

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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 # 33711  
Name: B-C STEEL LLC  
Address 1: 209 N FRY  
Address 2: P.O. BOX 326  
City: YATES CENTER State: KS Zip: 66783 + \_\_\_\_\_  
Contact Person: BERT CARLSON  
Phone: (620) 625-2999  
CONTRACTOR: License # 33734  
Name: HAT DRILLING  
Wellsite Geologist: LEIGH RAYMOND  
Purchaser: NAT-GAS CRV

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  WSW  SWD  SLOW  
 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 #: \_\_\_\_\_  
9-13-2010 9/25/2010 9/26/2010  
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 1503524372-0000  
Spot Description: \_\_\_\_\_  
SW SE NE Sec. 19 Twp. 31 S. R. 8  East  West  
3,330 Feet from  North /  South Line of Section  
9,483 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: COWLEY  
Lease Name: SONTAG Well #: 19-2  
Field Name: RADCLIFFE NORTHEAST  
Producing Formation: CLEVELAND  
Elevation: Ground: 1394 Kelly Bushing: 1399  
Total Depth: 2811 Plug Back Total Depth: 2500  
Amount of Surface Pipe Set and Cemented at: 2500 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: 2500  
feet depth to: 465 w/ 165 sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: \_\_\_\_\_ ppm Fluid volume: 3000 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 #: \_\_\_\_\_

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**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Amelia DeVise  
Title: Agent Date: 5/19/2011

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
- - - - - AH1 - Dig - 6/1/11

Operator Name: B-C STEEL LLC Lease Name: SONTAG Well #: 19-2  
 Sec. 19 Twp. 31 S. R. 8  East  West County: COWLEY

**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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets)  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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No (If no, Submit Copy)	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum CLEVELAND 2265 -871
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List All E. Logs Run:  
**CEMENT BOND COMPLETION 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 1/4	8 5/8		465	CLASS A	215	RAQCL 3% GEL 2% FLOCCEL 1% %
LONGSTRING	6 3/4	4 1/2		2810	THICKSET	165	#5 KOLSEAL 1/2 PHENONSEAL

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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
17	3 1/8 SLICK TAG GUN	8000 LBS OF SAND BULLHEAD FRAC	2003-2308
5	3 1/8 SLICK TAG GUN	KCLSUB-STIMOIL-BREAKS ACID-INHIBITOR	2292-2296

TUBING RECORD: Size: <u>2 3/8</u> Set At: <u>2242.7</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>12-19-2010</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>1.5</u>	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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**CONSOLIDATED**  
Oil Well Services, LLC



**ENTERED**

TICKET NUMBER 29107

LOCATION Eureka

FOREMAN Tony Strickler

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

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

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
9-15-10	1152	Sontag 19-2				Cowley	
CUSTOMER R.C. Steel Gas LLC			TRUCK # DRIVER TRUCK # DRIVER <del>485</del> Alan 515 Chris <del>85</del> Scotty L				
MAILING ADDRESS 1432 Nighthawk Rd.							
CITY Water Center		STATE Ks					ZIP CODE 66783
Safety meaty →							

JOB TYPE 5/8" o' HOLE SIZE 12 1/4" HOLE DEPTH 472' CASING SIZE & WEIGHT 8 5/8" 27# Non  
 CASING DEPTH 465' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15# SLURRY VOL \_\_\_\_\_ WATER gal/sk 6.5° CEMENT LEFT in CASING 25'  
 DISPLACEMENT 280bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meaty. Rig upto 8 5/8" casing. Break Circulation w/ 108bl Fresh water. Mixed 215SKL Class A Cement w/ 3% Cacl<sub>2</sub>, 2% Gel, 1/4" Floccle @ 15°/gal. Yield 1.35. Displace w/ 280bl Fresh water. Shut casing in. Good Cement Returns to surface = 88bl Slurry to pit. Job Complete.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	725.00	725.00
5406	50	MILEAGE	3.65	182.50
11045	215 skt	Class A Cement	13.50	2902.50
1102	600 #	Cacl <sub>2</sub> 3%	.75	450.00
1118A	400 #	Gel 2%	.20	80.00
1107	55 #	Floccle 1/4"/sk	2.10	115.50
5407A	10.11 Ton	Ton-mileage	1.20	606.60
5502C	4hrs	808bl Vac Truck	100.00	400.00
1123	3000gal	City Water	14.90/m	44.70
			6.82	Sub Total
				5506.80
				SALES TAX
				244.30
				ESTIMATED TOTAL
				5751.10

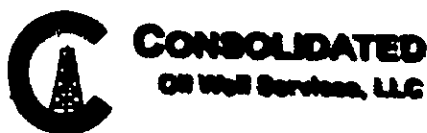
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Rev'n 3737

