



KANSAS CORPORATION COMMISSION 1102874
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 4767
Name: Ritchie Exploration, Inc.
Address 1: 8100 E 22ND ST N # 700
Address 2: BOX 783188
City: WICHITA State: KS Zip: 67278 + 3188
Contact Person: John Niernberger
Phone: (316) 691-9500
CONTRACTOR: License # 5929
Name: Duke Drilling Co., Inc.
Wellsite Geologist: Max Lovely
Purchaser: NCRA

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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
07/31/2012 08/14/2012 08/14/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-057-20830-00-00
Spot Description: 30'N of
N2_NE_SE_NW Sec. 17 Twp. 28 S. R. 23 East West
1620 Feet from North / South Line of Section
2310 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Ford
Lease Name: Sanko Well #: 2
Field Name: _____
Producing Formation: Mississippian
Elevation: Ground: 2508 Kelly Bushing: 2519
Total Depth: 5270 Plug Back Total Depth: 5205
Amount of Surface Pipe Set and Cemented at: 358 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1495 Feet
If Alternate II completion, cement circulated from: 1495
feet depth to: 0 w/ 275 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 15500 ppm Fluid volume: 900 bbls
Dewatering method used: Evaporated
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

- Letter of Confidentiality Received
Date: 11/29/2012
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NAOMI JAMES Date: 12/03/2012



1102874

Operator Name: Ritchie Exploration, Inc. Lease Name: Sanko Well #: 2
Sec. 17 Twp. 28 S. R. 23 East West County: Ford

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	See Attached	
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
List All E. Logs Run:			
Dual Induction Log Compensated Density/Neutron Log			

CASING RECORD <input checked="" 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
Surface	12.25	8.63	24	358	class A	225	3% cc, 2% gel
Production	7.88	5.5	15.5	5266	AA2	175	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ Plug Off Zone	-			

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
4	5163' - 5169' (9/5/12)	1000 gals 15% NE	

TUBING RECORD:	Size: <u>2.88</u>	Set At: <u>5210</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>09/17/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>18.47</u>	Gas Mcf	Water Bbls. <u>40.94</u>	Gas-Oil Ratio <u>37</u>

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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#2 Sanko
1620' FNL & 2310' FWL
30° N NE SE NW Section 17-28S-23W
Ford Co., Kansas
API# 15-057-20830-00-00
Elevation: 2508' GL, 2519' KB

Sample Tops			Ref. Well
Anhydrite	1519'	+1000	-24
B/Anhydrite	1567'	+952	-17
Stotler	3618'	-1099	-7
Heebner	4278'	-1759	-7
Toronto	4293'	-1774	-6
Douglas	4341'	-1822	-6
Brown Lime	4407'	-1888	-6
Lansing	4414'	-1895	-5
Muncie Shale	4602'	-2083	-5
Hush. Shale	4773'	-2254	-6
BKC	4814'	-2295	-4
Pleasanton	4820'	-2301	-2
Altamont	4888'	-2369	+1
Pawnee	4946'	-2427	+2
Cherokee Shale	4990'	-2171	+5
Huck	5083'	-2564	+4
Atoka Shale	5097'	-2578	+2
Mississippian	5118'	-2599	+2
RTD	5270'	-2751	

P.O. Box 783188
Wichita, Kansas 67278-3188

(316) 691-9500
Fax (316) 691-9550
rei@ritchie-exp.com

8100 E. 22nd St. N., Bldg. 700
Wichita, Kansas 67226-2328

ALLIED OIL & GAS SERVICES, LLC 053762

REMITTO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

SANKO 2

Grand Point, KS
8-1-12

DATE <u>7-31-12</u>	SEC. <u>17</u>	TWP. <u>28s</u>	RANGE <u>23w</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00 AM</u>	JOB FINISH <u>12:00 AM</u>
LEASE <u>Sanko</u>	WELL # <u>2</u>	LOCATION <u>Ford, KS 6w 25 tw</u>			COUNTY <u>Ford</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)		SINKO			1.01	1.95	

CONTRACTOR Duke Dilling Big #10 OWNER _____

TYPE OF JOB Surf ace

HOLE SIZE 12 1/4 T.D. _____

CASINO SIZE 4 5/8 DEPTH 358

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSO. 43.90

PERFS. _____

DISPLACEMENT 20 bbls Freshwater

CEMENT AMOUNT ORDERED 225 sks Class A 37cc 2% gel

COMMON	<u>225</u>	@	<u>16.85</u>	<u>3,806.25</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>21.25</u>	<u>85.00</u>
CHLORIDE	<u>8</u>	@	<u>58.20</u>	<u>465.60</u>
ASC		@		

EQUIPMENT

PUMP TRUCK CEMENTER Dustin Chambers

398 HELPER Kiko (TWS)

BULK TRUCK # 341 DRIVER Bill (TWS)

BULK TRUCK # _____ DRIVER _____

HANDLING	<u>242.30</u>	@	<u>2.10</u>	<u>508.83</u>
MILBAG	<u>11-10 X 40</u>	X	<u>2.85</u>	<u>1,043.40</u>
			TOTAL	<u>2,764.18</u>

1/1/14

REMARKS:

Bank Metcalfen Wash Rig MVA

Leak 10 bbls Freshwater wheel

Mix 225 sks Class A 37cc 2% gel

50wt Down & Release Plug

Displace 20 bbls Freshwater

& Shut In

plug down 12:00 AM 8-1-12

Rel. Down wait time 1 1/2 (hr.)

SERVICE

DEPTH OF JOB 358

PUMP TRUCK CHARGE 175.00

EXTRA FOOTAGE @ _____

MILBAG HVM 40 @ 7.00 280.00

MANIFOLD @ _____

LVM 40 @ 4.00 160.00

TOTAL 4,565.00

CHARGE TO: Rivchic Exploration Inc.

