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

Company:

Haas Petroleum, LLC 800 W. 47<sup>th</sup>, Suite # 716 Kansas City, Missouri 64112

Lease:

Pieratt - Well # 3 HP

County:

Coffey

Spot:

SE NW NE SE Sec 8, Twp 21, S.R. 14 E

Spud Date:

June 26, 2010

API:

15-031-22808-00-00

TD:

2057 1/2 158.

6/25/10:

Moved in rig #3, rigged up. Started pumping water.

6/26/10:

Finish pumping water. Drilled rat hole. Spud 12 ¼ surface hole @ 12:30 PM. TD surface hole @ 41'. 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 @ 5:00 PM. Shut down for weekend.

6/28/10:

Start back up. Nipple up. Trip in hole with 6 ½ PDC bit. Drilled out approx 5' of cement. Under surface drilling @ 2:00 PM. Drilled from 41'

to 807'.

6/29/10:

Drilled from 807' to 1348'. At 1348' CFS. At 1348' trip out of hole with 6 ¼ bit. Pick up core barrel. Trip in hole with core barrel. Core hole from 1348' to 1387'. Trip out core barrel. Lay out core sample. Full recover of 39'. Lay down core barrel. Trip back in with 6 ¼ bit. Ream out core slot.

6/30/10:

At 1387' jet pits clean and mud up hole. Back to drilling @ 11:00 AM. Drilled from 1387' to 1739'.

7/1/10:

Drilled from 1739' to 1767'. Trip bit @ 1767'. Trip back in hole with 6 34 button bit. Drilled from 1767' to 1910'. Top Mississippi Lime 1708'.

7/2/10:

Drilled from 1910' to 2000'. At 2000' cir hole clean. Trip out of hole

above 1000'. Shut down for 4<sup>th</sup> of July.

7/5/10:

Start back up. Trip in hole. Drilled from 2000' to 2057 ½ TD. CFS @ 2056' and 2057 ½'. Lost cir @ 2057 ½', cir for sample. Mix mud & LCM. Still losing fluid. Trip out of hole to 1000'. Shut down. Wait on more mud to be delivered.

7/6/10:

Start back up. Mix mud & LCM. Mixed to 40 vis and 8 pounds LCM. Trip back to bottom. Full return's. Cir hole 45 minutes. Rigged and L.D.D.P. & collars. Rigged and ran 2054' of 4 ½ casing with pack shoe. Tag bottom with casing. Picked casing up 4' off bottom. Rigged up cementers and cemented with 135 sacks cement. Job Complete.





TICKET NUMBER	28867
LOCATION Eurek	Α
FOREMAN Russel	11 mcloy

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

# FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER#	WELL NAME & NUMBER		BER	SECTION	TOWNSHIP	RANGE	COUNTY		
6-26-2010	3451	Pieratt	3 1	HР				corfey		
CUSTOMER										
HABS P	troleum 1	L.,C.		ا بربرا-	TRUCK#	DRIVER	TRUCK#	DRIVER		
MAILING ADDRE	ESS	•		SKyy	445	Justin				
800 W	est 47 +4	572 409 STATE   ZIF		Dr 19	515	Jim				
CITY		STATE ZIF	CODE	1						
KANSAS C	244	mo 6	4112	]			,			
JOB TYPE Su	THIE D	HOLE SIZE 121	<u>ų</u>	HOLE DEPTH	44	CASING SIZE & W	/EIGHT <u>  815/</u>	9		
CASING DEPTH	41	DRILL PIPE		_ PNIBUT_			OTHER			
SLURRY WEIGH	T 15 #	SLURRY VOL 8.	5 B61	WATER gal/s	4 6.5	CEMENT LEFT In	CASING 10 '			
		DISPLACEMENT P								
REMARKS:	Afety ma	eeting, Rig	_up_ 1	<u>υ 8₹8 c</u>	-Asing Br	enk circu	u nother	<u>s</u>		
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2 Bbl w	later. Good	coment R	ETUINS	40 Sun	FACE. Close	CASIAS 3	<u>. N </u>			
Joh Complete, TEAT DOWN.										
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	The motion									

ACCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	700.00	00.00F
5406	3.6	MILEAGE	3,55	106.50
1104 5	35 ski	CLASS A COMENT	13,10	458.50
1107	65 #	CACIZ = 2%	73	47.45
1118 A	65 <sup>4</sup>	Gel = 23	. 20	13.00
5407		TON Milenge Bulk Tuck	mjc	30,5,00
				7,0
	Villa			
				1630.45
			SALES TAX	<u> </u>
lavin 9737		835040	ESTIMATED TOTAL	1661.95

AUTHORIZTION called by Ben Harrell TITLE Tool Pusher Skyy Judy DATE 6-26-20/6.

