



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1211722
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
-----------------------------------	-----------------	-----------------------------------------

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1211722

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <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 <i>(Explain)</i> _____
-------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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> <input type="checkbox"/> Other <i>(Specify)</i> _____	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: Hoyt – Well # 3 HP
County: Coffey
Spot: NW SW NW SW Sec 9, Twp 21, S.R. 14 Ease
Spud Date: June 21, 2010
API: 15-031-22633-00-00
TD: ~~1481'~~ 1418' K.B.

6/21/10: Moved in rig # 3, rigged up. Pump water. Drilled rat hole. Spud 12 ¼ surface hole @ 7:00 PM. Drilled from 0' to 41' TD. At TD cir hole clean. Trip out 12 ¼ bit. Rigged and ran 40' of 8 5/8 casing. Rigged up cementers and cemented with 35 sacks cement. Plug down @ 11:00 PM. Wait on cement 7 hours. Nipple up. Trip in hole with 6 ¾ PDC bit. Drilled approx 5' cement. Under surface drilling @ 7:00 AM.

6/22/10: Drilled from 41' to 1300'.

6/23/10: Drilled from 1300' to 1330'. At 1330' CFS. At 1330' trip out of hole with 6 ¾ bit. Pick up core barrel, trip in hole with core barrel. Core hole from 1330' to 1369'. Trip out core barrel. Lay out core sample. Full recover of 39' core sample. Make up core barrel, trip back in hole. Core from 1369' to 1408'. Trip out core barrel. Lay out core sample. Full recover of 39' of core sample. Lay down core barrel. Make up 6 ¾ bit, trip back in hole with bit. Ream out core slot. Drilled 10' of new hole to TD 1418'.

6/24/10: AT TD of 1418' cir hole clean. Lay down drill pipe and drill collars. Rigged up cementers and cemented with 200 sacks cement. Cir cement to the top.

Total Footage 1418' @ \$12.00 Per Foot	\$17,016.00
Total Rig Time 24 Hours @ \$300.00 Per Hour	\$ 7,200.00
2-Runs with Core Barrel @ \$1,500.00 Per Run	\$ 3,000.00
40' of 8 5/8 Casing @ \$7.50 Per Foot	<u>\$ 300.00</u>
TOTAL:	\$27,516.00

DUE UPON RECEIPT – THANK YOU



CONSOLIDATED
Oil Well Services, LLC



TICKET NUMBER 28844
LOCATION Eureka
FOREMAN Steve Mead

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
6-21-10	3451	HAYT 3-HP				Coffey
CUSTOMER Hoas Petroleum, LLC						
MAILING ADDRESS 800 West 47th Ave 409						
CITY Kansas City		STATE MO	ZIP CODE 64112			
			TRUCK #	DRIVER	TRUCK #	DRIVER
			485	Alan		
			479	John		

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 421 CASING SIZE & WEIGHT 8 5/8
CASING DEPTH 40' DRILL PIPE _____ TUBING _____ OTHER _____
SLURRY WEIGHT 14.8 ppg SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
DISPLACEMENT 2 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety Meeting: Rig up to 8 5/8 casing. Break circulation with fresh water. Mix 35 sks Class A Cement w/ 2% cacl2, 2% Gel. At 14.8 ppg. Displace with 2 bbls fresh water. Shut casing in. Good cement returns to surface 2 bbls slurry to pit. Job complete Rig down

Thank You

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405	1	PUMP CHARGE	700.00	700.00
5406	30	MILEAGE	3.55	106.50
11045	35 skt	Class A Cement	13.10	458.50
1102	65 #	CaCl2 2%	.73	47.45
1118A	65 #	Gel 2%	.20	13.00
5407		Ton mileage bulk truck	m/c	205.00
			SubTOTAL	1670.45
			SALES TAX	21.50
			ESTIMATED TOTAL	1691.95