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>8 5/8</u>	<u>Booth Plate</u>	@	<u>112.00</u>	<u>112.00</u>
	<u>Wood Plug</u>	@	<u>92.00</u>	<u>92.00</u>
(w)	<u>1 3/4 Basket</u>	@	<u>478.00</u>	<u>478.00</u>
		@		
		@		

TOTAL 682.00

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) 388.66

TOTAL CHARGES 8,005.18

DISCOUNT 25% 2,002.05 IF PAID IN 30 DAYS

\$6,003.13

PRINTED NAME Scott Esmerado

SIGNATURE Scott Esmerado

Thank You

Rec #10

D



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 03625 A

DATE _____ TICKET NO. _____

DATE OF JOB: 8-20-12	DISTRICT: Liberal #1717	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: Ritchie Exploration		LEASE: Sanko		WELL NO. 2					
ADDRESS:		COUNTY: Ford		STATE: KS					
CITY:		STATE:		SERVICE CREW: Kirby, Eddie, Julian, Santiago					
AUTHORIZED BY: Tyce Davis JRB		JOB TYPE: Port Collar 2-42							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
		-14284	8	21755	8		8-20-12		0900
				10276	8	ARRIVED AT JOB		AM	1600
				-19919	8	START OPERATION		AM	1630
				-27808	8	FINISH OPERATION		AM	1730
				37547	8	RELEASED		AM	1800
				24355	8	MILES FROM STATION TO WELL		PM	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CL103	60/40 Port	SK	275		3300 00
CC200	Cement Gel	lb	948		237 00
CC102	Pelloflake	lb	69		255 30
C2410	Cotton Seed Hulls	lb	150		52 50
E101	Heavy Equipment Mileage	MI	255		1785 00
CE240	Blending & Mixing Service Charges	SK	475		665 00
E113	Bulk Delivery Charges	TM	1738		2780 80
CE202	Depth Charge - 1001' - 2000'	EA	1		1500 00
E100	Unit Mileage Charge - Pickup	MI	85		361 25
SO03	Service Supervisor	EA	1		175 00

SUB TOTAL 7778 30

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE:	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



BASIC
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

1700 S. Country Estates Rd.
P.O. Box 129
Liberal, Kansas 67905
Phone 620-624-2277

FIELD SERVICE TICKET
1717 03912 A

DATE TICKET NO.

DATE OF JOB: 7-14-12	DISTRICT: 1717	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: Ketchum Exploration		LEASE: Sanko '2				WELL NO.:			
ADDRESS:		COUNTY: Ford		STATE: KS					
CITY:		STATE:		SERVICE CREW: [unclear], [unclear]					
AUTHORIZED BY: [unclear] JRB		JOB TYPE: 2" ID - 50" Prod							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
1902							8-14-12	PM	7:30pm
27962						ARRIVED AT JOB		PM	11:00
14354						START OPERATION		AM	8:30
19857						FINISH OPERATION		AM	9:30
						RELEASED		AM	11:00
						MILES FROM STATION TO WELL	75 mi		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
1103	100/110 Pbz	30	30		600 00
1105	W2	175			3185 00
1113	Gypsum	115	115		618 75
1111	W1T	1	1		486 00
1103	C-15	1	1		1237 50
1107	C-40P	1	1		336 00
1101	Gypsum	1	1		586 25
1107	Auto Fill Flood Stop	1	1		360 00
1107	Labels down plug 1/2" 110	1	1		400 00
11452	Wobolizer	1	1		525 00
1117	SA collar	1	1		3500 00
11552	Basket	1	3		2865 00
1151	Mud flush	1	1		430 00
1101	Moving mud	1	1		1190 00
11040	Bloodline 40/100 source	1	1		315 00
1113	Dispersant 5000 lbs	1	1		1414 00
1106	Pump Drive 1001 6000	1	1		2880 00
1104	Flts Controller	1	1		250 00
1100	WAP Mixture	1	1		361 25
SUB TOTAL					11197 25

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE: [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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

November 28, 2012

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

Re: ACO1
API 15-057-20830-00-00
Sanko 2
NW/4 Sec.17-28S-23W
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

Max R. Lovely

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Ritchie Exploration, Inc.	ELEVATIONS
LEASE Sanko #2	KB 2519
FIELD Sanko	DF _____
LOCATION NESE NW	GL 2508
SEC 17 TWP 28 RGE 23W	Measurements Are All
COUNTY Ford STATE KS	From KB
CONTRACTOR Duke #10	CASING
SPUD 7-31-2012 COMP 8-13-2012	SURFACE 8 7/8" @ 358'
RTD 5270 LTD 5273	PRODUCTION 5 1/2"
MUD UP 3774 TYPE MUD Chem	ELECTRICAL SURVEYS
	COMP N/D
	DI _____

FORMATION TOPS AND STRUCTURAL POSITION


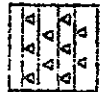
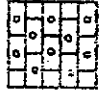



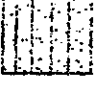
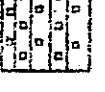
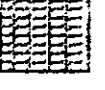
FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION		
				A	B	C
Anhydrite	1519	1518	1001	1024		
Base Anhydrite	1557	1552	967	969		
Stoller	3618	3617	-1098	-1092		
Heebner	4278	4278	-1759	-1752		
Lansing	4414	4416	-1897	-1890		
Muncie SH	4602	4602	-2093	-2091		
Stark	4728	4726	-2207	-2203		
Altamont	4888	4898	-2371	-2366		
Pawnee	4946	4946	-2427	-2429		
Cherokee SH	4990	4994	-2475	-2474		
Atoka SH	5097	5098	-2579	-2588		
Morrow						
Mississippi	5118	5123	-2604	-2600		

REFERENCE WELLS FOR STRUCTURE

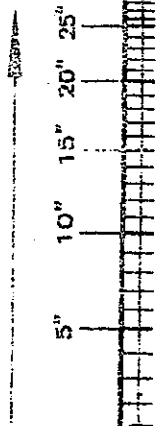
- A **Ritchie Sanko #1 S/2 NW NW 17-28-23W**
- B _____
- C _____

