



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1171234
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: _____



1171234

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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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MIKE ENGELBRECHT

Licensed Geologist No. 534

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Wichita, KS 67205

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

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR RITCHIE EXPLORATION INC.

LEASE # 1 SELEUSKY 30 CD

FIELD WILDCAT

LOCATION NE NW SE = 2293' FSL & 1650' FEL

SEC. 30 TWP. 13 RGE. 28W

COUNTY GOVE STATE KS.

CONTRACTOR Discovery Drilg RIG #1

COMP. 8-31-13 COMP. 9-10-13

RTD 4580' LOG TD 4582'

SAMPLES SAVED FROM 3500' TO RTD

DRILLING TIME KEPT FROM 3500' TO RTD

SAMPLES EXAMINED FROM 3500' TO RTD

GEOLOGICAL SUPERVISION FROM 3720' TO RTD

MUD UP DISPL 2 3348' TYPE MUD CHEMICAL

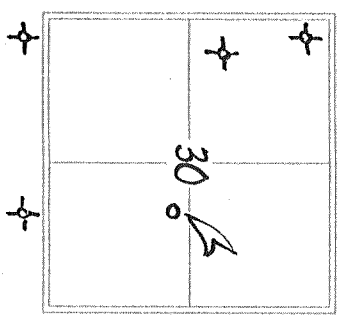
API # 15-063-22,132-00-00

FORMATION	TOP	LOG	DATE/TIME	TOP	SAMPLE	DATE/TIME	STRUCT. COMP.
ANKVD RITE	2154 + 548			2154 + 548			+14
BASE	2192 + 510			2194 + 508			+11
STOTLER	3430 - 1228			3431 - 729			+12
KEEBNER	3798 - 1096			3798 - 1096			+16
LANISING	3834 - 1132			3834 - 1132			+16
MUNCIE SH	3984 - 1282			3983 - 1281			+10
STARK SH	4073 - 1371			4072 - 1370			+16
BKC	4130 - 1428			4130 - 1428			+16
ALAMONT	4175 - 1473			4174 - 1472			+21
PAWNEE	4240 - 1538			4242 - 1540			+17
FT SCOTT	4334 - 1632			4334 - 1632			+12
CHEROKEE SH	4360 - 1658			4360 - 1658			+16
MISSISSIPPIAN	4439 - 1737			4436 - 1734			+16

ELEVATION
KB 2702'
DF 2694'
Measurements Are All From KB 2702'

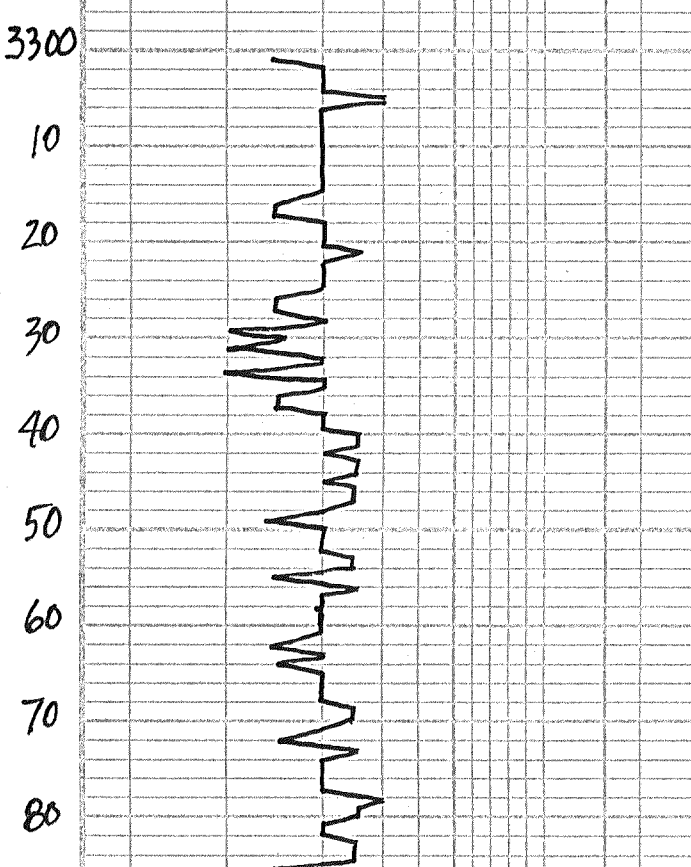
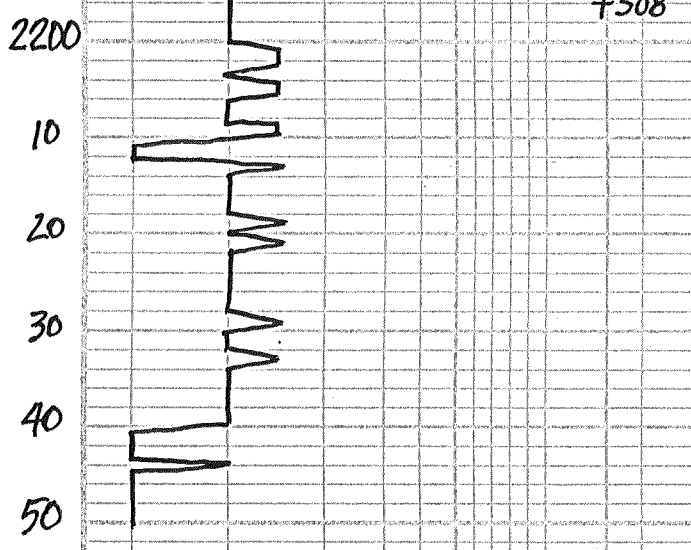
CASING RECORD
SURFACE 8 5/8" @ 228'
w/160 sxs.
PRODUCTION NA

