GEOLOGICAL REPORT

RUSSELL OIL, INC.

FERGUSON "A" NO. 1-19

Approximately in the SE SW NW

True Location: 2200' FNL & 770' FWL

19-10S-30W

SHERIDAN COUNTY, KANSAS

Commenced: April 19, 2007

Completed: April 28, 2007

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SEP 1 7 2007

Russell Oil, Inc. P.O. Box 1469 Plainfield, Illinois 60544 Re: Russell Oil, Inc. Ferguson "A" 1-19 SE SW NW 19-10S-30W 2200'FNL & 770'FWL Sheridan County, Kansas

Dear Sir:

The following is a Geological Report with a time log attached on the above captioned well.

All formation tops, zones of porosity and staining are based on rotary bushing measurements. Any correction in measurements during the drilling of this well have been incorporated into this report.

Drilling was supervised from 3600' to 4530', rotary total depth. Samples were examined from 3600' to 4530', rotary total depth.

Elevation	2874	GL 2885	KB
Anhydrite Top	2449	+ 436	
Anhydrite Base	2478	+ 407	
Topeka	3679	- 794	
Heebner Shale	3902	-1017	
Toronto	3922	-1037	
Lansing/Kansas City	3936	-1051	
Base/Kansas City	4215	-1330	
Marmaton	4247	-1362	
Pawnee	4332	-1447	
Fort Scott	4405	-1520	
Cherokee	4432	-1547	
Mississippi	4496	-1611	
Rotary Total Depth	4530	-1645	
Log Depth	4527	-1642	
5-1/2 Casing	4524	-1639	

Structurally, on top of the Lansing/Kansas City, the Russell Oil, Inc. Ferguson "A" 1-19 ran 6' high to the Russell Oil, Inc. Ferguson "B" 1-19, the control well, a Kansas City and Pawnee oil producer located 1120' to the southwest.

On top of the Pawnee, the Ferguson "A" No. 1-19 ran 4' high to the Ferguson "B" No. 1-19.

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ZONES OF INTEREST

TOPEKA (TOP 3679) 3679-3710	Light grey crystalline to sandy limes. No No show of oil and no odor.
3826 to 3834	Tan dense silty limes. One piece of white crystalline lime with a small show of black tar oil. No odor.
3842 to 3852	Light green shale, scattered tan fossiliferous limes, fine crystalline lines. No show of oil. No odor.
3860 to 3870	Scattered white crystalline, slightly fractured lime with a small show of black free oil and dead oil. No odor.
3970 to 3978	White crystalline lime with a fair show of free dead oil. No odor.
3882 to 3890	A few pieces of white crystalline lime with a fair show of free dead oil. No odor.
HEEBNER (Top 3902)	Jet black shale.
TORONTO (Top 3922) 3922-3939	Brownish, sandy lime.
LANSING/KANSAS CITY (Top 3936) 3936-3950	White cherty oolitic limes. No show of oil. No odor.
3977 to 3986	Tan crystalline limes and scattered oolitic limes.
3993 to 4004	Tan fine crystalline limes and tan loose oolitic limes.
4012 to 4020	White crystalline limes.
4031 to 4039	Tan dense and tan, slightly oolitic limes.
4040 to 4049	Tan sandy to slightly chalky limes with a small show of free dead oil. No odor.
4054 to 4062	Tan and white dense crystalline limes.
4067 to 4071	Tan, slightly vuggy lime with small show of oil and dead oil. No odor.
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4073 to 4079	Cherty, crystalline, tan lime with a small show of light free oil. No odor.
4089 4094	Scattered light tan with fairly vuggy porosity, a show of free oil and a very faint odor.
4110 to 4116	Light tan fossiliferous lime with a small to fair show of free oil, slightly vuggy porosity. No odor.
4134 to 4144	Tan and grey crystalline lime with slightly vuggy porosity. Small to fair show of free oil and a fair odor.
4147 to 4160	White and grey cherty, vuggy lime with a fair show of free oil and a good odor.
DRILL STEM TEST NO. 1 4131 to 4162	TEST: 45-60-10-15. A strong blow off bottom of bucket in 30 seconds, decreasing to a 6" fair blow. SI 60 minutes. No blow on second opening. SI 15 minutes. Recovered: 3090' of total fluid: 150' of slightly water cut mud, 180' of mud cut water, 2960' of water. Pressures: 972-1356, 1356-1356, 1356-1356, BHPS. HSP: 2163-2051. Max temp: 122 F.
4163 to 4174	Tan dense lime and scattered white crystalline limes with a small to fair show of free oil. No odor.
4180 to 4186	Grey crystalline, fossiliferous limes with a small show of free oil and a good odor.
4188 to 4193	Grey fossiliferous, slightly vuggy, fine oolicastic to pinpoint porosity with a fair to good show of free oil and a good odor.
4195 to 4200	Grey fossiliferous with a small vugular porosity with a fair show of free oil and a good odor.
4204 to 4208	Few scattered tan fossiliferous lime with a small show of free oil and a fair odor.
DRILL STEM TEST NO. 2 4163 to 4220	TEST: 60-30-30-30. Fair blow decreasing to 5" blow then increasing to a 7" blow

