

KANSAS CORPORATION COMMISSION
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 # 33640
Name: Haas Petroleum, LLC
Address 1: 800 W 47TH ST STE # 716
Address 2: _____
City: Kansas City State: MO Zip: 64112 + _____
Contact Person: Phil Frick
Phone: (913) 221-5987
CONTRACTOR: License # 33557
Name: Skyy Drilling, LLC
Wellsite Geologist: David Griffin, RG
Purchaser: NA

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Designate Type of Completion:

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

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

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

5/12/10	5/16/10	5/17/10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 031-22596-00-00
Spot Description: _____
NW SE NW SW Sec. 9 Twp. 21 S. R. 14 East West
1,715 Feet from North / South Line of Section
4,580 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Coffey
Lease Name: Hoyt Well #: 1-SWD (D-1)
Field Name: Pieratt
Producing Formation: Arbuckle
Elevation: Ground: 1165' Kelly Bushing: 1172'
Total Depth: 2180' Plug Back Total Depth: NA
Amount of Surface Pipe Set and Cemented at: 40.0 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 2068'
feet depth to: surface w/ 175 200 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: Phil Frick
Title: Agent Date: 8/16/10

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: DG Date: 8/16/10

Operator Name: Haas Petroleum, LLC Lease Name: Hoyt Well #: 1-SWD (D-1)
 Sec. 9 Twp. 21 S. R. 14 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: Gamma Ray/Neutron/CCL	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum See Geological Wellsite Report
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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"	NA	40.0'	Class A 50/50 Poz	35	
Production	6 3/4"	4 1/2"	NA	2068.0'	50/50 Poz	200 175	

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

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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. Pending Permit	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 checked="" 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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 28627

LOCATION Eureka

FOREMAN Steve Mead

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8878

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-12-10	3451	HOYT #2-1	9	215	146	Coffey
CUSTOMER Hoas Petroleum LLC			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 800 West 47th Ste. 409			485	Alan		
CITY Kansas City			515	Chris		
STATE MO.						
ZIP CODE 64117						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 48' CASING SIZE & WEIGHT 8 5/8
 CASING DEPTH 40' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.6* SLURRY VOL _____ WATER gal/fak _____ CEMENT LEFT IN CASING 5'
 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% Cocle & 2% Gel. At 14.6* ppgal. Displace with 2 bbls Fresh water. Shut casing 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
5405	1	PUMP CHARGE		
5406	30	MILEAGE	7.00	210.00
			3.55	106.50
11045	36 sks	Class A Cement	13.10	458.50
1102	65#	Cocle 2%	.73	47.45
1118A	65#	Gel 2%	.17	11.05
5407		Ton Mileage Bulk Truck	m/c	305.00
			Sub Total	1628.50
			SALES TAX	20.40
			ESTIMATED TOTAL	1648.90

AUTHORIZATION Called by Ben

234269

TITLE Tool pusher SKYY DOL

DATE 5-12-10

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 28776
LOCATION Eureka
FOREMAN Troy 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
5-17-10	3451	Hoyt # 01				Coffey
CUSTOMER Haas Petroleum, LLC						
MAILING ADDRESS 800 West 47th Ste 409						
CITY Kansas City	STATE MO	ZIP CODE 64112	TRUCK # 520	DRIVER Cliff	TRUCK # 479	DRIVER Alan B.
			515	Chris		
			436	J.P.		