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.





ticket number 28896

LOCATION Euroka

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 & NUME	BER	SECTION'	TOWNSHIP	RANGE	COUNTY
7-6-10	3451	Piratt	3-18	· · · · · · · · · · · · · · · · · · ·				Coffey
CUSTOMER	Oat							COHEY
MAII ING ADDE	Petroleum ESS	, LLC			TRUCK#	DRIVER	TRUCK#	DRIVER
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800 4	2ert 47th	Ste 409			543	Dave		
1		1	IP CODE				<del></del>	
Kansar	City	Ma	64112					
JOB TYPE 4/	5 0	HOLE SIZE 6	34"	HOLE DEPTH	2060'	CASING SIZE & W	EIGHT 41/2"	9.54
CASING DEPTH	2034	DRILL PIPE		THRING			A 45A	
SLURRY WEIGH	T 13.0"	SLURRY VOL		WATER gal/si	k ") "	CEMENTIESTE	CASING 1/21	
DISPLACEMENT	33.188	DISPLACEMENT I	osi Joo	MIX PSI Rea	P to 800	RATE		<del></del>
REMARKS:	safety Me	etar: Ria	usto 4!	" Cars	. River	Carriedado.	1.1.5.211.1	
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BOUPET.	Bys Pla	to snot	M. Wa	it 2 ms	- Polear	c Pressure.	FI 1 1	7//
Good Ci	raclation	@ all t	مدار العربلاا	L16 1	James La	C I-CJUWE.	FIDET IT	-40191
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	***************************************				706	and man		
	·							

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	. UNIT PRICE	TOTAL
5401		PUMP CHARGE	900.00	CO.00P
5406	30	MILEAGE	3.55	106.50
1131	1357k1	60/46 Poz-mis Cement	11.30	1532.23
1110A	675	5th /sk Kol-Sel	.42	28350
III8A	465年	Gel 4%	. 204	93.00
1102	115#	Caclz 2%	, 75#	86.25
1107A	68 <sup>#</sup>	Phenosed 47/sk	1.15#	78.20
540)		Ton-milege	m/c	305.00
4251	1	Type A Packer shor	1525.00	/\$25:00
4103		4'h" Cement Beskets	208.00	划16.00
4404		45" Top Rubber Play	45.00	45.00
4231 <sub>a</sub>		42 Baffle Plate	5.5.00	55.00
			Sub Tubel	5425.70
vin 3737		Thuk	SALES TAX	<u> </u>
		835113	ESTIMATED TOTAL	56849

AUTHORIZTION <u>kinacted</u> by Gray fleet TITLE Owner 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. 27<sup>th</sup> Terrace Lawrence, Kansas 66046

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

July 8, 2010

# **Geological Wellsite Report**

Well:

Pieratt 3-HP

145' S and 35' W of SE NW NE SE4

2000' fsl, 860' fel Section 8, T21S – R14E Coffey County, Kansas Lat: N38.234212 Long: W-95.887364 API: 15-031-22608-00-00 Datum: KB 1205', (GL 1198')

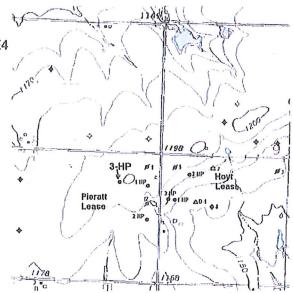
RTD: 2057.5', KB Field: Pieratt

Status: 4½' Casing Set Pending Viola Open-Hole Test

Operator:

Haas Petroleum, LLC 800 W. 47<sup>th</sup> 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 1348' and 1387' to 2057.5' and core from 1348' to 1387' below kelly bushing (KB) reached on July 5, 2010. This report includes a sample log with drilling and coring time, sample cuttings description, core descriptions and geological tops. The primary objective of Pieratt 3-HP is to evaluate and test the Viola Dolomite for oil production with a secondary objective to evaluate the oil potential of the Middle Squirrel Sandstone through core samples. Subsea corrected geological sample tops were based on a KB datum above sea level elevation of 1205', (GL 1198') obtained from a relative survey to a nearby road intersection.

