



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1097662
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 Date Reached TD Completion Date or Recompletion Date

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: \_\_\_\_\_



1097662

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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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**#1 Potosi - Simon**

1480' FSL & 1020' FWL

90' N & 30' E of E/2 W/2 SW

Section 13-27S-24W

Ford County, Kansas

API# 15-057-20816-0000

Elevation: 2454' GL, 2466' KB

Sample Tops			Ref. Well
Anhydrite	1486'	+980	-10
B/Anhydrite	1521'	+945	-5
Stotler	3490'	-1024	-2
Heebner	4152'	-1686	-2
Lansing	4272'	-1806	Flat
Muncie Shale	4450'	-1984	+4
Stark	4582'	-2116	+1
Hush	4628'	-2162	Flat
Marmaton	4715'	-2249	+2
Pawnee	4794'	-2328	+4
Cherokee Shale	4842'	-2376	+4
Huck	4932'	-2466	+2
Atoka	4943'	-2477	+3
Mississippian	4984'	-2518	+8
RTD	5113'	-2647	

# ALLIED OIL & GAS SERVICES, LLC 053826

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:  
Medicine Lodge KS

DATE <u>07/01/2012</u>	SEC <u>13</u>	TWP <u>27s</u>	RANGE <u>24w</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>4:15 AM</u>
LEASE <u>Potosi</u>	WELL # <u>1</u>	LOCATION <u>Ford KS, North to Saddle Rd, West to 117th</u>			COUNTY <u>Ford</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)	North to RCA Will Rte <sup>5/16 Post</sup> <del>117th</del> <sup>near</sup> <del>117th</del> <sup>East</sup> <del>117th</del>			immediately south thru gate			

CONTRACTOR Duke #1 OWNER Ritchie Exploration

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>349.64</u>	CEMENT
CASING SIZE <u>8 3/4</u>	DEPTH <u>349.64</u>	AMOUNT ORDERED <u>225ex Class A +</u>
TUBING SIZE	DEPTH	<u>3% cc + 2% Gel</u>
DRILL PIPE	DEPTH	
TOOL	DEPTH	
PRES. MAX <u>700</u>	MINIMUM	
MEAS. LINE	SHOE JOINT <u>40</u>	
CEMENT LEFT IN CSG. <u>40</u>		
PERFS.		
DISPLACEMENT <u>2066</u>		

COMMON <u>Class A</u>	<u>225 @ 16.25</u>	<u>3656.25</u>
POZMIX	@	
GEL	<u>5 @ 21.25</u>	<u>106.25</u>
CHLORIDE	<u>8 @ 58.20</u>	<u>465.60</u>
ASC	@	
	@	
	@	
	@	
	@	
	@	
	@	
HANDLING <u>243.29</u>	@ <u>2.10</u>	<u>510.91</u>
MILEAGE <u>11.1 X 50 X 2.35</u>		<u>1304.50</u>
		TOTAL <u>6043.51</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Jason Thimerch</u>
# <u>368/265</u>	HELPER <u>Brett Coins</u>
BULK TRUCK	
# <u>256/290</u>	DRIVER <u>Tray Lenz</u>
BULK TRUCK	
#	DRIVER

REMARKS:

SERVICE

DEPTH OF JOB <u>349</u>	
PUMP TRUCK CHARGE	<u>1172.50</u>
EXTRA FOOTAGE	@
MILEAGE <u>50mi</u>	@ <u>7</u> <u>350</u>
MANIFOLD + Head	@ <u>200</u>
LV <u>50mi</u>	@ <u>4</u> <u>200</u>
	@

TOTAL 1922.50

PLUG & FLOAT EQUIPMENT

<u>858</u>	
Rubber Plug	1 @ <u>112</u> <u>112</u>
AFU Insert	1 @ <u>382</u> <u>382</u>
Bucket	1 @ <u>478</u> <u>478</u>
	@
	@
TOTAL <u>972</u>	

SALES TAX (If Any)

TOTAL CHARGES 8938.01

DISCOUNT 2081 \$1787.00 IF PAID IN 30 DAYS

NETS 7150.41

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 Mike Godfrey

SIGNATURE Mike Godfrey



**BASIC**<sup>SM</sup>  
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 03689 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 7-16-12		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: Kichie Exploration				LEASE: Poteri-Simona #1				WELL NO.:	
ADDRESS:				COUNTY: Topeka		STATE: KS			
CITY:				STATE:		SERVICE CREW: Mendoza, S. Chavez			
AUTHORIZED BY: J. Bennett				JOB TYPE: 2 1/2" 55' Prod.					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
31726	8						7-16-12	AM	2:00
27808	4					ARRIVED AT JOB		AM	5:00
14553	4					START OPERATION		AM	2:00
14355	4					FINISH OPERATION		AM	3:00
14281	4					RELEASED		AM	1:00
						MILES FROM STATION TO WELL: 7.5 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: Gary Row  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CE1103	60/110 Poz	sk	50		600 00
CE1105	BAR	sk	175		3185 00
CE1113	Gypsum	lb	250		618 75
CE1111	Salt	lb	572		486 00
CE1103	C-15	lb	99		1237 50
CE1107	C-120	lb	17		336 00
CE1201	Calmagite	lb	775		586 25
CE1251	5/8" Receptor Guide Line	ft	1		250 00
CE1111	Flapper type insert	ea	1		215 00
CE1112	Turbolizer	ea	1		525 00
CE1117	Port Collar	ea	1		3500 00
CE1152	Basket	ea	3		2865 00
CE1103	250 Rubber Plug	ea	1		105 00
CE1151	Mud Flush	gal	300		430 00
CE1101	Round Equipment Mileage	mi	170		1190 00
CE1110	Round Equipment Mileage	sk	225		315 00
CE1113	Round Equipment Mileage	hr	584		1414 40
CE1102	Round Equipment Mileage	hr	1		2850 00
CE1114	Plug Container	ea	1		250 00

SUB TOTAL 11361.32

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: J. Bennett THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Gary Row  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.