JOB TYPE Logby - 0 HOLE SIZE 6 3/4 HOLE DEPTH 2190' CASING SIZE & WEIGHT 4 1/2" 10.5#
 CASING DEPTH 2068' 0" DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 12.8 @ 13.8 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT IN CASING 0'
 DISPLACEMENT 33.8bl DISPLACEMENT PSI 700 MIX PSI Logby to 1200 RATE _____

REMARKS: Safety Meeting: Rig up to 4 1/2" casing. Set packer w/ 1200 PSI. Pump 15.0bl Fresh water. Mixed 200skt 60/40 Pozmix w/ 6% Gel + 1/2" Phenoseal 1sk @ 12.8#/gal. Tail in w/ 50skt Regular Cement w/ 2% Gel, 2% Cacl₂ + 1/2" Phenoseal @ 13.8#/gal. Shut Down. Release Plug. Displace w/ 33.8bl Fresh water. (Washed up on Plug). Final Pumping Pressure 700 PSI. Pump Plug to 1200 PSI. Wait 2min. Release Pressure. Float Held. Good Cement to surface = 88bl Slurry to Pit.

Job Complete

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	200skt	60/40 Poz-mix Cement	11.00	2200.00
1118A	1030#	6% Gel	.17	175.10
1107A	100#	1/2" Phenoseal	1.12	112.00
5407A	10.98 Ton	Ton-mileage 84K Truks	1.20	399.20
1104S	50skt	Class A Cement	13.10	655.00
1118A	95#	2% Gel	.17	16.15
1102	95#	2% Cacl ₂	.73	69.35
1107A	25#	1/2" Phenoseal	1.12	28.00
5502C	4hrs	800bl Vaetruck	96.00	384.00
1123	3000gal	City Water	14.50/1000	43.50
4251	1	Type A Packer shoe 4 1/2"	1275.00	1275.00
4103	1	4 1/2" Cement Basket	201.00	201.00
4129	3	4 1/2" x 6 3/4" Centralizer	39.00	117.00
4404	1	4 1/2" Top Rubber Ply	44.00	44.00
4306	1	Thread lock Kit	25.00	25.00
		5.3% SALES TAX		262.96
		ESTIMATED TOTAL		7008.76

Flayn 9737

234294

AUTHORIZATION called by Ben Horrell TITLE Tool Pusher / Skyy Acty DATE 5-17-10

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.

Griffin Geological Resources, Inc.

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

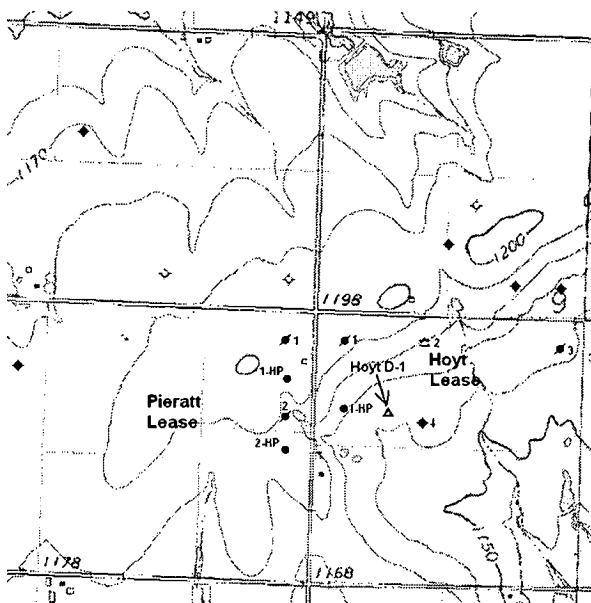
Ph. (785) 842-3665
Cell (785) 766-0099
Fax (785) 856-3935

May 19, 2010

Geological Wellsite Report

For: Hoyt D-1
SW NW SE NW SW/4
1715' fsl, 4580' fel
Section 9, T21S – R14E
Coffey County, Kansas
Lat: N38.23345
Long: W-95.88203
API: 15-031-22596-00-00
Datum: KB 1172', (GL 1165')
RTD: 2180', KB
Field: Pieratt
Status: 4½' Casing Set
Pending Arbuckle SWD

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 a rotary total depth of 2180' below kelly bushing (KB) reached on May 16, 2010. This report includes a sample log with drilling time, sample cuttings description, total gas measurements and geological sample tops. The primary objective of Hoyt D-1 is for saltwater disposal and to evaluate the Viola pay zone. Subsea corrected geological sample tops were based on a KB datum elevation of 1172' above sea level and a GL elevation of 1165' obtained from a relative survey to Hoyt 1-HP.

