



KANSAS CORPORATION COMMISSION 1073033
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 # 34291
Name: Hodges, Dennis D. and/or Peggy D.
Address 1: 1827 Rd Z
Address 2: _____
City: Reading State: KS Zip: 66868 + _____
Contact Person: Dennis Hodges
Phone: (620) 256-6668
CONTRACTOR: License # 33217
Name: Three Rivers Exploration, LLC
Wellsite Geologist: David B. Griffin, RG #498
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
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth: _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____
9/26/2011 10/01/2011 1/19/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-031-23047-00-00
Spot Description: _____

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Coffey
Lease Name: Hodges Well #: 5
Field Name: Finnerty
Producing Formation: Burgess SS
Elevation: Ground: 1138 Kelly Bushing: 1111
Total Depth: 1827 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 150 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: 0 ppm Fluid volume: 80 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: 01/29/2012 Denied

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: Deanna Gerrisor Date: 01/30/2012



1073033

Operator Name: Hodges, Dennis D. and/or Peggy D. Lease Name: Hodges Well #: 5
 Sec. 12 Twp. 21 S. R. 13 East West County: Coffey

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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input 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 Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Open Hole: Dual Induction, Compensated Density Sidewall Deutron, Miro Logs Cased Hole: Gamma Ray Neutron Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border: none;"> <tr> <td style="width:60%; border: none;">Name Attached</td> <td style="width:20%; border: none;">Top Attached</td> <td style="width:20%; border: none;">Datum Attached</td> </tr> </table>	Name Attached	Top Attached	Datum Attached
Name Attached	Top Attached	Datum Attached		

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	8.675	25	150	Class A Portlanc	100	
Longstring	7.875	5.5	15.5	1823	Thick Set	135	675#s Kol-Seal

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 <i>(Amount and Kind of Material Used)</i>	Depth
3	1726.5 to 1729.5	Acid, 7.5%, 200 gals	same

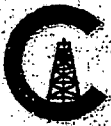
TUBING RECORD: Size: <u>2.875</u> Set At: <u>1660</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>1/20/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>2</u>	Gas Mcf <u>0</u>	Water Bbls. <u>80</u> Gas-Oil Ratio <u>24</u> Gravity <u>24</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" 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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Burgess SS</u> <u>1726.5-1729.5</u>
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Form	ACO1 - Well Completion
Operator	Hodges, Dennis D. and/or Peggy D.
Well Name	Hodges 5
Doc ID	1073033

Tops

Name	Top	Datum
Base KC	1092	+46
Cherokee	1376	-238
U. Squirrel SS, 10'	1388	-250
L. Squirrel SS, 13'	1431	-293
Ardmore LS	1481	-343
Burgess SS, 40'	1726	-588
Mississippian Dol	1774	-638
Rotary TD (GL)	1827	-689



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER

31614

LOCATION Eureka

FOREMAN Steve Marshall

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

FIELD TICKET & TREATMENT REPORT

CEMENT APT # 15-031-23047

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-27-11		Hodges # 5	12	215	17E	Coffey
CUSTOMER						
Dennis D. Hodges						
MAILING ADDRESS						
1827 Pk 2						
CITY		STATE	ZIP CODE			
Reedwood		KS	66868			

TRUCK #	DRIVER	TRUCK #	DRIVER
466	Alan M		
461	Jim		

JOB TYPE Surface HOLE SIZE 12"i HOLE DEPTH 160' CASING SIZE & WEIGHT 8 5/8"
 CASING DEPTH 150' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.5# SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 15'
 DISPLACEMENT 5 1/2 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting. Rig up to 8 5/8" casing. Break circulation with 3 bbls
fresh water. Mix 100 sks Class A Cement by 3% collar 2% Gel & 1/4" Flo-Cel.
Displace with 5 1/2 bbls Fresh water. Shut well in. Good cement Returns to
surface. Job complete. Rig down.

Thank You

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	775.60	775.60
5406	15	MILEAGE	12.00	180.00
11045	100 sks	Class A Cement	14.25	1425.00
1102	280#	Collar 3%	.70	196.00
11013	150#	Gel 2%	.20	30.00
1107	25#	Flo-Cel 1/4" 1.5% 150#	2.22	55.50
5407		Ton mileage Bulk Truck	132.00	330.00
		Total 3105.39		
		5% Discount	- 155.27	
		Total 2950.12		
		Sub Total		2997.50
		SALES TAX 6.5%		197.89
		ESTIMATED TOTAL		3105.39

Revin 3737
 AUTHORIZATION Dennis D. Hodges TITLE Owner / Partner DATE 9-27-11

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's



CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER 33235
LOCATION Eureka
FOREMAN STOURMAN

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

FIELD TICKET & TREATMENT REPORT

CEMENT APT 15-031-23047

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																																																		
10-1-11		Hedges #5	12	215	13E	Coffey																																																		
<table border="1"> <thead> <tr> <th>CUSTOMER</th> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> </thead> <tbody> <tr> <td>Dennis & Peggy Hedges</td> <td>485</td> <td>Alam</td> <td></td> <td></td> </tr> <tr> <td>MILING ADDRESS</td> <td>515</td> <td>Calin</td> <td></td> <td></td> </tr> <tr> <td>1527 Rd. 2</td> <td>437</td> <td>Jim</td> <td></td> <td></td> </tr> <tr> <td>CITY</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Reading</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>STATE</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Ks</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ZIP CODE</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>66868</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER	Dennis & Peggy Hedges	485	Alam			MILING ADDRESS	515	Calin			1527 Rd. 2	437	Jim			CITY					Reading					STATE					Ks					ZIP CODE					66868				
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JOB TYPE Long string HOLE SIZE 7 7/8 HOLE DEPTH 1527 CASING SIZE & WEIGHT 5" 13.5" N.W.
 CASING DEPTH 1523 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.6 SLURRY VOL _____ WATER gal/ek _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 4 1/2 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting. Rig up to 5 1/2 casing. Break circulation with 5 bbls Fresh
Water Pump 12 bbl Caustic Soda per flush 5 bbls water space. Now 132 sks
Thick set cement 6 1/2" Kol-Sol per sk At 13.6" in. Wash out pump + lines.
Release latch down plug Displace with 4 1/2 bbls Fresh Water. Final pumping
Pressure loss? Pump plug. Now 6000 2 min. Release pressure. Plug hole.
Had good circulation. Doing job.
Tab. sampling Rig down

Thank You

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	975.00	975.00
5406	45	MILEAGE	4.00	180.00
1126A	135 sks	Thick set Cement	18.30	2470.50
1110A	675 #	Kol-Sol 5" per sk	.44	297.00
1107	100 #	Caustic Soda (Per flush)	1.52	152.00
5407A	7.43	Fed Mileage Bulk Truck	1.26	421.28
5502C	4 hrs	80 bbl Vacuum Truck	90.00	360.00
1123	3000 gallons	City Water	15.63/1000	46.90
4159	1	5 1/2" AFU Float Shoe	344.00	344.00
4454	1	5 1/2" Latch down Plug	254.00	254.00
4130	5	5 1/2" 7 7/8 Centralizer	40.00	240.00
4104	1	5 3/8" Basket	229.00	229.00
	Total 6223.68			
	5% Discount	311.18		
	Total	5912.50		
		Red check # 6717	23%	
			ESTIMATED TOTAL	6223.68

AUTHORIZATION Dennis A. Hedges TITLE Owner/Operator DATE 10-1-11

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

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 29, 2012

Dennis Hodges
Hodges, Dennis D. and/or Peggy D.
1827 Rd Z
Reading, KS 66868

Re: ACO1
API 15-031-23047-00-00
Hodges 5
NW/4 Sec.12-21S-13E
Coffey 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,
Dennis Hodges