**BASIC**<sup>SM</sup>  
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 03786 A

DATE \_\_\_\_\_ TICKET-NO. \_\_\_\_\_

DATE OF JOB: 7-17-12		DISTRICT: Liberal #1717		NEW WELL <input type="checkbox"/> OLD WELL <input checked="" type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: Ritchie Exploration				LEASE: Potosi Simon				WELL NO. 1	
ADDRESS:				COUNTY: Ford		STATE: KS			
CITY:				STATE:		SERVICE CREW: Kirby, Edd, Saul, Reaktor			
AUTHORIZED BY: Tracy Davis				JOB TYPE: Port Collar 2-41					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
				21755			7-17-12	PM	08:00
				-27462	5			AM	11:00
				-19827				AM	1:30
				19566				AM	1:30
				14355				AM	1:50
				-14284				AM	1:50
						MILES FROM STATION TO WELL			

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 Ppc	SK	250		3000 00	
CC200	Cement Gel	lb	800		215 00	
CC102	Celloflake	lb	63		233 10	
C2410	Cotton Seed Hulls	lb	300		105 00	
E101	Heavy Equipment Mileage	MT	255		1785 00	
CE240	Blend. gel & Mixing Service Charge	SK	475		665 00	
E113	Bulk delivery Charge	TRUCK	1738		2781 00	
CE202	Depth Charge 1001-2000	4hrs	1		1500 00	
E100	Unit Mileage Charge - Pickup	MT	85		361 05	
SO03	Service Support	EA	1		175 00	
					SUB TOTAL	7574.39

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)

# MIKE ENGELBRECHT

Licensed Geologist No. 354

2515 Spring Meadow  
Vichita, KS 67205

Phone: 316-721-9226  
Cell: 316-641-6000

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

OPERATOR RITCHIE EXPLORATION, INC

LEASE POTOSI-SIMON #1

FIELD \_\_\_\_\_

LOCATION J480 FSL & 1020' FWL = E/2 W/2 SW

SEC. 13 TWP. 27 RGE. 24W

COUNTY FORD STATE KS.

CONTRACTOR DUKE RIG #1

COM. 6-30-12 COMP. 7-11-12

RTD 5113 LOG TO 5115'

SAMPLES SAVED FROM 3800' TO RTD

DRILLING TIME KEPT FROM 3400' TO RTD

SCALES EXAMINED FROM 3800' TO RTD

GEOLOGICAL SUPERVISION FROM 4180' TO RTD

MUD UP DISPL & 3595' TYPE MUD CHEMICAL

API # 15-051-20, 816-0000

FORMATION	TOP	LOG	BATHY	DEPTH	SAMPLES	STRUCT.
ANHYDRITE	1475 + 991		1475+991			+1
BASE ANHY	1518 + 948		1520+946			-2
STOTLER	3490-1024		3490-1024			-2
LANESING	4152-1686		4152-1686			-2
WUNCIE SH	4457-1991		4456-1990			-3
STRICK SH	4584-2118		4584-2118			-1
MARMATON	4720-2254		4717-2251			-3
PHANEE	4194-2328		4194-2328			+4
CHEROKEE SH	4844-2378		4843-2377			+2
HICK LS	4931-2465		4930-2464			+3
ATOKA SH	4943-2477		4943-2477			+3
MORRIS						
MISSISSIPPI	4981-2515		4980-2514			+11

### ELEVATION

KB 2466

DF 2454

Measurements Are All  
From KB 2466

### CASING RECORD

SURFACE 8 5/8" @ 346'

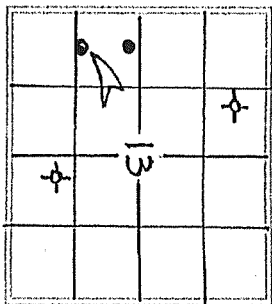
W/ 22.5 SKS.