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

Commenced Drlg: Spud May 12, 2010, 12¼" Bit, Set ~40' of 8½" Casing

Completed Drlg: May 16, 2010, Set and Cemented ~2071' of 4½" casing, May 17, 2010

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Drilling Notes: 4½" Drill Pipe, One 6-blade PDC Bit, from 40' to 1682',
One Button Bit from 1682' to 2180'

Mud Program: Native fresh water mud to 1300', fresh water chemical gel mud from 1300' 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 from May 14 thru 16, 2010. Samples microscopically examined from 1300' to 2180'.

Logs, Gas Detection, Cores, DST's:
No open-hole logs, cores or drill stem tests were obtained for this well. MP 2300 total gas detection instrumentation was in use part of the time.

Geological Datums:

Haas Petroleum, LLC				Comparison Wells			
Hoyt D-1 SW NW SE NW SW4 Sec. 9-T21S-R14E				Haas Petro., LLC		Devlop. Energy Res.	
				Hoyt 1-HP W2 NW SW4 Sec. 9-T21S-R14E		Hoyt 4 SE NW SW4 Sec. 9-T21S-R14E	
Geological Tops				Sample Tops		Sample Tops	
Zones of Interest	Sample Tops		STRC COMP	KB Elev 1172'		KB Elev 1180'	
	Depth	Subsea		Depth	Subsea	Depth	Subsea
	KB Elev 1172'	Subsea		KB Elev 1180'	Subsea	KB Elev 1169'	Subsea
Cherokee Group	1304	-132	+2	1314	-134	1300	-131
U. Squirrel SS	absent			absent		absent	
M. Squirrel SS,	1315	-143	+3	1326	-146	1302	-133
Base SS	1345	-173		1353	-173	1342	-173
L Squirrel SS,	1363	-191	+3	1374	-194	1358	-189
Base SS	1383	-211		1391	-211	1365	-196
"V"-Shale	1415	-243	+3	1426	-246	na	
Burgess SS	absent			absent		absent	
Mississippian Lime	1666	-494	-7	1667	-487	1651	-482
Osage Chert Zone	1742	-570	-1	1749	-569	1738	-569
Kinderhook Shale	1936	-764	-4	1940	-760	1931	-762
Viola Dol	2009	-837	-4	2013	-833	2004	-835
Simpson SS	2023	-851		dnp		2012	-843
Arbuckle Dol	2071	-899		dnp		dnp	
Total Depth	2180	-1008		2020	-840	2040	-871

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Structural Comparisons:

Structural comparison of the geologic well data indicates that the sample top of the Viola dolomite for Hoyt D-1 is 4' low to Haas Petroleum, LLC, Hoyt 1-HP lying 360' to the west.

Middle Squirrel Sandstone

Sample Descriptions

1315' to 1323', KB, (1320' to 1330' Samples)

Sandstone, very silty, 80%, light brown, very fine grained sand to coarse silt, sub-angular quartz, somewhat micaceous, fair porosity, slight to fair odor, fair residual oil stain, no show of free oil, no oil show visible in sample bags; 20% siltstone and shale, light gray, laminations. Total gas readings peaked at 264 units, no gas bubbles observed, probable free gas zone.

1323' to 1341', KB, (1330' to 1350' Samples)

Sandstone, 50% to 90%, brown, very fine to minor fine grained, silty, sub-angular quartz, good to very good porosity, good sweet oil odor, good to very good show of free brown oil (~22-25 gravity) bleeding and rinsing from samples, much brown oil in sample bags, no heavy oil or tar present; 10% to 50% siltstone and shale, light gray to tan. Total gas readings peaked at 146 units, no gas bubbles observed. Good amount of brown oil on pit after drilling this zone. **Very good potential for commercial oil pay zone with some gas drive.**

1341' to 1345', KB, (1350' to 1355' Sample)

Sandstone, 80%, brownish-gray with gray mottling, mostly very fine grained, sub-angular quartz, good porosity, slight odor, fair show of free oil; 20% silty shale, gray. Total gas readings peaked at 88 units, no gas bubbles observed.