**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 27, 2010, 121/4" Bit, Set ~40' of  $8\frac{5}{6}$ " Surface Casing

Completed Drig:

July 5, 2010, Set and Cemented ~2054' of 4½" Production Casing

**Drilling Notes:** 

41/2" Drill Pipe, One 5-blade PDC Bit, from 40' to 1348',

One button blt from 1348' to 1767'

One button bit from 1767' to 2057.5' (RTD)

Mud Program:

Native fresh water native mud to 1387'

Fresh water chemical gel mud from 1387' 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 29, 30, and July 1, 5, 2010. Samples and core examined from

1300' to 2057.5".

Logs, Gas Detection, Cores, DST's:

The Squirrel Sandstone was cored with a 40' core barrel from 1348' to 1387', KB. MP 2300 gas detection instrumentation was in use from 1308' to 1767'. No open-hole logs or drill stem tests were obtained for

this well.

#### **Geological Datums:**

Haas Petrole	eum, LL	Struc.Co	omparison				
Pieratt 3	3-HP	Haas Petro., LLC		Dunne Equities			
SE NW N	E SE4	Piera	tt 1-HP	Pier	att 1		
Sec. 8-T21	S-R14E	;		N2 SE	NE SE4	NE N	E SE4
Geologica	I Tops			Sec. 8-7	721S-R14E	Sec. 8-T.	21S-R14E
	Samp	le Tops	STRC	Samp	le Tops	Sampl	e Tops
Zones of Interest	KB Elev 1205'		ñ	KB EI	ev 1202'	KB Ele	v 1203'
	Depth	Subsea	COMP	Depth	Subsea	Depth	Subsea
Base Kansas City Group	1052	153	-1	1048	154	1061	142
Cherokee Group	1339	-134	+4	1340	-138	1342	-139
M. Squirrel SS	1353	-148	+6	1356	-154	1358	-155
Top of Moveable Oil	1353	-148	+9	1359	-157	na	
Base of Moveable Oil	1367	-162	+3	1367	-165	па	
Base SS	1387	-182	+3	1387	-185	na	
L Squirrel SS,	1403	-198	+4	1404	-202	1408	-205
Base SS	1418	-213	+3	1418	-216	na	
"V"-Shale	1459	-254	-4	1452	-250	na	na
Mississippian	1706	-501	0	1703	-501	1713	-510
Osage Chert Zone	1781	-576	-11	1767	-565	1778	-575
Kinderhook Shale	1978	-773	-12	1963	-761	1970	-767
Viola Dol	2050	-845	-10	2037	-835	2044	-841
Total Depth	2057.5	-852.5		2039	-837	2051	-848

## **Structural Comparisons:**

Structural comparison of subsea sample tops for Pieratt 3-HP indicates that the Viola Dolomite is 10' low to Haas Petroleum, LLC, Pieratt 1-HP lying 560' to the east and 4' low to the Dunne Equities Pieratt 1 well lying to the northeast.

# Middle Squirrel Sandstone

#### **General Core Description of Sandstone**

1353' to 1367', KB, (14'), Sandstone with siltstone interbeds, mostly dark brown to grayish-brown, very fine grained, sub-angular quartz, silty, micaceous, good oil stain, scattered (~20% of interval) bleeding oil in core, fair to good pay zone potential, abundant current ripple marks to massive bedding. Total gas readings peaked at 78 units, no gas bubbles observed. Gas readings subdued by smaller ( $4\frac{1}{2}$ ") hole.

**1367' to 1387', KB, (20')**, Sandstone, brownish-gray to dark gray, very fine grained, silty, micaceous, fair residual oil stain, no bleeding in core, no potential for pay zone, current ripple marks to massive bedded.