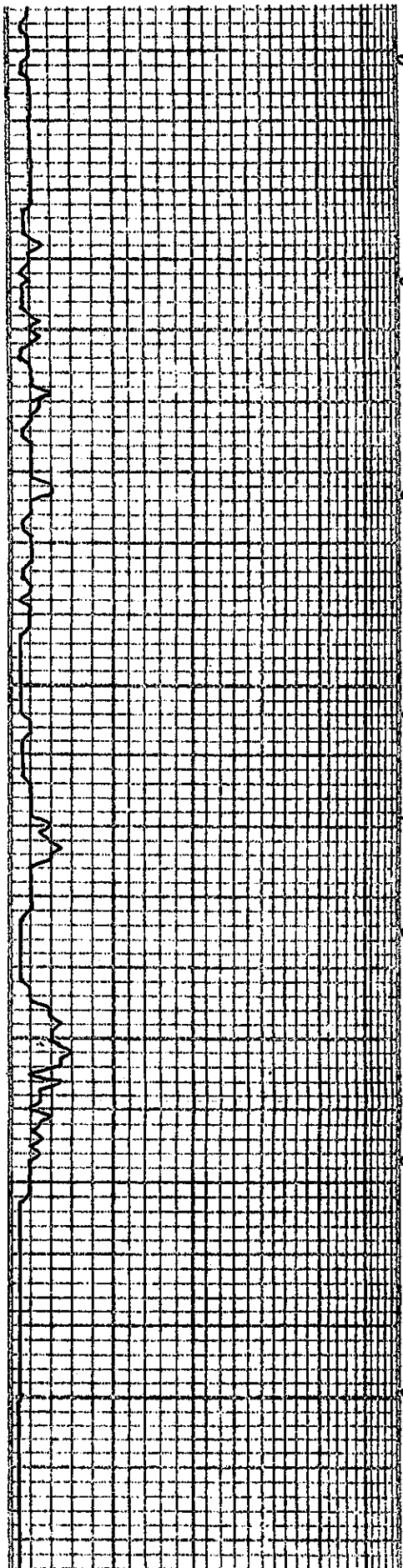
REMARKS

LEGEND

	Dolomite
	Chert
	ool. Lime
	Limestone
	Carb sh
	Shale
	Sandstone
	Salt
	Anhydrite

	REMARKS
	OIL SHOWS
	SAMPLE DESCRIPTIONS
	LITHOLOGY
	DEPTH
	DRILLING TIME IN MINUTES PER FOOT Rate of Penetration Decrease



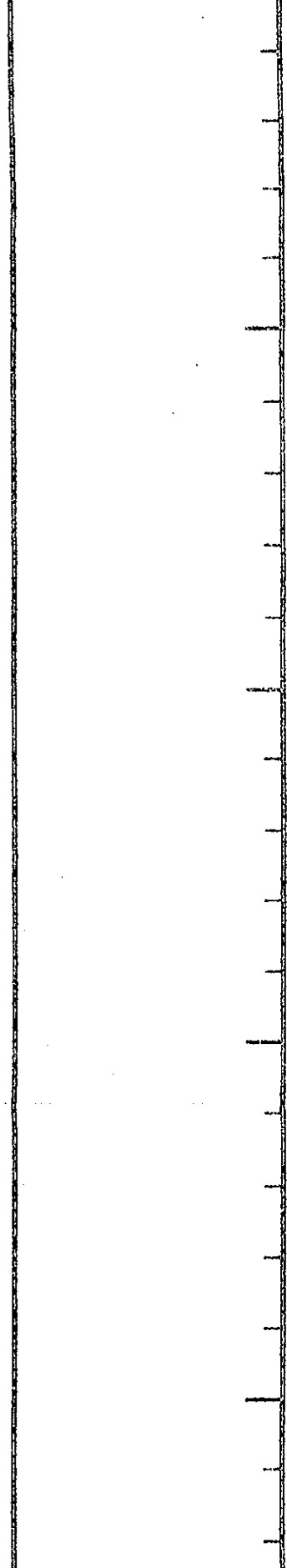
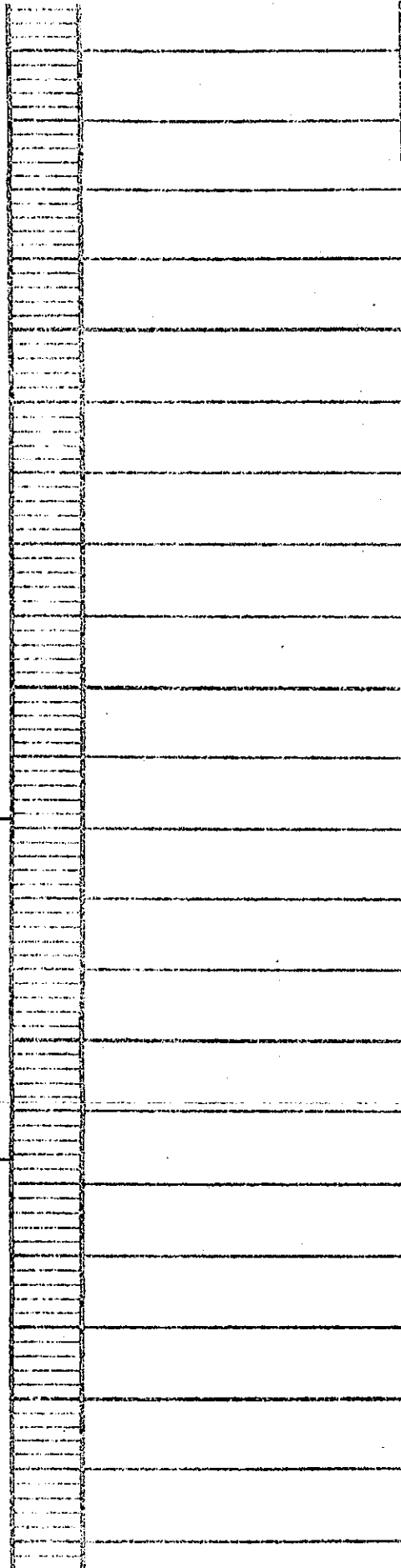