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DRILL STEM TEST NO. 2 (cont)

on second opening. Flushed tool twice. Tool appeared to be open. SI 30 minutes. Recovered: 40' of slightly gas cut mud, 190' of gassy, slightly oil cut mud and 90' of gassy oil cut mud. Some plugging action and perfs had blockage. Pressures: 130-183, 863-806, 336-641 Bhps. HSP: 2198-2090. Max Temp: 125 F.

BASE/KANSAS CITY (Top 4215)

DRILL STEM TEST NO. 3 (rerun)
4162 to 4220

TEST: 60-60-60-90. Fair blow increasing to good blow (6-1/2") in 60 minutes. SI 60 minutes. Very weak blow increasing to fair blow (4-1/2"). SI 60 minutes. Recovered: 85' of slightly gassy mud and 280' of gassy oil cut mud. Pressures: 154-179, 183-190, 340-352 Bhps. HSP: 2161-2108. Max Temp. 123 F.

4228 to 4234

Few light tan crystalline lime with scattered small vugginess. Small show of free oil and a faint odor.

MARMATON (Top 4247) 4247 to 4254 Tan silty crystalline limes. Few scattered, pinpoint porosity with a small show of oil and a faint odor.

CFS @ 4260

4268 to 4276

Tan to light grey dense crystalline to slightly cherty limes with a small show of oil and a faint odor.

Slightly rough drilling @ 4300

4298 to 4305

Tan fossiliferous and white crystalline limes.

4310 to 4315

One piece of white crystalline lime with a trace show of oil with a very faint odor.

PAWNEE (Top 4332) 4332 to 4340 Scattered crystalline limes with a small show of free oil and a good odor.

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4346 to 4351

Tan and white crystalline limes. Scattered white vuggy limes with a small show of oil and a faint odor.

4354 to 4358

Scattered white crystalline cherty limes with a small show of oil and a fair odor.

CFS @ 4358

DRILL STEM TEST NO. 4
4220 to 4358

TEST: 45-60-30-60. Strong blow in 10 minutes. throughout. SI 60 minutes. Open with a good blow (7"in bucket). Recovered: 490' of total fluid: 400' of slightly oil cut mud and 90' of gassy oil cut mud. Pressures: 88-216, 221-242, 414-415 Bhps. HSP: 2071-2005. Max Temp. 120 F.

4376 to 4383

White crystalline, slightly vuggy with a small show of oil and a good odor.

4386 to 4400

White crystalline limes and fossiliferous cherty limes with a small show of free oil and a good odor.

FORT SCOTT (Top 4405) 4405 to 4415 Light tan and grey fresh cherts and white crystalline limes with a trace of oil and a fair odor.