#### **Detailed Core Description**

#### 1348.0' to 1350.0', KB, (2.0')

Siltstone, light gray, very fine grained sandy, micaceous, poor porosity, limey, no oil stain, massive to current rippled bedded, evidence of bimodal (tidal) current direction.

#### 1350.0' to 1353.0', KB, (3.0')

Siltstone, light greenish-gray, shaley, micaceous, massive to current rippled bedded, calcareous.

## 1353.0' to 1353.7', KB, (0.7')

Sandstone, 60%, very dark brown to brown, very fine grained, silty, micaceous, good porosity, very good show of residual oil, good bleeding from unrinsed core, strong odor on fresh break, current ripple marks, calcareous; Shale laminations, 40%, light gray, silty, micaceous. Top of moveable oil column, fair to good pay zone potential.

#### 1353.7' to 1355.0', KB, (1.3')

Siltstone, light gray, limey, poor porosity, no oil stain or bleeding, faint current ripple marks, micaceous.

#### 1355.0' to 1356.5', KB, (1.5')

Sandstone, 50%, light brown to grayish-brown, very fine grained, silty, micaceous, fair porosity, strong odor on fresh break, fair show of residual oil, no bleeding on unrinsed core, current ripple marks; Siltstone and shale, 50%, light gray.

## 1356.5' to 1359.2', KB, (2.7')

Sandstone, 90%, brown to dark brown, very fine grained, silty, micaceous, good porosity, very good show of residual oil, 30% of interval has good bleeding of moveable oil on unrinsed core for a short time, current ripples; Shale laminations, 10%, light gray, silty, micaceous. *Moveable oil column, fair to good pay zone potential.* 

#### 1359.2' to 1360.4', KB, (1.2')

Sandstone, 80%, grayish-brown, very fine grained, silty, micaceous, fair porosity, good show of residual oil, no bleeding on unrinsed core, current ripples; Shale laminations, 20%, light gray, silty, micaceous.

## 1360.4' to 1362.6', KB, (2.2')

Sandstone, 90%, dark brown to grayish-brown, very fine grained, silty, micaceous, fair to good porosity, very good show of residual oil, no bleeding on unrinsed core, current ripples; Shale laminations, 10%, light gray, silty, micaceous.

#### 1362.6' to 1365.1', KB, (2.5')

Sandstone, 95%, dark brown to very dark brown, very fine grained, silty, micaceous, mostly good porosity, very good show of residual oil, 20% of interval has fair to good bleeding of moveable oil on unrinsed core for a short time, current ripples; Shale laminations, 5%, light gray, silty, micaceous. *Moveable oil column, fair to good pay zone potential.* 

#### 1365.1' to 1365.2', KB, (0.1')

Shale, gray, slity, micaceous, horizontal laminae, mud drape.

#### 1365.2' to 1366.8', KB, (1.6')

Sandstone, 80%, dark brown to grayish-brown, very fine grained, silty, micaceous, fair to good porosity, good show of residual oil, 25% of interval has fair to good bleeding of moveable oil on unrinsed core for a short time, current ripples to massive bedded; Shale laminations, 20%, light gray, silty, micaceous. **Bottom of moveable oil column, fair to good pay zone potential.** 

#### 1366.8' to 1366.9', KB, (0.1')

Shale, gray, silty, micaceous, horizontal laminae, mud drape.

#### 1366.9' to 1368.0', KB, (1.1')

Sandstone, 70%, dark grayish-brown, very fine grained, silty, micaceous, fair to good porosity, good show of residual oil, no bleeding on unrinsed core, horizontal laminations; Shale laminations, 30%, gray, silty, micaceous.

## 1368.0' to 1370.3', KB, (2.3')

Sandstone, 98%, grayish-brown, very fine grained, silty, micaceous, fair to good porosity, fair to good show of residual oil, no bleeding on unrinsed core, current ripples; Shale, 2%, gray, silty, micaceous.

### 1370.3' to 1387.0', KB, (16.7')

Sandstone, 98%, brownish-gray, very fine grained, silty, micaceous, fair to good porosity, fair show of residual oil, no bleeding on unrinsed core, mostly massive bedded; Shale, 2%, gray, silty, micaceous.