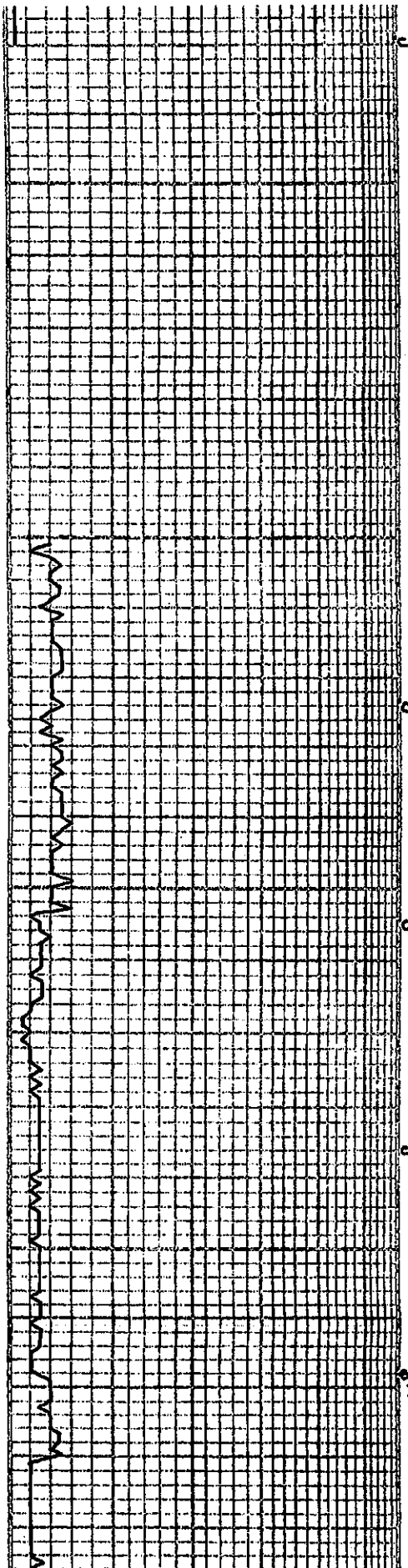
1500

ANHYDRITE
1519 +1000

BASE
ANHYDRITE
1567 +952

1600

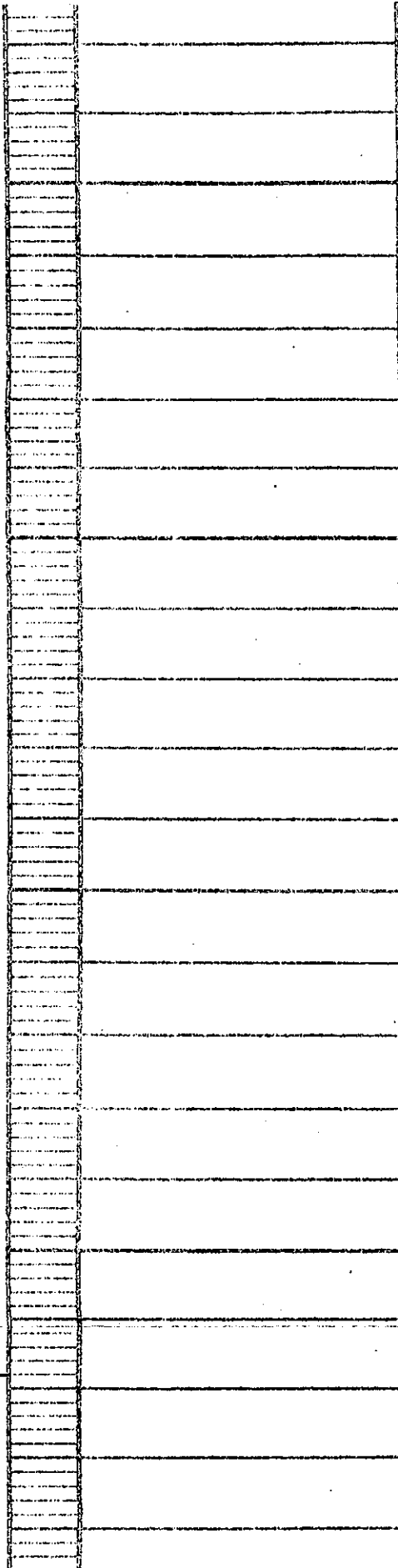




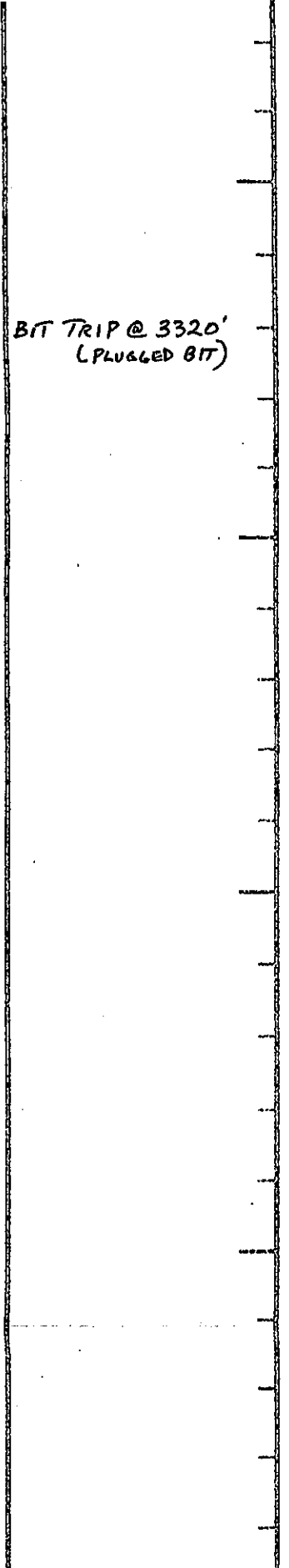
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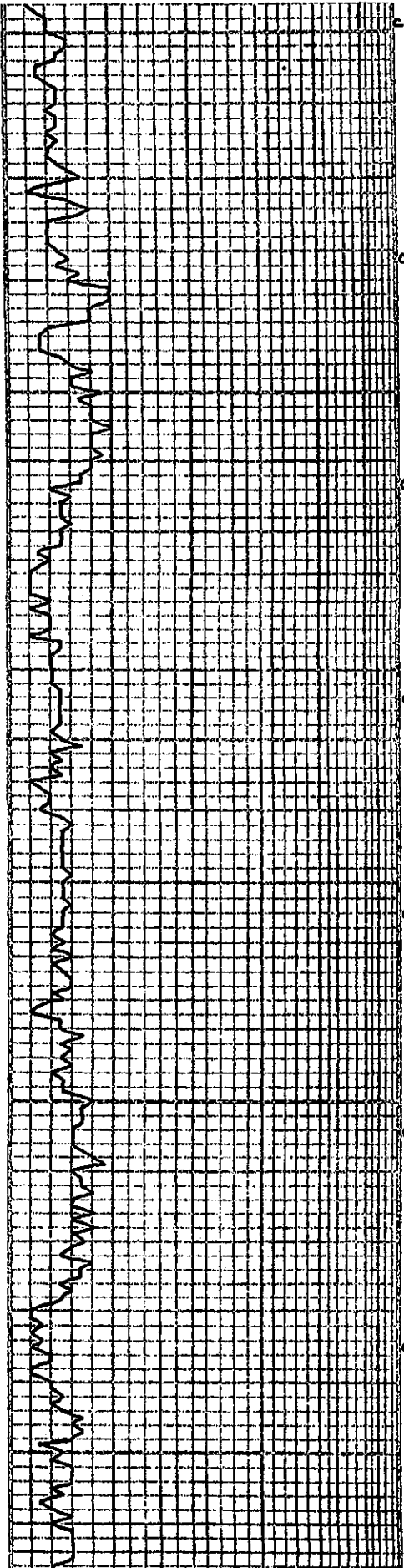
3600