PRODUCTION 5 1/2" @ 5106'

W/ 175 SKS. R @ 1454'

60' OF 20"

WELL LOG SURVEYS  
COMP NEAR DENSITY  
DUAL INDUCTION



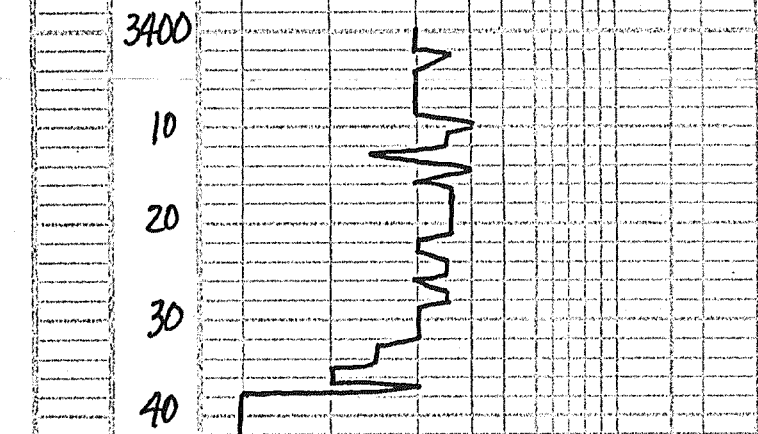
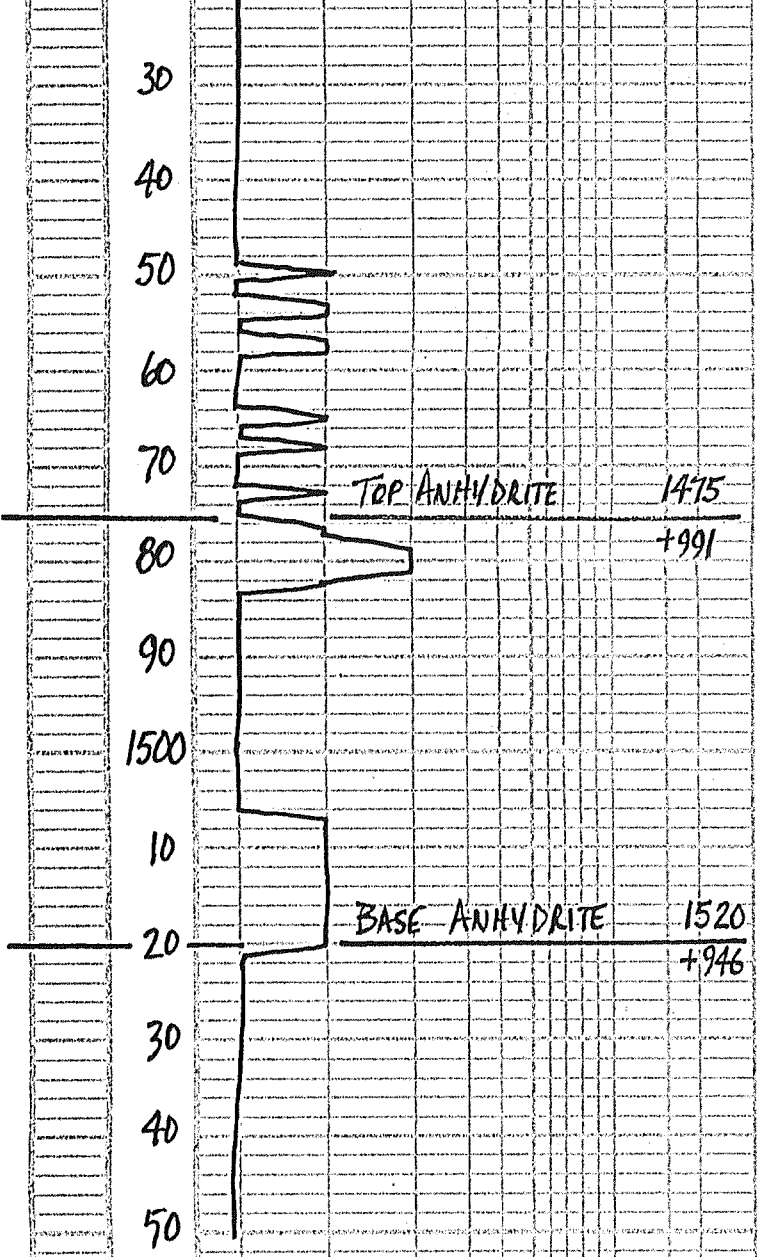
DATE	DEPTH	LOG	TIME	DEPTH
6-30-12	MRT			
7-01	WOC @ 349'			
7-02	DRIG @ 1362'			
7-03	DRIG @ 2500'			
7-04	DRIG @ 3200'			
7-05	DRIG @ 3878'			
7-06	DRIG @ 4455'			
7-07	SHORT TRIP @ 4797'			
7-08	DST #2 @ 4810'			
7-09	DST #3 @ 4950'			
7-10	DST #4 @ 5035'			
7-11	RUNNING O/S.			

