

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM

WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

12/13/08
Form ACO-1
September 1999
Form Must Be Typed

Operator: License # 33886
Name: G3 Operating, LLC
Address: 475 Seventeenth Street, Suite 1210
City/State/Zip: Denver, CO 80202
Purchaser: SemCrude, LP
Operator Contact Person: Tim Muniz
Phone: (303) 297-2028 ext. 105
Contractor: Name: Murfin Drilling Company, Inc.
License: 5144
Wellsite Geologist: Peter Debenham

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, 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./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>July 25, 2007</u>	<u>July 31, 2007</u>	<u>October 6, 2007</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 039-20994 -60-00
County: Decatur
NE SE NE Sec. 29 Twp. 1 S. R. 26 East West
1546 feet from S / N (circle one) Line of Section
703 feet from E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Huff Well #: 29-8
Field Name: Lester
Producing Formation: Lansing
Elevation: Ground: 2531' Kelly Bushing: 2536'
Total Depth: 3670' Plug Back Total Depth: 3633'
Amount of Surface Pipe Set and Cemented at 210 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 1996' Feet
If Alternate II completion, cement circulated from 1996
feet depth to 730' w/ 350 sx cmt.

Drilling Fluid Management Plan AH II NJ 6-30-09
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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.

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: J. Sarah M. Lowe
Title: Agent Date: December 12, 2007

Subscribed and sworn to before me this 13th day of December,
2007.
Notary Public: J. Sarah M. Lowe

J. SARAH M. LOWE
NOTARY PUBLIC
STATE OF COLORADO
My Commission Expires 5/17/2011

KCC Office Use ONLY

Letter of Confidentiality Received
 If Denied, Yes Date: _____ **RECEIVED**
 Wireline Log Received **KANSAS CORPORATION COMMISSION**
 Geologist Report Received
 UIC Distribution

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CONSERVATION DIVISION
WICHITA, KS

DEC 13 2007

Operator Name: G3 Operating, LLC Lease Name: Huff Well #: 29-8
 Sec. 29 Twp. 1 S. R. 26 East West County: Decatur **KCC**

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction, Dual Compensated Porosity, Microlog, Bore Hole Compensated Sonic, Cement Bond	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Stone Corral</td> <td>1984'</td> <td>+552</td> </tr> <tr> <td>Heebner</td> <td>3267'</td> <td>-731</td> </tr> <tr> <td>Toronto</td> <td>3300'</td> <td>-764</td> </tr> <tr> <td>Lansing</td> <td>3310'</td> <td>-774</td> </tr> <tr> <td>Base Lansing</td> <td>3513'</td> <td>-977</td> </tr> <tr> <td>Marmaton</td> <td>3557'</td> <td>-1021</td> </tr> <tr> <td>Granite Wash</td> <td>3616'</td> <td>-1080</td> </tr> </table>	Name	Top	Datum	Stone Corral	1984'	+552	Heebner	3267'	-731	Toronto	3300'	-764	Lansing	3310'	-774	Base Lansing	3513'	-977	Marmaton	3557'	-1021	Granite Wash	3616'	-1080
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Marmaton	3557'	-1021																							
Granite Wash	3616'	-1080																							

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"	23	210'	Regular	160	3 % CaCl, 2% gel
Production	7 7/8"	4 1/2"	10.5	3658'	ASC	175	10 % salt, 2 % gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	1996'	Lite	350	1/4 #/sk Flo-Seal

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
2	3348' - 3351' and 3335' - 3339'	500 gal. 15% MCA, 1000gal. 15% NE SGA w/ 5% Musol	3335'-3351'
		1500 gal. 15% Flomaster w/ 5% MAS	

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TUBING RECORD		Size	Set At	Packer At	Liner Run	CONSERVATION DIVISION WICHITA, KS
		2 3/8"	3387'		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumerd Production, SWD or Enhr. October 6, 2007			Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i>			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	
	8	0	12		35	

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled Other *(Specify)*

Production Interval

ALLIED CEMENTING CO., INC.