Ravin 3737

234811

AUTHORIZATION Witness by Ben Hannell TITLE Tool Pusher SK xx Drill DATE 6-21-10

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



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 28888

LOCATION Eureka

FOREMAN Clifford Strickler

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

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-24-10	3451	Hoyt 3 HP				Coffey
CUSTOMER Haas Petroleum, LLC		SKYY Drlg.	TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 800 West 47th Ste 409			520	John		
CITY Kansas City			543	Dave		
STATE Mo.						
ZIP CODE 64112						

JOB TYPE long string 0 HOLE SIZE 6 3/8" HOLE DEPTH 1418' CASING SIZE & WEIGHT 4 1/2" x 10 1/2"
 CASING DEPTH 1400' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 13.6 # SLURRY VOL _____ WATER gal/sk 7.0 CEMENT LEFT in CASING 0'
 DISPLACEMENT 22.4 Bbl DISPLACEMENT PSI 900^{psi} MIX PSI 1400 # Bump Plug RATE

REMARKS: Safety Meeting. Rig upto 4 1/2" casing Break circulation w/ 5 Bbl Fresh water Pump 200 SKS 60/40 Poz mix cement w/ 3% Gel, 1% Caclz, 5# Kol Seal 1/2 # Phenoseal 1/2 # @ 13.6 #/gal. Shut down, wash out pump and lines. Release Plug, Displace w/ 22.4 Bbl Fresh water. Final pumping pressure 900 PSI, Bump plug to 1400 PSI. Release pressure, Float held. Shut casing in @ 0 PSI. Good cement returns to Surface 6 Bbl Slurry to pit. Job Complete Rig Down.

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	900.00	900.00
5406	30	MILEAGE	3.55	106.50
1131	200 SKS	60/40 Poz mix cement	11.00	2,200.00
1110A	1000 #	Kol-Seal 5# per/sk	.40	400.00
1118A	700 #	Gel 3%	.20	140.00
1102	175 #	Caclz 1%	.73	127.75
1107A	100 #	Pheno Seal 1/2 # per/sk	1.12	112.00
5407 A	8.6	Bulk Truck Ton-mileage	1.20	309.60
4404	1	4 1/2" Top Rubber Plug	44.00	44.00
			Subtotal	4339.85
			SALES TAX	160.26
			ESTIMATED TOTAL	4500.11

Revin 8737

234914

AUTHORIZATION witnessed by Ben Harroll

TITLE Tool Pusher / SKYY Drlg.

DATE _____

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

Griffin Geological Resources, Inc.

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

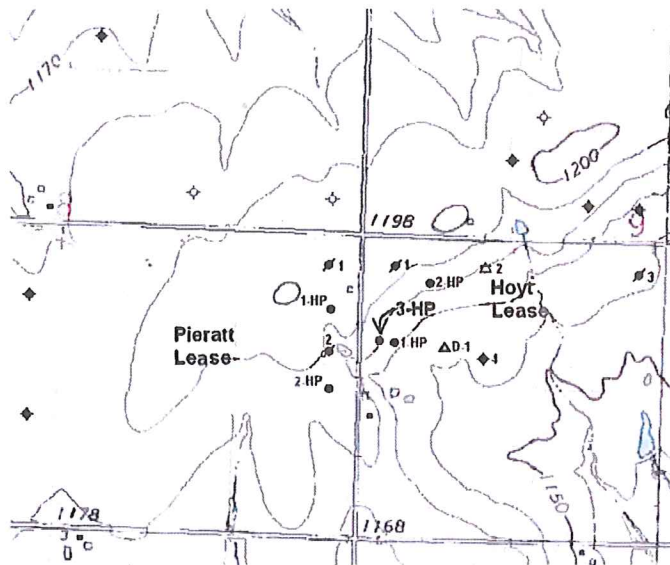
Ph. (785) 842-3665
Cell (785) 766-0099
Fax (785) 856-3935