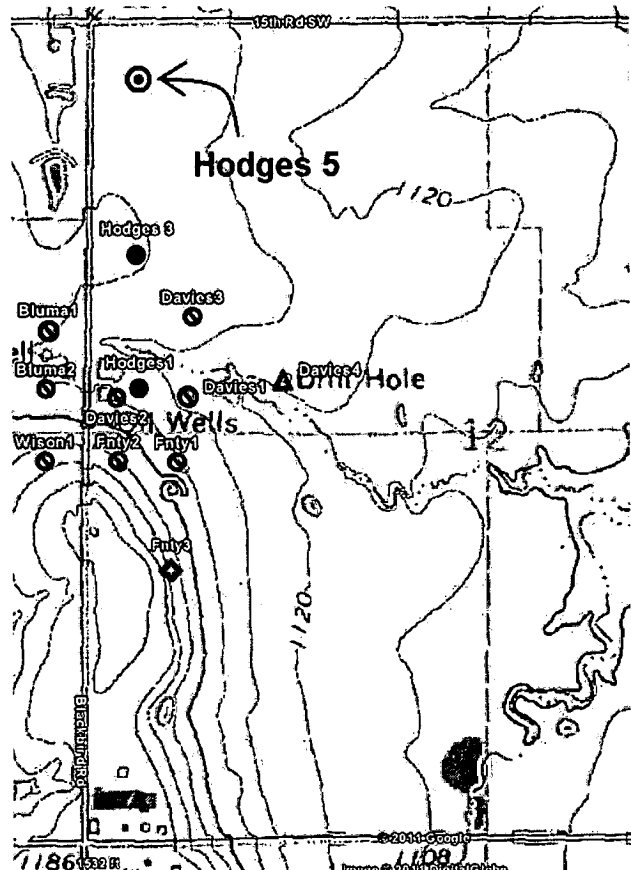
Geological Wellsite Report

By David Griffin, RG
GGR, Inc. (Griffin Geological Resources)
October 3, 2011

Well Info: Hodges 5
NW NW NW/4
4950' fsl, 330' fwl
Section 12, T21S-R13E
Coffey County, KS
API No. 15-031-23047
GPS Coordinates
W-95.938833, N38.242306
Datum: GL, Elev. 1138.2' Svy
RTD: 1827', GL
Status: 5½ Pipe Set,
Burgess SS Test

Operator: Dennis D. and
Peggy D. Hodges
1827 Road Z
Reading, Kansas 66868
Operator License No.: 34291
Contact: Dennis Hodges

Contractor: Three Rivers Exploration, LLC
Contractor License No.: 33217
Owner: Dave Farthing



Objectives: Primary objective, evaluate the Burgess Sandstone
Secondary objective, evaluate the Squirrel Sandstones.

Drilling Notes:

September 26, 2011, Spud, Set 151', 8⅝" Surface Casing
October 1, 2011, Reached Total Depth of 1827', GL
Bit One, 7⅞" PDC Bit from 150' to 1609'
Bit Two, 7⅞" Button Bit from 1609' to TD at 1827'
Native fresh water mud to 1546', Chemical Gel Mud 1546' to TD

Geological Supervision:

David Griffin, RG, provided wellsite supervision on September 29, 30 and October 1, 2011. Drilling was witnessed from 1200' to TD at 1827', samples were microscopically examined from 1300' to 1827'.

Cement Co.: Consolidated Oil Well Service Co., Contractor License No.: 04996

Geological Datums:

Geologic Tops					
Dennis and Peggy Hodges			Dennis and Peggy Hodges		
Hodges 5			Hodges 3		
NW NW NW/4			N/2 NW SW NW/4		
Sec. 12-T21S-R13E			Sec. 12-T21S-R13E		
Zones of Interest	OH Log Tops		S C T O R M C P	OH Log Tops	
	GL Elev. 1138.2'			GL Elev. 1142'	
	Depth	Subsea		Depth	Subsea
Base Kansas City	1092	46	-4	1090	52
Cherokee	1376	-238	-3	1377	-235
Upper Squirrel SS	1388	-250	-12	1380	-238
Base SS	1401	-263	-7	1398	-256
Lower Squirrel SS	1431	-293	-7	1428	-286
Base SS	1444	-306	-2	1446	-304
Ardmore LS	1481	-343	-6	1480	-338
Burgess SS	1726	-588	-8	1721	-579
Top Best Pay Zone, (Porosity)	1728	-590	-11	1721	-579
Base Pay (75% SW Cutoff)	1731	-593	+1	1736	-594
Top Potential Lower Pay	1740	-602		na	
Base Pay (75% SW Cutoff)	1748	-610		na	
Base SS	1766	-628	+3	1773	-631
Mississippian Dol	1774	-636	-3	1775	-633
Rotary Total Depth	1827	-689		1824	-682

Structural Comparisons:

Structural comparison of the top of the Burgess Sandstone Pay Zone indicates that Hodges 5 is structurally 11' low to Hodges 3, a new pending producer well lying ~1100' to the south.

Gas Detection, Logs, Cores, DST's:

Digital total gas detection and rate of penetration was performed from 1300' to TD at 1827'. Dual induction and dual porosity open hole log was ran by Osage Wireline. No cores or DST's were obtained for this well.

Descriptions of Oil Show Zones:

Upper Squirrel SS

1388' to 1401', GL, (-250'), 13' thick, Very Good to Excellent Pay Zone Potential

Sandstone, dark brown, mostly clean, very fine to fine grained sub-angular quartz, loose grains to clusters, mostly good porosity, good odor, very good to excellent show of free brown oil rinsing from samples and bleeding into sample bags, very good live oil show and odor from pit; heavy oil below 1400', (-262); Siltstone, shale, 10% to 50%, very light gray to gray. Total gas readings peaked at 795 units which are 650 units of the background reading of approximately 135 units, no gas bubbles observed.

Pay Zone was flagged from 1388.5' to 1396' using an Rw of 0.15 and cutoffs for saltwater (Sw) of 75%, porosity (Phi) of 17%.

Oil In-Place for the flagged pay zone interval was estimated at 28,516 barrels using 440' well spacing. The recovery factor is highly variable, but for comparison purposes, a 10% recovery factor would result in approximately 2,852 barrels produced. See attached sheet of saltwater calculations.

Lower Squirrel SS

1431' to 1444', GL, (-293'), 13' thick, No Pay Zone Potential

Sandstone, dark gray, micaceous, very fine to fine grained sub-angular quartz, loose grains to clusters, mostly good porosity with minor tite, good odor; good show of dark brown heavy oil rinsing from samples and bleeding into sample bags, no show of oil in pit, no tar present; Siltstone and shale interbeds, 20%, dark gray. Total gas readings peaked at 429 units which is 254 units of background of approximately 175 units.

Pay Zone was flagged from 1429' to 1435' using an Rw of 0.15 and cutoffs for Sw of 70%, Phi of 17% and VSH of 0.8.

Oil In-Place for the flagged pay zone interval was estimated at 203 barrels using a 440' well spacing. Due to the heavy gravity and high saltwater calculations, this zone has no potential for commercial pay zone. See attached sheet of saltwater calculations.

Burgess SS

1726' to 1766', GL, (-588'), 40' thick, Very Good Pay Zone Potential 1728'-1733'

Sandstone, light brown, light gray brown to light gray, mostly clean, very fine to medium grained, sub-rounded to sub-angular quartz, loose grains to clusters, fair to very good porosity with minor tite zones of quartz re-crystallization, pyrite common from 1739'-1747', detail discussion below.

(1726'-1728'), Sandstone, 50%, light brown, fair to mostly good porosity, patchy tite in 20%, very fine to fine grained, very good odor, mostly very good show of free brown oil rinsing from samples and bleeding into sample bags, very good oil odor coming from pit. Total gas readings peaked at 109 units, which is 76 units above background of 33 units.

(1728'-1733'), Sandstone, 80%, brown, very fine to fine grained, sub-rounded, good porosity, strong odor in samples, strong odor and moderate oil show from pit, excellent show of free brown oil rinsing from samples and bleeding into sample bags. Total gas readings peaked at 59 units.

(1733'-1735'), Sandstone, 40%, light brown, very fine to fine grained, good porosity, good odor, very good show of free oil; Sandstone, 20%, fair to good porosity, fair patchy oil stain. Overall, very good show of free oil rinsing from samples and bleeding into sample bag. Total gas readings peaked at 49 units.

(1735'-1737'), Sandstone, 30%, light grayish-brown, very fine to fine grained, fair to good porosity, very good show of free oil; Sandstone, 30%, fair to good porosity, fair to good show of free oil; Sandstone, 10%, fair porosity, no show. Overall, good show of free oil rinsing from samples and bleeding into sample bag. Total gas readings peaked at 37 units.