4420 to 4426

Scattered grey cherts and large crystalline limes, dense lime with a show of oil and faint odor.

CHEROKEE (Top 4432) 4432-4440 Scattered tan cherty limes with vuggy porosity. A show of oil and a faint odor.

4442 to 4450

One sand cluster with poorly sorted angular to sub-angular sand grains with specks of black tar. No odor.

Slightly rough drilling @ 4456

4454 to 4460

One piece of tan cherty, slightly vuggy lime with a small show of oil and a faint odor.

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MISSISSIPPI (Top 4496)

4496 to 4501

4509 to 4505

4521 to 4530

CFS @ 4530

ROTARY TOTAL DEPTH @ 4530

DRILL STEM TEST NO. 5 (straddle)

4130 to 4176

Tan and white crystalline limes.

Tan, brown, yellowish, slightly crystalline

limes.

Tan to yellowish, crystalline limes.

TEST: 60-60-60-60. Strong blow in 9 minutes (off bottom of bucket). SI 60 minutes. Strong blow in 14 minutes (off bottom of bucket). SI 60 minutes. Recovered 450' of gas in pipe and 560' of gassy oil cut mud. Pressures: 114-201, 211-265, 1128-994 Bhps. HSP: 2076-1936. Max Temp. 121 F.

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A LOG-TECH Radiation Guard and Micro open hole logs were run.

New 5-1/2" 15.5# casing was set @ 4524', 3' off log total depth and 28' into the Mississippi formation with 125 sx of AA-2 Cement w/4% friction reducer, .8% FLA-320, 10% salt, .75% Gas Blok, .25 lb. sx of cellflake and 5 lbs. of gilsonite.

A DV tool with a turbo centralizer below collar was set @ 2480', 2 feet below the Base of the Anhydrite and basket was placed approximately 35' below and clamp held. This second stage was then cemented with 325 sx of A-Con with 3% c.c. and 25 lbs of cellflake.

Cement did circulate to surface.

A centralizer was put on each of the first 10 joints of 5-1/2" casing run into the hole. Scraper bars intervals were calculated and then welded to cover zones: 4326-4331, 4254-4274, 4219-4224, 4192-4202, 4166-4177, 4143-4148, 4131-4136.

The casing was rotated during the cementing process.

The shoe joint is 42.75' in length and zero point is 11' above ground level.

Sincerely,

Steven D. Angle D. Angle

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DRILLING INFORMATION ON THE FERGUSON "A" 1-19

Drilling Contractor: H-2, Rig No. 1 Drillers: W. Pfaff

K. Cliff
J. Coleman

Tool Pusher: Gary Fisher

Spud Date: April 19, 2007

Date Of RTD: April 27, 2007

Surface Pipe: New 8-5/8", 23#, set @ 268'

w/200 sx comm plus 3% cc. Cement did circulate. Casing: New 5-1/2", 15.5# set @ 4524 w/125 sx. DV w/ 325 sx.

Cement did circulate.

TOTAL FOOTAGE DRILLED PER DAY

Spud		At	2:45 P.M.	On	4-19-07
860	Feet	At	7:00 A.M.	On	4-20-07
2830	**	11	11	11	4-21-07
3485	"	11	11	11	4-22-07
4162	***	11	11	11	4-23-07
4220	11	11	11	11	4-24-07
4275	11	**	11	11	4-25-07
4358	11	11	11	11	4-26-07
4530	Feet	At	4:08 A.M.	On	4-27-07

MUD RECORD

Surface - 75 sx gel, 33 sx hulls.

- 50 sx gel, 5 sx hulls, 1/2 sx drispac, 2 sx soda ash, 3 sx caustic, 1/2 sx lignite.

4162 - 50 sx gel, 5 sx hulls, 1/2 sx drispac, 2 sx soda ash, 2 sx caustic, 1/2 sx lignite.