STOTLER
3618-1099



BIT TRIP @ 3320'
(PLUGGED BIT)

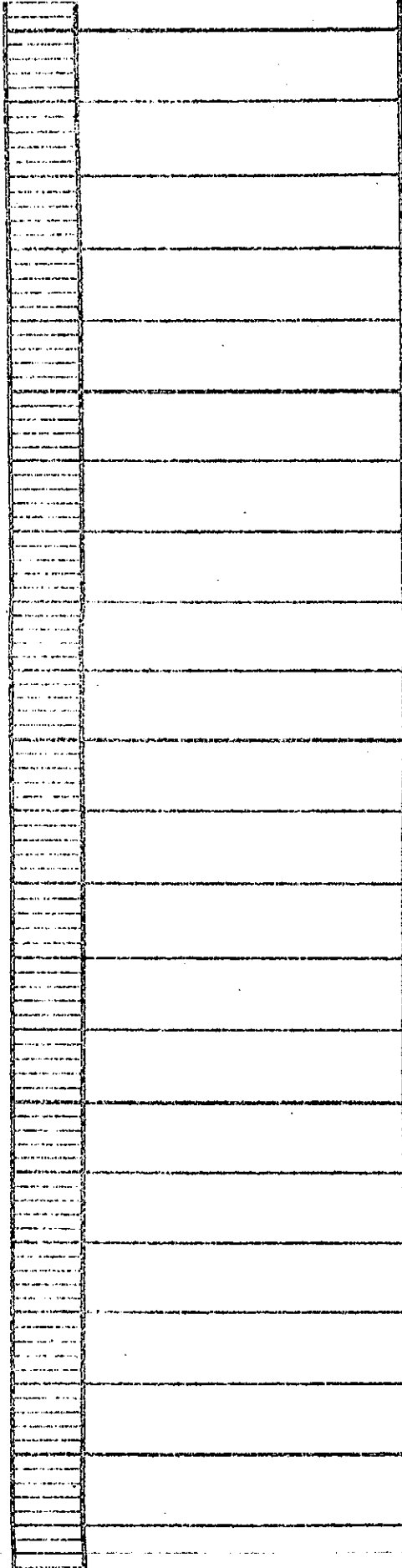




3700

DEV 1/2

3800



MUD CHECK
VIS 118 WT 8.65
CHLOR 1,900 LCM 4
FILT 7.2

4100

LS. CRM, WHT, F → M XTLN, SOFT,
CHLKY, G.B., NS

LS. LT GRY, F → M XTLN, HRD,
D.N.S., V. FOSS, T.ITE, NS

A.A

LS. WHT / CRM, V F XTLN, V HRD,
V D.N.S., V FOSS, T.ITE, NS

A.A.

△ △ CNT, LT GRY

△ △
△ △
△ △

4200

SH, GRY

LS. WHT, V F XTLN, D.N.S., SL CHLKY,
HRD, T.ITE, NS

SH, BLK

LS. BUFF, GRY / TAN, F XTLN,
W / MIXED M XTLN, NO V.S.B
NS

LS. TAN, V F XTLN, V OOL + FOSS,
FOSS PRAGS, V W CNT, T.ITE, NS

LS. LT GRN / GRY, V F XTLN, HRD,
D.N.S., SL GRN T.XT, NO APP
NS

HEEBNER
4278 - 1759

SH, BLK

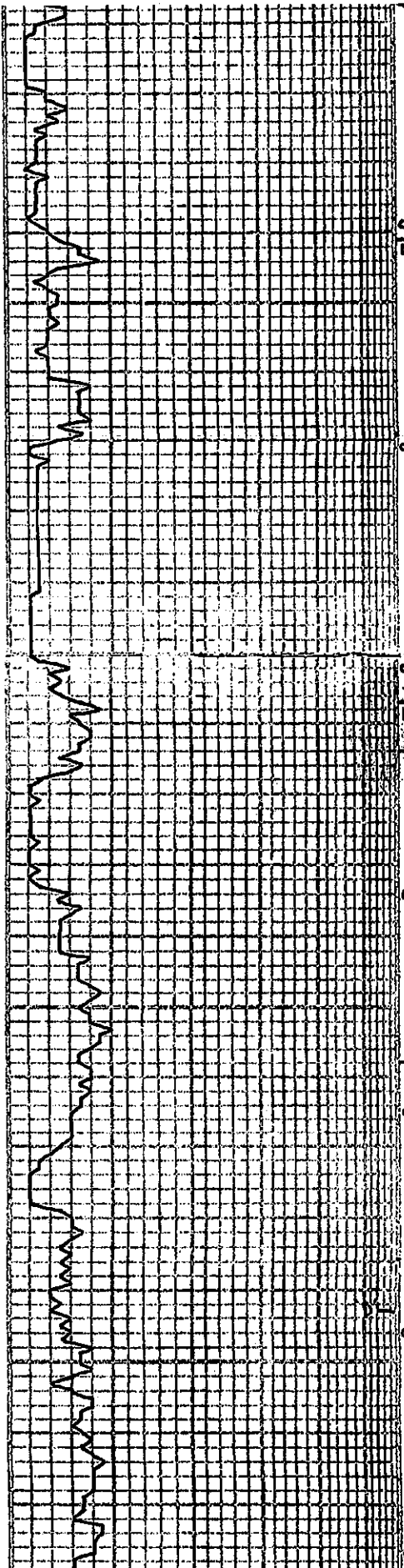
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MINS W/N, T.ITE, NS