28648

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

WELL FILE

SERVICE POINT:

Oakley

DATE <u>8-27-07</u>	SEC. <u>29</u>	TWP. <u>1</u>	RANGE <u>26W</u>	CALLED OUT	ON LOCATION <u>10:30 Am</u>	JOB START <u>12:00 pm</u>	JOB FINISH <u>1:30 pm</u>
LEASE <u>Huff</u>	WELL # <u>29-8</u>	LOCATION <u>Lyle 1/2s Winto</u>	COUNTY <u>Decatur</u>	STATE <u>KS</u>	CONFIDENTIAL		
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

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CONTRACTOR Murfin
 TYPE OF JOB Port collar
 HOLE SIZE _____ T.D. _____
 CASING SIZE 4 1/2" DEPTH _____
 TUBING SIZE 2 3/8 DEPTH 1998'
 DRILL PIPE _____ DEPTH _____
 TOOL Port collar DEPTH 1998'
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER Same

CEMENT	KCC
AMOUNT ORDERED	<u>550 sks Lite</u>
<u>1/4# Flo-seal</u>	
<u>10 gel 2 sand on side</u>	
<u>used 350 sks</u>	
COMMON	@ _____
POZMIX	@ _____
GEL <u>10 sks</u>	@ <u>16.65</u> <u>166.50</u>
CHLORIDE	@ _____
ASC	@ _____
<u>Lite 350 sks</u>	@ <u>11.25</u> <u>3937.50</u>
<u>Flo-seal 89#</u>	@ <u>2.00</u> <u>174.00</u>
<u>2 sks sand</u>	@ <u>10.50</u> <u>21.00</u>
HANDLING <u>592 sks</u>	@ <u>1.90</u> <u>1124.80</u>
MILEAGE <u>94 sk/mile</u>	<u>4741.92</u>
TOTAL <u>10165.22</u>	

EQUIPMENT

PUMP TRUCK # 386-281 CEMENTER Andrew
 HELPER Alan
 BULK TRUCK # 399 DRIVER Jerry
 BULK TRUCK # 218 DRIVER Darrin

REMARKS:

Spot sand at 2675' pull to 1998
Spot 5 sks gel pressure tool to 1000#
Open tool take Injection Rate @ 300
Min 500# pump 5 sks gel followed by
200 sks cement shut down no blow
Mix 150 sks no blow Disp
5 sks Reverse shut tool Pressure to
1000# Run 5 sks Reverse Clean
 Thank you

SERVICE

DEPTH OF JOB	<u>1998'</u>	
PUMP TRUCK CHARGE		<u>955.00</u>
EXTRA FOOTAGE	@ _____	
MILEAGE <u>89 miles</u>	@ <u>6.00</u>	<u>534.00</u>
MANIFOLD	@ _____	
TOTAL <u>1489.00</u>		

CHARGE TO: G-3
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

RECEIVED
 KANSAS CORPORATION COMMISSION @ _____
 DEC 19 2007 @ _____
 CONSERVATION DIVISION @ _____
 WICHITA, KS @ _____
 TOTAL _____

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE [Signature]

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME _____

ALLIED CEMENTING CO., INC. 25970

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

SERVICE POINT: Oakley

DATE <u>8-1-07</u>	SEC. <u>29</u>	TWP. <u>1</u>	RANGE <u>26 W</u>	CALLED OUT	ON LOCATION <u>11:00 am</u>	JOB START <u>12:45 pm</u>	JOB FINISH <u>1:15 pm</u>
LEASE <u>HUFF</u>	WELL # <u>29-8</u>	LOCATION <u>Lyle Church 2W-184S</u>	COUNTY <u>Decatur</u>	STATE <u>Kan</u>			
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR Murphy Dals Co #3
 TYPE OF JOB Production
 HOLE SIZE 7 7/8" T.D. 3670'
 CASING SIZE 4 1/2" DEPTH 3658'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL Port Collar DEPTH 2000'
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 1682'
 CEMENT LEFT IN CSG. 1682'
 PERFS.
 DISPLACEMENT 58- BBL

