

JUN 10 2010

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

CONSERVATION DIVISION
WICHITA, KS

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33640
Name: Haas Petroleum, LLC
Address 1: 800 W. 47th, Suite # 716
Address 2: _____
City: Kansas City State: MO Zip: 64112 + _____
Contact Person: Mark Haas
Phone: (816) 531-5922
CONTRACTOR: License # 33557
Name: Skyy Drilling, LLC
Wellsite Geologist: Griffin Geological Resources, Inc.
Purchaser: Plains Marketing, LP

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 #: _____
February 3, 2010 February 14, 2010 February 15, 2010
Spud Date or Date Reached TD Completion Date or
Recompletion Date

API No. 15 - 031-22588-00-00
Spot Description: _____
S2 SW NW NW Sec. 2 Twp. 22 S. R. 13 East West
4,250 Feet from North / South Line of Section
4,950 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Coffey
Lease Name: Wilson Well #: 3 HP
Field Name: Hatch South
Producing Formation: _____
Elevation: Ground: 1138 Kelly Bushing: _____
Total Depth: 2213' Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 40 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 0'
feet depth to: 41' w/ 35 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: _____ ppm Fluid volume: _____ bbls
Dewatering method used: _____
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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: [Signature]
Title: Operator Date: 6/8/10

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: [Signature] Date: 6/15/10

Operator Name: Haas Petroleum, LLC Lease Name: Wilson Well #: 3 HP
 Sec. 2 Twp. 22 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 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8		40'	Class A	35	
Longstring	6 3/4	4 1/2		2214'	60/40 Poz	175	

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	Perforated from 2203.3 to 2205.3	RECEIVED KANSAS CORPORATION COMMISSION JUN 10 2010 CONSERVATION DIVISION WICHITA KS	

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbls.	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 <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
---	---	--

Skyy Drilling, L.L.C.
800 W. 47th Street, Suite # 716
Kansas City, Missouri 64112
Office (816) 531-5922
Fax (816) 753-0140

Company: Haas Petroleum, LLC
800 W. 47th, Suite # 716
Kansas City, Missouri 64112

Lease: Wilson – Well # 3 HP
County: Coffey
Spot: S2 SW NW NW Sec 2, Twp 23, SR 13 East
Spud Date: February 3, 2010
API: 14-031-22520-00-00
TD: 2213'

2/3/10: Moved in Rig #3, rigged up, pump water. Drilled rat hole. Spud 12 ¼ surface hole. Drilled from 0' to 40' TD. At TD cir hole clean. Tripped out 12 ¼ bit. Rigged and ran 40' of 8 5/8 casing. Rig up cementers & cemented with 35 sacks cement.

2/4/10: Start back up. Trip in hole with 6 ¾ PDC bit. Drilled out approx 8' cement, drilled from 40' to 141'. Work on pump. Shut down. Wait on parts.

2/11/10: Repair pump, start up. Trip back in hole. Drilled from 141' to 1287'. Start mud up @ 1250'.

2/12/10: Drilled from 1287' to 1443'. Top of squirrel san @ 1441'. At 1443' trip out 6 ¾ bit. Pick up core barrel. Trip in hole with core barrel, cored from 1443' to 1483'. Pulled core barrel recovered 39' of core sample. Lay down barrel trip back in hole with 6 ¾ button bit. Ream core slot. Back to drilling @ 7:30 AM 2/13/10.

2/13/10: Drilled from 1484' to 1976'. Top Mississippi Lime @ 1814'.

2/14/10: Drilled from 1976' to 2213' TD. At TD 2213' cir hole clean. Rig & lay down drill pipe & collars. Rig up loggers & log hole. Shut down.

2/15/10: Start up. Rig & ran 2205' of 4 ½ casing. Tag good bottom. Pick up casing 2' off bottom. Rig up cementers & cement with 175 sacks cement.