TORONTO
4293 - 1774

SH, GRY

4300

LS. TAN / GRY, V F XTLN, D.N.S.,
CRYPTO XTLN, T.ITE, NS

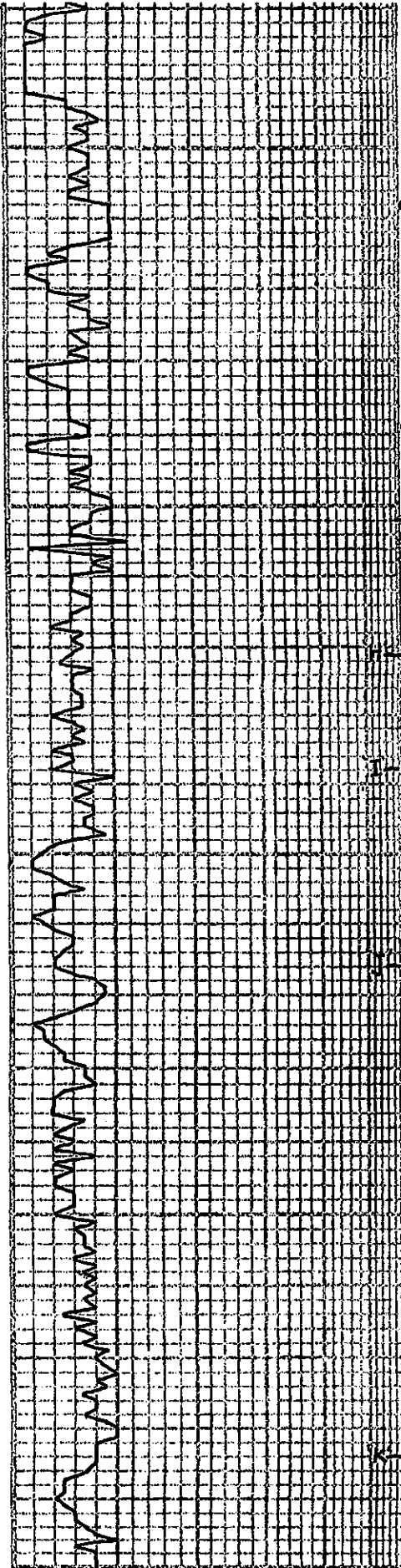


0.1 0.1 0.1 0.1 0.1	CHALK
	LS, WHT, F-MXTLN, G XTLN ϕ , NS
	SH, GRY, GRN
	LS, WHT, V FXTLN, DNS, HRD, BRTL, V OOLY FOSS, W CNT'D FOSS, NO APP ϕ , NS
	SH, GRY, BURG/BRN
	SH, GRY, CARB PCS
	LS, TAN, FXTLN, HRD, V FEW FOSS, ϕ , NS
	LS, WHT, CRM, FXTLN, SL FOSS, HRD, DNS, TITE, NS
	LS, WHT, F-MXTLN, CRUMBLY, G INT XTLN ϕ , NS
	SH, GRY
	LS, BUFF, BRN, MAFC, MMS ϕ , HRD, SL BRTL, NO VIS ϕ , NS
	LS, GRY, WHT, V FXTLN, DNS, HRD, TITE, NS
	SH, GRY
	LS, TAN, V FXTLN, CRYPTO, SCT FOSS, HRD, DNS, NS
	LS, TAN, BUFF, FXTLN, V FOSS, ABUN CORAL, G FOSS ϕ , NS

7:AM 8-6-12
DRLG @ 4386'

MUD CHECK

VIS 57 WT 9.0
CHLOR 6,700 LCM 2 1/2
FILY 10



MUNCIE
4600

4602-2083

4700

STARK
4728-2209

LS, SANDY GRNS, WHT, V SOFT,
VG Ø, FRIABLE, NS

LS, LT TAN, CRYPID, V HRD, DNS,
TITE, NS

LS, TAN, WHT, BUFF, VFXTLN,
DNS, V HRD, TITE, NS

LS, WHT, CRM, BUFF, FXTLN,
HRD, Pcs SCT CHLK, NS

SH, GRY, DK GRY

LS, BRN, VFXTLN, DNS, V HRD,
TITE, NS

LS, BRN, WHT, FXTLN, HRD, NO VIS Ø
NS

SH, GRY/GRN

LS, BRN, WHT, FXTLN, HRD, NO
VIS Ø, NS

LS, WHT, FXTLN, Pcs CHLK, V
DTY, NO VIS Ø, NS

LS. A.A.

