILL FEW PCS JOZA W/SSFO
PRED SHS - GOLD GRN GR4 SILTY
90 LOTS SST FN - GR SHLY DIRTY POOR
 ϕ - NS NO ODOR

00 FLOOD LT TAN - CRM FN XLN LS
DNSE - CR4 POOR ϕ - NS NO ODOR

10) FLOOD WH CR4 MICRO - OOL LS
POOR ϕ - NS NO ODOR
30 FLOOD WH MICRO - OOL CR4 LS
POOR ϕ - NS NO ODOR

20 PRED WH MICRO - OOL LS PTL4
CR4 POOR ϕ - NS NO ODOR

30 WH - V. LT GR4 FN XLN LS POOR
 ϕ - NS NO ODOR

40 WH CR4 LS AA - NS & FAIR AMT
WH L V. LT GR4 SHARP A - NS

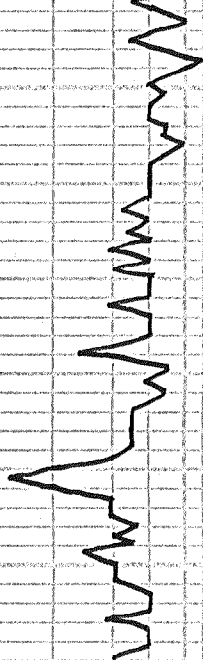
50 V. LT TAN MICRO - OOL LS POOR ϕ

JET #1 & ADD PRE-MIX

MUD COV
VISC: 59 FLIT: 7.6
WT: 9.1 CHL: 2,400

DST #3 4528-4576
JOHN ZN 48' ANCHOR
30-45-30-45
IF: WK 1/2" BLOW DIED 28MINS
FF: FLUSH - SURGE - NO HELP
REC: 60' O/S MUD = 1% OIL
SIP: 210 - 292
IFP: 9-14 FFP: 14-47
TEMP: 121°

50
60
70
80
90
4700
10



RTD 4710
LTD 4710

NS NO ODOR

60 LT TAN FN-XLN MICRO-BDOL LS
POOR ϕ -NS

70 TAN FN-XLN LS POOR ϕ -NS
NO ODOR

80 FLOOD BRN-PURPLE SHS!

← JET #1, ADD PREMIX

90 LT BUFF-TAN OOL LS POOR ϕ
NS NO ODOR LPTS SHS

00 BUFF-FN-XLN LS POOR ϕ -NS
NO ODOR

10 WH-CRM-BUFF FN-XLN LS
POOR ϕ CRM-DNSE-NS

← VISC: 56
WT: 9.3

30 MIN: LS AA-NS NO ODOR

REACHED RTD 11:30 AM
CFS 30 MIN. PULLED 10 STDS
COND HOLE 1 1/2 HRS FOR LOG



#1 KMB Ottley 12C
1930' FSL & 2025' FWL
50' S & 45' E NE SW Section 12-13S-31W
Gove County, Kansas
API# 15-063-22051-00-00
Elevation: 2912' GL, 2920' KB

Sample Tops			Ref. Well
Anhydrite	2385'	+535	+1
B/Anhydrite	2412'	+508	-1
Stotler	3594'	-674	-4
Heebner	3943'	-1023	+3
Lansing	3984'	-1064	+3
Muncie Shale	4136'	-1216	+3
Stark Shale	4223'	-1303	+1
Hush	4263'	-1343	-3
BKC	4294'	-1374	-2
Marmaton	4325'	-1405	-3
Pawnee	4416'	-1496	-1
Myrick	4453'	-1533	+3
Fort Scott	4477'	-1557	+4
Cherokee Shale	4504'	-1584	+3
Johnson	4553'	-1633	+2
B/Johnson	4573'	-1653	+1
Mississippian	4580'	-1660	+10
RTD	4710'	-1790	

ALLIED OIL & GAS SERVICES, LLC 050958

Federal Tax I.D.# 20-5976804

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

SERVICE POINT

Oakley

DATE <i>10-23-12</i>	SEC. <i>12</i>	TWP. <i>23S</i>	RANGE <i>31W</i>	CALLED OUT	ON LOCATION	JOB START <i>10:30am</i>	JOB FINISH <i>11:00am</i>
LEASE <i>KMB Otley Inc.</i>	WELL # <i>1</i>	LOCATION <i>Oakley 115 5E 25 2E</i>		COUNTY <i>Garre</i>	STATE <i>TX</i>		
OLD OR NEW (Circle one)		IN E + N into					