Total Footage 2213' @ \$12.00 Per Foot:	\$26,446.00
Total Rig Time 28 Hours @ \$300.00 Per Hour:	\$ 8,400.00
40' of 8 5/8 Casing @ \$7.50 Per Foot:	\$ 300.00

TOTAL: **\$35,256.00**

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CONSOLIDATED
Oil Well Services, LLC



ENTERED

TICKET NUMBER 23966

LOCATION EURKA

FOREMAN Rick Ledford

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
2-3-10	3451	Wilson #3HP				Coffey
CUSTOMER Haas Petroleum LLC			5477 ORLE			
MAILING ADDRESS 800 west 47th st 409						
CITY Kansas City	STATE Mo	ZIP CODE 64112	TRUCK #	DRIVER	TRUCK #	DRIVER
			463	Shannon		
			515	Chris		

JOB TYPE surface HOLE SIZE 12 1/4 HOLE DEPTH 42' CASING SIZE & WEIGHT 8 5/8"
 CASING DEPTH 40' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15# SLURRY VOL _____ WATER gal/sk 6.5 CEMENT LEFT in CASING 5'
 DISPLACEMENT 2.5 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting- Rig up to 8 5/8" casing. Break circulation w/ 10 bbl fresh water. Mixed 35 ses class "A" cement w/ 270 coccl2 + 270 gel @ 15# per gal. Displace w/ 2.5 bbls fresh water. Shut casing in w/ good cement returns to surface. Job complete. Rig down.

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54013	1	PUMP CHARGE	680.00	680.00
5406	30	MILEAGE	3.45	103.50
11045	35 ses	class "A" cement	12.70	444.50
1102	65 #	270 coccl2	.71	46.15
1118A	65 #	270 gel	.16	10.40
5407		tan mileage, bulk tax	m/c	296.00
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JUN 10 2010				
CONSERVATION DIVISION WICHITA, KS				
			subtotal	1580.55
			SALES TAX	26.56
			ESTIMATED TOTAL	1607.11

Ravin 3737

232935

AUTHORIZATION called by Rig

TITLE _____

DATE _____



CONSOLIDATED
Oil Well Services, LLC



ENTERED

TICKET NUMBER 23969

LOCATION EUREKA

FOREMAN Rick Ledford

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
2-15-10	3451	Wilson # 3 H.P.				Coffey
CUSTOMER Haas Petroleum LLC			TRUCK # DRIVER TRUCK # DRIVER			
MAILING ADDRESS 800 west 17th ste 409						
CITY STATE ZIP CODE Kansas City Mo 64112			515 515			

JOB TYPE <u>logs</u>	HOLE SIZE <u>6 3/4"</u>	HOLE DEPTH <u>2214'</u>	CASING SIZE & WEIGHT <u>4 1/2" 10.5"</u>
CASING DEPTH <u>225'</u>	DRILL PIPE _____	TUBING _____	OTHER _____
SLURRY WEIGHT <u>13.6"</u>	SLURRY VOL _____	WATER gal/sk <u>7.0</u>	CEMENT LEFT in CASING <u>11' 5J</u>
DISPLACEMENT <u>35.7 bbls</u>	DISPLACEMENT PSI <u>600</u>	PSI <u>1000</u>	RATE _____

REMARKS: Safety meeting. Rig up to 4 1/2" casing. Break circulation w/ 10 bbl fresh water. Mixed 125 sacs 60/40 Permox cement w/ 5# Ret-sol @ 4.2 gal, 170 cacl2 + 1/2" phoscol @ 13.6" @ 13.6" @ 13.6" shut down, release 4 1/2" plug. Displace w/ 35.7 bbls fresh water. Final pump pressure 600 PSI. Bump plug to 1000 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	870.00	870.00
5406	30	MILEAGE	3.45	103.50
1131	125 sacs	60/40 Permox cement	10.20	1272.50
1100	875"	5# Ret-sol @ 4.2	.39	341.25
1117A	600"	4 1/2" cacl2	.16	96.00
1102	150"	170 cacl2	.71	106.50
1107A	85"	1/2" phoscol @ 13.6"	1.08	91.80
5407	7.53	ton mileage bulk truck	m/c	296.00
4404	1	4 1/2" top rubber plug	43.00	43.00
4310	1	4 1/2" baffle plate	25.00	25.00
			Subtotal	3945.55
			SALES TAX	136.64
			ESTIMATED TOTAL	3982.09