Lower Squirrel Sandstone

Sample Descriptions

1363' to 1376', KB, (1370' to 1385' Samples)

Sandstone, 40% to 70%, dark brownish-gray, mostly very fine grained, sub-angular quartz, very micaceous and carbonaceous, good porosity, good odor, good show of free dark brown heavy oil rinsing from samples and in sample bags, (~20 to 22 gravity); shale, 30% to 60%, silty, micaceous and carbonaceous. Total gas readings peaked at 204 units, no gas bubbles observed. Put fair to good amount of oil on pit. **Fair to good potential for oil pay zone.**

1376' to 1383', KB, (1385' to 1395' Samples)

Sandstone, 80% of samples, dark grayish-brown, mostly very fine grained, sub-angular quartz, salt and pepper appearance due to abundant mica and carbon, good porosity, slight odor, slight show of tar, no show of free oil; shale, 20%, gray, silty, abundant mica and carbon. Total gas readings peaked at 100 units, no gas bubbles observed.

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Viola Dolomite

Sample Description

2009' to 2020', KB, (2015' to 2020' CFS Samples)

Dolomite, 30%, off-white to very light gray, medium crystalline, mostly poor with very minor fair intercrystalline porosity, trace oil stain, trace show of free oil when crushed; Sandstone, (Misener?), 1% of samples, dark gray, very fine grained, sub-rounded quartz, poor porosity recrystallized with silica cement to fair porosity, trace oil stain in a few pieces, no show of free oil; Remainder of samples are shale (Kinderhook), dark gray to very dark brownish-gray, very fine mica, algal platelets, strong organic hydrocarbon-like odor. **Top of Viola cap rock, 2009'.**

2020' to 2023', KB, (2020' to 2024' CFS Samples)

Dolomite, 30%, medium to coarse crystalline, off-white to very light gray, mostly poor porosity, but 3% to 5% has good vugular and intercrystalline porosity with brown oil stain, slight to fair oil odor, the fraction with good porosity exhibits fair show of free oil that breaks out when crushed, only slight bleeding shown as a slight scum of oil residue on sample bags, no fluorescence. **Possible marginal(?) oil pay.**

Simpson Sandstone

Sample Description

2023' to 2025', KB, (2024' CFS to 2029' Samples)

Sandstone, 30%, clear to very light gray, very fine to fine grained, mix of clusters and loose grains, fair to good porosity, no odor, no show or oil stain; 5% white, pore filling, clay(?) mineral, no stain.

2025' to 2029', KB, (2029' CFS Samples)

Sandstone, 80%, clear to very light gray, mostly loose very fine to minor fine grained, very good porosity, slight odor, scattered very slight show of heavy sticky brown oil, slight oil residue on sample bag; also contains 20% white, pore filling, clay(?) mineral, no stain.

2029' to 2039', KB, (2029' CFS to 2045' Samples)

Sandstone, 95%, clear to very light gray, very fine to fine grained SS, mostly loose grains, good to very good porosity, no odor, no show.

2039' to 2050', KB, (2045' CFS to 2055' Samples)

Sandstone, 95%, clear to very light gray, coarse siltstone and very fine grained SS, many clusters, some are tight with much silica cement, poor to fair porosity, no odor, no show.

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Hoyt D-1
Wellsite Geology Report
By David Griffin, RG
May 19, 2010

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2050' to 2071', KB, (2055' CFS to 2075' Samples)

Sandstone, 80%, clear to very light gray, very fine to fine grained SS, mostly loose grains, good porosity, no odor, no show; 20% white pore filling clay(?) mineral, no stain.