WELL LOG SURVEYS
COMP DENIS POROSITY
DUAL INDUCTION



DATE	ACTIVITY @ 7:00 AM	DEPTH	ID	SIZE	WIRE	TYPE	DEPTH OUT
8-31-13	MISC	85/8 @ 228					
9-01	DRLG.	@ 750'					
9-02	DRLG.	@ 2788'					
9-03	DRLG	@ 3520'					
9-04	DST#1	3830'					
9-05	DRLG.	@ 4009'					
9-06	DRLG.	@ 4106'					
9-07	DST#5	@ 4230'					
9-08	DST#6	@ 4362'					
9-09	DST#8	@ 4460'					
9-10	PREP TO PLUG						

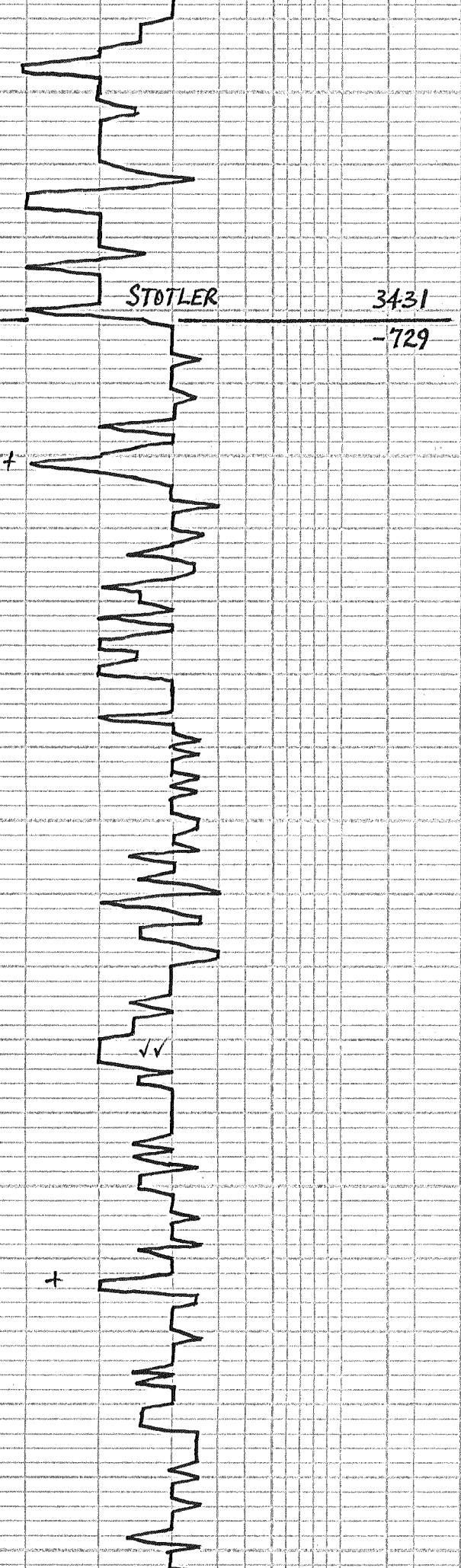
REFERENCE WELL FOR STRUCTURAL COMPARISON Don Sawson #1 EVANS Z. NW NW NW
30-13-28W



LOOSING FLUID

DISPLACED 3348'

90
3400
10
20
30
40
50
60
70
80
90
3500
10
20
30
40
50
60
70
80
90
3600



STOTLER

3431

-729

PRED GRAY FN-XLN LS. POOR ϕ NS

START 10' SPLS

20 LT GRAY - GRN GUMBO SHS $\frac{1}{2}$ LT GRAY LS
SLI - FOSS - NS NO ODOR

LT CRM - LT GRAY SLI - FOSS LS - NS

40 LT CRM - LT BUFF SEMI-FOSS LS
P-F FOSS ϕ NS NO ODOR

CRM - LT BUFF LS FAIR ϕ - NS
NO ODOR

60 GRAY - BUFF FOSS LS - NS NO ODOR

CRM - BUFF FOSS LS - NS NO ODOR

80 GRAY - BUFF FOSS LS P-F ϕ NS
INC GRAY SHS

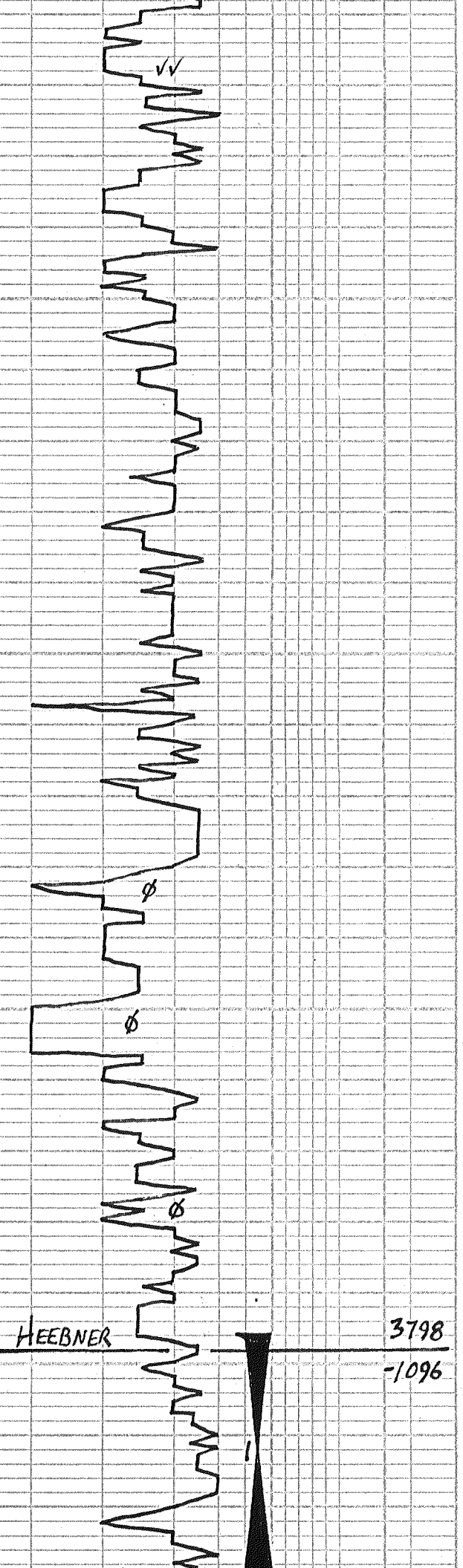
GRAY - BUFF SLI - FOSS LS - NS
LOTS GRAY SHS