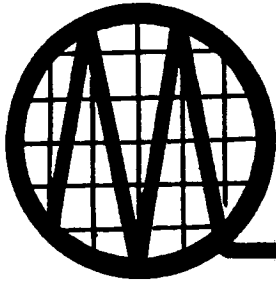
Ravin 3737

23969

AUTHORIZATION Witnessed by An Hamel

TITLE Toolpusher

DATE _____



INVOICE
MIDWEST SURVEYS
 LOGGING • PERFORATING • CONSULTING SERVICES
 P. O. Box 68
 Osawatomie, KS 66064
 913/755-2128

OUR NO.
22258

SOLD TO
 Haas Petroleum, LLC
 800 W. 47th St., Ste. 409
 Kansas City, MO 64112

PAID TO
 Wilson Lease # 3 HP
 Coffey County, Ks

**PLEASE USE THIS INVOICE FOR PAYMENT
 NO MONTHLY STATEMENTS RENDERED**

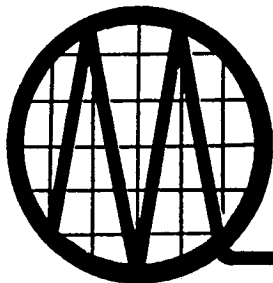
CUSTOMER ORDER NO.	SALESMAN	DATE SHIPPED	SHIPPED VIA	INVOICE DATE	TERMS
Mark Haas		5/05/10			
QUANTITY	DESCRIPTION			PRICE	AMOUNT
1 ea	Gamma Ray / Neutron / CCL				\$ 650.00
7 ea	3 3/8" DP 23 Gram Tungsten Expendable Casing Gun 120° Phase Three (3) Perforations Per Foot				
	Minimum Charge -----				\$ 900.00
	Portable Mast Unit				\$ 75.00
	Trip Charge				\$ 125.00
	Perforated at: 2203.3 to 2205.3.				
	NET DUE UPON RECEIPT			TOTAL	\$ 1750.00
	Late Charge of 1-1/2% per Month on Accounts over 30 Days.				

White-Customer Canary-Accounting

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MIDWEST SURVEYS
LOGGING • PERFORATING • M.I.T. SERVICES
P. O. Box 68
Osawatomie, KS 66064
913 / 755-2128

22258

Date 5/05/2010

TERMS AND CONDITIONS: Midwest Surveys is hereby instructed to deliver the equipment or perform the services ordered hereon or as verbally directed, under the terms and conditions printed on the reverse side of this order, which I have read and understand and which I accept as Customer or as Customer's Authorized Agent.

Service and/or Equipment Ordered Gamma Ray / Neutron / CCL + Perforate

SIGN BEFORE COMMENCEMENT OF WORK

Customer's Name Haas Petroleum LLC By _____
Customer's Authorized Representative

Charge to Haas Petroleum LLC Customer's Order No Mark Haas

Mailing Address _____

Well or Job Name and Number Wilson # 3-HP County Coffey State Kansas

QUANTITY	DESCRIPTION OF SERVICE OR MATERIAL	PRICE
1 ea	Gamma Ray / Neutron / CCL	\$ 650.00
7 ea	3 3/8" DP 23 Gran Tungsten Expendable Casing Gun	
	120° Phase Three (3) Perforations Per Foot	
	Minimum Charge _____	900.00
	Portable Mast Unit	\$ 75.00
	Trip Charge	\$ 125.00
	Perforated At 2203.3 To 2205.3	
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	CONSERVATION DIVISION WICHITA, KS	

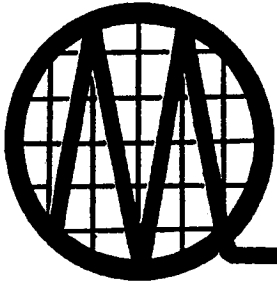
Total \$ 1,750.00

The above described service and/or material has been received and are hereby accepted and approved for payment.

Customer's Name Haas Petroleum LLC

Served by: S. Winderich

By _____ Date 5/05/2010
Customer's Authorized Representative



MIDWEST SURVEYS

LOGGING • PERFORATING • CONSULTING • M.I.T. SERVICES

P. O. Box 68 • Osawatomie, KS 66064
Phone 913-755-2128 • Fax 913-755-6533

Perforation Record

Company: _____ Haas Petroleum, LLC

Lease/Field: _____ Wilson Lease

Well: _____ # 3 HP

County, State: _____ Coffey County, Kansas

Service Order #: _____ 22258

Purchase Order #: _____ N/A

Date: _____ 5/5/2010

Perforated @: _____ 2203.3 to 2205.3

Type of Jet, Gun
or Charge _____ 3 3/8" DP 23 Gram Tungsten Expendable Casing Gun

Number of Jets,
Guns or Charges: _____ Seven (7)

Casing Size: _____ 4 1/2"

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Griffin Geological Resources, Inc.