# **Lower Squirrel Sandstone**

#### Sample Descriptions

#### 1403' to 1407', KB, (4')

Sandstone, 80%, dark gray, very fine grained, sub-angular quartz, micaceous and carbonaceous, good porosity, good odor, very good show of free dark brown heavy oil rinses from samples and bleeds in sample bag, (~20 to 22 gravity), oil breaks out of samples readily; Shale, 20%, silty, sandy, micaceous and carbonaceous. Total gas readings peaked at 141 units, no gas bubbles observed. *Fair to good potential as oil pay zone*.

#### 1407' to 1412', KB, (5')

Sandstone, 80%, dark gray, very fine to fine grained, sub-angular quartz, fair to good porosity, fair odor, good to very good show of heavy oil and tar, good bleeding, micaceous and carbonaceous; Shale, 20%, gray, silty, abundant mica and carbon. *Fair potential as pay zone*.

# 1412' to 1417', KB, (5')

Sandstone, 60%, dark gray, very fine to fine grained, sub-angular quartz, fair to good porosity, fair odor, fair show of heavy oil and tar, slight bleeding, abundant mica and carbon; Shale, 40%, gray, silty, abundant mica and carbon.

#### Viola Dolomite

#### Sample Description

## 2050' to 2054', KB, (4')

Dolomite, off-white, medium to coarse crystalline, slightly sandy with 1% to 2% fine grain sub-rounded quartz, mostly poor porosity, no oil stain or odor; Sample contains shale (Kinderhook), dark gray to very dark brownish-gray, very fine mica, algal platelets, strong organic hydrocarbon-like odor. **Top of Viola cap rock**, **2050'**.

#### 2054' to 2056', KB, (2')

Dolomite, mostly off-white, 10% with good show of brown oil, coarse crystalline, some crystals faces have a slight curvature possibly from relic fossils, good intercrystalline porosity similar to fracture porosity, poor vugular porosity, fair oil odor, the porous fraction exhibits a good show of free brown oil that breaks out when crushed, oil droplets in cuttings are not well connected, trace amount of oil rinses from samples and bleeds in sample bag, good show of "frogeyes" of heavy oil breaking out on the surface of the pit that does not abate. Lost 1 to 2 feet of drilling mud from pit. Good pay zone potential.

2056' to 2057.5', KB (RTD), (1.5')

Dolomite, mostly off-white, drills quicker than above interval, good porosity, 5% of dolomite has good show of brown oil that breaks out when crushed and good show on pit, similar to that in above sample description, lost circulation, driller states that sample returns were poor, not enough mud in pit to get good samples to surface. Good pay zone potential.

#### Summary:

The Middle Squirrel Sandstone was cored from 1348' to 1387' with full recovery. The Middle Squirrel SS was present from 1353' (-148) to 1367', (-162), (34' thick) and contained scattered (~15% of interval) bleeding oil in the core from 1353' to 1367' with the best zones from approximately 1353' to 1354', 1357' to 59', 1363' to 1366', KB. The Middle Squirrel SS exhibited fair to good porosity and has fair to good pay zone potential. The Lower Squirrel Sandstone was present from 1403' (-197) to 1417', KB, (14' thick) and contained good to very good show of moveable free heavy oil from 1403' to 1412', KB. It exhibited good porosity and also has fair to good potential as pay zone, however, the oil appears heavier the Middle Squirrel.

The Viola Dolomite was present from 2050' (-845') to 2057.5' (-852.5'), KB. Good porosity was exhibited from 2054' to 2057.5', which contained a good show of oil that breaks out of the samples when crushed and continually produces "frogeyes" of oil breaking out on the surface of the pit. This zone took over two feet of drilling mud from the suction pit.

Production casing was set to a depth of ~2054' to test the Viola Dolomite through open-hole completion.

#### Recommendations:

The float shoe should be milled and the well cleaned out to RTD using a power swivel. It should then be evaluated for fluid volume and oil cut by swabbing. Much drilling mud was lost in the open hole portion (2054' to 2057.5') therefore, it is recommended that as much drilling mud as possible be removed by swabbing. The open hole should be stimulated with a proportionate treating quantity of mud acid to facilitate removal of the drilling mud. HCL acid treatment may be needed to further stimulate the well.