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

CRM - BUFF FUSSED LS P-F ϕ NS

20 CRM - BUFF GRAY LS P-F ϕ NS
NO ODOR

10
20
30
40
50
60
70
80
90
3700
10
20
30
40
50
60
70
80
90
3800
10
20
30



GRY-BUFF SLI-FOSS LS P-F φ
2 RES DK DEAD STN, NO ODOR

40 LT TAN BUFF V. FOSS LS FAIR φ
NS NO ODOR

GRY SLI FOSS LS FUSSLS - NS

60 LOTS LT CRM DOLD LS W/ FOSS
LS - NS NO ODOR (SLI CRK)

CRM-LT BUFF V. FOSS LS P-F φ
NS NO ODOR

70 CRM-BUFF SLI-FOSS LS PTZY
CRK - NS

BUFF V. FOSS LS FAIR φ - NS
NO ODOR

80 LT CRM-LT BUFF V. FOSS LS
FAIR φ - NS NO ODOR

10 LS AA - NS FEW DK GRY-BLK
SHS

CRM-BUFF-GRY SLI-FOSS LS
20 POOR φ - NS NO ODOR
LT GRY - GRN SILTST - DIRTY

30 LT CRM - SLI-FOSS LS P-F φ NS
NO ODOR (SLI CRK)

40 LT CRM-BUFF BLKY LS POOR φ
NS NO ODOR

50 CRM-BUFF FUSSLS - NS

60 LT CRM-LT BUFF SEMI-FOSS LS
P-F φ NS NO ODOR

70 FLOOD LT CRM BLK LS POOR φ
NS

80 FLOOD LT CRM SEMI-FOSS LS
P-F φ NS NO ODOR SLI CRK

90 CRM-BUFF FOSS LS P-F φ
NS NO ODOR

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

10 LT CRM FOSS LS W/ SCAT STN
IN FAIR FOSS φ - NO FO, NO
ODOR, SLI CRK

20 FLOOD BLK SHS!
LT CRM SEMI-FOSS LS W/ P-F
FOSS φ SCAT MID STN, NO FO, NO
ODOR SLI CRK

30 LT CRM LTY LS POOR φ - NS
LT GRY - GRN GUMBO SHS

30 MIN: 8 RES LT CRM FOSS LS
W/ P-F FOSS φ W/ DK STN & LT BRN
OIL DROPS NO ODOR SLI CRK
60 MIN: 6 RES DK STN IN CRM

ANDY'S MUD CRV
VISC: 60 FLT: 8.8
WT: 8.7 CHL: 1000
LCM: 2 1/2# PH: 10.5

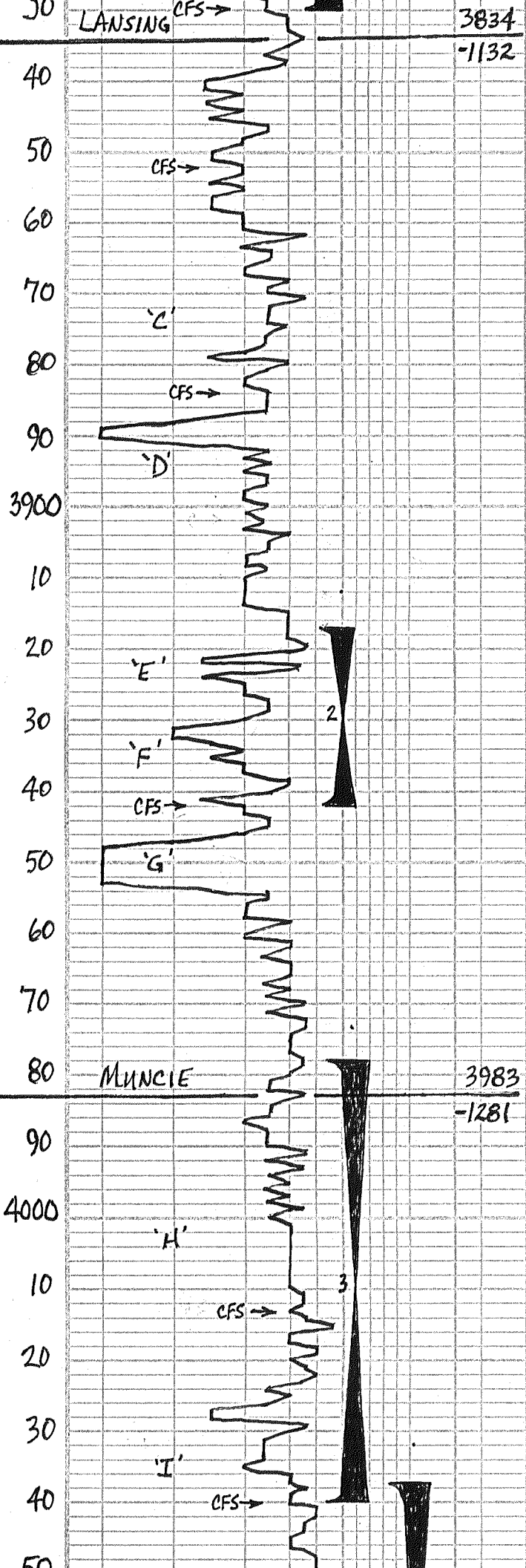
GOOD SPLS

GEO ON LOC. V
1:15PM TUES 9-3-13
800#-PP

GOOD SPLS!
VISC: 60
WT: 9.0

PIPE STRAP .44 SHORT
SHORT TRIP 30 STDS
S.H.T. = 1°

DST #1 3796'-3830'
30-45-45-60
IF: WK BUILT TO 2"
FF: WK BUILT TO 1/2"
REC: 75' WM = 6' W, 94' M + 50
SIP: 1136-1106
SIP: 10 20 FEB: 20-51



40 55 BRN FU NO ODOR
 PRED SHS FROM TRIP - NS
 50) LT GRAY - BRN SHS & LT GRAY - BUFF