OWNER Same
 CEMENT AMOUNT ORDERED 175 SKS ASC, 108 Salt
28 Gel, 500 gal WFR-2
 COMMON @
 POZMIX @
 GEL 3 SKS @ 16.5 49.95
 CHLORIDE @
 ASC 175 SKS @ 14.90 2607.50
Salt 17 SKS @ 19.20 326.40
WFR-2 500 gal @ 1.20 500.00
 HANDLING 214 SKS @ 1.90 406.60
 MILEAGE 90 per sk/mile 1714.14
 TOTAL 5,604.59

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EQUIPMENT
 PUMP TRUCK CEMENTER Bob - Walt
 # 422 HELPER Alvin
 BULK TRUCK
 # 377 DRIVER Rex
 BULK TRUCK
 # DRIVER

REMARKS:
Put 10 SKS in Bbl
" 10 SKS in mix
Pump 5 BBL water ahead
Pump 500 gal WFR-2
Mix 150 SKS ASC, Clear Pump & Lines
Displace 58 BBL @ 6.50'
Handy Plus 2/400#
Flac-Hold
Thank You

SERVICE
 DEPTH OF JOB
 PUMP TRUCK CHARGE 1610.00
 EXTRA FOOTAGE @
 MILEAGE 89 miles @ 6.00 534.00
 MANIFOLD @
Head rental @ 100.00
rotating @ 100.00
 TOTAL 2,344.00

CHARGE TO: G-3 Operating
 STREET 495 17th St. Suite 12151
 CITY Denver STATE Colo ZIP 80202

PLUG & FLOAT EQUIPMENT
4 1/2
1- Guide shoe @ 150.00
1- Latch down Plug Assy @ 360.00
2- Turbo-Centralizers @ 60.00 480.00
1- Basket @ 150.00
1- Port Collar @ 1,600.00
 TOTAL 2,740.00

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS
 PRINTED NAME _____

SIGNATURE [Signature]

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 WICHITA, KS

ALLIED CEMENTING CO., INC.

28677

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

SERVICE POINT: Dahlia, KS

DATE <u>7-25-07</u>	SEC. <u>29</u>	TWP. <u>15</u>	RANGE <u>26W</u>	CALLED OUT	ON LOCATION <u>9:00pm</u>	JOB START <u>9:00pm</u>	JOB FINISH <u>6:00pm</u>
LEASE <u>Hoff</u>	WELL# <u>29-8</u>	LOCATION <u>hyle Church 2w</u>			COUNTY <u>Dickinson</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)				1 1/4" - W/W			

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CONTRACTOR Murphy Digs #3

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 210'

CASING SIZE 8 5/8 DEPTH 210'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15'

PERFS. _____

DISPLACEMENT 12.4 BBLs

OWNER same

CEMENT KCC

AMOUNT ORDERED 150 ccm

3% cc 2% gel

COMMON	<u>150</u>	@ <u>12⁶⁰</u>	<u>1890⁰⁰</u>
POZMIX		@	
GEL	<u>3</u>	@ <u>16⁶⁵</u>	<u>49⁹⁵</u>
CHLORIDE	<u>5</u>	@ <u>46⁶⁰</u>	<u>233⁰⁰</u>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER Tuzzy

417 HELPER Kelly

BULK TRUCK DRIVER Terry R.

218

BULK TRUCK DRIVER _____

REMARKS:

Cement did circulate

Plug down @ 6:00pm

THANKS Tuzzy & crew

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HANDLING	<u>158</u>	@ <u>1⁹⁰</u>	<u>300⁹⁰</u>
MILEAGE	<u>109 x 5K</u>	@	<u>534⁰⁰</u>
TOTAL			<u>3738⁹⁰</u>

SERVICE

DEPTH OF JOB	<u>210'</u>		
PUMP TRUCK CHARGE			<u>815⁰⁰</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>89</u>	@ <u>6⁰⁰</u>	<u>534⁰⁰</u>
MANIFOLD + head		@	<u>100⁰⁰</u>
TOTAL			<u>1449⁰⁰</u>