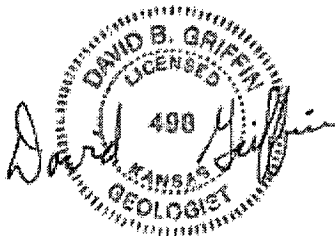
Summary:

The Middle Squirrel sandstone was present from 1315' to 1345', KB, (30' thick). The sandstone had fair porosity, very high gas kick (264 units) and residual oil stain from 1315' to 1323' which is probably indicative of free gas. Additionally, it had good to very good porosity with good to very good shows of free brown oil from 1323' to 1341' that has very good potential to be a commercial pay zone. The Lower Squirrel sandstone was present from 1363' to 1383', KB OH Log, with good porosity and a good show of free heavy brown oil and has marginal potential as a pay zone. The top of the Viola dolomite was reached at 2009 (-837) which is 4' lower than in Hoyt 1-HP lying west 360'. The Viola thickened more than expected and contained only marginal quality porosity reservoir rock from 2020' to 2023'. The Simpson sandstone was reached at 2023 (-851) and contained only a very slight show of heavy sticky oil. The Arbuckle was present from 2071 (-899) to RTD at 2180 (-1008). It did not have any hydrocarbon shows, however it appeared to have sufficient porosity for saltwater disposal. The operator set and cemented 4 $\frac{1}{2}$ " casing to approximately 2071' for open-hole completion in the Arbuckle dolomite.

Recommendations:

The float shoe should be milled out and the Arbuckle treated with 15% acid for saltwater disposal use. The Middle Squirrel sandstone has very good commercial potential in Hoyt D-1 similar to that in Hoyt 1-HP. A twin well should be considered with perforations placed from ~1326' to 1338', KB, (~1319' to 1331', GL) and treated with a moderate frac. A cased hole log should be ran for correlation purposes.

Respectfully Submitted,



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

Attachments: Sample Log with Drilling Time and Total Gas Measurements

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Hoyt D-1
Wellsite Geology Report
By David Griffin, RG
May 19, 2010

Depth	Lithology	Shows	By David Griffin, RG, Lawrence, KS		Well No: Hoyt D-1	Pg. 1 of 4
			Penetration Rate Min./Foot	Total Gas Units		
			0 5 10 15 0	50 100 150	Sample Descriptions	Tops/Remarks
1300					OPER: Haas Petroleum, LLC Contr: Skyg Drilling, Rig 3 A-P: 15-031-22585 siltst, ltgy to lt bn, tt o dom, sli oil sft, NFO	Cherokee 1304(-132)
5-14-10 10:30A					siltst, lt bn, cse, v f sd y, fr φ, sli od, oil recid NFO, Gas zone	Mid Sq 1315(-143)
					SS, lt bn, v. silty, v f, fr φ, mstly res. s talu, Sli sfo, fr-odr (1315-1323')	1315-23, Gas SS
					SS, Bn, silty, v f, mstly gd φ, gd sweet oil odr, gd-vad sfo / n bog + rinsing, gd oil sat, (1323-41)	1323-41 gd-vad SFO
					5 th of sfo at 1335' gd show oil in Pit, Poss Pay Zone (1325-36') Best Bn oil, medgy	1341-45 sfo SFO
					SS, Bn-Gy, mottled gy, gd φ, fr sfo, fair much bleed, 20% sh, gy silty	Base 1345
					Sh, gy to bn-gy, some silty.	
1350					LS, shly, dk gy sh, gy, silty LS, dk gy, silty v f, fr φ, NS	Lower Squirrel 1363 (-191) 18' thk
					SS, dk gy-Bn, v f, gd φ, gd shly Bn oil gd bleed + rinse, abd mtc, gd odr (1364-70') Poss Mang? Pay	Base 1383
					SS, gy, v f, fr φ, v. abd mtc, sli sh Tar, Fr odr	
					Sh, gy, v sd y, silty, v mtc few ss + silt lam, NS	
1400					Coal sh, lt gy layers, sh gy, silty	V-Shale 1415 (-243)
					sh, bk, coal y	
					SS, v lt gy, v. silty, patchy, side cem, shly, min mtc, minus v lt gy silt lam, v lt gy	
					sh, dk gy w ss + silt lam, NS	
					sh, bk, coal y	
					sh, v lt gy to bk, 20% ss lam, NS	
1450					sh, v lt gy to gy, min side + silt lam	
					sh, lt gy to gy	
					sh, mstly dk gy, silty, v mtc	
					LS, streak, dk gy	
					coal	
					sh, v dk gy to bk	
1500					sh, lt gy to dk gy to bk	
					sh, v lt gy, sn-gy, dk gy, bk	
					sh, mostly bk, few silt lam	
					sh, vari-col, tan, bk, sn-gy, v lt gy dk gy	
1550						