David B. Griffin, RG, President
1502 W. 27th Terrace
Lawrence, Kansas 66046

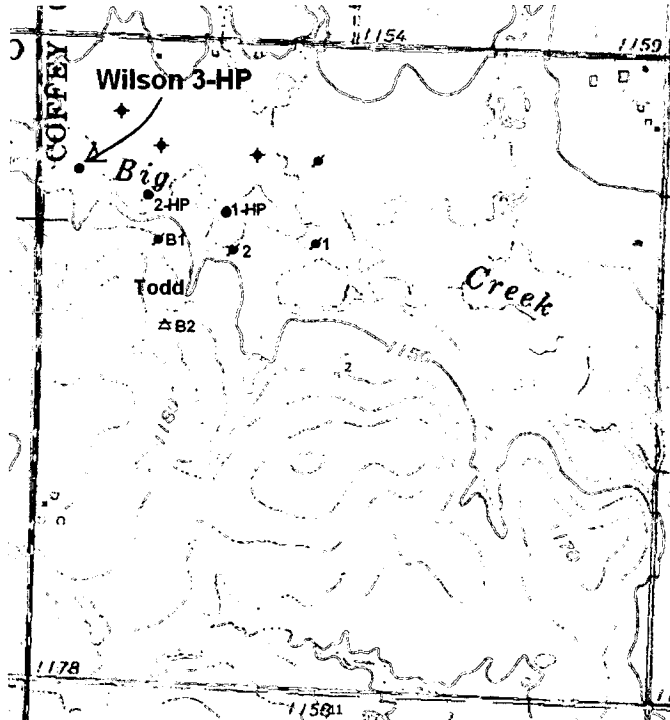
Ph. (785) 842-3665
Cell (785) 766-0099
Fax (785) 856-3935

February 17, 2010

Geological Wellsite Report

For: Wilson 3-HP
SW SE NW NW/4
4250' fsl, 4950' fel
Section 2, T22S – R13E
Coffey County, Kansas
Lat/Long: N38.16789
W-95.95761
API: 15-031-22520-00-00
Datum: KB 1153'
RTD: 2213', KB
Field: South Hatch
Status: 4½' Casing Set

Operator: Haas Petroleum, LLC
800 W. 47th St, Suite 716
Kansas City, MO 64112
License: 33640
Mark Haas, President



The following report on the subject well includes well information and detailed geological data based on microscopic examination of rotary drill cuttings from 1400' to a rotary total depth of 2213' below kelly bushing (KB) reached on February 13, 2010. The Simpson sandstone is the primary objective, whereas Burgess and Squirrel sandstones are secondary objectives. This report includes a sample log with drilling time, sample cuttings description, total gas measurements, geological tops and Middle Squirrel sandstone saltwater calculations. Subsea corrected geological sample tops were based on a KB datum elevation of 1153' with a GL elevation of 1146' above sea level obtained from a relative survey to Todd 2 (GL 1146').

Drilling Contr.: Sky Drilling, Rig #3
Yates Center, Kansas, 66865
KS Operator License No.: 33557
Owner: Mark Haas
Tool Pusher: Ben Harrell

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Commenced Drlg: Spud February 12, 2010, 12¼" Bit, Set 40' 8⅝" Casing

Completed Drlg: February 15, 2010, Set and Cemented 4½" on Feb. 16, 2010

Drilling Notes: 4½" Drill Pipe, One 5-blade PDC Bit, from 40' to 1445',
Cored Squirrel Sandstone from 1445'-1485', full recovery
One button bit from 1445' to 2213'

Mud Program: Native fresh water mud to 1400', fresh water chemical gel mud from 1400' to TD,

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

Geological Supervision:
David Griffin, RG, President of GGR, Inc., provided wellsite supervision from Feb. 12 thru Feb. 15, 2010. Samples microscopically examined from 1400' to 2213'.

Logs, Gas Detection, Cores, DST's:
Compensated density and sidewall neutron, dual Induction, and micro resistivity open-hole logs were ran by Osage Wireline. MP 2300 total gas detection instrumentation was in use. The middle Squirrel sandstone was cored from 1445'-1485'. No drill stem tests were obtained for this well.