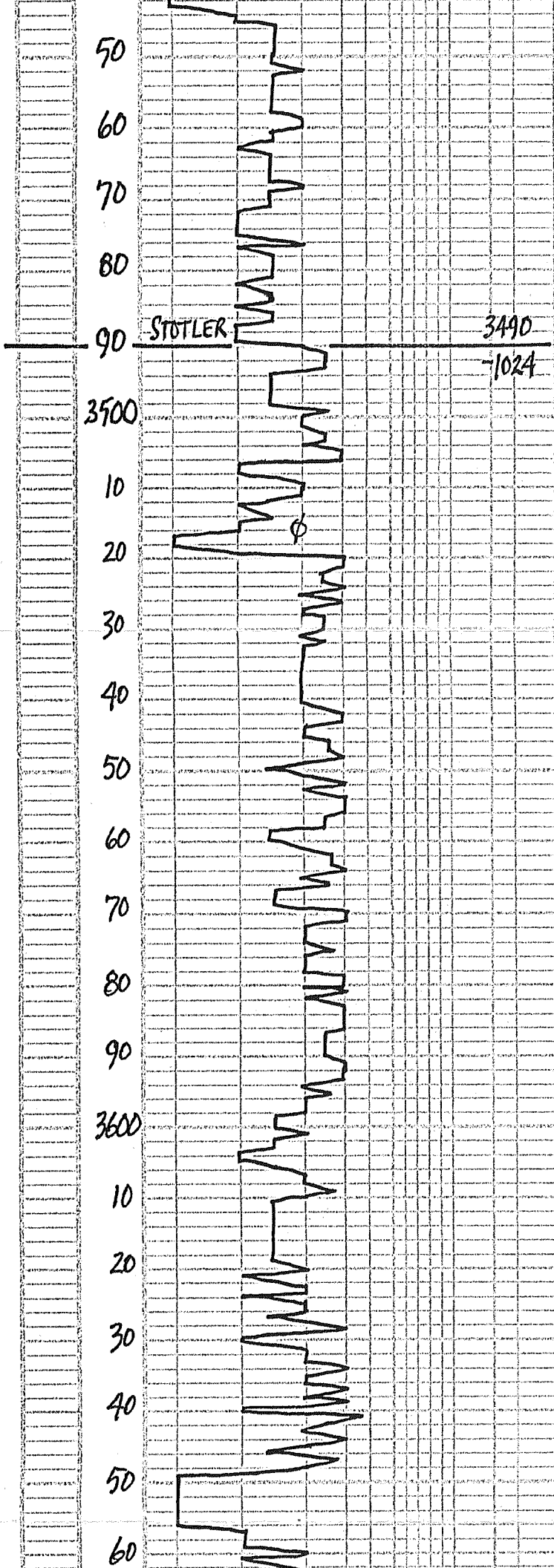
REFERENCE WELL FOR STRUCTURAL CORRELATION

REF. POTOSI #1 OIL WELL,  
2390' FSL & 725' FWL 13-27-24W



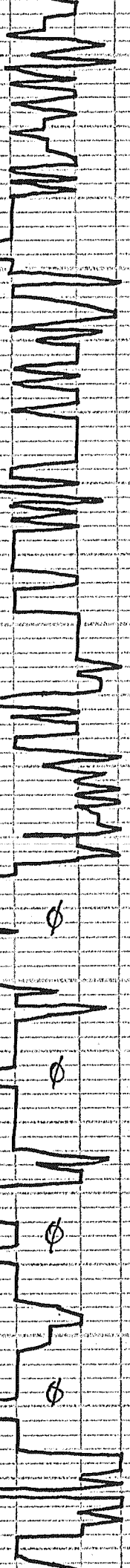






← DISPLACED

70  
80  
90  
3700  
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80  
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3800  
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70  
80



LT CRM Foss LS P-F  $\phi$  NS

20 LT CRM Foss LS P-F  $\phi$  NS NO ODOR

40 LT TAN V. Foss LS FAIR  $\phi$  NS

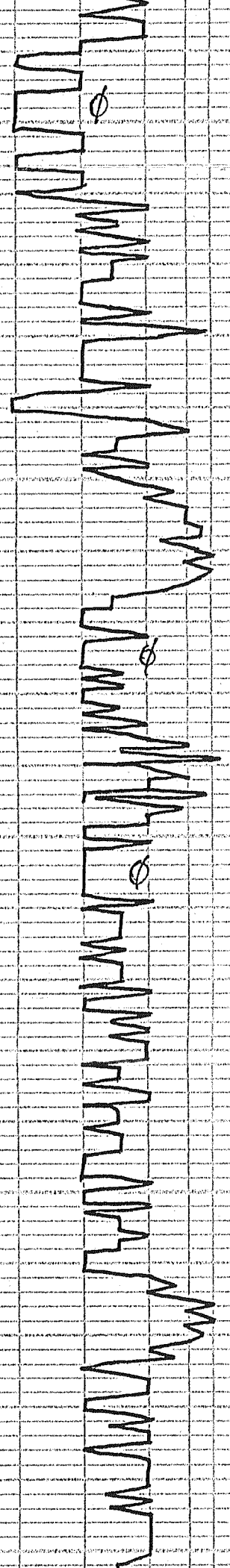
60 LT TAN = BUFF NOD = Foss LS  
P-F  $\phi$  NS NO ODOR

80 LT CRM = LT TAN V. Foss LS FAIR  $\phi$   
NS NO ODOR INC. GRP GRN SPS

00 WH = LT CRM Foss  $\Delta$  ty LS P-F  $\phi$   
NS, NO ODOR

← VISC: 45  
WT: 90  
LCM: 2#

90  
3900  
10  
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70  
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4000  
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4100