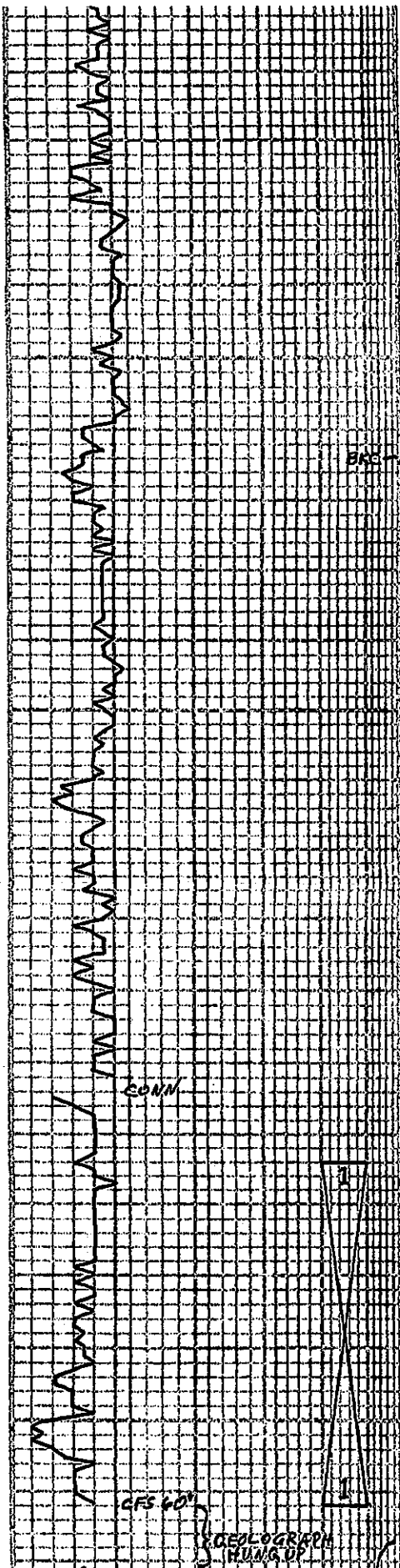
LS, TAN/GRY, VFXTLN, DNS,
HRD, TITE, NS

LS, CRM, BUFF, FXTLN, V FOSS,
VARISIZE FOSS, SCT PITTED →
VUG Ø, NS

LS, TAN, BUFF, VFXTLN, FOSS LAYER
ON EDGES, G. FOSS Ø, MOSTLY
TITE, NS

SH, DK GRY, BLK

LS, GRY, VFXTLN, DNS, HRD,
TITE, NS



Highpuckney
4773-2254

4800

Marmaton
4872-2353

Altamont
4888-2369

4900

Pawnee
4946-2427

LS, TAN, WHT, VFXTLN, SL FOSS, TITE, NS
SH, BLK
CHT, V FOSS, SL RPL, TITE, FRESH, NS
LS, CRM, FXTLN, HRD, TITE
LS, BUFF, FXTLN, S → M HRD, CRUMBLY, BRTL, P → F INT XTLN, NS
SH, GRV, GRN
LS, BUFF, TAN, CRM, S → M HRD, V FOSS, SL ALGAL, FCMT'D FOSS, VP FOSS φ, NS
LS, WHT, BUFF, M HRD, F → M XTLN, FOSS, FCMT'D FOSS, P FOSS φ, NS
SH, DK GRV
LS, WHT, MXTLN, BRTL, SL HRD, V FOSS, FOSS CASTS, F φ, NS
SH, GRV, GRN, SL SLTY
LS, TAN, VFXTLN, CRYPTO, V DMS, V HRD, TITE, NS
SH, GRV
LS, BUFF, VFXTLN, HRD, BHT VLUU FLUR, FLUR SAT STNG, TITE
LS, SAT FLUR STNG, FIBROUS RESIDUE, FEW FO DROPS ON BRK
SH, GRV, BLK
LS, BUFF, CRM, VFXTLN, V DMS, SPTY FLUR STNG, TITE, NO FO ON BRK
LS, BUFF, VFXTLN, DMS, HRD, NO APP, NS
A.A.

7:AM 8-7-12
DRLG @ 4784'
MUD CHECK
V.579 WT 9.2
CHLOR 7,800 WCMZ
FILT 13.2

NO ODOR

NO ODOR

NO ODOR

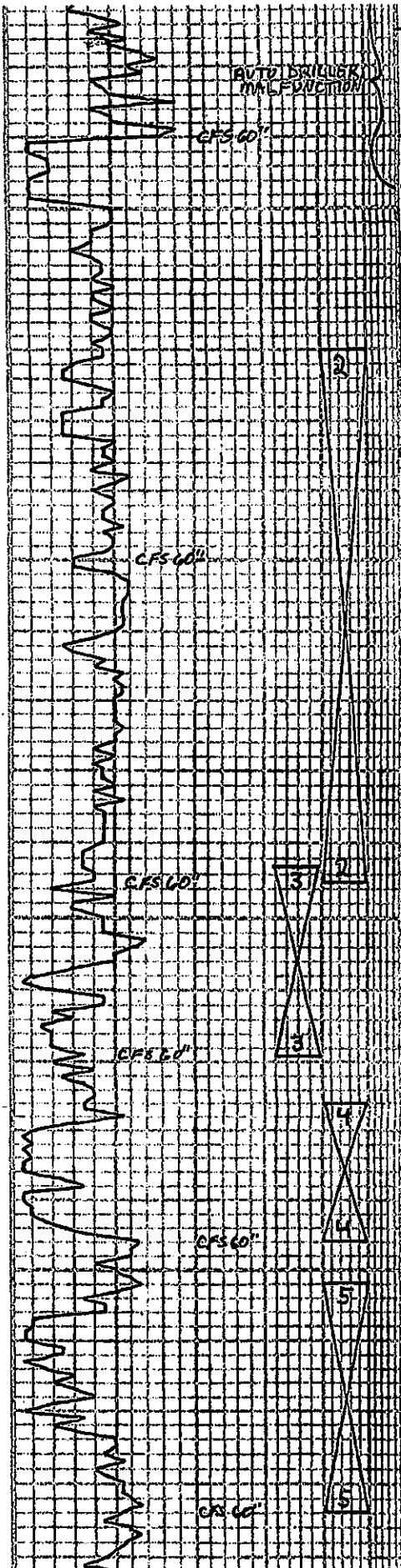
7:AM 8-8-12
DST #1 4962-TD
MUD CHECK

CONN

GFS 60'

GEOLOGICAL
HUNG OP

60 10 120



4975-2456	FT SCOTT	LS. CRM, TAN, VFXTLN, M HRD, PCS CHLKY, NO VIS B, NS
4990-2471	CHEROKEE	LS. GRV, FXTLN, HRD, V FEW FOSS, TITE, NS
5000		SH, G RY, GRN
		LS. TAN, FXTLN, M HRD, LG UNCONSOL FOSS, PYR, NO APP, NS
		LS. CRM, VFXTLN, V HRD, DNS, TITE, NS
		SH, BLK
		LS. BUFF, FXTLN, V OOL, SML OOLS, SPTTY, MIEBO, FLUOR ED, OAL BRK, DULL FLUOR STNG, F INT OOL, GAS BELLT BRN STNG, NO VIS ENERGY
		SH, GRN, GRV, SLTY IN PCS
		SH, BLK, FISSLE
		LS. CRM, S, G OOL, FOSS, HRD, W CNT'D FOSS, NO APP B, NS SCT WHT, BRN CNT
		LS. TAN, VFXTLN, DNS, HRD, TITE, NS
5083-2564	HUCK	LS. TAN, VFXTLN, DNS, V HRD, RE XTLD FRACS, SL FRAC, NS
5097-2578	ATOKA	LS. AA, FLUOR EDGE, L SCT SURE STNG, PCS FLUOR O DROPS ON BRK, VV FNT ODOR
5097-2578	5100	SH, GRN, GRV
		LS. CRM, TAN, FXTLN, HRD, VSL FRACD, FLUOR STNG IN FRACS, NO ODOR, NS
		SS. CLR GRNS, PCNT'D, F GRNS, BRN DD OIL STNG, NO ODOR, NO FD
		SS. LG. MULTI COLOR GRNS, UNCONSOL, NS
		SS. SSM GRNS, CLR, SMOKE, GRN SPR'D, GASSY
5118-2599	MISS	CNT, WHT, WEATH, G BRN O STNG, G SMO GAS + LT BRN FO, NAT FL, SL FRACD, NO ODOR, PCS SHARP + FRESH
		CNT, WHT, FRESH, SHARP, NS
		BOLD, TAN, GRNLR, SOFT, G GASSING, V LT FO, FO IN TRAY + CUP, VG SAT FLUOR STNG, DULL FLUOR FO, G PERM
		CNT, WHT, WEATH, HVY STNG IN WEATH B, NO FO, NO ODOR
		LS. DOLD, TAN, FXTLN, SCT YUG B, SCT FO IN TRAY, LT ODOR, VG OVG W HVY ODOR, OAL BRK, LT BRN + FLUOR FO SPTS, SOFT, FIZLY GAS
		LS. AA, NO SHOW
		LS. BUFF, FXTLN, M HRD, OOC, PANS
		LS. CRM, VFXTLN, DNS, SSM HRB, CHLKY, FLUOR DD D + SCT FO, FNT ODOR
		LS. CRM, FXTLN, LG XTLS 1/4", P CNTD LG XTLS, M HRD, P B, NS