Geological Datums:

Haas Petroleum, LLC						Struc.Comparison	
Wilson 3-HP						Haas Petro LLC	
S/2 SW NW NW4						Wilson 2-HP	
Sec. 2-T22S-R13E						SW SE NW NW4	
Geological Tops						Sec. 2-T22S-R13E	
Zones of Interest	Sample Tops		STRC COMP	Open-Hole Log Tops		Sample Tops	
	KB Elev 1153			KB Elev 1153		KB Elev 1148	
	Depth	Subsea		Depth	Subsea	Depth	Subsea
Douglas SS	na			625	528	na	
Base Kansas City Group	na			1142	11	na	
Cherokee Group	1427	-274	-1	1431	-278	1421	-273
U. Squirrel SS,	absent			absent		absent	
Base SS	absent			absent		absent	
M. Squirrel SS	1443	-290	-2	1446	-293	1436	-288
Cored 1445-1485, Base SS	1489	-336		1492	-339	1470	-322
L Squirrel SS,	1491	-338	+6	1494	-341	1492	-344
Base SS	1528	-375	0	1531	-378	1523	-375
V-Shale	1547	-394	-6	1550	-397	1536	-388
Burgess SS,	absent			absent		absent	
Base SS	absent			absent		absent	
Mississippian LS	1813	-660	-3	1818	-665	1805	-657
Osage Chert Zone	1935	-782	-7	1941	-788	1923	-775
Northview Shale	2094	-941	-4	2099	-946	2085	-937
Kinderhook Shale	2142	-989	-6	2146	-993	2131	-983
Simpson SS	2210	-1057	-7	2213	-1060	2198	-1050
Total Depth	2213	-1060		2216	-1063	2202	-1054

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Structural Comparisons:

Structural comparison of subsea geological log tops for Wilson 3-HP indicates that the top of the Simpson sandstone primary objective is 7 feet low and the Middle Squirrel sandstone is 2 feet low to Wilson 2-HP lying approximately 660' to the east.

Description of Middle Squirrel Sandstone

Samples Description

1443' to 1445', KB

Sandstone, 50%, light brown, very fine grained, silty, fair to good porosity, good odor, **good show of brown free oil**, puts fairly good oil scum on pit; siltstone, 50%, greenish gray. Total gas readings peaked at 122 units. Decision was made to run core barrel.

Core Description

1445.0' to 1446.0', KB

Sandstone, 20%, brown, very fine grained, silty, micaceous, fair to good porosity, **fair to good show of bleeding brown oil**, wavy and ripple laminated; Siltstone, 80%, greenish-gray, no show in siltstone.

1446.0' to 1447.1', KB

Sandstone, 70%, brown, very fine grained, minor silt, micaceous, good porosity, **fair to good show of bleeding brown oil**, ripple laminated; Siltstone, 30%, greenish-gray, no show in siltstone.

1447.1' to 1447.6', KB

Sandstone, 10%, brown, very fine grained, silty, micaceous, fair to good porosity, **fair to good show of bleeding brown oil**, wavy laminated; Siltstone, 90%, greenish-gray, no show in siltstone.

1447.6' to 1450.0', KB

Sandstone, 95%, brown, very fine to fine grained, minor silt, mica, good to very good porosity, **good show of bleeding brown oil**, massive bedded; Siltstone, 5%, greenish-gray, no show in siltstone.

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1450.0' to 1452.0', KB

Sandstone, 99%, dark brown, very fine to fine grained, minor silt and mica good to very good porosity, **good show of bleeding heavy black oil**, massive bedded.

1452.0' to 1455.0', KB

Sandstone, 99%, dark brown, very fine to fine grained, minor silt and mica, good to very good porosity, **fair show of bleeding heavy black oil**, free oil show decreases with depth, good show of residual oil, massive bedded.

1455.0' to 1458.7', KB

Sandstone, 99%, dark gray-brown, very fine to fine grained, minor silt and mica, good to very good porosity, **no bleeding observed in core**, possible that core bled out before removal from core barrel, good show of residual oil, massive bedded.

1458.7' to 1462.0', KB

Sandstone, 99%, dark gray, very fine to fine grained, minor silt and mica, good to very good porosity, **no bleeding observed in core**, fair to good show of residual oil, faint inclined cross-bedding.

1462.0' to 1463.0', KB

Shale with minor siltstone, 100%, green-gray, horizontal laminated, no show.

1463.0' to 1485.0', KB

Sandstone, 99%+, dark gray, very fine to fine grained, minor silt, minor mica, good to very good porosity, **no bleeding observed in core**, fair to good show of residual oil, massive bedded.