20 TAN = GRAY COL = FOSS LS FAIR  $\phi$   
NS NO ODOR

40 LT CRM LT TAN FOSS LS FAIR  $\phi$   
NS NO ODOR

60 WH = CRM FN = XLN LS POOR  $\phi$  NS  
INC BRN RUST STS

80 LT CRM SEMI = FOSS LS P-F  $\phi$   
NS NO ODOR FEW DNSE  $\Delta$   $\phi$

90 LT CRM LT TAN SEMI OOL LS  
FAIR  $\phi$  - NS INC GRAY STS

LITAN = BUFF SLI = FOSS LS  
P-F  $\phi$  - NS NO ODOR

20 WH = LT CRM SLI = OLY LS - NS

WH = LT CRM SLI = FOSS LS P-LL  
OLY POOR  $\phi$  - NS NO ODOR

40 CRM = BUFF SEMI = FOSS LS  
P-F  $\phi$  - NS NO ODOR

LT CRM = LT TAN FOSS LS F  $\phi$   
NS

60 WH = V. LT GRAY SLI = FOSS LS  
P-F  $\phi$  NS NO ODOR

WH = LT CRM  $\Delta$   $\phi$  FOSS LS  
P-F  $\phi$  NS

80 LT GRAY = CRM FOSS LS P-F  $\phi$  NS  
NO ODOR

LT GRAY = CRM FOSS LS - NS

90 LT TAN = CRM SEMI = FOSS LS  
P-F  $\phi$  - NS NO ODOR

10 WH = CRM FN = XLN LS POOR  $\phi$   
NS

20 FLOOD LT CRM WH = V. OOL FOSS  
LS FAIR  $\phi$  - NS NO ODOR

MUD CO. ✓  
← VISC: 45 CHL: 6500  
WT: 8.9 LCM: 1 1/2\*  
FILT: 9.2

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

HEEBNER

4152  
-1686

TDR

DOUGLAS

LANSING

4270  
-1804

CFS →

LT CRM SUB OOL LS SLI CRM  
NS NO ODOR

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

FLOOD DK GRAY SHS & GRAY LS

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

BLK CARB SHS!

80 DIRTY GRAY LS SLI-FOSS - NS  
LT GRAY - GRN SOFT SHS

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

80 LT CRM - LT TAN SLI-FOSS LS  
POOR φ - NS

10 LOTS WH - LT CRM SEMI-FOSS LS  
PTLY CRM FAIR φ - NS NO ODOR

20 LT GRAY - GRN GUMBO SHS

30 GRN - GRN SHS FEW DNSE GRAY  
FN - XLN LS - NS

40 LT GRAY - TAN FUSSING LS POOR φ  
NS NO ODOR

50 LT GRAY - BUFF OOL LS POOR φ  
NS NO ODOR OOL - SOLID

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

70 LOTS LT BLUE - GRAY SHS

80 TAN - BUFF V. FN - XLN DNSE LS  
POOR φ - NS NO ODOR

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

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

60 MIN: WH - LT CRM SEMI-OOL LS  
PTLY CRM P-F FOSS φ - NS

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

10 DK GRN SMOKEY Δ & Δ<sub>2</sub> LS  
DNSE POOR φ - NS NO ODOR

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

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

← VISC: 53  
WT: 9.1  
LCM: 2#

← GEBL. ON LOCATION

850# PP

NO KICKS

← ADDING PRE-MIX

NO KICKS

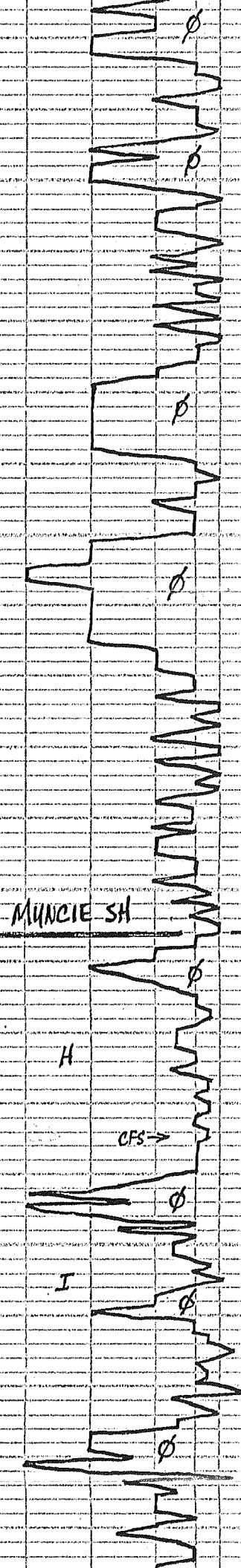
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WT: 9.2  
LCM: 2#

900# PP  
54 STROKES

NO KICK

← VISC: 47  
WT: 9.2  
LCM: 2#

30  
40  
50  
60  
70  
80  
90  
4400  
10  
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30  
40  
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70  
80  
90  
4500  
10  
20  
30  
40