June 28, 2010

Geological Wellsite Report

Well: Hoyt 3-HP
55' S of NW SW NW SW/4
1760' fsl, 5115' fel
Section 9, T21S – R14E
Coffey County, Kansas
Lat: N38.23353
Long: W-95.88370
API: 15-031-22633-00-00
Datum: KB 1186', (GL 1179')
RTD: 1418', KB
Field: Pieratt
Status: 4½' Casing Set
Pending Squirrel SS Producer

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 is based on microscopic examination of rotary drill cuttings from 1300' to 1330' and core from 1330' to 1408' below kelly bushing (KB) reached on June 23, 2010. This report includes a sample log with drilling and coring time, sample cuttings description, core descriptions and geological tops. The primary objective of Hoyt 3-HP is to evaluate the Squirrel Sandstones through core samples for commercial oil production potential. Subsea corrected geological sample tops were based on a KB datum above sea level elevation of 1186', (GL 1179') obtained from a relative survey to Hoyt 1-HP.

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

Commenced Drlg: June 21, 2010, 12¼" Bit, Set ~40' of 8⅝" Casing

Completed Drlg: June 23, 2010, Set and Cemented 1400' of 4½" casing

Drilling Notes: 4½" Drill Pipe, One 6-blade PDC Bit, from 40' to 1418',

Mud Program: Native fresh water native mud to RTD,

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

Geological Supervision:
David Griffin, RG, President of GGR, Inc., provided wellsite supervision on June 23, 2010. Samples and core examined from 1300' to 1408'.

Logs, Gas Detection, Cores, DST's:
The Squirrel Sandstone was cored using a 40' core barrel in two pulls from 1330' to 1369' and from 1369' to 1408', KB. No gas detection, open-hole logs or drill stem tests were obtained for this well.

Geological Datums:

Haas Petroleum, LLC Hoyt 3-HP 55' S of NW SW NW SW4 Sec. 9-T21S-R14E				Struc. Comparison Haas Petro. LLC Hoyt 1-HP 84' N of SW NW SW4 Sec. 9-T21S-R14E	
Geological Tops					
Zones of Interest	Sample Tops		STRC COMP	Sample Tops	
	KB Elev 1186'			KB Elev 1180'	
	Depth	Subsea		Depth	Subsea
Cherokee Group	1324	-138	-4	1314	-134
U. Squirrel SS	absent			absent	
M. Squirrel SS, Top Gas	1336	-150	-4	1326	-146
Top Moveable Free Oil	1338	-152	-2	1330	-150
Top Residual Oil Only	1348	-162	+1	1343	-163
Base SS	1365	-179	-6	1353	-173
L Squirrel SS	1383	-197	-3	1374	-194
Base SS	1395	-209	+2	1391	-211
"V"-Shale	dnp			1426	-246
Mississippian Lime	dnp			1667	-487
Osage Chert Zone	dnp			1749	-569
Kinderhook Shale	dnp			1940	-760
Viola Dol	dnp			2013	-833
Total Depth	1418	-230		2020	-840

Structural Comparisons:

Structural comparison of subsea sample tops for Hoyt 3-HP indicates that the Middle Squirrel Sandstone is 4' low to Haas Petroleum, LLC, Hoyt 1-HP lying 165' to the east.

Description of Middle Squirrel Sandstone

Samples Description

1325' to 1330', KB

Sandstone, 10% to 30%, very silty, light brown, very fine grained, poor to fair porosity, fair odor, fair to good show of residual oil, no bleeding; silty shale, 70% to 90%, light gray, interbeds. Decision was made to run core barrel.

Core Description

1330.0' to 1330.5', KB, (0.5')

Siltstone, 60%, light grayish brown, very fine grained sandy, micaceous, poor to fair porosity, gassy odor on fresh break, fair show of residual oil, no bleeding, convolute bedding; Shale, 40%, light gray, silty, micaceous.