AUTHORIZATION [Signature] TITLE 236625 DATE \_\_\_\_\_

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

TICKET NUMBER 29060LOCATION Eureka KSFOREMAN Rick LedfordPO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676FIELD TICKET & TREATMENT REPORT  
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-25-10	1152	Santag 19-2				Cowley
CUSTOMER B.C. Steel Gas LLC			Safety meeting			
MAILING ADDRESS 1932 Nighthawk Rd.						
CITY Yates Center	STATE KS	ZIP CODE 66783				
TRUCK # DRIVER TRUCK # DRIVER						
			520	John JS		
			479	Allen B. 40		
			436	Ed ES		

JOB TYPE logstring 0 HOLE SIZE 6 7/8" HOLE DEPTH 2810' CASING SIZE & WEIGHT 4 1/2"  
 CASING DEPTH 2800' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 13.6" SLURRY VOL 51 bbl WATER gal/sk 9.0 CEMENT LEFT IN CASING 0'  
 DISPLACEMENT 40.5 bbl DISPLACEMENT PSI 900  PSI 1400 RATE \_\_\_\_\_

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 7 bbl fresh water. Mixed 165 lbs thickset cement w/ 5" Ketsol 1sk + 1/2" phoscon 1sk @ 13.6"/gal. Washout pump + lines, shut down, release plug. Displace w/ 40.5 bbl fresh water. Final pump pressure 900 PSI. Bump plug to 1400 PSI. wait 2 minutes. Release pressure, float held. Good circulation @ all times while cementing. Job complete. Rig down.

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	925.00	925.00
5406	60	MILEAGE	3.65	219.00
1126A	165 sks	thickset cement	17.00	2805.00
1110A	825"	5" Ketsol 1sk	.42	346.50
1107A	80"	1/2" phoscon 1sk	1.15	92.00
5407A	9.0"	ton mileage bulk tax		1653.04
5502C	4 hrs	80 bbl mix. tax	100.00	400.00
1123	3000 gals	city water	KCC WIC <u>15.47/1000</u>	44.70
4404	1	4 1/2" top rubber plug	45.00	45.00
4103	2	4 1/2" cement baskets	208.00	416.00
			Subtotal	5946.24
			SALES TAX	259.95
			ESTIMATED TOTAL	6201.19

Revin 3737

AUTHORIZATION Brent Ledford

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

290605

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



**CONSOLIDATED**  
Oil Well Services, LLC

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

TICKET NUMBER 50928

FIELD TICKET REF # \_\_\_\_\_

LOCATION Thayer

FOREMAN Bobby Burby

**TREATMENT REPORT  
FRAC & ACID**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-4-10		Sontag 19-2				

CUSTOMER  
Team Resources

MAILING ADDRESS

CITY STATE ZIP CODE

\* Safety Meeting

TRUCK#	DRIVER	TRUCK #	DRIVER
476	Josh	487T103	George
471	London		
458	Steve H		
424	Eric		
453T91	Charles	CAB	
455T95	Trampis		

**WELL DATA**

CASING SIZE 4 1/2 TOTAL DEPTH

CASING WEIGHT PLUG DEPTH

TUBING SIZE PACKER DEPTH

TUBING WEIGHT OPEN HOLE

PERFS & FORMATION (5)  
2288-29 (4) Cleveland  
2295-2504  
2300-2304 (1)

**TYPE OF TREATMENT**  
Acid bull head - frac

**CHEMICALS**  
Kelsub - StimOil - Biocide - Breaker  
Acid-inhibitor

STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
<u>PAID w/ FRAC 500</u>	<u>100</u>	<u>15-16</u>		<u>1</u>	<u>350-400</u>	<u>BREAKDOWN 850</u>
<u>20-40</u>		<u>15.5</u>		<u>.5-1.0</u>	<u>400</u>	<u>START PRESSURE</u>
<u>20-40</u>		<u>15.5</u>	<u>2,000</u>	<u>1.0-1.5</u>	<u>400</u>	<u>END PRESSURE</u>
<u>12-20</u>				<u>1.5</u>	<u>350</u>	<u>BALL OFF PRESS</u>
<u>12-20</u>				<u>1.0</u>	<u>350</u>	<u>ROCK SALT PRESS</u>
<u>12-20</u>				<u>2.0</u>	<u>300</u>	<u>ISIP 250</u>
<u>12-20</u>				<u>2.0</u>	<u>275</u>	<u>5 MIN</u>
<u>12-20</u>				<u>2.0</u>	<u>275</u>	<u>10 MIN</u>
<u>12-20</u>				<u>2.0</u>	<u>300</u>	<u>15 MIN</u>
<u>12-20</u>		<u>15.5</u>		<u>2.5</u>	<u>350</u>	<u>MIN RATE</u>
<u>FLUSH CASING</u>	<u>37</u>	<u>15.5</u>	<u>6,000</u>	<u>3.0</u>	<u>450</u>	<u>MAX RATE 16</u>
<u>OVERFLUSH</u>	<u>10</u>				<u>425</u>	<u>DISPLACEMENT 37.2</u>
<u>TOTAL 1365</u>	<u>355</u>		<u>TOTAL SAND 8,000 #</u>			

REMARKS: \* Safety meeting - procedure load 11 bbls casing @ 50 PSI break bullhead 150 gal - 15% HCL acid to perfs - taking on vacuum / ramp / time @ 12:30pm still pulling vacuum continue into frac pad blending 100" FLC 500 CTF in 90 bbls @ 100 TOTAL PAID heavy breaker for 30' gelwater location 10:30AM - 12:00PM

AUTHORIZATION Eric + Carl TITLE Manager DATE 10-4-10

Terms and Conditions are printed on reverse side.