40. G.P.P. S.F.S. & GRAY MERLY. SLI-FOSS  
LS. POOR φ - NS

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

60 FINEY GRD. WH-LT CRM SLI-FOSS  
LS P-F φ - NS, NO ODOR

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

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

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

90 BLK SHS & WH. FN-XLN LS  
CRK P-F φ - NS, NO ODOR

10 WH-LT CRM SLI-FOSS LS  
P-F φ - NS PTLY CRK

20 WH-LT CRM SLI-FOSS LS  
CRK - NS, POOR φ - NS

30 WH-LT CRM FN-XLN CRK LS  
P-F φ - LT TAN LGE. OOR LS  
FAIR φ - NS NO ODOR

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

50 FEW GRAY DENSE SLI LS  
POOR φ - NS, NO ODOR

60 FAIR AMT DR. GRAY-BLK SHS

70 CRM-LT TAN SLI-FOSS LS  
POOR φ - NS PTLY CRK  
NO ODOR

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

85) LT CRM SLI-FOSS LS POOR φ  
NS. NO ODOR

30 MIN. CRM-LT TAN SLI-FOSS LS  
LS. POOR φ - NS NO ODOR

90 PREL CRM-LT TAN SLI-FOSS LS  
POOR φ - NS, NO ODOR

10 CRM-LT TAN SEMI-FOSS LS  
P-F φ - NS NO ODOR SLI CRK

20 WH-CRM FN-XLN DENSE LS  
POOR φ - NS NO ODOR

30 FLOOD LT CRM-TAN DOL LS  
P-F φ - NS, NO ODOR

40 WH-V. LT GRAY SLI LS POOR φ  
NS

50 V. LT TAN-CRM-WH SLI-FOSS LS  
P-F φ - NS PTLY CRK

60 LRT GRAY SHS & SHLY LS - NS

← VISC: 47  
WT: 9.2  
LCM: 2#

JET #1 ADD PREMIX

← BUCK CHROMO.

← MUD CO V  
VISC: 52  
WT: 9.3  
FILT: 9.6  
CHL: 6,000

← NO KICK

← VISC: 51  
WT: 9.3  
LCM: 1 1/2 #

NO KICKS

NO KICKS

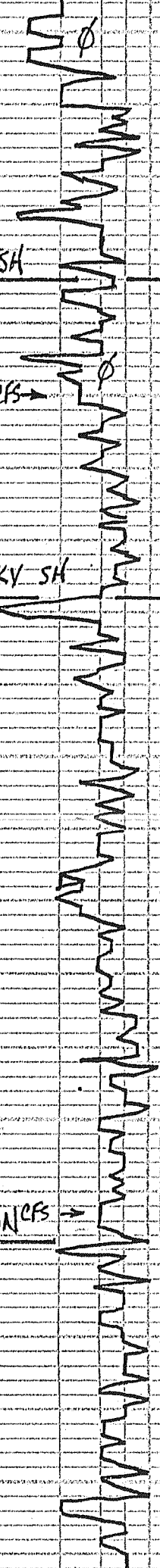
50  
60  
70  
80  
90  
4600  
10  
20  
30  
40  
50  
60  
70  
80  
90  
4700  
10  
20  
30  
40  
50  
60

J

STARK SH

HULSHPKY SH

MARMATON CFS



4584

-2118

4628

-2162

4717

-2251

70 LT CRM - TAN SHR DOC LS FAIR P  
NS NO ODOR

80 LT CRM - LT TAN SEMI FOSS LS  
POOR P - NS

90 LOTS DK GRAY - BLUE - BLK SHS  
CRM LS FA - NS

00 TAN - BUFF SLI - FOSS LS  
POOR P - NS NO ODOR LOTS GRAY  
BLK SHS

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

60 MIN: WH - CRM - TAN SLI - FOSS  
LS P-F P - NS NO ODOR

10 WH - LT CRM SLI - FOSS LS  
PTLY CRY - NS NO ODOR

20 LT CRM - LT TAN FU - XLN LS  
DNSE POOR P - NS

30 LS AA - NS & INC GRAY SHS

40 CRM - TAN FU - XLN LS DNSE -  
CRM POOR P - NS  
& BLK SHS

50 WH - CRM LT TAN FU - XLN LS  
POOR P - NS NO ODOR

60 FLOOD V. LT GRAY FU - XLN LS  
DNSE - CRY POOR P - NS

70 FLOOD GRAY FU - XLN LS & GRAY  
SHS

80 PRED GRAY - TAN DNSE - MEALY  
LS POOR P - NS NO ODOR

90 FLOOD GRAY NOD LS W/SPIC'S  
GRAINY DNSE - MEALY NS

00 FLOOD GRAY NOD - SPIC LS  
POOR P - NS NO ODOR

10 FLOOD GRAY NOD - MOLT LS  
POOR P - NS NO ODOR

30 MIN: LS AA - NS & BLK SHS

20 LOTS DK GRAY - BLK SHS & LS

30 CRM - LT TAN - BUFF FU - XLN LS  
POOR P - NS NO ODOR

40 CRM - TAN FU - XLN LS SLI - CRY  
- DNSE POOR P - NS

50 LT CRM - LT TAN FU - XLN LS  
PTLY CRY - NS NO ODOR

60 FLOOD WH - LT CRM SLI - FOSS  
LS POOR P - NS NO ODOR

70 DK GRAY - BLK SHS

← VISC: 51  
WT: 9.3#  
LCM: 1 1/2#  
15 UGK H.W.  
NO RECYCLE  
BUGK H.W.