1330.5' to 1332.1', KB, (1.6')

Siltstone, 80%, light grayish brown, very fine grained sandy, micaceous, poor to fair porosity, gassy odor on fresh break, fair to good show of residual oil, no bleeding, large scale current ripple marks, inclined horizontal laminae, very calcareous; Shale, 20%, light gray, silty, micaceous.

1332.1' to 1335.2', KB, (3.1')

Siltstone, 90%, light grayish brown, limey, very fine grained sandy, micaceous, poor to fair porosity, gassy odor on fresh break, fair to good show of residual oil, no bleeding, current ripple marks, inclined horizontal laminae; Shale, 10%, light gray, silty, micaceous.

1335.2' to 1336.0', KB, (0.8')

Siltstone, 20%, light grayish brown, very fine grained sandy, micaceous, poor porosity, fair show of residual oil, no bleeding, current ripple marks, wavy to horizontal laminae; Shale, 80%, light blue-gray, silty, micaceous.

1336.0' to 1338.0', KB, (2.0')

Sandstone, 80%, light brown to brown, very fine grained, very silty, micaceous, fair to good porosity, gassy odor on fresh break, fair to good show of residual oil, no bleeding, faint current ripple marks and horizontal laminae; Shale, 20%, light blue-gray, silty, micaceous. **Probable gas sand.**

1338.0' to 1339.25', KB, (1.25')

Sandstone, 85%, brown to dark brown, very fine grained, silty, micaceous, good porosity, very good show of oil, fair bleeding initially, no bleeding after one rinse, faint current ripples and inclined horizontal laminae; Shale, 15%, light blue-gray, silty, micaceous. **Top of moveable oil column, pay zone potential.**

1339.25' to 1339.3', KB, (0.05')

Shale, gray, silty, micaceous, horizontal laminae.

1339.3' to 1344.5', KB, (5.2')

Sandstone, 98%, very dark brown to dark brown, very fine grained, silty, micaceous, good to very good porosity, very good show of oil, good to very good bleeding initially and after rinsing for 30 minutes or more, faint current ripples to massive bedded; Shale, 2%, laminae, light blue-gray, silty, micaceous. **Very good pay zone potential.**

1344.5' to 1344.9', KB, (0.4')

Sandstone, 98%, dark brown, very fine grained, silty, limey, micaceous, fair to good porosity, good show of oil, slight to fair bleeding initially, no bleeding after rinsing, faint current ripples to massive bedded; Shale, 2%, laminae, light blue-gray, silty, micaceous.

1344.9' to 1345.2', KB, (0.3')

Sandstone, 60%, dark brown, very fine grained, silty, micaceous, fair to good porosity, good show of oil, fair bleeding initially, no bleeding after rinsing, current ripples; Shale, 40%, laminae, light blue-gray, silty, micaceous.

1345.2' to 1345.4', KB, (0.2')

Shale, gray, silty, micaceous, horizontal laminae; Sandstone, 10%, dark brown, wavy bedded, good show of oil, no bleeding after rinsing.

1345.4' to 1345.7', KB, (0.3')

Sandstone, 98%, very dark brown, very fine grained, silty, micaceous, good to very good porosity, very good show of oil, good to very good bleeding initially and after rinsing that continues for 30 minutes or more, horizontal laminations and faint current ripples; Shale, 2%, laminae, light blue-gray, silty, micaceous. **Very good pay zone potential.**

1345.7' to 1346.9', KB, (1.2')

Sandstone, 95%, very dark brown to dark brown, very fine grained, silty, micaceous, good to very good porosity, very good show of oil, good bleeding initially, no bleeding after rinsing, faint inclined horizontal laminations and current ripples; Shale, 5%, laminae, light blue-gray, silty, micaceous. **Good pay zone potential.**

1346.9' to 1347.2', KB, (0.3')

Sandstone, 30%, brown and gray, very fine grained, silty, micaceous, fair to good porosity, good show of oil, slight bleeding initially, no bleeding after rinsing, horizontal laminations and current ripples; Shale, 70%, laminae, light gray, silty, micaceous.