287

B-C MANAGEMENT SERVICES CORP.  
200 NORTH FRY STREET  
PO BOX 326  
YATES CENTER, KS 66783 phone 620-626-2350 fax 620-626-6302

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GROUP JOB SHEET

DATE WORKED: Sept. 25 2010 S M T W T F S  
Please Circle One

DOZER / PULLING UNIT  
NEW CONSTRUCTION  
ROUSTABOUT

JOB LOCATION: Sontag 19-2

DESCRIPTION OF WORK:	Materials/Parts Used	Where did parts come from?	Quantity
<u>Spued Sept 13th Completion Sept 26th 2010</u>			
<u>(new) 2450' 9.5# 4 1/2" casing From Cates supply yard</u>			
<u>1 - Auto fill shoe</u>			
<u>3 - Baskets</u>			
<u>7 - Centralizers</u>			
<u>Cemented w/ 165 sx thick set + 5# Kdselper sx</u>			
<u>466' New 8 5/8" surface pipe from Cates supply</u>			
<u>Cemented w/ 215 sx Class A 3% cc. 2% gel 1/4" flo seal</u>			
<u>2 3/8 HANGING @ 2,242.7</u>			

Name	Time in	Less Lunch	Time Out	Total HRS	Employees Signature	Equip/Trk. #	Eq./Trk Hrs

Supervisors Signature: \_\_\_\_\_

Date: \_\_\_\_\_

**B-C MANAGEMENT SERVICES CORP.**  
 209 NORTH FRY STREET  
 PO BOX 326  
 YATES CENTER, KS 68783 phone 620-626-2999 fax 620-626-3302

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GROUP JOB SHEET

DATE WORKED: 9-30-10

S M T W T F S  
 Please Circle One

DOZER / PULLING UNIT  
 NEW CONSTRUCTION  
 ROUSTABOUT

JOB LOCATION: Sontag 19-2

Cambridge

DESCRIPTION OF WORK:

31.50	31.60	31.60	29.70	31.70	31.60
31.60	31.60	31.20	32.50	31.30	31.50
31.30	31.60	31.60	31.70	31.40	31.70
31.40	31.30	30.40	31.70	31.60	31.60
31.30	31.40	31.60	31.70	31.30	31.70
31.40	31.70	31.70	31.60	31.70	30.60
31.40	31.70	31.90	31.70	31.70	31.60
31.20	31.20	31.60	31.0	31.70	31.70
31.60	31.60	31.60	31.40	30.50	31.30
31.60	31.60	31.60	31.30	31.10	31.60
30.10	31.30	753.7	31.30	31.70	31.30
31.40	31.60		31.70	754.9	30.50
31.30	31.60			31.40	753.80

Materials/Parts Used

Where did parts come from?

Quantity

2242.7  
 hang

Name	Time In	Less Lunch	Time Out	Total HRS	Employees Signature	Equip/Trk. #	Eq./Trk Hrs

Supervisors Signature: \_\_\_\_\_

Date: \_\_\_\_\_

1-2-10-6

2-2-10-3

B-C STEEL LLC

Sontag #19 - 2  
2380 ft FNL & 4884 ft FWL  
19 - 31s - 8E, Cowley Co., KS  
API #15 - 035 - 24372  
Hat Drilling Company  
Mike Thompson, Driller/Toolpusher  
Com. 9/20/10, Comp. 9/24/10  
GL 1394, KB 1399

Geologist on Loc @ 1003 ft

Formation Tops:

Iatan	1512	(-127)
Stalnaker	1541	(-147)
Iola	1941	(-547)
Layton B	1975	(-581)
Upper Lansing	2082	(-688)
Lower Lansing	2112	(-718)
Swope	2152	(-758)
Hertha	2185	(-791)
Cleveland	2265	(-871)
Ft. Scott	2456	(-1062)
Bartlesville	2652	(-1258)
Mississippian	2779	(-1385)

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1957 – 2007 Layton Sand. Due to lost circulation at 1978 and 1996 there was no sand in the samples until 2010. The bottom of the sand is clean, medium grained, sub-angular, well sorted, and friable. Good pinpoint porosity. Several droplets of live very light brown oil and some oil rainbows, with questionable faint odor, no stain or gas, with abundant bright and dull fluorescence with good cut. I believe this will produce oil and gas with some water.