PLUG & FLOAT EQUIPMENT

<u>1.8 5/8 plus</u>	@ <u>60⁰⁰</u>	
	@	
	@	
	@	
	@	
TOTAL		<u>60⁰⁰</u>

TAX _____

TOTAL CHARGE _____

DISCOUNT _____ IF PAID IN 30 DAYS

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE Kath Van Pelt

PRINTED NAME _____

G3 Operating, LLC
Huff No. 29-8, Lester Field
Section 29, T1S, R26W
Decatur County, Kansas
July, 2007

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Well Summary

The G3 Operating, LLC Huff No. 29-8 was drilled as development well in the Lester Field to a total depth of 3670' in Granite Wash without any major problems. Minor lost circulation and slow returns occurred at 1147', 1210 and 2640' and necessitated running a 2 lbs/bbl LCM mud system.

Formation tops ran 9' and 4' high on the Toronto and Lansing, relative to the Abercrombie, Kelly "C" No. 1 - 40 acres to the SW. The Pallnow Zone and Lansing Lower B came in 5' and 3' high.

Excellent hydrocarbon shows were documented throughout the Lansing. The Lansing A consists of a Limestone - Light to medium brown, biomicrite, microcrystalline, microsucrosic to sucrosic, brittle, clean, very fossiliferous and oolitic with moldic and intergranular porosity, intercrystalline porosity, medium mottle brown to even brown matrix oil staining, abundant live oil, orangegold hydrocarbon fluorescence, excellent streaming cut. A 40 Unit gas increase occurred on the hotwire. This interval was drillstem tested(3304'-3325') and recovered 300' of water and slightly mud cut water with a trace of oil specs.

The Pollnow Zone consists of a Limestone - Medium to light mottled brown, microsucrosic to sucrosic, clean, subchalky in part, brittle, very fossiliferous, fair intercrystalline porosity, occasional vuggy and moldic porosity, good even brown matrix oil staining and live oil, orangegold hydrocarbon fluorescence, excellent streaming cut, slight odor, with heavy black dead oil stain. A 98 Unit gas kick occurred. Attempts to isolate this zone with DST No. 3(3330'-3341') resulted in a packer failure. DST No. 4(3318'-3341') recovered 2' of free oil and 238' of slightly mud cut water. This interval also included part of the Lower Lansing A, consequently the water recovery.

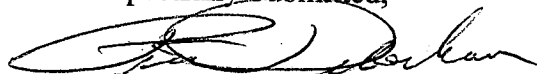
The Lansing F(3472'-3482') consists of a Biomircrite, mottled brown, brittle, very fossiliferous with moldic and interparticle porosity, good brown oil staining and traces of live oil when crushed, good fluorescence and cut, slight oil odor. A 110 Unit gas increase occurred. This interval tested tight (3458'-3483') and recovered 2' of free oil and 3' of slightly oil cut mud.

The Lansing Lower B(3348'-3354') consists of a Limestone - Light mottled brown to gray, biomicrite, microcrystalline, microsucrosic in part, occasionally very siliceous and tight, trace moldic and intercrystalline porosity, spotty brown oil stain and live oil, dark goldbrown hydrocarbon fluorescence and excellent streaming cut, slight odor. A 25 Unit gas increase was documented. This interval was straddle tested after logs(3335'-3354') and recovered 272' of oil(26 API@70 deg.) and 393' of oil cut mud and with good flowing and excellent shut in pressures(1102 PSI, FSI 1079 PSI).

4 1/2" production casing was run on the G3 Operating, LLC, Huff No. 29-8 on 8/1/07 for Lansing Lower B oil production.

Appreciation to Murfin Rig No. 3 hands for there efficient manor of operation during the drilling of this test.