(1737'-1739'), Shale, 30%, gray to dark gray; Sandstone, 40%, very fine to fine grained, good porosity, good show of free oil; Sandstone, 20%, fair to good porosity mostly with some tite, fair to good show of free oil; Sandstone, 10%, no show. Overall, good show of free oil rinsing from samples and bleeding into sample bag. Total gas readings peaked at 35 units.

(1739'-1743'), Sandstone, 50%, light grayish-brown, very fine to fine grained, fair porosity, good to very good show of free oil; Sandstone, 20%, fair to good porosity mostly with some tite, slight show of free oil; Sandstone, 10%, no show. Overall, good to very good show of free oil rinsing from samples and bleeding into sample bag. Total gas readings peaked at 39 units.

(1743'-1745'), Sandstone, 80%, light grayish-brown, very fine, fine to minor medium grained, fair to good porosity, good to very good show of free oil; Sandstone, 20%, tite to fair porosity, no show, pyrite common. Overall, good to very good show of free oil rinsing from samples and bleeding into sample bag. Total gas readings peaked at 45 units.

(1745'-1747'), Sandstone, 20%, light grayish-brown, very fine, fine to minor medium grained, fair to good porosity, good to very good show of free oil; Sandstone, 50%, very fine to fine grained, fair to good porosity, fair to good show of free oil, pyrite common. Overall, good to very good show of free oil rinsing from samples and bleeding into sample bag. Total gas readings peaked at 45 units.

(1747'-1748'), Sandstone, 20%, light grayish-brown, very fine to medium grained, fair to good porosity, good show of free oil; Sandstone, 30%, good porosity, fair show of free oil, pyrite minor; Sandstone, 40%, slight show of free oil. Overall, good show of free oil rinsing from samples and bleeding into sample bag. Total gas readings peaked at 45 units.

(1748'-1750'), Sandstone, 15%, light grayish-brown, very fine to medium grained, fair porosity, fair show of free oil; Sandstone, 25%, good porosity, slight show of free oil; Sandstone, 40%, poor to fair porosity, no oil show. Overall, fair show of free oil rinsing from samples and bleeding into sample bag. Total gas readings peaked at 45 units.

(1750'-1755'), Sandstone, 90%, light gray, fine to medium grained, good to very good porosity, many loose grains, no show of oil; Sandstone, 5%, slight show of oil. Overall, trace show of free oil rinsing from samples and bleeding into sample bag. Total gas readings peaked at 33 units.

(1755'-1768'), Sandstone, 90%, light gray, fine to medium grained, poor to very good porosity, many loose grains and hard clusters, no show of oil; Sandstone, 5%, slight show of oil. Overall, trace show of free oil rinsing from samples and bleeding into sample bag. Total gas readings peaked at 33 units.

Medium to bright fluorescence from oil stain was as follows:

1726'-1728', 50% Bright, Very Good Pay Potential
1728'-1733', 80% Bright, Excellent Potential
1733'-1735', 60%, (40% Bright, 20% Medium), Good Potential
1735'-1737', 60%, (30% Bright, 30% Medium), Good Potential,
Possibly Water Transition Zone
1737'-1739', 60%, (30% Bright, 30% Medium), Good Potential,
Log shows mostly shale
1739'-1743', 70%, (20% Bright, 50% Medium), Good to Very Good
Potential
1743'-1745', 80%, (40% Bright, 40% Medium), Good to Very Good
Potential
1745'-1747', 70%, (20% Bright, 50% Medium), Good to Very Good
Potential, Water Transition Zone
1747'-1748', 50%, (20% Bright, 30% Medium), Water Transition
1748'-1750', 25%, Medium, Water Transition
1750'-1762', 5%, Medium, Possible Cross Sample Contamination,
Water Zone

Based on sample observations, the best potential pay zone lies from 1728' to 1733'. A potential commercial lower pay zone lies from 1739' to 1745', but will probably be accompanied by an increase in saltwater. Pay Zone was flagged from 1729' to 1731', 1740' to 1741' and 1744' to 1748' using an R_w of 0.2 and cutoffs for S_w of 75%, Φ of 16% and VSH of 0.8. See attached sheet of saltwater calculations.

Oil In-Place in the flagged pay zone interval was estimated at 10,182 barrels using a 660' well spacing. It is thought that potential pay zone exists from 1728' to 1733', however the zone may be too thin to be adequately resolved by the deep induction logging tool which results in a lower than actual R_t value. Also, pyrite may negatively bias the R_t value from 1739' to 1747'.

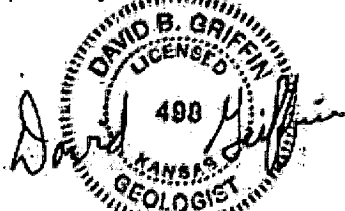
Summary:

Hodges 5 contained Upper Squirrel Sandstone from 1388' (-250) to 1401', (13' thick) with a very good to excellent show of free brown oil rinsing from samples and appearing in pit throughout. The Upper Squirrel Sandstone has very good to excellent potential as pay zone with saltwater calculations that ranged from 35% to 56%. Lower Squirrel Sandstone was present from 1431', (-293) to 1444', (12' thick) with good shows of heavy oil. The Lower Squirrel Sandstone has no pay zone potential with saltwater calculations that are no better than 70%. Burgess Sandstone was present from 1726' (-588) to 1766', (40' thick) and contained mostly good to excellent show of free brown oil from 1726' to 1747'. Based on sample observations, the Burgess Sandstone has excellent pay zone potential from 1728' to 1733', however saltwater calculations are lower than anticipated which reduced the amount of flagged pay zone. The top of the Burgess Sandstone Porosity is structurally 11' low to Hodges 3, a new potential Burgess Sandstone producer well lying ~1100' to the south. Due to the very good to excellent potential of the Upper Squirrel and Burgess Sandstones, 5 $\frac{1}{2}$ " production casing was set.

Recommendations:

It is recommended that the Burgess Sandstone be perforated from 1728' to 1731', GL and tested naturally through perforations. A cased hole GRN log should be correlated with the open-hole and sample log to aid in properly placing the perforations. The Upper Squirrel Sandstone could also be tested with perforations from 1389' to 1396' and sand frac'd. However, a separate well development with waterflood plan on 440' acre spacing should be considered.

Respectfully Submitted,



David Griffin, RG, Owner
GGR Inc. (Griffin Geological Resources)
Lawrence, Kansas
785-842-3665

Attachment: Sample Log, Saltwater and OIP Calculations

Hodges 5
Upper Squirrel Sandstone Saltwater and Oil in Place Calculations
 NW NW NW/4, Sec. 12-T21S-R13E, Coffey County, KS
 October 3, 2011