1347.2' to 1348.4', KB, (1.2')

Sandstone, 90%, dark brown, very fine grained, silty, micaceous, good to very good porosity, good show of oil, fair bleeding initially, no bleeding after rinsing, distorted inclined horizontal laminations; Shale, 10%, gray, silty, micaceous. **Bottom of moveable oil zone.**

1348.4' to 1349.0', KB, (0.6')

Sandstone, 20%, grayish brown, shaley, very fine grained, silty, micaceous, fair porosity, slight show of oil, no bleeding, inclined horizontal laminations; Shale, 80%, light gray, silty, micaceous.

1349.0' to 1351.0', KB, (2.0')

Sandstone, 99%, dark brown, very fine grained, silty, micaceous, very good porosity, good show of residual oil, no bleeding, faint inclined horizontal laminations; Shale, 1%, light gray, silty, micaceous.

1351.0' to 1353.9', KB, (2.9')

Sandstone, 90%, dark grayish-brown, very fine grained, silty, micaceous, very good porosity, good show of residual oil, no bleeding, inclined horizontal laminations and current ripples; Shale, 10%, gray, silty, micaceous.

1353.9' to 1354.8', KB, (0.9')

Sandstone, 90%, brownish gray, very fine grained, silty, micaceous, very good porosity, fair show of residual oil, no bleeding, massive bedded; Shale, 10%, gray, silty, micaceous.

1354.8' to 1356.5', KB, (1.7')

Sandstone, 80%, brownish gray, very fine grained, silty, micaceous, very good porosity, fair show of residual oil, no bleeding, inclined horizontal laminations and current ripples; Shale, 20%, gray, silty, micaceous.

1356.5' to 1364.0', KB, (7.5')

Sandstone, 99%, brownish gray grading to gray, very fine grained, silty, micaceous, very good porosity, fair show of residual oil, no bleeding, massive bedded; Shale, 1%, gray, silty, micaceous.

1364.0' to 1365.0', KB, (1.0')

Sandstone, 99%, gray, fine to medium grained, carbonaceous plant debris, micaceous, very good porosity, slight show of residual oil, no bleeding, massive bedded; Shale, 1%, gray, silty, micaceous.

1365.0' to 1369.0', KB, (4.0')

Shale, gray, massive.

Description of Lower Squirrel Sandstone

1369' to 1374.0', KB, (5.0')

Shale, gray to dark gray, massive.

1374.0' to 1379.8', KB (5.8')

Shale, dark gray, calcareous, limey, silty, marine fossils, burrows.

1379.8' to 1380.0', KB (0.2')

Sandstone, 50%, dark brownish-gray, very fine grained, fair porosity, fair show of oil, good show of heavy oil, fair bleeding before and after rinsing, current ripples; Shale, dark gray, mica and carbon.

1380.0' to 1383.0', KB (3.0')

Shale, 80%, dark gray, with 20% siltstone laminations, wavy bedded, abundant burrows.

1383.0' to 1384.0', KB (1.0')

Sandstone, 40%, dark brownish-gray, very fine grained, good porosity, good show of oil, slight to fair bleeding before and after rinsing, wavy bedded; Shale, 60%, dark gray, mica and carbon.

1384.0' to 1386.0', KB (2.0')

Sandstone, 90%, dark brownish-gray, very fine grained, good porosity, good show of oil, slight to fair bleeding before and after rinsing, massive bedded; Shale, 10%, dark gray, mica and carbon.

1386.0' to 1395.0', KB (9.0')

Sandstone, 90% to 98%, dark gray, fair show of residual oil only, no bleeding, horizontal bedded, high angle near vertical fractures at 1392.0 and 1394.0 with large voids filled with (0.2 to 1.0 cm) quartz crystals; Shale, 1% to 10%, dark gray, mica and carbon.

1395.0' to 1408.0', KB (13.0')

Shale, dark gray, burrows, micaceous and carbonaceous.