2094 – 2096 Lansing. Samples undifferentiated. Unable to accurately describe samples due to drilling conditions. Appears it may be productive on the logs. Perforate before abandoning well.

2114 – 2126 Lower Lansing. As above.

2150 – 2159 Swope. As above.

2189 – 2194 Hertha. Limestone, brown and tan, fossiliferous, some very soft. Fair micro and pinpoint porosity. Very good odor, some gas bubbles and oil rainbows, and pieces with light brown oil stain. Scattered bright and dull fluorescence with weak cut. Appears it may be productive on the log.

2230 – 2236 Pleasanton. Limestone, dark gray and white, dense to slightly crystalline, hard to slightly soft. No visible porosity. Flash odor, no show oil or gas, rare piece very bright fluorescence with weak cut. Appears it may be productive on the log. Perforate before abandoning well.

2282 – 2293 Cleveland Sand. Sub-angular, sandstone, medium grained, well sorted, hard to soft and friable, sand appears to be well cemented but is actually mud invasion as it turns to clean sand with repeated washings. Fair pinpoint porosity, hairline fractures in the sand clusters. Some light brown stain and some gas bubbles, no odor or show of free oil. Occasional dull fluorescence (no cut) and rare bright fluorescence (weak cut). Looks shaley on the logs. This interval may make gas and possibly oil and gas. Perforate before abandoning well.

2295 – 2316 Cleveland Sand. Sandstone, abundant sand grains and large sand clusters, medium to large grained, sub-angular to angular, well sorted, clean (with some mud invasion), friable. Good pinpoint porosity. Fair amount oil rainbows and some spots live light brown oil, very good odor, and rare gas bubbles, abundant dull to bright fluorescence, good cut. This looks very good on the logs, and will make oil with some gas.

2334 – 2336 Pawnee. Limestone, white, dense to slightly crystalline, soft to hard. Some very good visible pinpoint and vugular porosity. Fair to good show live light brown oil in samples, scattered bright fluorescence with rare good cut. No gas. Thin, but perforate before abandoning well.

2428 – 2436 Altamont. Limestone, white and tan, crystalline and fossiliferous. Very good pinpoint and fractured porosity. Rare life light brown oil and stain in pores and fractures, faint odor, no show gas, scattered bright fluorescence with fair cut. Perforate before abandoning well.

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2461 – 2469 Ft. Scott. Limestone, white finely crystalline limestone, mostly hard to occasionally moderately soft. Good inter-crystalline porosity. Abundant brown staining and gas bubbles, abundant dull and occasional bright fluorescence, with fair cut, no odor and no show free oil. Appears to be too tight to produce.

2656 – 2661 Upper Bartlesville. Sandstone. Very well cemented fine grained angular sandstone. No porosity. No indication of hydrocarbons.

2674 – 2681 Lower Bartlesville. Not developed. Sandy (Very fine grained, angular) gray shale. No indication of hydrocarbons.

2758 – 2761 and 2764 – 2767 Coal Stringers. Coal. Hard, black, with abundant gas bubbles. No economic potential.

2767 – 2776 Burges. Sandstone, fine to very fine grained, friable, angular, well sorted, well cemented. Poor pinpoint porosity. Some fair light and dark brown stain, abundant gas bubbles, no odor, no free oil, scattered bright fluorescence with poor cut. The log here looks shaly and tight. I do not believe this is worth perforating.

2779 – 2811 Mississippian. Limestone, white to light tan, dense to mostly crystalline and finely crystalline, hard. No visible porosity. Rare gas stain, no odor or show of free oil, abundant dull fluorescence with no cut. No commercial oil and gas from this.

Pipe was set through the Pawnee and cemented up through the Layton.