Respectfully Submitted,

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

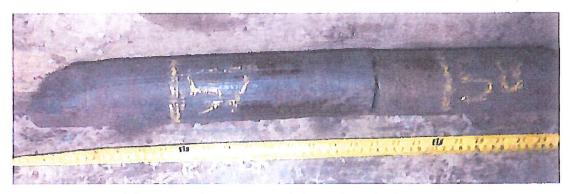
Attachments: Sample Log with Drilling Time, Photograph Log

Page 6 of 9

# Photograph Log



Middle Squirrel Sandstone, 1351.9' to 1354.1', Unrinsed Core



Middle Squirrel Sandstone, 1356.5' to 1358.4', Unrinsed Core



Middle Squirrel Sandstone, 1358' to 1360.3', Unrinsed Core

# Photograph Log



Middle Squirrel Sandstone, 1362' to 1364.3', Unrinsed Core



Middle Squirrel Sandstone, 1363.9' to 1366.2', Unrinsed Core



Middle Squirrel Sandstone, 1365.7' to 1368.3', Unrinsed Core

# Photograph Log



Middle Squirrel Sandstone, 1353' to 1370', Rinsed and Dried Core



Middle Squirrel Sandstone, 1358.5' to 1382', Rinsed and Dried Core.

	40	The state of the s		Well No: Pieratt 3-HP	Pg. 2 of 4
Depth Cithology	Shows	Penetration Rate Min./Foot	Total Gas Units	Location:/45'5+36'w+f5EMN65E4 2000'451, 860'fel, sec &-T215-R14 E	Datum/Elev. KB /205'
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1010P				and offering	
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F-1.074	E			coal Ls,/fgy,mxln,in+blw/dol,/fgy,prøl, <sup>us</sup>	Top Miss Lime
477	ŀ			LS,/Fgg,mxin,/n+bAW/001,/Fgg,F791,73 Cht,fi	1706 (-501)
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252	E		<del>╽<u>╟</u>┼┼╏╏╏╏╏</del>		
云至	F			Lsgy-tnifxlniolnsimindol AA	
JAI			717111777111111		
	ļ	<u> </u>		LS, AA, 107051454, say, 1070ch 1 34-59, 1149 Ch4 15%	
1750	E			Lsitan-ggit-csx/n, Ns	
1,50	ŀ	<u></u>			
	E			AA	
	þ	<u> </u>		a la a la bada hi mela	BIT Trip
7-1-10 1	E			L5, thighsful mics xlu, project woo	1767
	F	<del>╎╎╎╎╠┋</del> ╁╫┼┼╫	<del>  Martillian</del>		
16,7	ŧ		6ux	Mot had which I an	Osage Chert
45	<u> </u>		Peltelchiply	Cht, bodo, whipfly trp Dol, tn, Exin, gd 1xtvgø, NS	1781 (-576)
	l:	<u> </u>		Cht-70%, Dol 30% AA	
AA					
1800				5717 70761 DOI 3016 AFI	