 SLI - FOSS LS POOR ϕ - NS NO ODOR
 30 MIN: WH - SUB DOC CKY LS P-F
 FOSS - DOC ϕ W/CKY NS, NO ODOR
 60 MIN: WH - SLI - FOSS LS INC CKY
 P-F ϕ - NS, NO ODOR
 60 LOTS WH - LT CRM V. OOL LS P-F
 70 INTER. OOL ϕ - NS, NO ODOR
 INC CKY

80 WH CKY LS AA - NS $\frac{1}{2}$ LT GRAY SHS
 84) FLOOD LT TAN OOL LS OOLS SMASHED
 POOR INTER - OOL ϕ - NS NO ODOR
 20 MIN: LT TAN OOL LS POOR ϕ - NS
 NO ODOR - CLEAN
 45 MIN: CKY - LT TAN SLI - FOSS LS
 POOR ϕ - NS, NO ODOR
 FEW RED RUST SHS
 90 RUST RED SH & LS - AA - NS
 60 CRM - TAN SUB OOL LS - NS

10 FLOOD LT TAN DOC LS FAIR OOL
 ϕ - NS, NO ODOR, SLI CKY

20 FLOOD LT CRM - LT TAN SLI FOSS
 LS POOR ϕ - NS INC CKY

30 LT TAN FN: XLN LS POOR ϕ
 NS NO ODOR

40 LT CRM - TAN LS SLI - FOSS P-F &
 SS LT BRN OIL DROPS 10-12 PCS
 TRACE GAS BUB, NO ODOR
 20 MIN: FEW PCS AA W/SSFD,
 NO ODOR
 45 MIN: FEW PCS WH CRM SLI FOSS
 LS W/FAIR FOSS ϕ - NS, NO ODOR

60 WH - LT CRM FN: XLN - LS PLY
 CKY POOR ϕ - NS LOTS SHS

70 FLOOD LT TAN DOC LS FAIR DOC ϕ
 NS NO ODOR SLI CKY

80 FLOOD WH - LT CRM FN: XLN LS
 DNSE - CKY - POOR ϕ NS NO ODOR

90 LT CRM - V. LT TAN FN: XLN LS
 V. POOR ϕ - NS NO ODOR

100 FEW DK GRAY - BLK SHS PRED CRM
 LT TAN SLI - FOSS LS POOR ϕ
 NS NO ODOR

16 LT CRM - LT TAN SLI - FOSS LS W/POOR
 ϕ W/LT STN NO FD, NO ODOR
 13) LT CRM - TAN WH FOSS LS W/P-F FOSS
 ϕ W/ SCAT LT STN, 8 PCS VSSLTFO
 FEW GAS BUB ON BK, LT ODOR SLI
 20 MIN: LS AA W/SSFTO, FT ODOR
 ON BK 1 INC SLI CKY
 45 MIN: LT GRAY FN: XLN LS POOR
 ϕ - NS NO ODOR

30 CRM - LT TAN SLI - FOSS LS POOR ϕ
 NS NO ODOR FEW GRAY - BLK SH

40) LT CRM - LT TAN & M SLI - FOSS LS
 W/P-F VEIN - VUGY ϕ W/ DK STN
 7-10 PCS SS BRN FD, FT ODOR ON BK

20 MIN: LT CRM - LT GRAY & M LS
 W/ SCAT FOSS ϕ W/ DK STN & SSFO
 45 MIN: DECREASE IN PCS AA LT CRM
 FN: XLN LS DNSE - SLI CKY NS
 50 LT CRM SLI - FOSS LS POOR ϕ
 NS NO ODOR LOTS SHS