Respectfully Submitted,



Peter Debenham

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WICHITA, KS

WELL DATA

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Operator: G3 Operating, LLC: 475 17th St., Suite 1210, Denver, CO 80202
Geologist Daryl Stewart, Land Jim Glenn

Well: Huff No. 29-8, Lester Field

Prospect Geologist: Richad J. Hall – Golden, CO

Location: 1546' FNL & 703' FEL, Sec. 29, T1S, R26W, Decatur Co., Kansas – 13 miles
NW of Norcatour

API No.: 039-20994-00

Elevation: Ground Level 2531', Kelly Bushing 2536'

Contractor: Murfin Drilling Rig No. 3, Toolpusher Keith VanPelt, Drillers: Charlie VanPelt,
Roy VanPelt, Dwaine Dickinson, Klint Farr, Type: Double stand, double
jackknife

Spud Date: 7/25/07

Total Depth: 7/31/07, Driller 3670', Logger 3670', Granite Wash

Casing Program: 5 joints of 8 5/8" set at 210' & cemented with 160 sack Common(3%cc, 2%
gel). 4 1/2" production casing

Mud Program: Morgan Mud, Dave Lines – McCook, NE, Type: Chemical Gel/LCM mud up
2950'.

Wellsite Consultant: Peter Debenham, Petrolific Consulting Services. P. O. Box 350, Drake, CO,
80515, 720/220-4860. petrolific@gmail.com.

Drillstem Testing: Trilobite Testing, Engineer Shane McBride, DST No. 1(3266'-3325') – M.R.,
DST No. 2(3304'-3325'), DST No. 3(3330'-3341') – M.R., DST No. 4
(3318'-3341'), DST No. 5(3458'-3483'), DST No. 6(3335'-3354').

Samples: 20' to 3000', 10' to TD. One set dry cut saved.

Electric Logs: Log-Tech, engineer Jason Wellbrock – 1) CNL/CDL, 2) MEL/BHCS

Status: 4 1/2" production casing run 8/1/07 for Lansing Lower B.

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**CONSERVATION DIVISION
WICHITA, KS**

WELL CHRONOLOGY

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<u>6AM</u> <u>DATE</u>	<u>DEPTH</u>	<u>FOOTAGE</u>	<u>RIG ACTIVITY</u>
7/25	210'	210'	Load out rig and move to location and rig up rotary tools. Mix spud mud. Drill rathole and mousehole. Spud in 12 1/4" surface hole and drill to 210' and circulate. Drop survey(.21 deg.) and trip. Run 5 joints of 8 5/8" set to 210' and cement(3% cc, 2% gel). Wait on cement.
7/26	1800'	1590'	Wait on cement. Nipple up. Drill plug and cement. Set in sample box. Drill to 1800'. Lost circulation at 1147' and 1210'. Mix mud and LCM.
7/27	2870'	1070'	Run survey(1/4 deg.). Jet pits and replace Totco line. Slow returns at 2640' - mix mud and LCM.
7/28	3325'	455'	Displaced mud system at 2950'. Drill to 3325' and circulate for samples. Short trip 28 stands and circulate. Drop survey(1/4 deg.) and strap out(no depth correction) for DST No.1(3266'-3325'), Lansing A - misrun, packer failure. Trip out and dump fluid, remake tool and trip in for DST No.2(3304'-3325').
7/29	3341'	16'	Run test and trip out and break down tool. Trip in, circulate hole clean and drill to 3341' and circulate. Trip for DST No.3(3330'-3341'), Pollnow Zone - misrun. Trip out, dump mud, remake up tool and trip in and run DST No.4(3318'-3341'). Trip out, break down tool and trip in.
7/30	3525'	184'	Trip in and circulate and drill to 3483'. Circulate for samples at 3362', 3393' and 3483'. Trip for DST No.5(3458'-3483'), Lansing F and run test. Trip tool, trip in and drill to 3525' and circulate for samples.
7/31	3670'TD	145'	Drill to 3670'TD and circulate. Short trip 10 stands and circulate. Trip for logs and run elogs. Make up test tool for DST No.6(3335'-3354'), Pollnow Zone & Lansing Lower B and Run test.
8/1	TD		Pull and load out tool. Trip in and circulate. Trip out laying down and run and cement 4 1/2" production casing. Rig down.