Summary:

The Squirrel Sandstone was continuously cored from 1330' to 1408' with full recovery. The Middle Squirrel Sandstone was present from 1336' (-150) to 1365', KB, (29' thick) and contained moveable free oil from 1338' to 1348' with the best zone from 1339' to 1346', KB. It exhibited good to very good porosity with very good potential as a pay zone. The Lower Squirrel Sandstone was present from 1383 (-197) to 1395', KB, (12' thick) and contained moveable free oil from 1383.0' to 1386.0', KB. It exhibited good porosity but lacks sufficient thickness to be commercial. Production casing was set to a depth of 1400' to test the Middle Squirrel Sandstone through perforations.

Recommendations:

The well be cased hole Gamma-Ray Neutron and bond logged. The log should be correlated to match the core observations. An adjustment of 7' will be made to for ground level datum. If no correlation adjustments are made, the well it is recommended it be perforated from 1331.5' to 1336.5' and fracture treated.

Respectfully Submitted,



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

Attachments: Sample Log with Drilling Time, Photograph Log

Photograph Log



Middle Squirrel Sandstone, 1331' to 1340', Dry Core



Middle Squirrel Sandstone, 1338' to 1341', Unrinsed Core

Photograph Log



Middle Squirrel Sandstone, 1338' to 1350', Dry Core



Middle Squirrel Sandstone, 1340' to 1343', Unrinsed Core



Middle Squirrel Sandstone, 1342' to 1354', Dry Core

Depth	Lithology	Shows	By David Griffin, RG, Lawrence, KS				Well No: Hoyt 3-HP			Pg. 1 of 1			
			Penetration Rate				Total Gas			Location: S63°+NW1/4SW1/4, T21S-R14E, Cof. Co. S115'±el, Sec. 9	Datum/Elev.		
			Min./Foot				Units				KB 1186'		
			0	5	10	15	0	50	100	150	Sample Descriptions		Tops/Remarks
1300 6-23-10 800			all stop watch time				No Gas detection			Oper: Haas Petroleum, LLC Contr: Skaggy Drilling, LLC 6 3/4" PDC Bit API No: 15-031-22633-00-00 shale, Blk shgy			
			Gas Zone Point							Ls, Gy bn tngy, sh, bn-gy ss, tbn, s ^o l, lum, fr sh res. oil, no bleed		Cherokee	1324 (-138)
			Core #1 1330-1357 Full Recovery							1330-1336' ss, tbn, slt, tngy, bn-gy, fr sh res. oil, no bleed		Mid. Squirrel ss	1336 (-150)
										1336-1338' ss, tbn to bn, v tbn, rilty, m, fr-gd φ, fr-gd sh res. oil, gassy odor, no bleeding, gas zone?		1336-1338, gassy	1338-1348, *
1350										1338-1339' ss, bn to dk bn, v fgy, silty mica, gd φ, gd shaw oil, fr bleed at first, no bl'd after rise *Top of movable oil*		1338-1348, *	Movable Oil
										1339-1348' ss, dk bn to vdk bn, v fgh, gd to very gd φ, good to vgd bleeding in core. Best zone 1339-1345'		Base 1365(-174)	
										1348-1364' ss, dk bn grading to v fgh, bn-gy, vgd φ, fr-gd, show residual oil, no bleeding			
										1364-1365' ss, gy, f-med gy, vach m+c, slt sh res. oil.		Lower Squirrel ss	1383(-197)
										1365-1374, sh, gy to dk gy.		1383-1386 (Movable Oil)	
										1374-1380 sh, dk gy, limey, mor. fufs, burrows		Base 1395(-209)	
										1380-1383 sh, dk gy, 20% siltst			
										1383-1386 ss, dk bn-gy, v fgn, gd φ, gd show oil, slt to fr bleed before after rinsing core.			
										1386-1395 ss, dk gy, fr show res. oil, no bleeding,			
1400										1395-1408 sh, dk gy, m+c		Total Depth	1418(-230)