10 FLOOD WH - LT CRM FN: XLN

TEMP: 116°

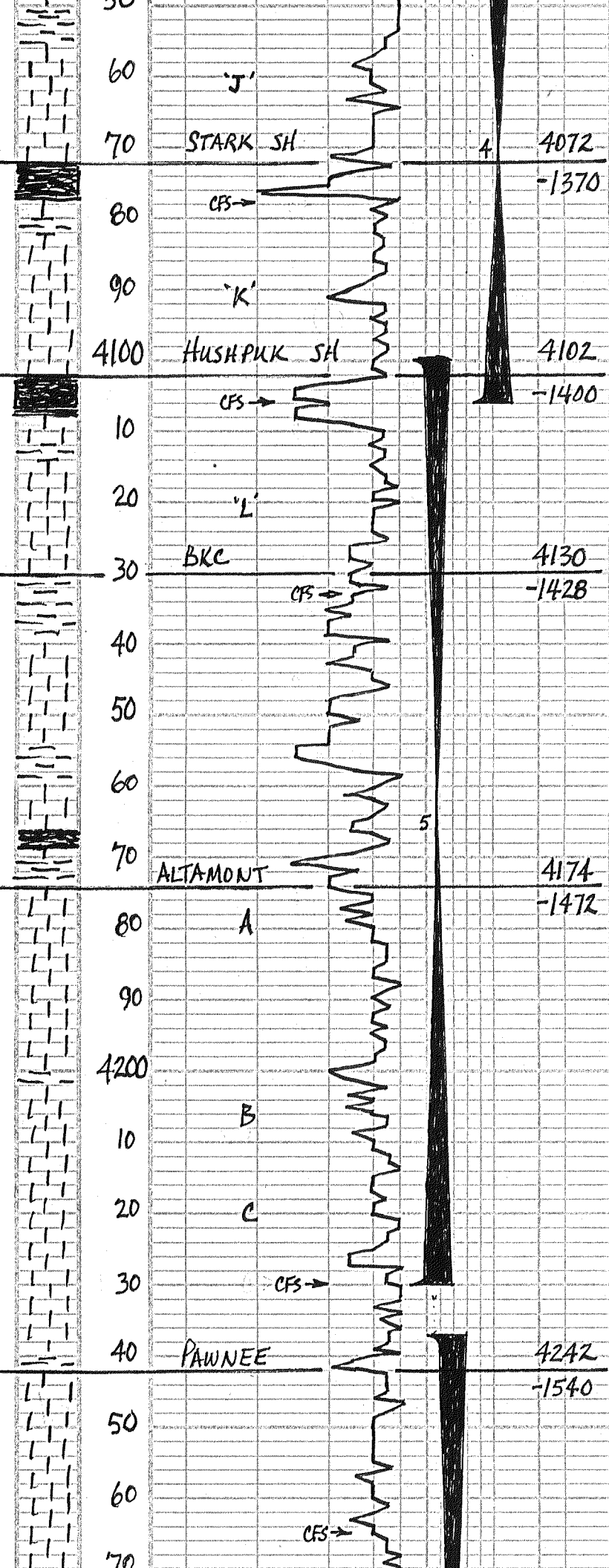
DST #2 3917-3942

30-45-45-60
 IF: FAIR BUILT TO BOB IN 20M
 FF: FAIR BUILT TO BOB 21 MIN.
 REC: 420' MIN = 5% M, 95% W
 CHL: 35,000
 SIP: 1078-1083
 IFP: 28-108, FFP: 111-225
 TEMP: 129°

DST #3 3978-4040

30-45-45-60
 IF: WK BUILT TO 2 1/2"
 FF: VWK BUILT TO 1/2"
 REC: 2' CO,
 75' SICM = 3% O, 97% M
 SIP: 1127-1099
 IFP: 19-39 FFP: 33-47
 TEMP: 119°

← ANDYS MUD CKY
 VISC: 53 FILT: 8.0
 WT: 9.3 CHL: 1500



60
65
70
75
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105
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835
840
845
850
855
860
865
870
875
880
885
890
895
900
905
910
915
920
925
930
935
940
945
950
955
960
965
970
975
980
985
990
995
1000

70 FLOOD LT GRAY GUMBO SHS & LT CRM FN XLN LS - NS NO ODOR

78) LT CRM SLI FOSS LS W/ SCAT FOSS VUG & LOTS W/ PK STN 15 PCS W/ SFLTFO FAIR ODOR 20 MIN LT CRM SLI FOSS LS W/ SCAT FOSS & W/ LT STN & S-FSLT GFO SLI-CKY FAIR ODOR - LOTS BLK SHS - GSY

80 LT GRAY - LT TAN SLI FOSS LS POOR & SCAT STN, LT ODOR

86 LT CRM - LT TAN FOSS DOLD LS W/ SCAT VUG & W/ SFLTFO FAIR ODOR LOTS PCS W/ STN - 20 SLI CKY

86) LT CRM - LT TAN SLI FOSS DOLD LS D-F SCAT VUG & FAIR ODOR SLI-CKY 20 MIN: DECREASE IN PCS W/ SFLTFO BUT LOTS W/ LT STN LT ODOR 45 MIN: FLOOD BLK SH: GSY

90 GRAY SLI FOSS LS POOR & NS & LOTS GRAY-BLK SHS

93 FLOOD GRAY-TAN SLI FOSS LS DNSE - MEALY - SOFT POOR & NS NO ODOR

93) PRED LT GRAY MEALY-CKY LS POOR & - NS NO ODOR 20 MIN: LT CRM - LT TAN TAN FOSS SCAT LT STN LT ODOR ON BKC CKY 45 MIN: LT CRM - LT GRAY FN XLN LS DNSE - CKY POOR & - NS NO ODOR