Leigh Raymond

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18 b  
OKLAHOMA  
1955

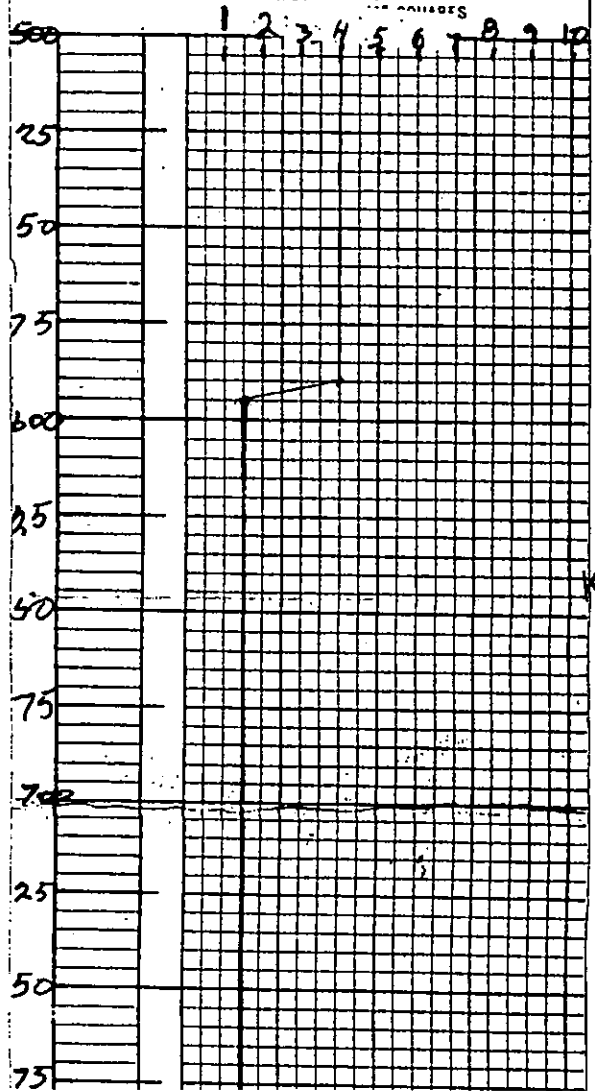
STATE <b>Ks</b>		COMPANY <b>BoC Steel</b>	
COUNTY <b>Cowley</b>	FARM <b>Scotts</b>	WELL NO. <b>7</b>	
BLOCK	SURVEY	<b>2380' FOL</b>	
SEC.		<b>4884' FOL</b>	
T.	R.	TOTAL DEPTH <b>2811</b>	
		CONTRACTOR <b>H A + D / G</b>	
		COMMENCED <b>9/20/10</b>	
		COMPLETED <b>9/24/10</b>	
ALTIMETER <b>1400 KB</b>		REMARKS	
PRODUCTION			

CASING RECORD		
<b>469'</b>	<b>8</b>	<b>5/8ths</b>

SHOT QUARTS BETWEEN

TIME RATE SCALE: 1/10" - MINUTES

**KCS/2811 450** TULSA, OKLAHOMA 74101 PRINTED IN U.S.A.



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S. B.  
WICHITA  
KANSAS

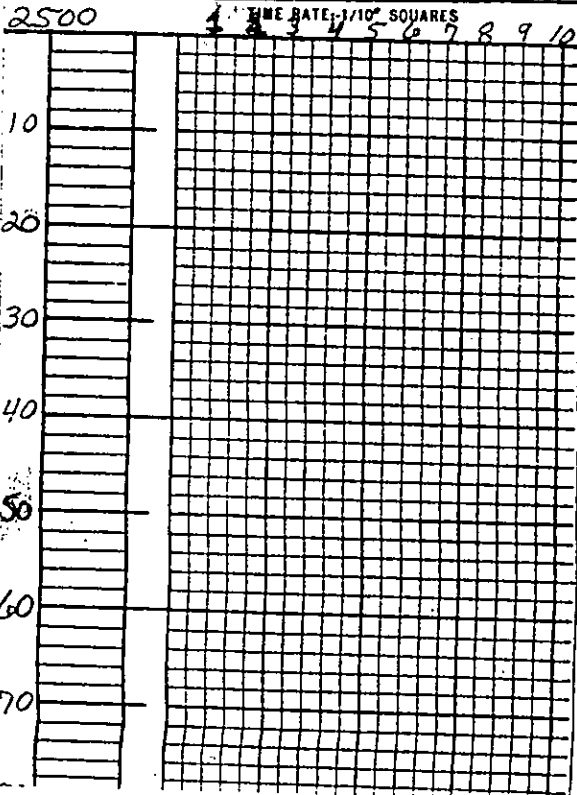
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COUNTY	FARM	WELL NO.	
BLOCK	SURVEY		
SEC.			
T.	R.	TOTAL DEPTH	
		CONTRACTOR	
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		COMPLETED	
ALTITUDE		REMARKS	
PRODUCTION			