MUD PROPERTIES

<u>DATE</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>pH</u>	<u>WL</u>	<u>CL</u>	<u>LCM %</u>
7/26	1475'	water							
7/27	2500'	water							
7/28	3135'	8.7	50	16	16	11.5	7.2	600	2
7/29	3325'	8.8	50	15	16	11.5	6.8	700	1.5
7/30	3421'	9.1	52	17	18	11.0	6.4	1100	2
7/31	3670'	9.1	69	22	24	11.0	6.4	1500	3

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BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	HTC	RR	12 1/4"	210	210	1 3/4
2	SM	FHI20	7 7/8"	3670'	3460'	67 3/4
Total Rotating Hours:						69 1/2
Average:						52.8 Ft/hr

DIRECTIONAL SURVEYS – degrees

210' .32, 1022' 1.21, 1609' .98, 2038' .24, 3329' .36, 3670' 1.34

DRILLSTEM TESTING

DST NO.1: (3266'-3325'), Toronto, Lansing A

Type: Conventional Bottom Hole Test, Misrun – packer failure

DST NO.2: (3304'-3325'), Toronto, Lansing A

Type: Conventional Bottom Hole Test Times: 10-30-90-180

<u>PERIOD</u>	<u>TIME</u>	<u>PSI</u>
IH		1581
IF	10	16 - 36
ISI	30	906
FF	90	39 - 157
FSI	180	902
FH		1544

BHT: 96 deg. F.

BLOWS: IF – 1/4" and built to 1 3/4" at end of period. FF – Built to 7". ISI & FSI – no blowback.

RECOVERY: 60' water cut mud with oil specs on top(30% water) and 240' of slightly mud cut water (90% water) – Rw .21 Ohms at 67 deg. F – 37,500 ppm CL.

DST NO.3: (3330'-3341'), Pollnow Zone

Type: Conventional Bottom Hole Test, Misrun – packer failure

DST NO.4: (3318'-3341'), Pollnow Zone

Type: Conventional Bottom Hole Test Times: 10-45-90-180

<u>PERIOD</u>	<u>TIME</u>	<u>PSI</u>
IH		1579
IF	10	17 - 29
ISI	45	899
FF	90	32 - 108
FSI	180	891
FH		1539

BHT: 95 deg. F.

BLOWS: IF - Weak surface blow. FF – built to 1 1/4". ISI & FSI – no blowback.

RECOVERY: 2' free oil and 338' of slightly mud cut water(5% mud) – Rw .073 Ohms at 77 deg. F – 100,000 ppm CL.

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DST NO.5: (3458'-3483'), Lansing F

Type: Conventional Bottom Hole Test Times: 5-45-45-120

<u>PERIOD</u>	<u>TIME</u>	<u>PSI</u>
IH		1736
IF	5	18 - 14
ISI	45	129
FF	45	15 - 21
FSI	120	135
FH		1670

BHT: 97 deg. F.

BLOWS: Weak surface.

RECOVERY: 2' oil, 3' slightly oil cut mud.

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DST NO.6: (3335'-3354'), Pollnow Zone, Lansing Lower B

Type: Straddle after logs Times: 5-45-90-210

<u>PERIOD</u>	<u>TIME</u>	<u>PSI</u>
IH		1699
IF	5	45 - 75
ISI	45	1102
FF	90	91 - 268
FSI	210	1079
FH		1625

BHT: 97 deg. F.

BLOWS: IF - Steadily increased to 4 1/2". FF - Steadily increased to bottom of bucket in 40 minutes.
Shut ins - no blowback.

RECOVERY: 665' total fluid, 272' of oil, trace gas, 213' oil cut mud(30% oil), 180' slightly oil cut mud(10% oil), Gravity oil 26 API @ 70 deg. F.