Model = Archie		Porosity										Barrels Oil		
PARAMETERS	Zone	Depth	Thick	RT	PHI	RWA	RO	MA	SW	BVW	VSH	FT	BOI	In-Place Per Acre
X	1	1386	0.5	8.58	15.1%	0.28	4.53	2.14	72.7%	0.109	0.862	0	1.12	0
Y	2	1386.5	0.5	8.74	15.2%	0.29	4.44	2.16	71.3%	0.109	0.908	0	1.12	0
A	3	1387	0.5	9.01	15.5%	0.31	4.32	2.19	69.3%	0.107	0.922	0	1.12	0
M	1.8	1387.5	0.5	9.46	15.9%	0.34	4.11	2.25	65.9%	0.105	0.922	0	1.12	0
N	2	1388	0.5	10.04	16.5%	0.39	3.83	2.34	61.8%	0.102	0.901	0	1.12	0
RW	0.15	1388.5	0.5	10.77	17.7%	0.48	3.39	2.47	56.1%	0.099	0.892	0.04	1.12	269
CTHK	20.5	1389	0.5	11.73	19.2%	0.60	2.93	2.64	50.0%	0.096	0.983	0.05	1.12	332
AVPHI	0.18	1389.5	0.5	12.93	20.2%	0.73	2.66	2.79	45.3%	0.092	1.089	0.06	1.12	383
FTOIL	0.93	1390	0.5	14.40	20.6%	0.84	2.57	2.89	42.2%	0.087	1.121	0.06	1.12	413
PAYFEET	8	1390.5	0.5	16.18	20.8%	0.96	2.53	2.98	39.5%	0.082	1.055	0.06	1.12	436
Estimated Oil-In-Place		1391	0.5	17.99	20.8%	1.06	2.54	3.05	37.6%	0.078	0.930	0.06	1.12	450
440' Spacing	28,516	1391.5	0.5	19.46	20.2%	1.09	2.68	3.04	37.1%	0.075	0.796	0.06	1.12	439
10% OIP	2,852	1392	0.5	20.76	19.5%	1.09	2.85	3.02	37.0%	0.072	0.695	0.06	1.12	425
DMIN		1392.5	0.5	21.88	19.2%	1.12	2.93	3.02	36.6%	0.070	0.596	0.06	1.12	421
DMAX		1393	0.5	22.57	19.0%	1.13	2.98	3.02	36.4%	0.069	0.486	0.06	1.12	419
GL	1138	1393.5	0.5	22.85	19.0%	1.16	2.97	3.03	36.0%	0.069	0.405	0.06	1.12	422
LTD		1394	0.5	22.84	19.3%	1.18	2.90	3.05	35.6%	0.069	0.368	0.06	1.12	430
BHT		1394.5	0.5	22.60	19.6%	1.20	2.83	3.07	35.4%	0.069	0.359	0.06	1.12	438
ST		1395	0.5	21.51	19.6%	1.14	2.83	3.04	36.3%	0.071	0.376	0.06	1.12	432
RMF		1395.5	0.5	19.43	18.6%	0.94	3.09	2.89	39.9%	0.074	0.394	0.06	1.12	388
RMFT		1396	0.5	17.02	17.2%	0.72	3.55	2.69	45.7%	0.079	0.399	0.05	1.12	325
		1396.5	0.5	14.97	16.7%	0.60	3.77	2.57	50.2%	0.084	0.437	0	1.12	0
		1397	0.5	13.38	16.7%	0.54	3.74	2.51	52.9%	0.089	0.534	0	1.12	0
CUT-OFFS		1397.5	0.5	12.06	16.6%	0.48	3.78	2.45	56.0%	0.093	0.653	0	1.12	0
PHICUT	0.17	1398	0.5	10.96	16.2%	0.42	3.95	2.36	60.1%	0.098	0.704	0	1.12	0
SWCUT	0.75	1398.5	0.5	10.01	16.0%	0.37	4.08	2.29	63.8%	0.102	0.691	0	1.12	0
VSHCUT	na	1399	0.5	9.23	16.1%	0.35	4.01	2.26	65.9%	0.106	0.691	0	1.12	0
BVWCUT	0.22	1399.5	0.5	8.73	16.8%	0.35	3.72	2.28	65.3%	0.110	0.733	0	1.12	0
Colors:		1400	0.5	8.50	17.2%	0.36	3.55	2.30	64.6%	0.111	0.765	0	1.12	0
		1400.5	0.5	8.42	16.9%	0.34	3.69	2.26	66.2%	0.112	0.780	0	1.12	0
		1401	0.5	8.40	16.3%	0.32	3.93	2.22	68.4%	0.111	0.872	0	1.12	0
		1401.5	0.5	8.43	16.0%	0.31	4.04	2.20	69.2%	0.111	1.016	0	1.12	0
		1402	0.5	8.45	16.1%	0.32	4.01	2.21	68.9%	0.111	1.092	0	1.12	0
		1402.5	0.5	8.48	16.4%	0.33	3.87	2.23	67.6%	0.111	1.079	0	1.12	0
		1403	0.5	8.53	16.8%	0.35	3.71	2.27	65.9%	0.111	1.026	0	1.12	0
		1403.5	0.5	8.53	17.1%	0.35	3.62	2.28	65.1%	0.111	0.981	0	1.12	0
		1404	0.5	8.47	17.1%	0.35	3.62	2.28	65.4%	0.112	0.974	0	1.12	0
		1404.5	0.5	8.41	17.1%	0.35	3.59	2.28	65.4%	0.112	0.951	0	1.12	0
		1405	0.5	8.36	17.3%	0.35	3.54	2.29	65.1%	0.112	0.914	0	1.12	0
		1405.5	0.5	8.36	17.2%	0.35	3.57	2.28	65.3%	0.112	0.886	0	1.12	0
		1406	0.5	8.43	16.9%	0.34	3.70	2.26	66.2%	0.112	0.860	0	1.12	0

Hodges 5
Lower Squirrel Sandstone Saltwater and Oil in Place Calculations
 NW NW NW/4, Sec. 12-T21S-R13E, Coffey County, KS
 October 3, 2011

Model = Archie

PARAMETERS

X			
Y			
A	1		
M	1.8		
N	2		
RW	0.15		
CTHK	30.5		
AVPHI	0.17,		
FTOIL	0.07		
PAYFEET	1		
Estimated Oil-In-Place			
440' Spacing	2,033		
10% OIP	203		
DMIN			
DMAX			
GL	1138		
LTD			
BHT			
ST			
RMF			
RMFT			

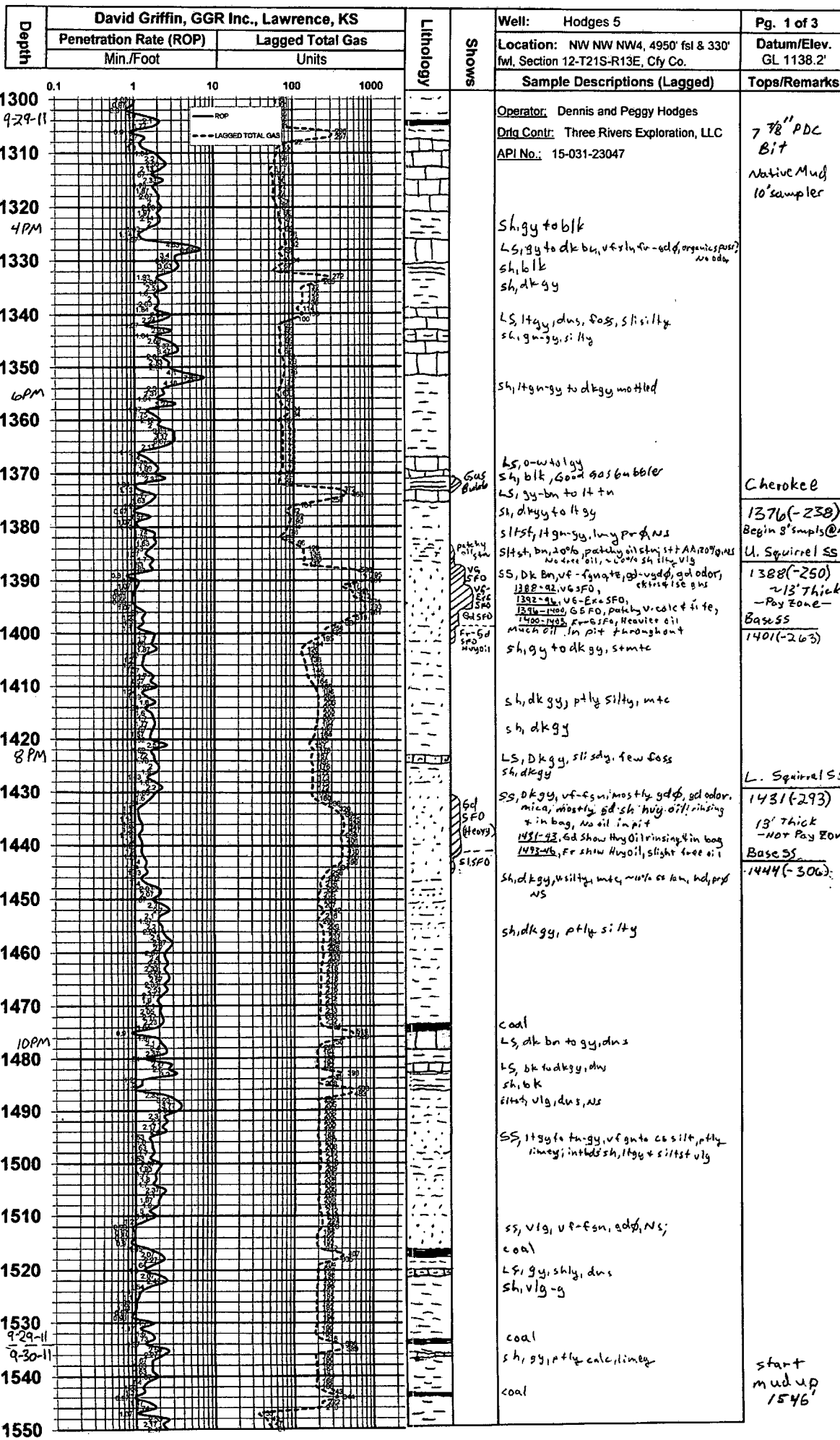
CUT-OFFS	
PHICUT	0.17
SWCUT	0.7
VSHCUT	0.8
BVWCUT	0.22