CASING RECORD		

SHOT                      QUARTS                      BETWEEN

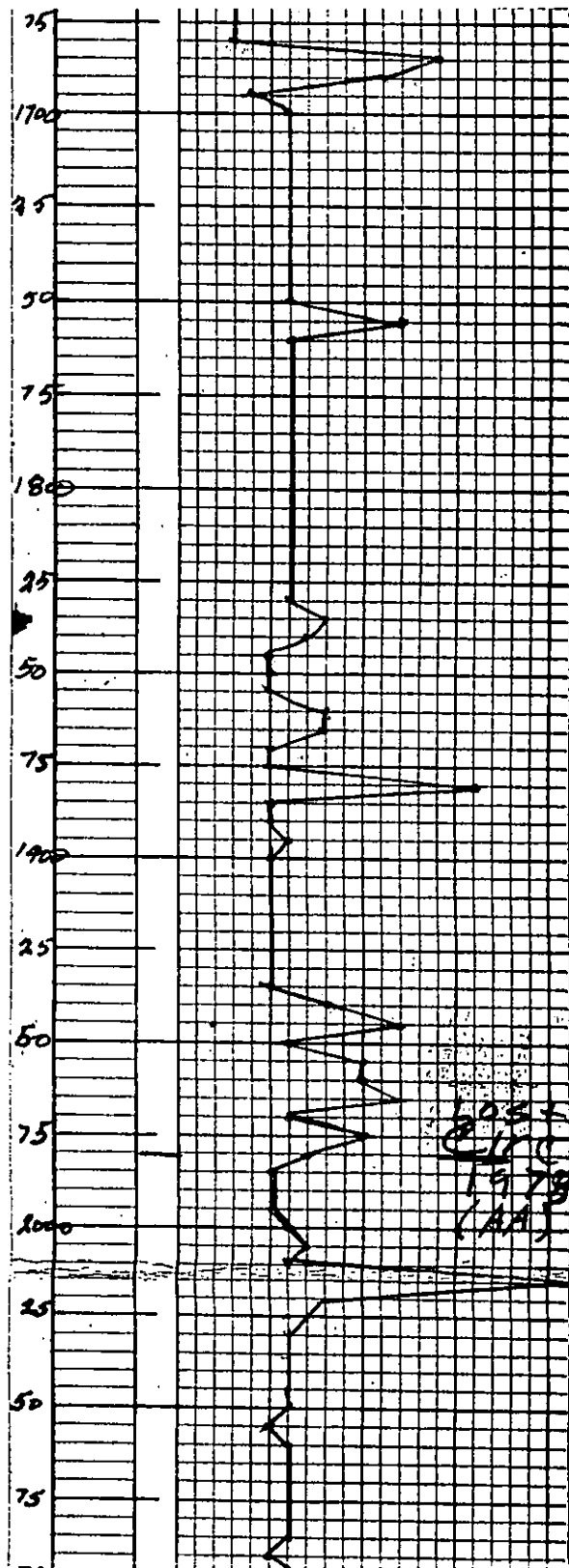
TIME RATE SCALE: 1/10" -                      MINUTES

~~450~~ 450 TULSA, OKLAHOMA 74101 PRINTED IN U.S.A.