CONTRACTOR *Duke #2* OWNER *Same* 1.01 8.05

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* TD. *215'*

CASING SIZE *8 5/8* DEPTH *213.25'*

TUDING SIZE DEPTH

DRILL PIPE DEPTH

FOOL DEPTH

PRES. MAX MINIMUM

WEAS. LINE SHOE JOINT

CEMENT LIFT IN CSO. *15'*

DISPLACEMENT *1216.2 BBL*

CEMENT AMOUNT ORDERED *165 sks com 3% cc*

2% cc

COMMON	<i>165 sks</i>	@ <i>12.90</i>	<i>2128.50</i>
POZ MIX		@	
GEL	<i>3 sks</i>	@ <i>23.40</i>	<i>70.20</i>
CHLORIDE	<i>6 sks</i>	@ <i>64.00</i>	<i>384.00</i>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER *Andrew Foxward*

431 HELPER *2 Done Releiff*

HULK TRUCK DRIVER *3 Chris Helpertine*

386 DRIVER

HANDLING	<i>128.40</i>	@ <i>2.48</i>	<i>318.43</i>
MILBAG	<i>2.60</i>	@ <i>175.00</i>	<i>455.00</i>
TOTAL			<i>435.28</i>

REMARKS:

Cement did circulate

Thank you

CHARGE TO: *Ritchie Exploration*

FREEB

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
TOTAL		

By: 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 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)	<i>274.31</i>
TOTAL CHARGES	<i>6,369.23</i>
DISCOUNT	<i>1592.30</i> IF PAID IN 30 DAYS

2590

ALLIED OIL & GAS SERVICES, LLC 058804

Federal Tax I.D.# 20-5975004

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

SERVICE POINT:

Doyle

DATE <u>11/1/12</u>	SEC. <u>12</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00 PM</u>	JOB FINISH <u>2:00 PM</u>
WELL # <u>1</u>	LOCATION <u>Block 119 8E 35 1W N 0 E N</u>			COUNTY <u>Greene</u>	STATE <u>KY</u>		
OLD OR NEW (Circle one) <u>NEW</u>				<u>into</u>		<u>1.03</u>	<u>8.05</u>

CONTRACTOR Doyle 2

TYPE OF JOB PTA

HOLE SIZE 7 7/8 TD.

CASING SIZE 8 5/8 DEPTH 265'

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER Same

CEMENT AMOUNT ORDERED 820 60/40 400 gal

1420

COMMON 132 @ 17.00 2244.00

POZMIX 88 @ 9.50 836.00

GEL 8 @ 22.50 180.00

CHLORIDE @

ASC @

Plepanel 5516 @ 2.22 1223.20

HANDLING 216.28 @ 2.44 527.92

MILBAG 200 @ 9.867 1973.40

TOTAL 4676.20

EQUIPMENT

PUMP TRUCK CEMENTER 1 Man Ryan

431 HELPER 2 Man Retaloff

BULK TRUCK DRIVER 3 DJT Gray

396

BULK TRUCK DRIVER

REMARKS:

Max 25 SK @ 2400

Max 100 SK @ 1525'

Max 40 SK @ 225'

Max 10 SK @ 40'

Max 30 SKs Ant Hole

15 SKs Insure Hole

CHARGE TO: Artchve Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

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 Dion Vasquez

SIGNATURE Dion Vasquez

213.11

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE 2483.20

EXTRA FOOTAGE @ _____

MILBAG 22 @ 10.20 224.40

MANIFOLD @ _____

Citibank 22 @ 4.40 96.80

TOTAL 2249.79

PLUG & FLOAT EQUIPMENT

8 5/8 Wood Plug @ 107.00

TOTAL 107.00

SALES TAX (If Any) 606.45

TOTAL CHARGES 7,533.65

DISCOUNT 2260.09 IF PAID IN 30 DAYS

30/20

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

February 06, 2013

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

Re: ACO1
API 15-063-22051-00-00
KMB Ottley 12C 1
SW/4 Sec.12-13S-31W
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