Colors:

Zone	Depth	Thick	Porosity		RWA	RO	MA	SW	BVW	VSH	FT PAY	BOI	Barrels Oil In-Place Per Acre	
			RT	PHI										
	1	1420	0.5	7.25	16.9%	0.29	3.69	2.18	71.3%	0.120	1.006	0	1.12	0
	2	1420.5	0.5	6.91	16.6%	0.27	3.78	2.14	74.0%	0.123	1.023	0	1.12	0
	3	1421	0.5	6.55	16.1%	0.24	4.01	2.07	78.3%	0.126	1.042	0	1.12	0
	4	1421.5	0.5	6.24	15.7%	0.22	4.19	2.02	81.9%	0.129	1.070	0	1.12	0
	5	1422	0.5	6.03	15.9%	0.22	4.11	2.01	82.5%	0.131	1.121	0	1.12	0
	6	1422.5	0.5	5.94	16.4%	0.23	3.89	2.03	80.9%	0.133	1.144	0	1.12	0
	7	1423	0.5	6.01	16.8%	0.24	3.72	2.07	78.7%	0.132	1.168	0	1.12	0
	8	1423.5	0.5	6.20	16.3%	0.24	3.91	2.05	79.4%	0.130	1.152	0	1.12	0
	9	1424	0.5	6.40	14.6%	0.20	4.78	1.95	86.4%	0.126	1.028	0	1.12	0
	10	1424.5	0.5	6.57	12.6%	0.16	6.28	1.82	97.7%	0.123	0.837	0	1.12	0
	11	1425	0.5	6.74	11.4%	0.13	7.49	1.75	105.4%	0.120	0.713	0	1.12	0
	12	1425.5	0.5	6.93	11.6%	0.14	7.23	1.78	102.1%	0.119	0.718	0	1.12	0
	13	1426	0.5	7.24	12.7%	0.18	6.13	1.88	92.0%	0.117	0.801	0	1.12	0
	14	1426.5	0.5	7.64	13.8%	0.22	5.32	1.98	83.4%	0.115	0.897	0	1.12	0
	15	1427	0.5	7.96	14.3%	0.24	4.96	2.04	79.0%	0.113	0.953	0	1.12	0
	16	1427.5	0.5	8.05	14.1%	0.24	5.08	2.04	79.4%	0.112	0.980	0	1.12	0
	17	1428	0.5	7.94	13.4%	0.21	5.61	1.97	84.1%	0.112	0.955	0	1.12	0
	18	1428.5	0.5	7.71	12.5%	0.18	6.31	1.90	90.4%	0.113	0.882	0	1.12	0
	19	1429	0.5	7.40	12.2%	0.17	6.66	1.85	94.8%	0.115	0.818	0	1.12	0
	20	1429.5	0.5	7.07	12.7%	0.17	6.17	1.87	93.4%	0.119	0.820	0	1.12	0
	21	1430	0.5	6.77	14.0%	0.20	5.18	1.94	87.4%	0.122	0.838	0	1.12	0
	22	1430.5	0.5	6.50	15.5%	0.23	4.31	2.02	81.5%	0.126	0.831	0	1.12	0
	23	1431	0.5	6.17	16.7%	0.25	3.77	2.07	78.2%	0.130	0.822	0	1.12	0
	24	1431.5	0.5	5.80	17.7%	0.26	3.40	2.11	76.6%	0.135	0.819	0	1.12	0
	25	1432	0.5	5.43	18.8%	0.27	3.05	2.14	74.9%	0.141	0.826	0	1.12	0
	26	1432.5	0.5	5.11	20.0%	0.28	2.71	2.19	72.9%	0.146	0.782	0	1.12	0
	27	1433	0.5	4.89	21.0%	0.30	2.48	2.24	71.2%	0.150	0.722	0	1.12	0
	28	1433.5	0.5	4.78	21.8%	0.31	2.33	2.27	69.8%	0.152	0.732	0.03	1.12	227
	29	1434	0.5	4.74	22.0%	0.31	2.30	2.28	69.6%	0.153	0.786	0.03	1.12	231
	30	1434.5	0.5	4.74	21.5%	0.30	2.38	2.25	70.8%	0.153	0.804	0	1.12	0
	31	1435	0.5	4.76	21.0%	0.29	2.48	2.22	72.3%	0.152	0.774	0	1.12	0
	32	1435.5	0.5	4.78	20.8%	0.28	2.53	2.21	72.7%	0.151	0.748	0	1.12	0
	33	1436	0.5	4.82	20.6%	0.28	2.58	2.20	73.1%	0.151	0.748	0	1.12	0
	34	1436.5	0.5	4.85	20.3%	0.27	2.65	2.18	73.9%	0.150	0.756	0	1.12	0
	35	1437	0.5	4.87	20.3%	0.27	2.66	2.18	73.9%	0.150	0.770	0	1.12	0
	36	1437.5	0.5	4.89	20.5%	0.28	2.60	2.20	72.9%	0.150	0.774	0	1.12	0
	37	1438	0.5	4.91	20.6%	0.28	2.59	2.21	72.6%	0.149	0.726	0	1.12	0
	38	1438.5	0.5	4.94	20.2%	0.28	2.67	2.18	73.5%	0.149	0.691	0	1.12	0
	39	1439	0.5	4.98	19.9%	0.27	2.75	2.17	74.3%	0.148	0.682	0	1.12	0
	40	1439.5	0.5	5.02	19.8%	0.27	2.76	2.17	74.2%	0.147	0.636	0	1.12	0
	41	1440	0.5	5.06	20.0%	0.28	2.72	2.18	73.4%	0.147	0.551	0	1.12	0
	42	1440.5	0.5	5.09	20.3%	0.29	2.64	2.21	72.0%	0.146	0.472	0	1.12	0
	43	1441	0.5	5.14	20.5%	0.30	2.61	2.23	71.3%	0.146	0.446	0	1.12	0
	44	1441.5	0.5	5.24	20.2%	0.29	2.68	2.22	71.5%	0.144	0.483	0	1.12	0
	45	1442	0.5	5.42	19.7%	0.29	2.80	2.21	71.9%	0.141	0.548	0	1.12	0
	46	1442.5	0.5	5.65	19.2%	0.29	2.92	2.20	71.9%	0.138	0.622	0	1.12	0
	47	1443	0.5	5.94	18.6%	0.29	3.10	2.19	72.3%	0.134	0.652	0	1.12	0
	48	1443.5	0.5	6.28	17.5%	0.27	3.44	2.15	74.1%	0.130	0.618	0	1.12	0
	49	1444	0.5	6.63	16.6%	0.26	3.79	2.11	75.6%	0.126	0.602	0	1.12	0
	50	1444.5	0.5	7.00	16.0%	0.26	4.04	2.10	75.9%	0.122	0.631	0	1.12	0
	51	1445	0.5	7.41	15.6%	0.26	4.25	2.10	75.7%	0.118	0.687	0	1.12	0
	52	1445.5	0.5	7.83	15.5%	0.27	4.28	2.12	73.9%	0.115	0.790	0	1.12	0
	53	1446	0.5	8.20	15.3%	0.30	4.15	2.17	71.1%	0.112	0.868	0	1.12	0
	54	1446.5	0.5	8.51	16.2%	0.32	3.96	2.22	68.2%	0.111	0.927	0	1.12	0
	55	1447	0.5	8.79	16.6%	0.35	3.80	2.27	65.7%	0.109	1.021	0	1.12	0
	56	1447.5	0.5	9.02	16.6%	0.36	3.72	2.30	64.2%	0.108	1.111	0	1.12	0
	57	1448	0.5	9.21	16.6%	0.37	3.71	2.31	63.5%	0.107	1.137	0	1.12	0
	58	1448.5	0.5	9.37	16.9%	0.38	3.69	2.32	62.7%	0.106	1.097	0	1.12	0
	59	1449	0.5	9.49	17.0%	0.39	3.63	2.34	61.9%	0.105	1.019	0	1.12	0
	60	1449.5	0.5	9.55	17.0%	0.39	3.63	2.35	61.7%	0.105	0.982	0	1.12	0
	61	1450	0.5	9.67	17.1%	0.40	3.62	2.36	61.2%	0.104	0.994	0	1.12	0