ELECTRIC LOG FORMATION TOPS - KB ELEVATION 2536'

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>STRUCTURAL CONSIDERATION</u>	
			<u>*DATUM</u>	<u>POSITION</u>
Casing	209'			
Stone Corral	1984'	+552'		
Heebner	3267'	-731'	-729'	-2'
Toronto	3300'	-764'	-773'	+9'
Lansing	3310'	-774'	-778'	+4'
Pallnow Zone	3334'	-798'	-803'	+5'
Lansing B	3347'	-811'	-814'	+3'
C	3384'	-848'	-851'	+3'
D	3412'	-876'	-880'	+4'
E	3456'	-920'	-917'	-3'
F	3472'	-936'	-941'	+5'
G	3502'	-966		
Base KC	3513'	-977'		
Marmaton	3557'	-1021'		
Granite Wash	3616'	-1080'		
TD	3670'	-1134'		

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*Abercrombie, Kelly "C" No. 1, SE SW NE, Section 29 - 40 acres to the SW, KB Elev. 2545'

SAMPLE DESCRIPTIONS

Corrected E-log Formation Tops

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* - Hydrocarbon Show
Samples are lagged

3000-3034 SHALE: Med gray gygn redbrn to brown occasional black firm blocky earthy calcareous interbed with LIMESTONE: Med to light mottled brown gray tan to buff mottled yellow micr fine crystalline sbchky in part clean to argillaceous marly in part fossils pyrite tight no show

3034-3070 LIMESTONE: Lt brown buff light to medium gray to brown micr crpxln hard dense argillaceous to marly fossils tight no show interbed with SHALE: Red to orange brown gray gygn tan blocky firm calcareous

3070-3104 LIMESTONE: Lt bn buff tan white firm to soft brittle clean sbchky fossils with moldic porosity predominant tight no fluorescence no stain or cut interbed with shale: as above

3104-3120 LIMESTONE: Lt to medium brown redbrn mottled micr fine crystalline hard dense clean to artg fossils tight no show with SHALE

3120-3140 LIMESTONE: Lt brown buff white firm brittle sbchky clean fossils oolites moldic porosity trace intxln porosity no show

3140-3156 SHALE: Red to orngbrn blocky earthy trace marly LIMESTONE: tight no show

3156-3192 LIMESTONE: Wh light brown buff micxln micsuc hard dense clean sbchky in part tight no show

3194-3200 SHALE: Redbrn occasional black to dark brown firm sbfis to blocky with LIMESTONE: as above

3200-3220 SHALE: Redbrn to orngbrn gray gygn medium gray earthy blocky sndy with LIMESTONE: Mot brown biomier fine crystalline sbchky argillaceous fossils trace crystalline and moldic porosity no show

3220-3250 SHALE: Redbrn to orngbrn gray gygn medium gray earthy blocky sndy with LIMESTONE: Mot brown biomier fine crystalline sbchky argillaceous fossils trace crystalline and moldic porosity no show

3250-3268 LIMESTONE: Lt brown buff white micxln micsuc brittle clean sbchky pyrite fossils with trace moldic porosity trace intxln porosity no fluorescence no stain or cut

Heebner 3267

3268-3276 Tr SHALE: Blk dark brown gygn LIMESTONE: Mot brown to gray crpxln hard dense tight no show

3276-3300 SHALE: Red to orngbrn to brown gray earthy firm blocky trace marly LIMESTONE: Red to orngbrn mottled brown to gray crpxln hard dense tight no show

Toronto 3300'

3300-3316 LIMESTONE: Lt to medium brown biomicr micxln micsuc to sucrosic in part brittle clean very fossils and oolites with moldic porosity intgran and occasional intxln porosity trace vug porosity medium mottled brown oil stain occasional ebeb brown matrix oil stain abt live oil dull mottled ornggold hydrocarbon fluorescence(10% sample) exc strmg cut slightly odor gd show with interbed
SHALE LIMESTONE: Lt brown buff occasional red and mottled yellow crpxln hard dense trace oomoldic porosity with trace live oil and stain

Lansing 3310'

3316-3333 LIMESTONE: Lt brown tan buff fine crystalline dense sbchky in part clean fossils tight/fossils well/ moldic porosity no show with SHALE: Red/orngbrn gray gygn blocky firm earthy

Pallnow Zone 3334'