Saltwater Calculations:

Based on open-hole log readings, saltwater (SW) calculations were estimated using the Archie Equation and a formation water resistivity (RW) of 0.15. Middle Squirrel SS was flagged as pay zone from 1447' to 1458' using the approximate cutoffs: average of neutron and density porosity (ϕ) 17%, SW 65%, shaliness (VSH) 0.735 and bulk volume water (BVW) 0.14. In the flagged pay zone, porosity ranges from 17.3% to 21.2% and the deep induction resistivity (RT) ranges from 6.28 to 9.28 ohm-m for SW calculations that range from 51.7% to 64.6%.

Pay Zone Oil-In-Place Estimation:

Oil-in-place was estimated at 42,098 stock tank barrels in the flagged pay zone using a 440' well spacing. A 10% arbitrary recovery of the oil in place would result in 4,210 barrels produced. The SW calculations and log measurements are provided on the attached spreadsheet for reference.

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Sample Description of Simpson Sandstone

2213' (5 min), KB CFS Samples

Sandstone, 25% of sample, very fine to fine grained quartz; 15%, nearly clear to very light gray, glassy, recrystallized, poor porosity, no show; 10%, very light gray, very fine grained, poor to fair porosity, no show, no odor, and no fluorescence. No gas readings above background. Zone was too near TD to appear on the open-hole log.

2213' (10 min), KB CFS Samples

Sandstone, 40% of sample, very fine to fine grained quartz, 30%, nearly clear to very light gray, glassy, recrystallized, poor porosity, no show; 8%, very light gray, fair porosity, no show; 2% light brown clusters, fair porosity, slight odor, fair show of brown oil, fair rainbow of oil droplets on rinse water, tar free, no oil scum visible on sample bag, 2-5% bright fluorescence. No gas readings above background. Zone was too near TD to appear on log. This zone appears to be the top of the pay zone and should be tested.

2213' (15 min), KB CFS Samples

Sandstone, 60% of sample, very fine to fine grained quartz; 35%, nearly clear to very light gray, glassy, recrystallized, poor porosity, no show; 10%, very light gray, fair porosity, no show; 10% light brown clusters, fair to good porosity, good odor, good show of brown oil in cluster porosity, rainbow of oil droplets on rinse water, tar free; 5%, loose grains of mostly fine grained quartz, possible oil stain but grains do not float, 10% bright fluorescence, slight oil residue on side of sample bag. No gas readings above background. Zone was too near TD to be logged. This zone has good potential and should be tested.

2213' (20 and 25 min), KB CFS Samples

Same as above, 10%, light brown, fair to good porosity, good odor, good show of brown oil, 15% bright fluorescence, No gas readings above background. Zone was too near TD to be logged. This zone has good potential and should be tested.

Summary:

Wilson 3-HP continued to have a thick development of Middle Squirrel sandstone that contained a good show of brown and black oil with fair to good bleeding from 1443' to about 1455', KB Samples. Based on SW calculations, a possible pay zone exists from 1447' to 1458', KB Open-hole log. Note that open-hole log tops were 3' lower than the sample tops. The well also had a fair to good show of brown oil in the Simpson sandstone from 2210' to 2213', KB Samples. The Upper Squirrel and Burgess sandstone were absent. The top of the Simpson sandstone in Wilson 3-HP was structurally 7' low to Wilson 2-HP lying approximately 660' to the east, when comparing sample tops. Based on the fair to good shows of oil in the Middle Squirrel and Simpson sandstones, the operator set and cemented 4 $\frac{1}{2}$ " production casing.

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Recommendations:

Initially, the Simpson sandstone should be tested through open-hole by milling out the float shoe and cleaning out the hole to RTD and swab tested naturally. If low fluid volume is encountered, the well could be deepened no more than another foot and swab tested. A study of the field suggests the oil-water transition zone begins at approximately -1060 which is at RTD (2213') in this well. It may also require a mud-acid treatment to open up permeability to the well bore. It appears that the Middle Squirrel sandstone should be productive and it is best to perforate from 1447' to 1452', KB, Open-hole log, frac'd and tested. A cased hole log should be ran to aid in picking perforations in the Middle Squirrel sandstone and comparing structural tops.

Respectfully Submitted,

A circular stamp is partially visible behind the signature. The text within the stamp is mostly illegible but appears to contain the name 'David B. Griffin' and some other details.

David B. Griffin, Licensed RG, President
Griffin Geological Resources, Inc.