Hodges 5
Burgess Sandstone Saltwater and Oil In Place Calculations
 NW NW NW/4, Sec. 12-T21S-R13E, Coffey County, KS
 October 3, 2011

Model = Archie PARAMETERS	Zone	Depth	Thick	Porosity		RWA	RO	MA	SW	BVW	VSH	FT PAY	BOI	Barrels Oil In-Place Per Acre	
				RT	PHI										
X		1	1724	0.5	0.71	16.1%	0.03	5.36	0.70	274.1%	0.420	1.117	0	1.14	0
Y		2	1724.5	0.5	0.96	15.9%	0.04	5.48	0.85	238.8%	0.450	1.129	0	1.14	0
A		3	1725	0.5	1.17	16.1%	0.04	5.36	0.97	213.6%	0.420	1.116	0	1.14	0
M	1.8	4	1725.5	0.5	1.50	16.2%	0.06	5.31	1.11	188.0%	0.420	1.083	0	1.14	0
N		5	1726	0.5	2.02	15.8%	0.07	5.50	1.25	165.2%	0.420	0.967	0	1.14	0
IRW	0.2	6	1726.5	0.5	2.70	15.3%	0.09	5.86	1.39	147.2%	0.420	0.798	0	1.14	0
CTHK	46.5	7	1727	0.5	3.55	15.1%	0.12	6.00	1.52	129.9%	0.196	0.630	0	1.14	0
AVPHI	0.20	8	1727.5	0.5	4.48	16.1%	0.17	5.34	1.70	109.1%	0.176	0.524	0	1.14	0
FTOIL	0.48	9	1728	0.5	5.38	18.2%	0.25	4.30	1.93	69.4%	0.163	0.495	0	1.14	0
PAYFEET	8.5	10	1728.5	0.5	6.08	20.1%	0.34	3.59	2.13	76.9%	0.155	0.418	0	1.14	0
Estimated Oil-In-Place 650' Spacing		11	1729	0.5	6.41	21.1%	0.39	3.30	2.23	71.7%	0.151	0.295	0.03	1.14	203
10% OIP		12	1729.5	0.5	6.40	21.5%	0.40	3.17	2.26	70.4%	0.152	0.234	0.03	1.14	217
DMIN		13	1730	0.5	6.13	21.7%	0.39	3.13	2.24	71.5%	0.155	0.247	0.03	1.14	211
DMAX		14	1730.5	0.5	5.76	21.7%	0.37	3.12	2.20	73.6%	0.160	0.245	0.03	1.14	196
GL	1138	15	1731	0.5	5.39	22.2%	0.36	3.01	2.19	74.7%	0.166	0.200	0.03	1.14	191
LTD		16	1731.5	0.5	5.06	22.6%	0.35	2.90	2.18	75.7%	0.171	0.164	0	1.14	0
IBHT		17	1732	0.5	4.73	22.4%	0.32	2.95	2.12	79.0%	0.177	0.167	0	1.14	0
IST		18	1732.5	0.5	4.42	21.9%	0.29	3.09	2.04	83.0%	0.183	0.191	0	1.14	0
IRMF		19	1733	0.5	4.19	21.8%	0.27	3.10	2.00	86.0%	0.188	0.255	0	1.14	0
IRMFT		20	1733.5	0.5	4.09	22.1%	0.27	3.02	2.00	85.9%	0.190	0.315	0	1.14	0
CUT-OFFS		21	1734	0.5	4.13	22.2%	0.27	3.01	2.01	85.4%	0.189	0.291	0	1.14	0
PHICUT	0.16	22	1734.5	0.5	4.31	21.9%	0.28	3.08	2.02	84.5%	0.185	0.239	0	1.14	0
SWCUT	0.75	23	1735	0.5	4.60	21.5%	0.29	3.19	2.04	83.3%	0.179	0.238	0	1.14	0
VSHCUT	0.6	24	1735.5	0.5	4.94	20.4%	0.28	3.49	2.02	84.1%	0.172	0.323	0	1.14	0
SVWCUT	0.22	25	1736	0.5	5.29	18.5%	0.25	4.16	1.94	88.7%	0.164	0.471	0	1.14	0
Colors:		26	1736.5	0.5	5.63	16.6%	0.22	5.08	1.86	95.0%	0.157	0.574	0	1.14	0
		27	1737	0.5	5.94	15.3%	0.21	5.69	1.82	97.9%	0.152	0.622	0	1.14	0
		28	1737.5	0.5	6.20	15.5%	0.22	5.75	1.84	96.3%	0.149	0.760	0	1.14	0
		29	1738	0.5	6.34	15.9%	0.23	5.50	1.88	93.1%	0.148	0.912	0	1.14	0
		30	1738.5	0.5	6.30	17.0%	0.26	4.87	1.94	88.0%	0.149	0.884	0	1.14	0
		31	1739	0.5	6.10	18.6%	0.30	4.11	2.03	82.1%	0.153	0.692	0	1.14	0
		32	1739.5	0.5	5.86	20.3%	0.33	3.54	2.12	77.7%	0.157	0.436	0	1.14	0
		33	1740	0.5	5.70	21.5%	0.36	3.18	2.18	74.7%	0.161	0.249	0.03	1.14	185
		34	1740.5	0.5	5.63	22.2%	0.38	3.00	2.22	73.0%	0.162	0.183	0.03	1.14	205
		35	1741	0.5	5.62	22.1%	0.37	3.03	2.21	73.4%	0.162	0.188	0.03	1.14	200
		36	1741.5	0.5	5.71	21.0%	0.34	3.32	2.15	78.3%	0.160	0.190	0	1.14	0
		37	1742	0.5	5.93	19.5%	0.31	3.78	2.08	79.8%	0.156	0.170	0	1.14	0
		38	1742.5	0.5	6.28	18.2%	0.29	4.30	2.02	82.7%	0.151	0.148	0	1.14	0
		39	1743	0.5	6.77	17.5%	0.29	4.60	2.02	82.5%	0.144	0.154	0	1.14	0
		40	1743.5	0.5	7.31	18.0%	0.33	4.38	2.10	77.4%	0.139	0.177	0	1.14	0
		41	1744	0.5	7.76	18.8%	0.38	4.07	2.19	72.4%	0.136	0.173	0.03	1.14	176
		42	1744.5	0.5	7.98	18.9%	0.40	3.99	2.22	70.8%	0.134	0.156	0.03	1.14	189
		43	1745	0.5	7.89	19.2%	0.40	3.92	2.22	70.4%	0.135	0.183	0.03	1.14	193
		44	1745.5	0.5	7.60	18.6%	0.40	3.75	2.23	70.3%	0.138	0.210	0.03	1.14	199
		45	1746	0.5	7.32	19.7%	0.39	3.72	2.22	71.3%	0.141	0.193	0.03	1.14	193
		46	1746.5	0.5	7.11	19.5%	0.38	3.79	2.18	73.0%	0.142	0.173	0.03	1.14	179
		47	1747	0.5	6.96	19.5%	0.37	3.79	2.17	73.8%	0.144	0.147	0.03	1.14	174
		48	1747.5	0.5	6.87	19.8%	0.37	3.69	2.18	73.3%	0.145	0.127	0.03	1.14	181
		49	1748	0.5	6.74	19.6%	0.36	3.75	2.16	74.6%	0.146	0.171	0.02	1.14	170
		50	1748.5	0.5	6.47	18.5%	0.31	4.18	2.06	80.3%	0.148	0.246	0	1.14	0
		51	1749	0.5	6.08	17.0%	0.25	4.83	1.93	89.2%	0.152	0.253	0	1.14	0
		52	1749.5	0.5	5.65	17.0%	0.23	4.85	1.89	92.7%	0.158	0.216	0	1.14	0
		53	1750	0.5	5.31	18.8%	0.26	4.05	1.96	87.3%	0.164	0.181	0	1.14	0
		54	1750.5	0.5	5.08	20.6%	0.30	3.44	2.05	82.3%	0.169	0.153	0	1.14	0
		55	1751	0.5	4.92	20.9%	0.29	3.35	2.05	82.5%	0.172	0.140	0	1.14	0
		56	1751.5	0.5	4.81	20.5%	0.28	3.48	2.00	85.0%	0.174	0.149	0	1.14	0
		57	1752	0.5	4.73	20.8%	0.28	3.38	2.01	84.8%	0.176	0.160	0	1.14	0
		58	1752.5	0.5	4.59	21.1%	0.28	3.28	2.02	84.6%	0.179	0.145	0	1.14	0
		59	1753	0.5	4.40	20.1%	0.24	3.60	1.92	90.5%	0.182	0.133	0	1.14	0
		60	1753.5	0.5	4.22	18.9%	0.21	4.01	1.83	97.5%	0.184	0.143	0	1.14	0
		61	1754	0.5	4.10	19.5%	0.22	3.78	1.85	98.0%	0.188	0.155	0	1.14	0
		62	1754.5	0.5	4.02	21.1%	0.24	3.30	1.93	90.7%	0.191	0.167	0	1.14	0
		63	1755	0.5	3.89	21.8%	0.25	3.11	1.95	89.4%	0.195	0.153	0	1.14	0
		64	1755.5	0.5	3.67	22.0%	0.24	3.06	1.92	91.3%	0.201	0.117	0	1.14	0
		65	1756	0.5	3.42	22.5%	0.23	2.93	1.90	92.5%	0.208	0.103	0	1.14	0
		66	1756.5	0.5	3.21	23.0%	0.23	2.81	1.89	93.5%	0.215	0.126	0	1.14	0
		67	1757	0.5	3.04	23.0%	0.21	2.83	1.85	96.5%	0.224	0.150	0	1.14	0
		68	1757.5	0.5	2.88	22.9%	0.20	2.83	1.81	99.1%	0.227	0.149	0	1.14	0
		69	1758	0.5	2.74	23.5%	0.20	2.71	1.81	99.4%	0.227	0.145	0	1.14	0
		70	1758.5	0.5	2.61	24.1%	0.20	2.58	1.81	99.5%	0.227	0.147	0	1.14	0
		71	1759	0.5	2.50	24.5%	0.20	2.51	1.80	100.2%	0.227	0.148	0	1.14	0
		72	1759.5	0.5	2.41	25.3%	0.20	2.38	1.81	99.3%	0.224	0.156	0	1.14	0
		73	1760	0.5	2.34	26.3%	0.21	2.22	1.84	97.4%	0.225	0.154	0	1.14	0
		74	1760.5	0.5	2.27	26.7%	0.21	2.16	1.84	97.3%	0.225	0.148	0	1.14	0
		75	1761	0.5	2.23	26.2%	0.20	2.23	1.80	99.8%	0.228	0.144	0	1.14	0
		76	1761.5	0.5	2.22	25.5%	0.19	2.34	1.76	102.7%	0.228	0.136	0	1.14	0
		77	1762	0.5	2.24	25.0%	0.19	2.42	1.74	103.9%	0.229	0.136	0	1.14	0
		78	1762.5	0.5	2.32	24.8%	0.19	2.46	1.76	102.8%	0.225	0.145	0	1.14	0
		79	1763	0.5	2.48	24.9%	0.20	2.44	1.81	99.2%	0.227	0.159	0	1.14	0
		80	1763.5	0.5	2.73	24.8%	0.22	2.46	1.88	94.9%	0.225	0.174	0	1.14	0
		81	1764	0.5	3.06	23.8%	0.23	2.66	1.90	93.2%	0.224	0.179	0	1.14	0
		82	1764.5	0.5	3.47	21.9%	0.23	3.08	1.88	94.2%	0.206	0.193	0	1.14	0
		83	1765	0.5	4.00	19.9%	0.22	3.66	1.85	95.7%	0.190	0.261	0	1.14	0
		84	1765.5	0.5	4.65	18.3%	0.22	4.27	1.85	95.8%	0.175	0.432	0	1.14	0
		85	1766	0.5	5.53	16.8%	0.22	4.94	1.86	94.4%	0.159	0.661	0	1.14	0
		86	1766.5	0.5	6.74	15.3%	0.23	5.88	1.87	93.5%	0.143	0.892	0	1.14	0
		87	1767	0.5	8.14	13.7%	0.23	7.14	1.87	93.6%	0.129	1.101	0	1.14	0
		88	1767.5	0.5	9.50	12.7%	0.23	8.18	1.87	92.8%	0.118	1.226	0	1.14	0
		89	1768	0.5	10.64	12.2%	0.24	8.85	1.89	91.2%	0.11				