<u> </u>			By David Griffin.	RG, Lawrence, KS	Well No: Picratl 3-HP	Pg. / of 4
Depth	-lthology	2	Penetration Rate	Total Gas	Location: 145'S435'W SEMUNESGY,	Datum/Eley.
-	ğ	Shows	Min./Foot	Units	2000'f51,860'fe1, sec8-TZ15-R14E	KB 1205 Tops/Remarks
1300		, A	0 5 10 15	0 50 100 150	Sample Descriptions  Oper: Haas Petro, LLC	Topsinalitates
6-29-10 1630P			3 3 1 th P/s	MP 3399 1	Contriskyy Drilling, LLC	
16501	FT		42 2017	PNP	APINO: 15-031-22608	63/4" 5-Blade PDC
						fresh Water
					sitstivit blu-gy, imy staks	Native Mud
	11.1				Shidkgy	coring
			4,1111111111	<del>                                      </del>	LS, 1+gnish-gg, silty dans	
	造			11 130	sh, bk	
	田		5	- V	1.C. tow-94	Cherokee
	<b> </b>					1339(-/34)
	7:-7		Lacondia !		2/+c+./+30-pulleting clases mutus beb	-
1350	· - ·				Come Desc. [1548-1387]	Mid Spuirrelss
		Tigled Tigled			1378-1363'; SISTI Hayto In-14, Imy must.	1368 (-148)
		1/1			4353'-13581' 55, Dk bn, 4 fgm, cilly, USSD 80%65 gd bled, currip. Poss PryM	15% Blockling
			i kolikaya		13557-1355; Sled ltyy, lmy, ft curiria,	1353'-1367'
	••••	Res			proposition	
		stn Stn			sous fro Currip, fr shailsty, MFO	
	· · · ·	only Bleed			143565-159,2165, Butudh by UF, s Hymice	
6-29-10	, , ,	vica	<del></del>		1355-13565' SS Hentoyy-bn, uf, silty, sows fref, Cur, rip., fr shailsty, MFO No bleeding inter the color of the ching inter the color of the ching in the color of the color o	BaseSS
6-30-0		1	+ 15 14 14	44-4-4-1-1-1	1359.2-/360.4° & 5, 6y-bn, vf, sHy, fro,	1387(-182)
6106	<u> </u>		-11-12-12-12-12-12-12-12-12-12-12-12-12-	H 44 8 1	cur.cip.	
	ļ,; ¦		<u> </u>		136011-13626'55, Dk bn to quish ba, fr who	
1400	7,7	2085H0			413676-13668 SS, VDLbn toqush bn, frydg 96905 Vall oil sto, 20% frygd bleed	L. Spuircel SS
		7- 1	-		13CLB-1348:0'; ssigksqush-brino bleed	-
		E4104				15 Thick
	7.7	3613710			1708.0-1978.5 1 55, gysh-bni frespil stu 1880 so holded, thripples, m	Base 55
}	17.7				1270.3'- 1397.0'; Es, bush-gy, sangdo, sli-	17 18'(-213)
	<u>.</u> 1				1154, 14 03-1407; 55, DKgy, Vf-4, guart,	
	]	,			1401-1412: SSAA, GdshHuydildtar	
	14				1412-1417: 63,2A, fosh Holleter	
	· - ·		<del></del>			
	1 / 1				sh, dkgy, ptlysity	
1450					Shibh	
טפרן					15,th-gg/tin/dins	"V"-shale Marker
	山			250	LI, bk, Sh, bk	1459 (-254)
					elect ultagul fants conce	1151 (201)
	平五				55, ultyy, frø, mica, Ns, interbeds	
			1 1 10 13 140 11			
	1-2				shoultggisilty, clts+ in+bds	
	<del></del>				Shiringsiandiana	
			<u> </u>	1100	coal	
	==				Shilty o to gy, min slt kw	
	15_5		<u>╶┼┼┧╃</u> ┼┼┼┼┼┼┼┼┼			
1500						
•					shiltgy to dkgg, some sltr	
			<del>╶</del> <del>┊┋</del> ╃╫╫╫╫		**************************************	
	Ι <u>Ξ</u> -			1 209	<u>.</u>	
			1151111111		sh, gy tuble	
	=-		<del>╶</del> <del>┊</del> ┆┋┼┼┼┼┼┼		244 25	
	===					
	<u> </u>				·	
			<del>╘┋┋┋</del>		2021	
6-30-10		İ			shilt gy to gy	
10 PM		1		<u> </u>		
1550						-