← ADDING PREMIX  
16 UGK ↓

← VISC: 52  
WT: 9.2  
LCM: 2#

← VISC: 51  
WT: 9.1  
LCM: 2#

70  
80  
90  
4800  
10  
20  
30  
40  
50  
60  
70  
80  
90  
4900  
10  
20  
30  
40  
50  
60  
70  
80

PAWNEE

CHEROKEE SH

HUCK LS

ATOKA SH

MISS

4794

2328

4843

2377

4930

2464

4943

2477

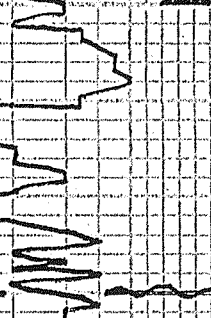
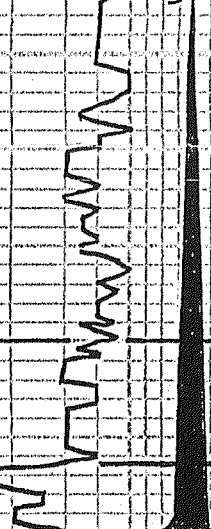
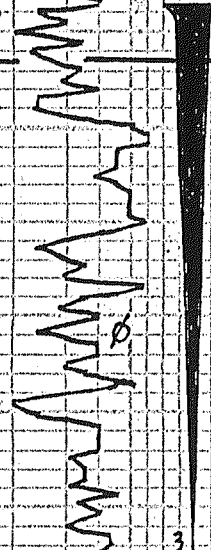
4980

2514

2BUCK HW RECYCLE  
V:56  
WT:9.4  
FIL:1.7  
CHL:5,600

CFS →

CFS →



80 LOTS TAN-BUFF-SLI-FOSS LS  
POOR φ - NS NO ODOR

90 LOTS LTCRM-TAN V. FV-XLN LS  
P-F OOL φ - NS NO ODOR

99) LTCRM-TAN V. FV-XLN LS  
DNSE-VPOOR φ - NS NO ODOR

30 MIN: DK GRN-BLK SHS &  
LTCRM-TAN FV-XLN DNSE LS

60 MIN: LTCRM-TAN FV-XLN SEMI-DK  
LS POOR φ NO VIS STN LT ODOR

10) LTCRM-SLI-FOSS OOL LS P-F OOL  
φ FEW W/ LT STN SSG LT-FAR ODOR

30 MIN: FEW PLS LTCRM-TAN FV  
OOL LS W/ P-F FOSS φ W/ SSG

LT-FAIR ODOR SLP CRU  
60 MIN: DECREASE IN LS AA FT ODOR  
SLI INC CRU

30 PRED LTCRM-SLI-FOSS LS POOR φ  
2 PCS SCAT LT STN, FT ODOR

40 BLK SHS & W/ LTCRM-TAN LS  
FN-XLN DNSE-CRY-NS

NH-CRM-LT TAN SLI-FOSS LS POOR φ  
NS NO ODOR PLY CRU

60 FLOOD-BLK SHS!

70 FLOOD LTCRM-TAN FV-XLN LS  
DNSE-CRY POOR φ - NS NO ODOR

80 SEVERAL PCS LTCRM V. FOSS OOL LS  
W/ FAIR INTER OOL-FOSS φ W/ SSG  
FAIR ODOR CLEAN ROCKS

30 MIN: FEW PLS W/ SSG INC  
TAN-CRM-SLI-CRY LS POOR φ - NS

60 MIN: FEW PCS TAN V. FOSS LS  
W/ FAIR φ - SSG, LT ODOR  
& BLK SHS  
STILL FEW PCS TAN LS W/ SSG

60 LT-DK TAN FV-MO-XLN DNSE  
LS POOR φ - NS NO ODOR

10 LTCRM-TAN FV-XLN LS POOR φ  
NS NO ODOR GRN-GRN SHS

20 CRM-TAN DNSE-CRY LS-NS  
FEW W/ NO ODOR

30 LTCRM-MEALY-FV-XLN LS  
DNSE-CRY-NS

40 CRM-TAN-LT GRN LS FV-XLN  
MEALY-DNSE-NS NO ODOR

50) FLOOD NH-LTCRM FV-XLN LS  
PLY CRU POOR φ - NS NO ODOR

30 MIN: FEW LTCRM FV-XLN LS  
W/ POOR φ LT STN NO FO, NO ODOR

60 MIN: LTCRM-LT TAN FV-XLN  
LS POOR φ FEW PLS DK EDGE STN  
NO FO, NO ODOR PLY CRU  
W/ LOTS GRN, GRN, GOLD, PURPLE SH

70 PRED BRIGHT GRN PURPLE SHS  
FEW LT GRN V. FN-GR SILTSTONE

80 NO STN  
FEW CRM-LT GRN SHARP Δ-NS  
FEW LTCRM NH DOLO W/ STN  
TRACE FO, NO ODOR P-F φ

90 LTCRM-VELL-ORANGE WEA Δ W/  
FAIR WEA φ SCATN STN SSG φ  
FT ODOR ON BREAK, LOTS PCS  
W/ STN

SHORT TRIP 25 STANS @  
4797-CLEAN & SMOOTH  
COND. HOLE 1 HR.

DRLG 13' CFS 1 1/2 HRS  
CAME OUT FOR DST.  
(PIPE STRAP 21 SHORT)  
S.H.T.=10

DST #1 4785-4810  
HIT SOLID BRIDGE GOING  
IN HOLE WITH TEST TOOL  
@ 34:50'-CAME OUT.  
COND. HOLE & ADD MUD.