94 LOTS LT GRAY SHS & FEW BLK LOTS SHS AA - NS

96 LT CRM - LT PEACH FN MD XLN LS DNSE - MEALY POOR & - NS NO ODOR SOME WH CK

97 LT PEACH SILTY LS & SHS POOR & NS NO ODOR FEW SILTSTONE-NS

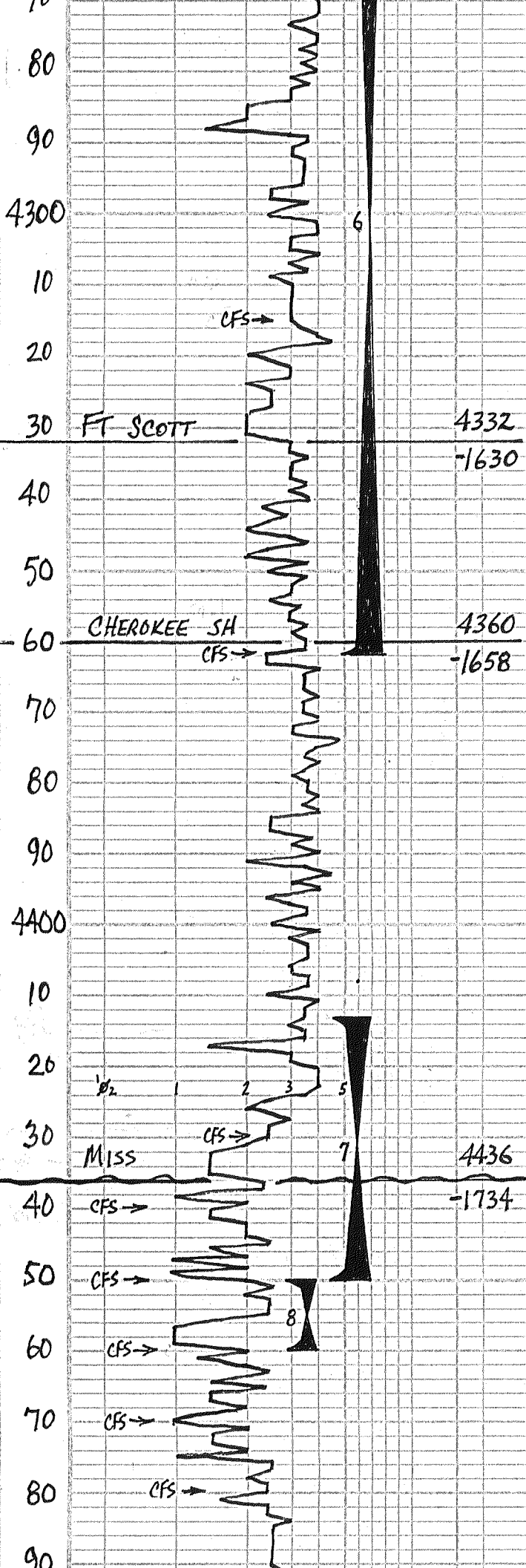
98 LT TAN GRAY DOLD LS W/ P-F INTER XLN & - SFLTFO, LT ODOR

99 LT TAN - CRM NODULAR BLOCKY LS POOR INTER XLN & - NS NO ODOR

100 LT CRM - TAN GRAY FN XLN LS DNSE - CKY POOR & - NS NO ODOR

DST #4 4037-4106
30-45-45-60
IF: WK BLOW BUILT TO 3"
FF: VNK SURF BLOW
REC: 55' MUD + SO 1% O, 99% M
SIP: 1396-1215
IFP: 27-32 FFP: 32-35
TEMP: 119°

DST #5 4100-4230'
30-45-45-60
IF: WK BLOW BUILT TO 1"
FF: V. WK SURF BLOW
REC: 40' MUD + OS
SIP: 163-116
IFP: 13-24 FFP: 28-31
TEMP: 120°



LS AA-NS POOR ϕ NO ODOR
 90 PRED LT TAN FN-XLN LS POOR ϕ NS INC SLT CRK
 00 FLOOD BLK SHS & DK GRAY-BRN LS CRYNOIDS DNSE-NS
 10 V.LT GRAY GUMBO SHS & LOOSE CHALK
 15) WH-V.LT CRM SLI-FOSS LS POOR ϕ NS NO ODOR
 20 MIN: LT CRM FN-XLN LS POOR ϕ NS NO ODOR PTL CRK
 45 MIN: LT TAN-V.LT GRAY FN-XLN LS POOR ϕ NS NO ODOR SLI CRK
 30 LT TAN FN-XLN LS POOR ϕ -NS LOTS BLK-GRAY SHS
 40 FLOOD BLK SHS!
 50 LT CRM-LT TAN DOL LS W/POOR INTER-DOL ϕ W/SCAT LT STN VSSLTFO LT ODOR
 60) LT CRM SLI-FOSS-FRACT LS W/POOR FRAC ϕ W/SCAT LTN STN VSSLTFO LT ODOR
 62) LT BUFF-CRM LS W/P-F FOSS ϕ W/SSLTFO LT ODOR
 20 MIN: LT CRM SLI-FOSS LS W/P-F FOSS & FRAC ϕ W/SSLTFO LT ODOR CLEAN
 45 MIN: DECR IN PLS AA FT ODOR
 70 FLOOD DK GRAY-BLK SHS
 80 LT TAN SLI-FOSS LS POOR ϕ NS NO ODOR LOTS SHS
 90 PRED LT CRM FN-XLN LS POOR ϕ NS NO ODOR MOSTLY DNSE
 00 WH-LT CRM FN-XLN LS-NS & FEW GRAY-BLK SHS
 10 LT GRAY-LT CRM FN-XLN DNSE LS POOR ϕ -NS NO ODOR INC SHS
 20 LT CRM-LT TAN FN-XLN DNSE LS POOR ϕ -NS NO ODOR
 30) FLOOD WH-LT CRM FN-XLN LS POOR ϕ DNSE-CRY NS NO ODOR
 20 MIN: WH-LT WELL-DRAN SHARP Δ & SHS FEW FN: GR SST SHLY-NS NO ODOR
 45 MIN: PRED FN-GR SST FN W/BLK STN MOSTLY VARI-COL SH MATRIK FEW SHARP Δ -NS NO ODOR
 GOLD, PURPLE, GRV, GRN SST & SHS
 40) PRED VARI-COL SST SHLY FEW W/ DK BLK STN NO FO NO ODOR FEW
 20 MIN: PRED VARI-COL FN-MD GR SST & WH-LT CRM FN-XLN CRK LS-NS
 45 MIN: PRED VARI-COL FN-MD GR SST W/SCAT DK STN FEW Δ -NS 2 PLS LT TAN ? DOL-GR FAIR ϕ 1 PC W/STN NFO
 60 MIN: INC FN-MD GR SST W/ DK STN ALSO FEW WEA D W/ DK STN NO ODOR
 50) WH WEA Δ W/ SCAT STN-NO FO NO ODOR
 20 MIN: WH WEA Δ W/FAIR ϕ SCAT STN TRACE TO 2 PLS & LT TAN FN-XLN DOL ALL W/STN 2 PLS W/SSFO NO ODOR
 40 MIN: LOTS LT TAN FN-XLN DOL MOST W/STN FEW W/FAIR VUG ϕ 4 PLS VSSFO FT ODOR ON BRK
 60 MIN: LOTS DOL 60% W/STN INC IN P-F VUG ϕ W/SSFO FT ODOR
 60) FEW LT TAN DOL W/FAIR VUG ϕ W/SSBRNGFO, LOTS W/STN LT ODOR
 20 MIN: AA FEW W/SSFO
 * 40 MIN: LOTS PCS W/F-GD VUG ϕ W/SSLTFO LT ODOR FEW BLK STN
 * 60 MIN: LOTS PCS LT TAN DOL W/FAIR-GD VUG ϕ W/SSGFO SLI INC PCS W/ DK BLK STN, DOL HARD
 70) FEW PLS LT TAN DOL W/FAIR ϕ & SSFO LT & DK FT ODOR MOSTLY SH