3333-3340 LIMESTONE: Med to light mottled brown biomicr micxln micsuc/sucrosic clean sbchky in part brittle fossils fair intxln porosity occasional vug and moldic porosity gd even brown matrix oil stain and trace live oil ornggold hydrocarbon fluorescence exc strmg cut slightly odor trace heavy black dead oil stain

Lansing B 3347'

3340-3366 Abt CHRT: Blk dark mlky brown hard crystalline LIMESTONE: Lt mottled brown gray biomicr crp/micxln hard dense silica occasional trace moldic and intxln porosity predominant silica and tight spotty brown oil stain and live oil dark brngold hydrocarbon fluorescence exc strmg cut interbed with SHALE: Redbrn gray gygn earthy blocky

3366-3376 SHALE: Redbrn earthy blocky

3376-3384 LIMESTONE: Wh tan micr crpxln hard dense sbchky in part clean oolites and fossils trace moldic porosity spotty live oil show

Lansing C 3384'

3384-3402 LIMESTONE: Wh light brown tan biomicr fine crystalline very oolites well/intpart porosity trace intxln porosity mottled brown oil stain and live oil dull hydrocarbon fluorescence exc strmg cut with LIMESTONE: Gy brown tan crpxln hard dense silica clean tight no show trace Chrt

3402-3414 SHALE: medium/dark gray gygn hard dense silica

Lansing D 3412'

3414-3436 LIMESTONE: Lt brown tan light gray gygn crpxln hard silica clean/argillaceous fossils trace moldic porosity with spotty oil show exc cut predominant very tight and silica trace CHRT: Mlky gray dh crystalline

3436-3454 SHALE: Med brown to redbrn hard calcareous fossils in part abt unconsl fossils(oolites crinoid foram)

Lansing E 3456'

3454-3468 LIMESTONE: Lt mottled brown gray gygn tan crp/micxln sbchky in part predominant very silica and tight tight/occasional trace spotty oil show with pinpoint porosity CHRT with SHALE: Red/orngbrn gray gygn firm blocky earthy

Lansing F 3472'

3468-3482 LIMESTONE: Lt/m mottled brown biomicr very brittle in part clean very fossils well/moldic and intpart porosity predominant crpxln and tight oc trace intxln porosity brown oil stain

and live oil goldbrn hydrocarbon fluorescence gd strmg cut slightly odor with LIMESTONE: Med brown crpxln hard dense silica tight no show

3482-3496 LIMESTONE: Wh tan buff crpxln hard dense clean tight no show

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3496-3502 SHALE: Med redbrn to brown gygn firm earthy blocky

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Lansing G 3502'

3502-3512 LIMESTONE: Wh light brown to tan mottled redbrn micr fine crystalline dense argillaceous fossils tight no show

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Base KC 3513'

3512-3530 SHALE: Mot redbrn medium brown earthy blocky interbed with LIMESTONE: Lt to medium brown mottled redbrn gray micr fine crystalline hard dense argillaceous to marly in part fossils tight no show

3530-3556 SHALE: Med to bright red to orngrn firm blocky earthy sndy

3556-3564 LIMESTONE: Med to light brown micr micro/crpxln hard dense sndy tight no fluorescence no stain or cut

Marmaton 3557'

3564-3588 SHALE: Dk redbrn to brown firm blocky earthy occasional interbed with LIMESTONE: Lt brown to gray buff gygn fine crystalline hard dense sndy clean to argillaceous tight no show

3588-3600 LIMESTONE: Lt brown to gray buff gygn fine crystalline hard dense sndy clean to argillaceous tight no show interbed with SHALE: as above

3600-3616 SHALE: Red to orngrn to brown very soft earthy blocky waxy to sndy

Granite Wash 3616'

3616-3632 Granite Wash: Bri mottled orange to red clear white speck black pink varic fldspr quartz biotite horn mafic minls occasional trace black residue oil stain(gilsonite) slow weak cut no fluorescence with SHALE: Bri mottled red to orange varic blocky waxy

3632-3670 Granit Wash: Bri mottled orange to red clear white speck black pink varic fldspr quartz biotite horn mafic minls with SHALE: Bri mottled red to orange varic blocky waxy

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