DST #2 4785-4810'  
30-45-45-60  
IF: STR BLOW BOB 2 MINS.  
FF: BOB 1 MIN. GTS 5 MINS  
GA: 5.24 K IN 40 MINS.  
REC: 200 CGO = 20%G, 80%O  
126 G MO = 15%M, 25%O, 60G  
63 OPGCWM = 20%O, 20%W  
30%M, 30%G  
389 TF CHL=50,000 PPM  
SIP: 857-852 OIL=44%  
IFP: 68-101 FFP: 116-172

TONS TRIP GAS  
ADDING ↓ PREMIX

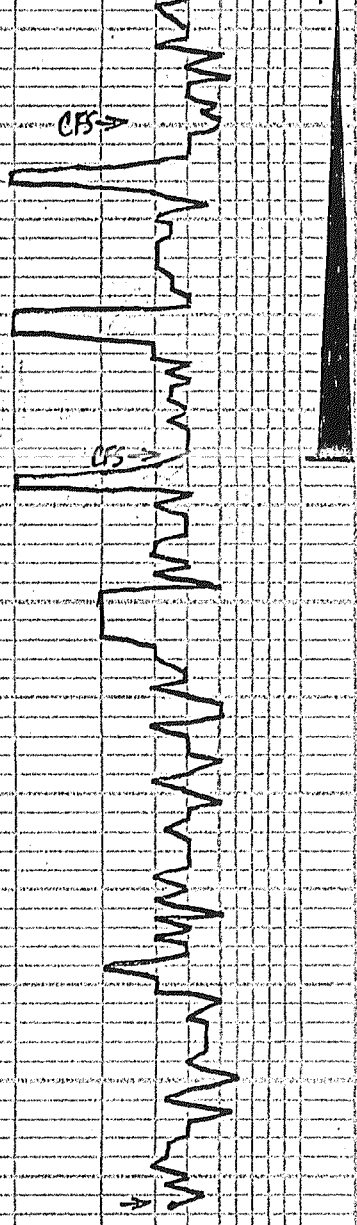
HOTWIRE STILL  
OFF CHART

DST #3 4837-4950  
30-45-45-60  
IF: STRO BLOW BOB 2 MINS.  
FF: STRO BLO INEA GTS 3 MINS.  
GA: 13.00K IN 40 MINS.  
REC: 90 SO GCM = 3%O, 5%G 92M  
SIP: 1382-1378  
IFP: 89-95 FFP: 102-110

HOTWIRE STILL  
READING BIG GAS  
70 TUGK



90  
5000  
10  
20  
30  
40  
50  
60  
70  
80  
90  
5100  
10  
20  
30



RTD 5113  
LTD 5115

00) LOTS WH WEA L W FAIR φ  
FEW SCAT STN TRACE FD FT ODOR  
LOTS WH FN: MD-XLN LS - NS  
30 MIN: FLOOD WH - LT CRM LS  
FN: XLN DNSE CRU - NS  
10 LT CRM FN: XLN & MICRO OOL LS  
P-F φ 2 RES VSSLTGFD  
20 FLOOD LT CRM MICRO OOL LS  
FEW DOLD LS P-F φ SCAT STN  
PLY CRU NO ODOR

DST#4 4940-5035  
30-45-45-60  
IF: STR BLOW BOB 1 MIN.  
GTS IN 10 MINS INITIAL  
FF: STR BLOW BOB 30 SEC.  
GA. 9.52 K MAX  
REC: 60' MHD = 100% M  
SIP: 240-236  
IFP: 112-97 FFP: 90-86  
MUD: CO CK  
VISC: 60 FLT: 9.2  
WT: 9.3 CHL: 6,200

30) FEW LT TAN SUGR DOLD W/P F φ  
W VSSLTGFD FT ODOR ON BREAK

35) FEW LT TAN FN: GR DOLD W/P F φ  
W VSSLTGFD, PLY CRU FT ODOR  
30 MIN: WH: OOL LT TAN FN: MD XLN  
LS & DOLD LS DOLD φ - NS  
PLY CRU LT ODOR? GAS?  
60 MIN: LS AA - NS INC CRU

50) LT CRM FN: MD-XLN LS P-F φ  
NS NO ODOR, PLY CRU

60) FEW LT TAN BUFF FN: GR SUGR  
DOLD P-F φ - NS NO ODOR

70) INC LT TAN: GR FN: XLN SUGR DOLD  
FAIR φ - NS, NO ODOR PLY CRU

80) LT TAN: BUFF FN: XLN DOLD P-F φ  
NS NO ODOR

90) LOTS YELL LT ORANGE SHARP Δ  
& LT CRM FN: MD-XLN LS - NS

00) FLOOD V LT YELL TAN FN: MD-XLN  
LS P-F φ - NS NO ODOR PLY CRU

10) FLOOD LT CRM - LT TAN FN: MD-XLN  
LS P-F φ - NS NO ODOR

REACHED RTD 1:45 PM 7-10-12  
PULLED 10 STD SHORT TRIP  
CONDITION HOLE 1 1/2 HRS.  
CAME OUT FOR E-LOGS.

VISC: 53  
WT: 9.3  
LCM: 2#



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

October 16, 2012

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

Re: ACO1  
API 15-057-20816-00-00  
Potosi-Simon 1  
SW/4 Sec.13-27S-24W  
Ford County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
John Niernberger