Operator: Dennis and Peggy Hodges
 Dir: Contr: Three Rivers Exploration, LLC
 API No.: 15-031-23047

7 7/8" PDC Bit
 Native Mud
 10' sampler

sh, gy to blk
 LS, gy to dk bk, v f sl, v f - sed, organic, part?
 sh, blk
 sh, dk gy

LS, lt gy, dms, foss, silty
 sh, g, gy, silty

sh, lt g, gy to dk gy, mottled

LS, o-w, slt gy
 sh, blk, Goot gas bubble
 LS, gy - bn to lt tn
 sh, dk gy to lt gy

Cherokee

1376(-238)
 Begin 3' samples @ 1390'

slt st, lt g, gy, lmy pr, f, NS
 slt st, bn, 20% patchy oil st, st + AA, 20% g, NS
 no free oil, ~ 10% sh, silty, vlg

U. Squirrel SS

SS, Dk Bn, v f - fgn, q, g, v, g, g, odor, ck, r, f, i, s, e, g, s
 1388-42, v, g, SFO, ck, r, f, i, s, e, g, s
 1392-44, v, g, SFO, ck, r, f, i, s, e, g, s
 1396-46, G, SFO, patchy v, calc, f, i, t, e,
 1400-48, f, r, g, SFO, Heavy oil
 Much oil in pit throughout
 sh, gy to dk gy, st, m, t, c

1388(-250)
 ~13' Thick
 -Pay Zone-
 Base SS
 1401(-263)

sh, dk gy, p, lty, silty, m, t, c

sh, dk gy

LS, Dk gy, silty, few foss
 sh, dk gy

L. Squirrel SS

SS, Dk gy, v f - f, s, i, mostly g, d, f, g, odor, mica, mostly g, d, sh, h, y, oil, r, i, n, s, i, n, g, + in bag, no oil in pit
 1431-43, G, d, show th, y, oil, r, i, n, s, i, n, g, + in bag
 1432-45, f, r, show H, y, oil, slight free oil

1431(-293)
 13' Thick
 -NOT Pay Zone-
 Base SS
 1444(-306)

sh, dk gy, v, silty, m, t, c, m, i, c, a, n, i, n, d, p, r, o, d, u, c, t, s, NS

sh, dk gy, p, lty, silty

coal
 LS, dk bn to gy, dms

LS, bk to dk gy, dms
 sh, bk
 slt, vlg, dms, NS

SS, lt gy to f, g, gy, v f g, t, c, s, silt, p, lty, limey, int, b, d, sh, lt gy + silt, vlg