VIS 40 WT 7.4
CHLOR 8,400 LCM 2
FILT 15.2

DST #1 19 STNB SHTT TRD

STRAP BOARD

DST #1 4924-4962
30.45:45:60

IF: 6" ISI: NR
FF: BOB 40' FSI: NR
REC: 60' SOWCM 1X0, 20XW
75' WCM 40XW
75' WCM 50XW

FP: 95-133, 137-180
SIP: 1093-1058
HP: 2535-2393

7:AM 8-9-12
DRLG @ 5055'
MUD CHECK
VIS 56 WT 9.4
CHLOR 9,800 LCM 1
FILT 11.6

7:AM 8-10-12
GIT W/BIT 5095' TD
MUD CHECK
VIS 140 WT 9.35
CHLOR 16,800 LCM 2
FILT 16.8

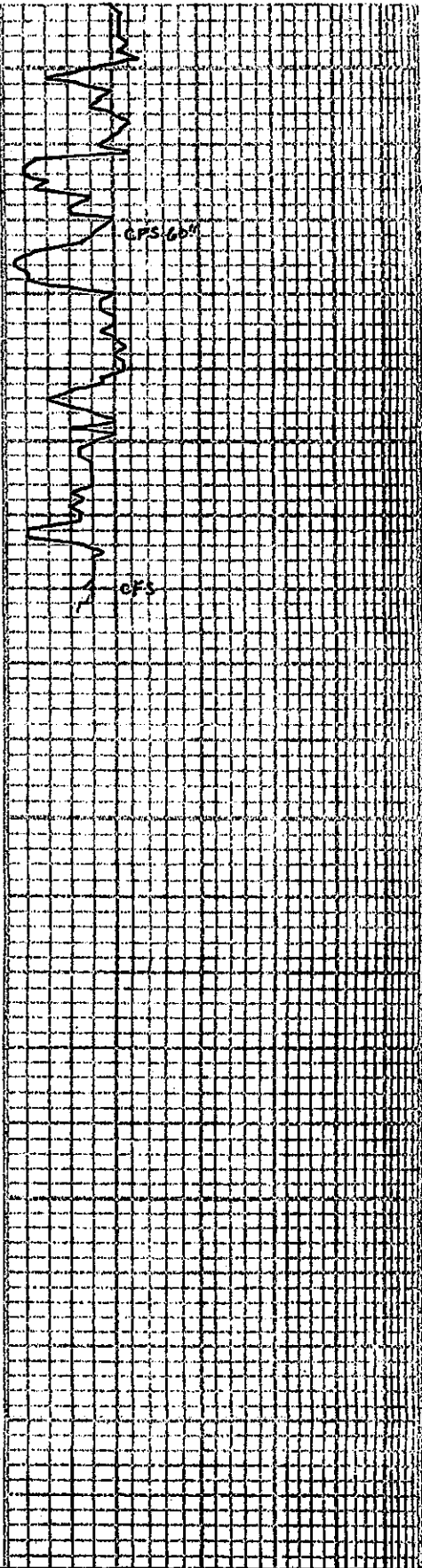
7:AM 8-11-12
GIT W/BIT @ 5119' TD
MUD CHECK
VIS 95 WT 9.15
CHLOR 13,600 LCM 2
FILT 20.8

DST #2 5020-5095
30.45:45:60

IF: 7" ISI: NR
FF: BOB INST FSI: NR
REC: 30'M
FP: 70-67, 67-71
SIP: 707-1100
HP: 2587-2338

8-12-12 7:AM
CFS @ 5184'
MUD CHECK

5200



1	DOLO, TAN, SUCR, HRD, TITE, NS
2	CHT, WHT, TAN, CRM, WHT Pcs W/FOSS, FRESH, NS
3	LS. CRM, F XTLN, ABUN CRS FOSS FRAGS, SOFT, CRUMBLY, F+G FOSS, R, NS
4	DOLO, TAN, SUCR, VF BRNS, SOFT, FRIABLE, VG Ø, NS
5	LS, WHT, VF XTLN, DNS, HRD, VF FOSS, TITE, NS
6	LS, WHT, VF XTLN, DNS, HRD, VF FOSS, TITE, SCT CHT, NS
7	CHT, WHT, TAN, GRN W/O FRAGS, NO Ø, NS
8	CHLK
9	CHT, WHT, TAN W/FINE FOSS+FRAG W/N, TITE, NS
10	
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DEV 3/4°

VIS 56 WT 9.0
CHLOR 14,800 LCM4
FILT 15.2

DST#3 5093-5119
30.45.30.60
IF: BOB 1min ISI: NR
FF: BOB INST FSI: NR
GTS 10min, ga 120 MCF
REC: 80'M
FP: 76-201, 76-93
SIP: 1566-1534
HP: 2610-2439
GTS, GA 120 MCF

7:AM 8-13-12
DRLG Ø 5254'
MUD CHECK
VIS 53 WT 9.0
CHLOR 14,400 LCM2
FILT 16.8
TD @ 5270'
SHORT TRIP 5 STNDS

DST#4 5126-5146
30.45.45.60
IF: BOB 1/2 min ISI: NR
FF: BOB INST FSI: NR
REC: 70'M
GTS ga 241 MCF
FP: 72-98, 87-97
SIP: 1296-1210
HP: 2586-2464

DST#5 5152-5184
30.45.45.60
IF: BOB 2min ISI: 1/2" BB
FF: BOB 1min FSI: 1" BB
REC: 4984' GIP
20' G+OCMW
5%G, 20%O, 35%W, 40%M
90' WCMO
1%W, 49%M, 50%O
90' GCW+MO
10%G, 25%W, 25%M
25%O
FP: 77-116, 105-121
SIP: 1237-1206
HP: 2606-2449

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, 2012

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

Re: ACO-1
API 15-057-20830-00-00
Sanko 2
NW/4 Sec.17-28S-23W
Ford County, Kansas

Dear John Niernberger:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 07/31/2012 and the ACO-1 was received on November 29, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department