Attachments: Sample Log with Drilling Time and Total Gas Measurements, SW calculations for the Middle Squirrel sandstone

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Wilson 3-HP
Wellsite Geology Report
By David Griffin, RG
February 17, 2010

Depth	Lithology	Shows	By David Griffin, RG, Lawrence, KS				Well No: <u>Wilson 3-HP</u>	Pg. 1 of 4
			Penetration Rate		Total Gas		Location: <u>S2 SWNW NW4, 4250' fsl, 4950' fcl, sec 2, T 22S-R 13E, CO, Co. Ks</u>	Datum/Elev. <u>KB/153</u>
			Min./Foot		Units		Sample Descriptions	Tops/Remarks
			0 5 10 15	0 50 100 150				
1400 2-12-10						Oper: Haus Petr, LLC Contr: Sky Drilling		
NOON					MP 2300 Total GAS Detector	LS, gg-dkgy, shly ptly sh, blk, ptly coal, v. carb. LS, gg-ltgy, v. f-ryln, min. bn LS, dkbn-sy-ans, ns shdkgy-bn slt, gy	Cherokee 1427(-274)	
start coring 7:40P						LS, ltgy, sli sdg, mica, prdf, triss, bn, v. f on, GSO, GP, Sli odr.	Mid. Sg. SS. 1443(-290)	
1450 ↑ Free oil No Fr. oil						Core Descr. 1445.0 - 1446.0; 20% SS, Bn, vfgn, fr-gdφ, Fr-gd Bld bn oil, P to h Zincl, 80% gn-gd, silt 1446.0 - 1447.1; 70% SS, Bn, v. f, gdp, Fr-gd Bled bn oil, wavy ripple beds, 30% silt, gn-gy	to 1489(-336) ~ 46'	
					dis connect 50' STOP 10' PRODUCE	1447.1 - 1447.6; 10% SS, Bn, v. f, fr φ, fr bled of bn oil, wavy bedded, 90% silt, AA		
					Full Recovery!	1447.6 - 1450.0; 95% SS, Bn, v. f-gn, gd-vgdφ gd bled bn oil, mass bed; 5% silt, AA		
					39' 3"	1450.0 - 1452.0; 99% SS, DKBN, gd-gdφ, good bled BK (heavy) oil, massive		
					Bottom core drilling Ahead	1452.0 - 1455.0; 99% SS, DKgy-bn, gdφ, fr bled hv oil	Bled; 1462-63, sh, gy	
2-13-10					Bottom core drilling Ahead	1455.0 - 1462; 99% SS, gy, gdφ, gdsh-residual, no 1463.0 - 1465; sh, gy, v. f, silt, gy to gn-gy 1465.0 - 1465.0; 99% SS, gy, v. f, gy, A.A, NFOR SS, 70% dkgy-bn, v. f, gy, gdφ, F-GSHSD	L. Sg. SS 1491(-338) to 1528(-375) ~ 37'	
1500					Drillers ROP	AA, many loose gas, fr-gd loose oil in bag oil is sticky, prob. mostly residual fr-gd rinse oil		
						AA, 80% SS, dkgy-bn, gd-vgdφ, loose gas small clst, v. f-gn-gd φ oil progressively less connected fr-gd rinse oil		
						AA, 90% SS, Fr-gd S Husky oil, fr-gdφ Fr-gd loose oil rinser		
						AA, 90% SS, gd-vgdφ, mostly lse gas & v. sm clst, fr-gd SHVD, fr loose oil in bag & rinser, oil droplets less disconnected		
1550						sh, silty, dkgy coal LS, vdkgy, micrite sh, ltgy-gg, m+c LS, ltgy sh, blk, carb. SS, v. gn, ns silt, ltgy, csc, sdg, m+c w/ sh silty gy	Andmore HS-1544 V-shale 1547(-394)	
						AA		
						LS, tan. d. ns		
						Coal sh, ltgy, silty, silt lam, tan-gy, sid.		
						sh, ltgy-gg		
1600						AA		
						Coal silt, ltgy w/ 20% ss lam, v. fg, ns		
						sh, ltgy-dkgy, silt lam, carb		
						sh, dkgy-vdkggy		
2-13-10 2:40P 16:50						Coal sh, gy-vdkggy sh, ltgy, dkgy, gn-gy		