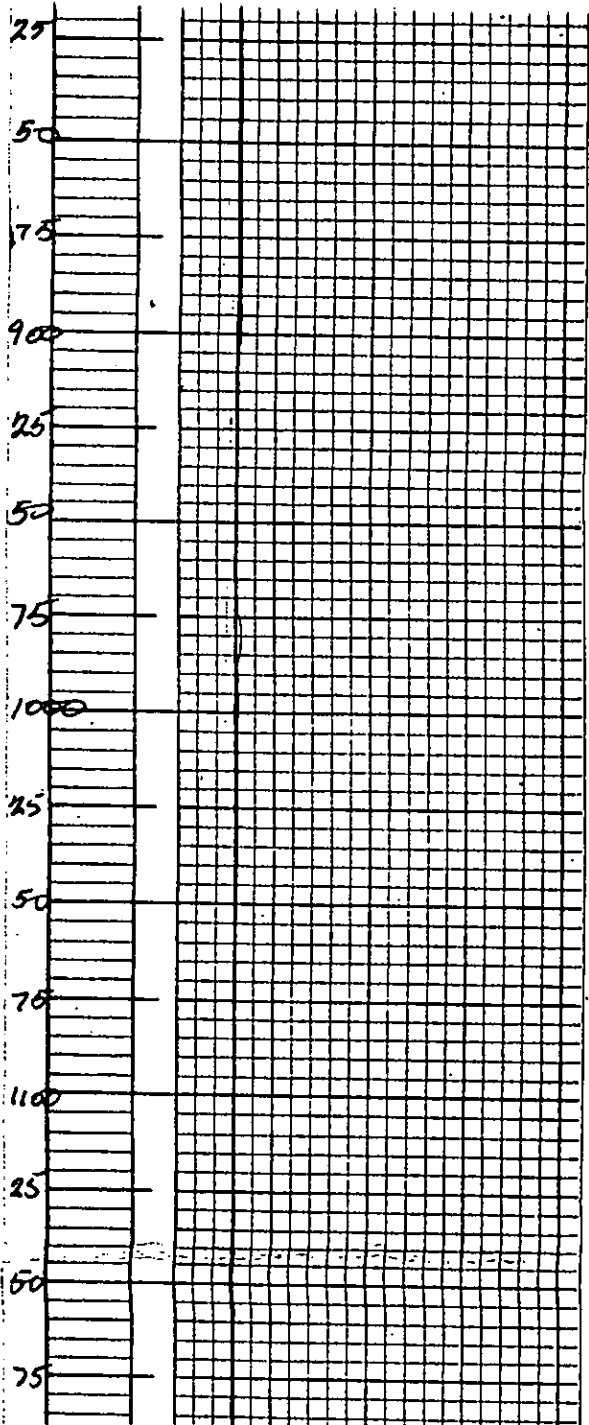
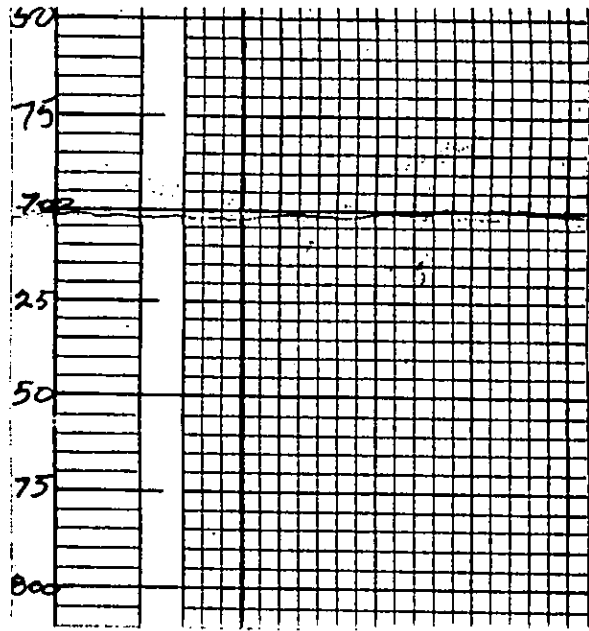
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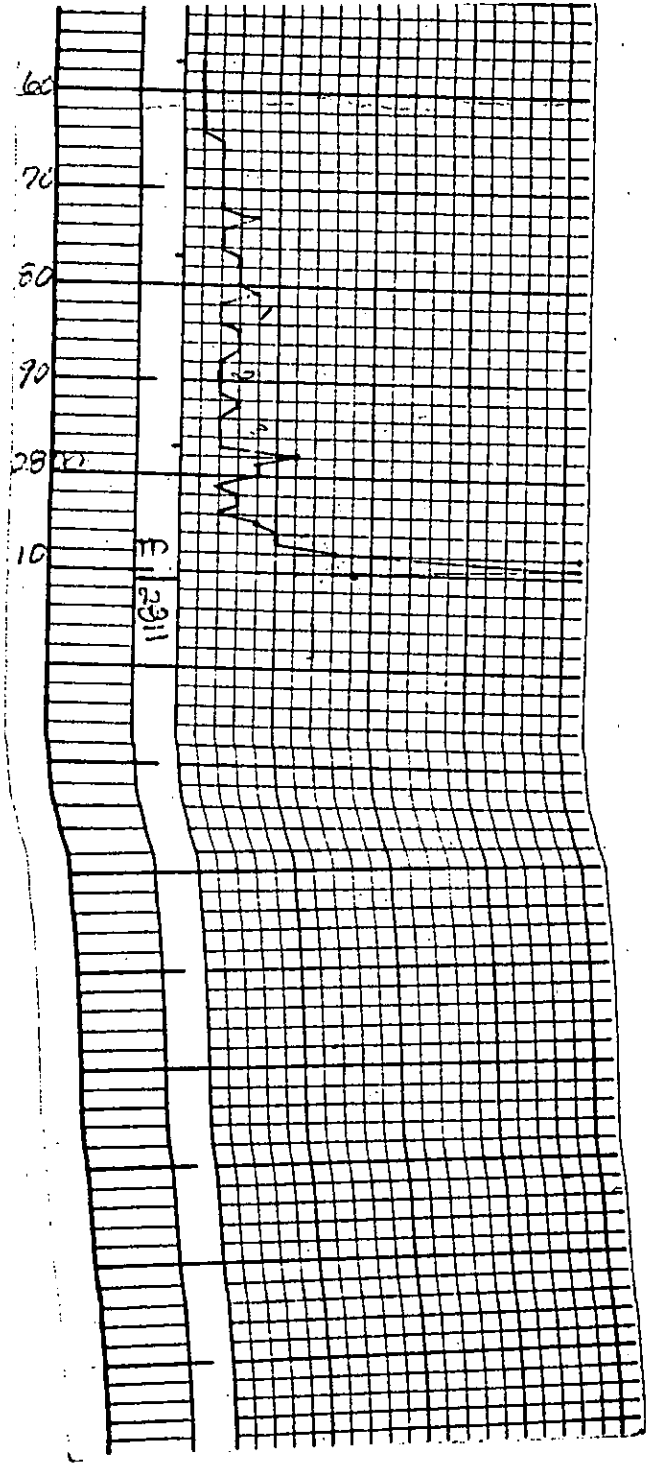