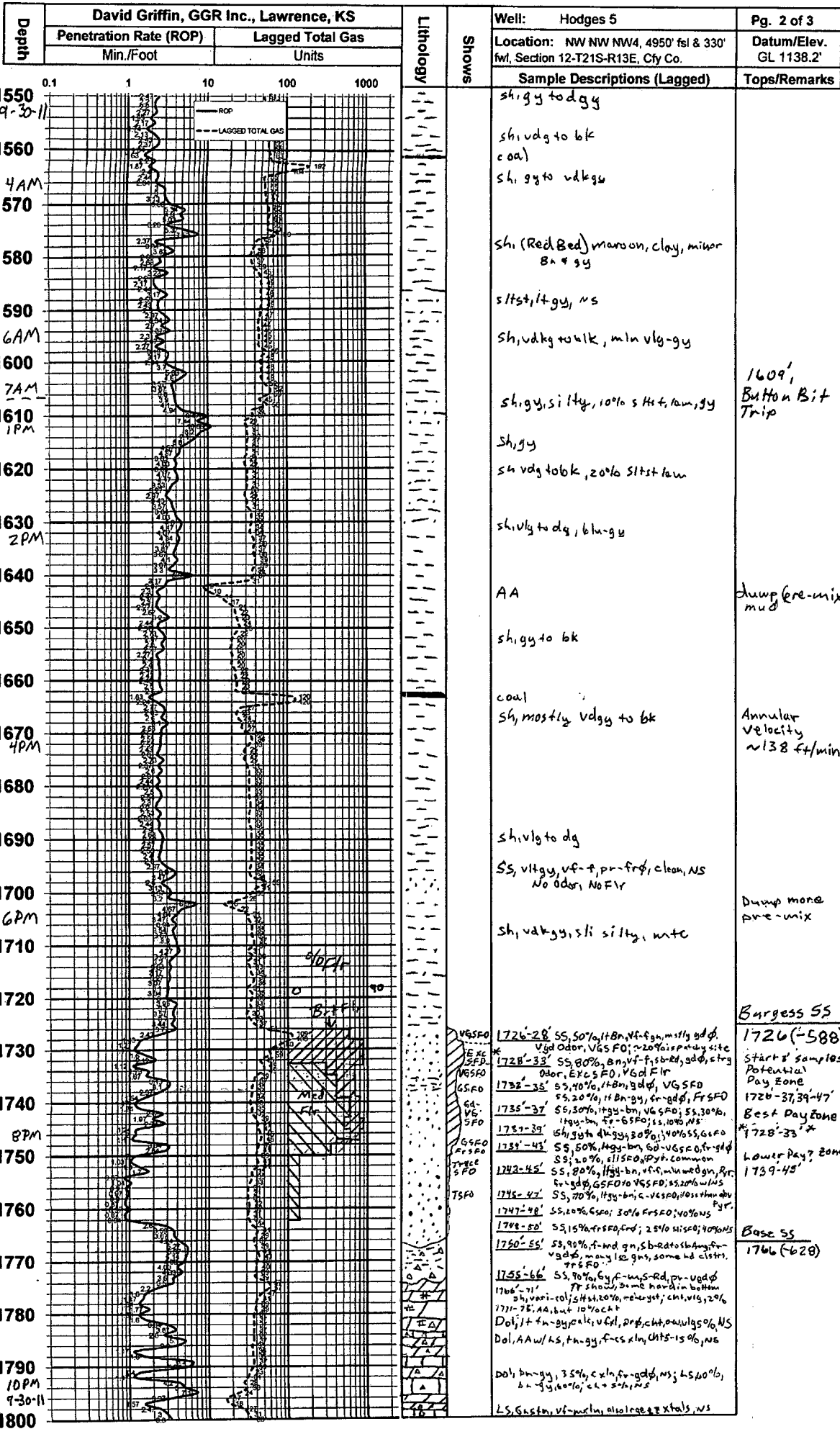
ss, vlg, v f - f, s, n, e, d, f, NS;
 coal

LS, gy, shly, dms
 sh, vlg - g

coal
 sh, gy, p, lty, calc, limey

start mud up
 1546'

coal



sh, gy to dg
 sh, vdg to bk
 coal
 sh, gy to vdkgy
 sh, (Red Bed) maroon, clay, minor
 sh + gy
 sltst, ltgy, NS
 sh, vdkgy to bk, mln vlg-gy
 sh, gy, silty, 10% sht, tan, gy
 sh, gy
 sh vdg to bk, 20% sltst tan
 sh, vlg to dg, bln-gy
 AA
 sh, gy to bk
 coal
 sh, mostly vdggy to bk
 sh, vlg to dg
 SS, vltgy, vlt, pr-fr, clean, NS
 No odor, No Flr
 sh, vdkgy, silty, mtc
 VG5FO 1726-28' SS, 50% ltbn, vlt-gn, mostly od φ
 Vgd Odor, VG5FO; ~20% sht primary site
 1728-33' SS, 80%, bn, vlt-f, sb-ed, gd φ, strg
 Odor, EX VG5FO, Vgd Flr
 1732-35' SS, 40%, ltbn, gd φ, VG5FO
 1735-37' SS, 30%, ltbn, bn, vlt-gn, VG5FO, SS, 30%,
 ltgy, bn, fr-G5FO; s. 10% NS
 1737-39' sh, gy to dg, 30% ltbn, 10% SS, G5FO
 1739-43' SS, 50%, ltgy, bn, gd-VG5FO, fr-gd φ
 SS; 20%, sltst, ltbn, vlt-gn, common
 1742-45' SS, 80%, ltgy, bn, vlt-gn, vlt-gn, Rr,
 fr-gd φ, G5FO to VG5FO; ss, 20% w/NS
 1745-47' SS, 70%, ltgy, bn, c-VG5FO; 10% sht, vlt-gn
 1747-48' SS, 20% G5FO; 30% fr-G5FO; 10% NS
 1748-50' SS, 15% fr-G5FO; 25% sltst; 10% NS
 1750-55' SS, 90%, fr-m, gn, sb-ed to sh, vlt-gn, fr-
 vgd φ, many lgt gns, some wd cisttr.
 fr-G5FO
 1755-66' SS, 90%, gy, f-m, vlt-gn, pr-vgd φ
 1766-71' fr show, some hard in bottom
 sh, vari-col; sltst, 20%, mlt-gy; chl, vlt, 20%
 1771-76' AA, but 10% vlt
 Dol, 1 ft fr-bn, calc, vlt, pr, chl, 10% vlt, 5% NS
 Dol, AA w/ls, th-gy, fr-cs, xln, chl, 15% NS
 Dol, bn-gy, 35%, c xln, fr-gd φ, NS; 45% NS,
 slt-gy, 10%; chl + sht, 10%
 LS, G5FO, vlt-m, also trace xln, NS

1609'
 Button Bit
 Trip
 Dump (pre-mix)
 mud
 Annular
 Velocity
 ~138 ft/min.
 Dump more
 pre-mix
 Burgess SS
 1726 (-588)
 Start's samples
 Potential
 Pay Zone
 1726-37, 39-47'
 Best Pay Zone
 #1728-33'
 Lower Pay Zone
 1739-45'
 Base SS
 1766 (-628)

Depth	David Griffin, GGR Inc., Lawrence, KS		Lithology	Shows	Well: Hodges 5	Pg. 3 of 3
	Penetration Rate (ROP)	Lagged Total Gas			Location: NW NW NW4, 4950' fsl & 330' fwl, Section 12-T21S-R13E, Cfy Co.	Datum/Elev. GL 1138.2'
	Min./Foot	Units			Sample Descriptions (Lagged)	Tops/Remarks
1800						
9-30-11					<p>Dol, 40% to 50%, vt-f x m, fr ug φ pt 1 x φ, 10% lg gte ktlk Ls, Gstm, 50%, vt-m x m, fr φ, NS</p>	
1810					<p>Ls + Dol, AA, NS, Poor Sample</p>	
1820					<p>Mostly Dol, Poor Sample</p>	RTD
10-1-11						1827(-689)
1830					<p>Open-Hole Logged By Osage Wireline</p>	
1840						
1850						
1860						
1870						
1880						
1890						
1900						
1910						
1920						
1930						
1940						
1950						
1960						
1970						
1980						
1990						
2000						
2010						
2020						
2030						
2040						
2050						

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

January 30, 2012

Dennis Hodges
Hodges, Dennis D. and/or Peggy D.
1827 Rd Z
Reading, KS 66868

Re: ACO-1
API 15-031-23047-00-00
Hodges 5
NW/4 Sec.12-21S-13E
Coffey County, Kansas

Dear Dennis Hodges:

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 9/26/2011 and the ACO-1 was received on January 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