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KCC WICHITA

Depth	Lithology	Shows	By David Griffin, RG, Lawrence, KS				Well No: Hoyt D-1				Pg. 3 of 4
			Penetration Rate		Total Gas		Location: SWNWSE/NWSW, 1715' fsl 4580' fsl, sec. 9-T2N5-R1E				Datum/Elev. KB 1172
			0	5	10	15	0	50	100	150	Sample Descriptions
1800 5-15-10										cht, 60% opal gy, sh, p, dol, 40% gy	
										AA dol, hd, v f xln, prd	
										dol, hd, Ls, micro xln cht, opal-gy	
										Ls, v f f xln, plus; cht 30%	
										Ls, tan-gy, dms, cht gy, 30%	
1850										Ls, tan-gy, v f-m xln, cht, 5-10%	
										Ls, AA, 1-2% cht	
										dol, gy-bn	
										Ls, gy-bn, v f-m xln, ns	
										sh, gy, dolo	
										dol, sh, gy, ptly, gy to lt-gy-bn	
										Ls, gy-bn, micro, xtain	
										sh, gy, 30%	
										dol, gn-gy, sh, gy; sh, gn-gy; idolo; sh, tan	
1900										Ls, AA	
										sh, dol, lt-gy to lt-gn-gy	
										Ls, gy-bn, dms, shale, stkr	
										sh, lt-gy to tan-gy, sli dolo, gn-gy also	
										Ls, gy-bn, dms, micro to f xln	
										Ls, tan-gy, f-m xln, prd ptly gnst	
										sh, lt-gy, gy, tan	
										sh, AA, min bk also, stkr tangy dol	Kinderhook Shale 1936(-764) 73' THK
1950										sh, gy to vdk gy to bk	
										sh, gy to lt bn-gy, few algal pits f. mrc	
										5" Empty	
										dol, trans, gy, f xln, v. hd, dms, pyr	
										sh, dle bn-gy, f micat A. P. I.	
										idol, lt-gy, sh, dk bn-gy, AA, petro-like stinky odor	
										sh, vdk bn-gy to bk, algal pits, odor	
5-15-10 5-16-10										Turn on Gas Detection	
2000										AA, pyr	
										3 ss, gy, trace oil stn, v fgn, fr-od, no flr	Viola Dol 2009(-83) 14' THK
										3 Dol, off-wh, mxln, msh, prd trace show in a few pieces, no odor, no bk	
										2 Dol, AA, off-wh to vltgy, trace show, prd Dol, off-wh, m-cs xln, fr-x, full xtals, frsfo when crushed in 2-5%	Simpson SS 2023(-85) 48' THK
										SS, vltgy, v f-fgn, w-rate, mostly lse gns gd, fr sh hvy scky oil in 2%, 20% w/ clay? mineral	
										SS, o-w, v f-min fgn, w-red, vgd, scattered show for, no odor	
										SS, o-w, siltst, v f to cs silt, prd w/ silic cem in some siltst lenses, ns. od in ss	
2050											

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