Depth	Lithology	Shows	By David Griffin, RG, Lawrence, KS				Well No: <i>Wilson 3-HP</i>	Pg. 3 of 4
			Penetration Rate		Total Gas		Location: <i>S2SWNW4, 4250' fsl, 4950' fel, Sec. 2, T22S-R13E, Col. Co., KS</i>	Datum/Elev. <i>KB 1153</i>
			Min./Foot		Units		Sample Descriptions	Tops/Remarks
			0 5 10 15	0 50 100 150				
1900						<i>10' Sample</i> <i>vis BS</i> <i>cut 9, 5</i>	<i>LS, Bu to Gy-Ba, f-m xln, py, ns</i> <i>cht 20%, wh to gy</i>	
						<i>75 Bit RPM</i> <i>10M hr</i>	<i>LS, gy-bn, m-cs xln, gn sth, trglc</i> <i>ns, pr φ</i>	
						<i>40 B</i> <i>75 K</i>	<i>cht, 70%, off-wh, shrp, dol, bn,</i> <i>f-m xln, ptly sucr, gd φ, ns</i> <i>fr-gd v φ</i>	<i>Osage Zone</i> <i>1935 (-782)</i>
1950							<i>cht, 90%, off-wh to wh, shp, min</i> <i>tr φ, 10% dol, AA, ns</i>	
							<i>cht, 90%, off-wh to gy, shp, ns</i> <i>dol, 10% ns bn</i>	
							<i>AA</i>	
							<i>cht, 70%, gy, dol, gy-bn, 30%, ns</i>	
							<i>cht, 50%, gy, dol, gy-bn 50%, ns</i>	
2000							<i>cht, 70%, off-wh to tu, dol, 30%, AA</i>	
							<i>sh, lt gy, dolo, cht 50%</i>	
							<i>cht, 50%, dol, 40%, sh 10%? lt gy</i>	
							<i>Dol, vlt gy, m xln, pr-fr φ, ns</i>	
							<i>dol, 50%, cht, 50%</i>	
							<i>LS, gy-tan, dms, v f xln to micr.</i> <i>cht, wh to tu, 10%</i>	
2050							<i>LS, lt gy-tu, v f-m xln, pr φ</i> <i>cht 10%</i>	
							<i>LS, gy, ptly dolo</i>	
							<i>Dol, BA, f xln, fr ix φ, ns</i>	
							<i>LS, gy, dms</i>	
							<i>sh, gy to gn-gy, LS stks</i> <i>LS, gy, v f xln</i>	<i>Northview Sh</i> <i>2094 (-941)</i>
2100							<i>sh, lt gy, gy, gn-gy</i>	
							<i>LS, gy-lt gy, f-m xln, pr φ, ns</i>	<i>Compton</i> <i>LS</i>
							<i>LS, gy, dms</i>	
2150						<i>change</i> <i>RPM</i> <i>40 to 70</i>	<i>sh, gy to gn-gy</i>	<i>Kinderhook Sh</i> <i>2142 (-989)</i>

Depth	Lithology	Shows	By David Griffin, RG, Lawrence, KS				Well No: Wilson 3-HP				Pg. 4 of 4					
			Penetration Rate				Total Gas				Location: S2SWNW4, 4250' fsl, 4950' fel, sec. 2, T22S-R13E, Co. 10, KS				Datum/Elev. KB 1153	
			Min./Foot				Units				Sample Descriptions				Tops/Remarks	
			0	5	10	15	0	50	100	150						
2150											Sh, gy to gn-gy					
2-15-10											Sh, gy to dk gy					
											Sh, gy, gn-gy, gy-by, bn-blk					
											Sh, AA, sli pet-like odr					
											AA					
											sh, gy to bn-gy, algal pits, odor					
2:40 A											sh, mostly dk bn-gy, gy, AA					
2200											AA					
											2213 (5min): 25% SS, vlt gy, vf-tgn, 15% fr φ, NS, No odor, No Flr.					
											2213 (10min): 40% SS, vf-t, 30% vlt gy, 15% pr φ, NS, 8% vlt gy, fr φ, NS, 2% lt bn, fr φ, fr sh bn oil, sli odor, sli. sh overal					
											2213 (15min): 60% SS, 40% pr φ, NS, recryst qtz; 10% fr φ, NS, 5% lt bn, fr-g φ, fr-g d show bn oil, sd odr 5% loose qtz mostly f. sd, pos. oil stn but do not float, 10% Br + Flr					
											2213 (20min): AA, 15% Br + Flr fr-g d sh oil					
											2213 (25min): AA, 15% Br + Fr. fr-g d sh oil					
											open-hole logged by OSAGE wireline 7-15-70					
											NS fr-g d sh bn oil					
											Simpson SS					
											2210 (-1057)					
											Total Depth					
											2213 (-1060)					