DST #6 4237-4362'
 1 30-30-30-30
 IF: WK BLOW DIED 10 MINS
 FF: DEAD-FLUSH-NO HELP
 REC: 3' MUD
 SIP: 237-197
 IFP: 12-19 FFP: 15-21
 TEMP: 122°

DST #7 4413-4450
 30-30-30-30
 IF: V.WK SURF BLOW
 FF: DEAD, FLUSH, NO HELP
 REC: 3' MUD
 SIP: 547-318
 IFP: 11-19 FFP: 16-21
 TEMP: 124°

DST #8 4450-4460
 45-45-30-30
 IF: V.WK BUILT TO Y2"
 FF: NO BLOW-FLUSH-SURGE
 REC: 10' VSOCM=2% 0, 98% M
 SIP: 977-838
 IFP: 9-13 FFP: 15-18
 TEMP: 123°

4500

10

20

30

40

50

60

70

80

90

4600

CFS →

RTD = 4580'

LTD = 4582'

20 MIN: FRED VAKI COLOR SHS SDB
 40 MIN: FEW LT TAN DOLO W/ POOR Ø
 & PCS SFE, NO ODOR. PREP SHS
 60 MIN: LT TAN FN-XLN DOLO & LS
 POOR Ø - MOST NS NO ODOR
 80) LT CRM - LT TAN FN-XLN DOLO LS
 POOR Ø - NS NO ODOR LOTS SHS
 20 MIN: LT CRM - V. LT YELL - LT TAN
 DOLO W/ P-F Ø - NS NO ODOR
 40 MIN: WH - LT CRM FN-XLN CKY
 LS POOR Ø - NS NO ODOR
 60 MIN: PREP WH FN-MD-XLN LS
 POOR Ø - NS NO ODOR CKY
 90 FLOOD LT CRM LS FN-MD XLN
 POOR Ø - NS NO ODOR SHS CKY
 00 WH - LT CRM FN-MD XLN LS
 10 DNSE - CKY P-F Ø - NS NO ODOR
 20 WH FN-MD-XLN CKY LS - NS
 30
 40 WH SHARP FOSS Δ - POOR Ø - NS
 WH FN-MD-XLN CKY LS POOR Ø
 50 NS - NO ODOR
 60 WH FN-XLN DOLO LS P-F Ø NS
 LOTS CKY & WH SHARP Δ - NS

70 FLOOD V. LT TAN - FRESH FN-XLN
 DOLO P-F Ø - NS NO ODOR
 PLY CKY

80 LT CRM - V. LT TAN FN-XLN DOLO
 NS NO ODOR

30 MIN: WH - LT GRAY SHARP Δ - NS

S.H.T = 1°



#1 Selensky 30CD
2293' FSL & 1650' FEL
17' S of NW NW SE Section 30-13S-28W
Gove County, Kansas
API# 15-063-22132-0000
Elevation: 2694' GL, 2702' KB

Sample Tops			Ref. Well
Anhydrite	2156'	+546	+12
B/Anhydrite	2194'	+508	+9
Stotler	3431'	-729	+11
Heebner	3799'	-1097	+15
Lansing	3836'	-1134	+14
Muncie Shale	3979'	-1277	+15
Stark Shale	4072'	-1370	+17
Hush	4102'	-1400	+18
BKC	4129'	-1427	+17
Altamont	4174'	-1472	+20
Pawnee	4242'	-1540	+15
Myrick	4296'	-1594	+19
Fort Scott	4331'	-1629	+15
Cherokee Shale	4361'	-1659	+15
Johnson	4404'	-1702	+16
Mississippian	4437'	-1735	+18
RTD	4580'	-1878	

ALLIED OIL & GAS SERVICES, LLC 061857

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:
GREAT BEND KS

DATE <u>9-10-13</u>	SEC. <u>30</u>	TWP. <u>13</u>	RANGE <u>28W</u>	CALLED OUT <u>7:00AM</u>	ON LOCATION <u>12:00PM</u>	JOB START <u>12:10PM</u>	JOB FINISH <u>2:30PM</u>
LEASE <u>SELEWSKY</u>		WELL# <u>1-30CD</u>		LOCATION <u>gove 4 S TO RD 0 2 E</u>		COUNTY <u>gove K</u>	STATE <u>KS</u>
OLD OR <u>(NEW)</u> (Circle one)				<u>1/2 S W INTO</u>			