			By David Griffin,	RG, Lawrence, KS	Well No: Picoutt 3-HP	Pg. 3 of 4
Depth	5	ङ्	Penetration Rate	Total Gas	Location: 146's + 35'wof SEMUNGSEY	Datum/Elev.
<u> </u>	Lithology	Shows	Min./Foot 0 5 10 15	Units 0 50 100 150	2000'fsl, 860'fel, scc-8-72/5-K /4E Sample Descriptions	KB /205' Tops/Remarks
1200		94			cht, 80%, whiof-whivityy, Ptly	Voportomana
7-1-10					do 1,10%, that Hen, Extaggix & , Ms	
	Δ Δ		<del>┇╬╬╬╬╬</del>		45,10%	
	2-2				4.0	
	ΔΔ				AA	
	4					
	A <sup>A</sup> A		WALCON		1 3 a de maindres	
	72				Dol. Brif-mxln, frix pins cutisodo	
	100					
			1 1/15 34		cht, 60-80%, of-whiltsgray	
3	27				do1,40-20% AA	
1850	ZAZA					
	0/4					
	<del>/</del> <u>A</u> <del>/</del> A				L5, +n-gy, vf-mxln, pro, cht 20%	
	AA					
	岸井				AA	
	工工				LS, 90%, AA, Lh&AA 10%	
	工工					
1900	4/				A4 .	
1400	1				į.	
					Dolitai fxlai prib	
	10/10/				poil of case the er decht 104	
					LF, to-gy, f-cs xlu, p-b,ch+10%	
					sh, gh-yy	Northview Stule
ļ	岩				sh, gh-yy Lsadol intbdtsh Itgy, dolo.	
	4					
	五型					
	1				Lsigg-bniggidus	
					9h, 1+ qu-yy,do:1, fan	
1950	7-2					
•	7.7				LS, tan-ggivf-filledus	
	╟┼┯┼╢		<del>╡┋┋┋┋</del>		r yr mer v zi	
,				<del>╡</del>	LS, tan-gy1991V-ftofxln,dns,fiss,	
	<b> </b>					KinderhookShale
					shighigy, gyidkgy	Kinderhookshale 1978 (-773)
	-=-		<del>╏┋┋┋</del>		1,000,000	
	[=]					
ه، جي س	5-				AA	
7-2-10				<del></del>		shut down for Holiday atzooo'
2000					11 au duran pthydolo	Holiday atzago
7-5-10 1130A	3				+6. gyidlegy, thegriptly dolo	
•••	五五					
	12				المعام والمعارض المعارض المعار	
	F2				shybrigg to dkgy, mica, alg pltodor	
	4		┠╪╪╬╪╂┼┼┼┼┼┼┼			
					AA	
	[::]					
	늘늬		<del>┇┆╒╬╧</del> ╃╅┿┼╬┼╬┼		shivdkgy-bn+bk, v+mica, sett	
	11.12/11/11				alyl plates, strong organic petilike	
2050			<del>╏╶╎╶╏┸┤╸╏╎╏╏╏</del>			1

	E			RG, Lawrence, KS	Well No: Pieratt 3-HP	Pg. 4 of 4
Depth	ithology	Shows	Penetration Rate	Total Gas Units	Location: 145's436'Wol SENWARSEY	Datum/Elev.
2000	§	Š		50 50 100 150	2000'fsl,860'fel, scc-8-7215-R HE Sample Descriptions	Tops/Remarks
2050 7-5-10	Z.L				2050-2054 Dol, off-wh, mids Kln, prof, NS 1-206 2050 fryn	Viola
7-510	2,2	Baller	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The continue	1-20/0 ge sd fign	2050(-845)
			कड़ीसे द स्थि			Total Donth
					Es x/n, large dol xtals, some xtol fucts curved, poss remner fossils	2057.5 (-852.5)
	<b> </b>			<del>▋</del> ┤ <del>╏</del> ┆┼┼┼┼	ad show pu oil potuletu ktelsi.	
					on pity 105+ 18"drig mud	
					2056-2057,6' Dol, AA, ~5"60 of	
				<del>┇╎╎╎╏╏</del> ┼┼┼┼┼┼┼┼	2056-2056 Dol, AA, vis 10 of sample has it -gd show bu oil what breaks out only when crushed no bleeding in when crushed no bleeding in	
i	1 1				when crushed, no bleeding in	
					bag continues to put large blobs of oil ompit - 105+ cloculation, no mud	
					AND to KCISHUT ADOLUM	
					76-10-Mix mudican not get good circulation,	
			<del>┋</del>		Not open-hole Logged	
					Set casingto ~2054'KB	
			<del>▊</del> <del>▋</del> ▋▋▋	<del>┇┆╏┆╏╏</del> ┼┼┼┼┼┼┼┼┼┼┼┼	·	
			┠╬╁╬┼┼┼┼┼┼┼┼┼┼┼	<del>┇┊</del> ╪┼┼╂╬┼┼┼┼┼		
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