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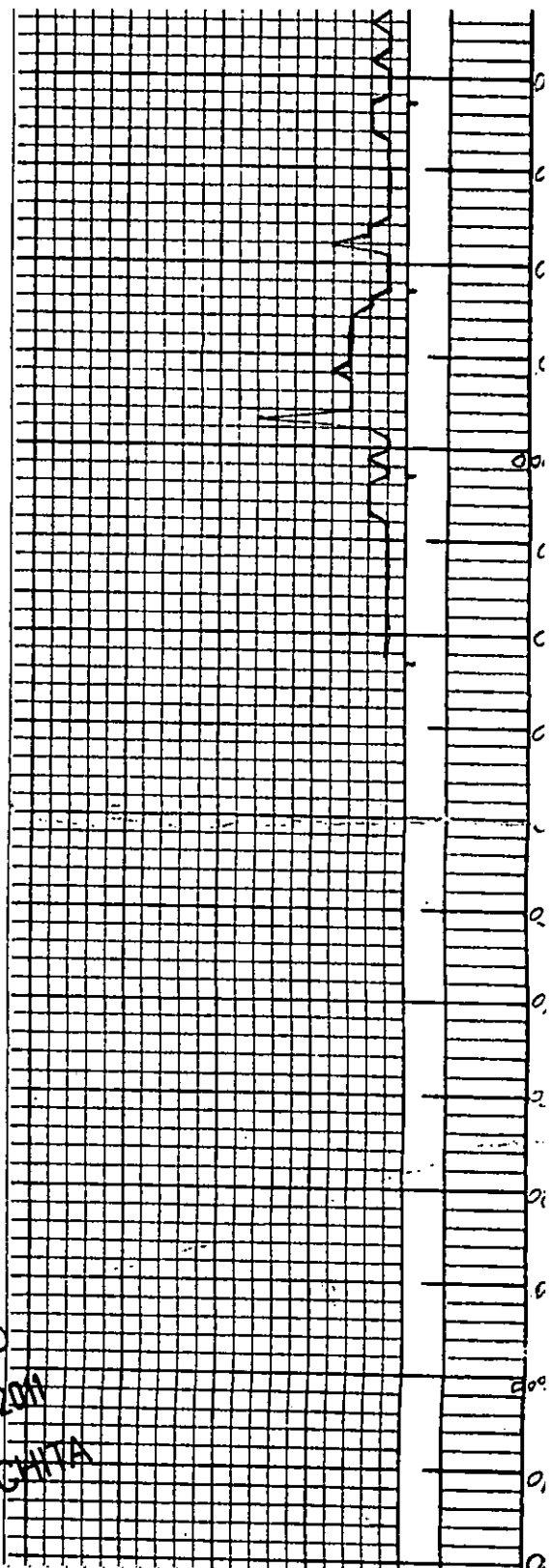


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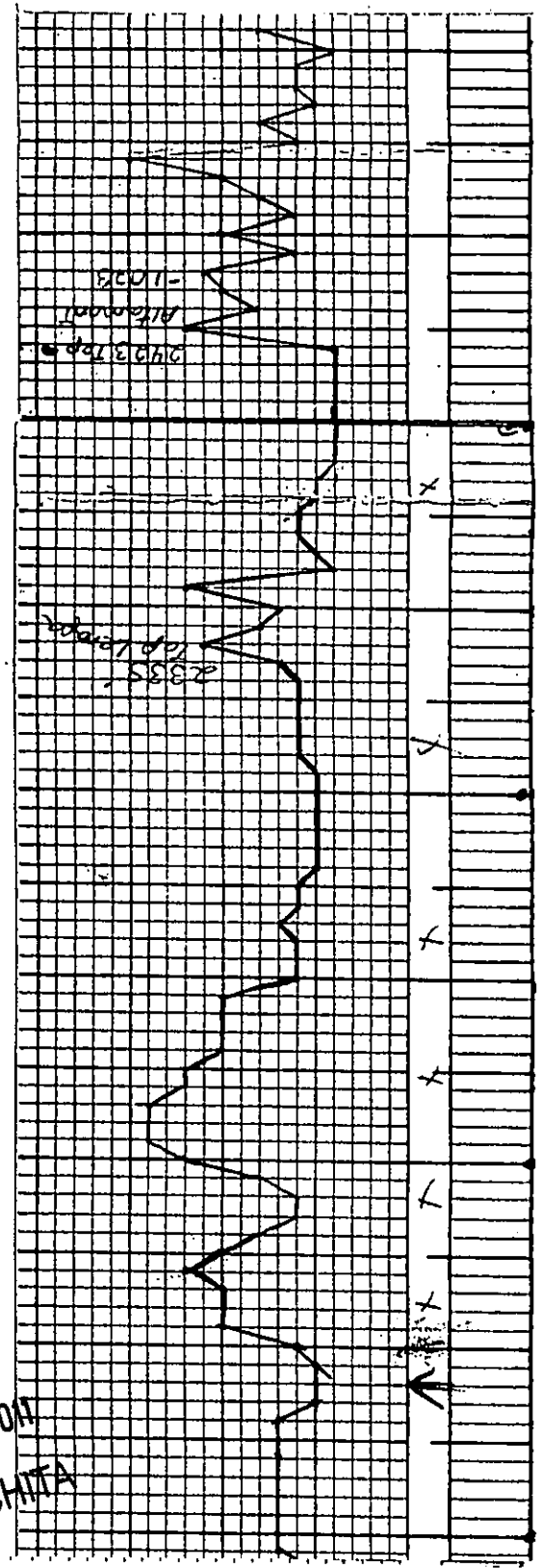
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