CONTRACTOR Discover #1
 TYPE OF JOB Rotary Plug
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE _____ DEPTH _____
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 DEPTH 2175'
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER Ritchie Exploration
 CEMENT
 AMOUNT ORDERED 220 SKS 60140
41.5 gal 7 F10

EQUIPMENT

PUMP TRUCK CEMENTER Charles Kinyon
 # 398 HELPER Mike Scothorn
 BULK TRUCK
 # 344-170 DRIVER Kevin Weighouse
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>132</u>	@ <u>17.90</u>	<u>2,362.⁸⁰</u>
POZMIX	<u>88</u>	@ <u>9.35</u>	<u>822.⁸⁰</u>
GEL	<u>8</u>	@ <u>23.40</u>	<u>187.20</u>
CHLORIDE		@	
ASC		@	
	<u>floscal 55</u>	@ <u>2.97</u>	<u>163.³⁵</u>
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>236.99</u>	@ <u>2.48</u>	<u>587.⁷⁵</u>
MILEAGE	<u>9.88 x 40 x</u>	<u>2.66</u>	<u>1,027.⁸²</u>
			TOTAL <u>5,151.⁴²</u>

REMARKS:

1st Plug at 2175' mix 25 SKS
2nd Plug at 1250' mix 100 SKS
3rd Plug at 275' mix 40 SKS
4th Plug at 40' mix 10 SKS
RH mix 30 SKS
MH mix 15 SKS

SERVICE

DEPTH OF JOB _____			
PUMP TRUCK CHARGE	<u>2483.59</u>		
EXTRA FOOTAGE		@	
MILEAGE	<u>Hum 40</u>	@ <u>7.70</u>	<u>308.⁰⁰</u>
MANIFOLD		@	
	<u>Hum 40</u>	@ <u>4.40</u>	<u>176.⁰⁰</u>
		@	

CHARGE TO: Ritchie Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 2,967.⁵⁹

PLUG & FLOAT EQUIPMENT

<u>wooden Plug</u>	<u>107.⁶²</u>		
		@	
		@	
		@	
		@	

TOTAL 107.⁶⁴

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)	<u>65</u>		
TOTAL CHARGES	<u>8,226.⁶⁵</u>		
DISCOUNT	<u>1,645.³³</u>		
		IF PAID IN 30 DAYS	
	<u>6,581.³²</u>		

PRINTED NAME X Sgt Ronnie
 SIGNATURE X Sgt Ronnie

Thank you!

ALLIED OIL & GAS SERVICES, LLC 061294

Federal Tax I.D. # 20-8051475

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

SERVICE POINT:
OAKLEY

DATE <u>8-31-13</u>	SEC. <u>30</u>	TWP. <u>18S</u>	RANGE <u>28W</u>	CALLED OUT	ON LOCATION <u>4:00 PM</u>	JOB START <u>5:00 PM</u>	JOB FINISH <u>5:30 PM</u>
LEASE <u>SEJENSKY 3000</u>		WELL # <u>1</u>		LOCATION <u>GOVE 45-2E-18S-28W</u>		COUNTY <u>GOVE</u>	STATE <u>KS</u>
OLD OR (NEW) (Circle one)							

CONTRACTOR <u>Discovery Drilling #1</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>SURFACE</u>	
HOLE SIZE <u>12 1/4"</u> T.D. <u>228'</u>	CEMENT AMOUNT ORDERED <u>160 SKS COM 3% CC 2% GEI</u>
CASING SIZE <u>8 5/8"</u> DEPTH	
TUBING SIZE DEPTH	
DRILL PIPE DEPTH	
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON <u>160 SKS @ 17 90 2864 00</u>
MEAS. LINE SHOE JOINT	POZMIX @
CEMENT LEFT IN CSG. <u>15'</u>	GEL <u>3 SKS @ 23 40 70 20</u>
PERFS.	CHLORIDE <u>6 SKS @ 64 9 384 00</u>
DISPLACEMENT <u>13 1/2 BBLs</u>	ASC @
EQUIPMENT	
PUMP TRUCK CEMENTER <u>FERRY HEINRICH</u>	
# <u>423-281</u> HELPER <u>PAUL BEAVER</u>	
BULK TRUCK	
# <u>347</u> DRIVER <u>DAVID FURANO</u>	
BULK TRUCK	
# DRIVER	
	HANDLING <u>173.223 CU. FT. @ 2 48 429 20</u>
	MILBAGE <u>2.896 TONS X 35 X 2.60 718 20</u>
REMARKS:	TOTAL <u>4465 80</u>

SERVICE	
DEPTH OF JOB <u>227.81'</u>	
PUMP TRUCK CHARGE <u>1512 25</u>	
EXTRA FOOTAGE @	
MILBAGE <u>3.5 mi @ 7 25 269 50</u>	
MANIFOLD @	
<u>LUM 35 mi @ 4 40 154 00</u>	
	TOTAL <u>1935 75</u>

CHARGE TO: Ritchie 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 Cliff Mayfield
SIGNATURE Cliff Mayfield

PLUG & FLOAT EQUIPMENT	
@	
@	
@	
@	
@	
TOTAL	
SALES TAX (If Any)	
TOTAL CHARGES <u>6,401.59</u>	
DISCOUNT <u>1,472.36</u> IF PAID IN 30 DAYS	
	<u>4,929.22 Net.</u>

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

December 03, 2013

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

Re: ACO1
API 15-063-22132-00-00
Selensky 30CD 1
SE/4 Sec.30-13S-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