- 60 sx gel, 1/2 sx drispac, 2 sx soda ash, 2 sx caustic, 1/2 sx lignite.
- 50 sx gel, 1/2 sx drispac, 3 sx soda ash, 2 sx caustic, 1/2 sx lignite.

4385 - 1 sx caustic, 1 sx lime.

4530 - 35 sx gel, 2 sx soda ash, 1 sx caustic, 1 sx drispac.

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DRILLERS TIME LOG

RUSSELL OIL, INC. (SE SW NW) 2200' FNL & 770' FWL 19-10S-30W FERGUSON "A" NO. 1-19

ELEVATION: 2874 GL

REMARKS

2885 KB

	DEPTH		MINUTES	
. u. u				
	3600 to	3610	$2\frac{1}{2} - 2\frac{1}{2} - 3 - 2 - 1\frac{1}{2} - 1\frac{1}{2} - 3 - 3 - 2\frac{1}{2} - 2\frac{1}{2}$	
		3620	$3-3-3-2-2-2-2-1-1\frac{1}{2}$	
		3630	$\frac{1}{2}$ -1-1-2-2-2-1-1 $\frac{1}{2}$ -1 $\frac{1}{2}$	
		3640	$1-1-1-1-1-1-1\frac{1}{2}-\frac{1}{2}-1-2$	
		3650	$1 - \frac{1}{2} - \frac{1}{2} - 1 - 2\frac{1}{2} - 1 - 2\frac{1}{2} - 2 - 2\frac{1}{2} - 1$	
		3660	$2-1-2-1-1-1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}-1-1\frac{1}{2}$	
		3670	$2\frac{1}{2}-3-2-1\frac{1}{2}-2\frac{1}{2}-2-1\frac{1}{2}-1\frac{1}{2}-2-1\frac{1}{2}$	
		3680	$1\frac{1}{2}-1\frac{1}{2}-\frac{1}{2}-1-1-1-1-1-1-\frac{1}{2}$	
		3690	$1\frac{1}{2}-2-1-1\frac{1}{2}-1\frac{1}{2}-1-1\frac{1}{2}-\frac{1}{2}-1-1$	
		3700	$1-1-1\frac{1}{2}-2-1\frac{1}{2}-1\frac{1}{2}-1\frac{1}{2}-2-3-2$	
	3700 to	3710	$1\frac{1}{2} - \frac{1}{2} - 1 - 1 - 1 - 1 - 1 - 1 - 1 \frac{1}{2} - 1 \frac{1}{2} - 2$	
		3720	$2\frac{1}{2}-1\frac{1}{2}-3-1\frac{1}{2}-1\frac{1}{2}-1-1-\frac{1}{2}-1\frac{1}{2}-\frac{1}{2}$	
		3730	$\frac{1}{2} - \frac{1}{2} - 1 - 1 - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - 1 - 1 - 1 \frac{1}{2}$	
		3740	$2-2-2-1\frac{1}{2}-1\frac{1}{2}-2-2-1\frac{1}{2}-1\frac{1}{2}-2$	
		3750	$1\frac{1}{2}-1\frac{1}{2}-2-1-1-2-2-1-1-\frac{1}{2}$	
		3760	$\frac{1}{2} - 1 - 1 - 1 - 1 - 1 - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	
		3770	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - 1 - 1 - 1 - 1$	
		3780	$1-1-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	
		3790	$\frac{1}{2}$ -1-1-1-1-3-2-2-3	
		3800	$1-1-2-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-2$	
	3800 to		$1-1-1-1-1$ $\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}$	
		3820	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2}$	
		3830	$1-1-1-2-2-2-1-1\frac{1}{2}-1\frac{1}{2}-\frac{1}{2}$	
		3840	$\frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - 1 - 1 \cdot \frac{1}{2} - 2 - 2 \cdot \frac{1}{2} - 2 - 2$	
		3850	$2-1-2-2-1-2-1-1-1\frac{1}{2}-1$	
		3860	1-2-2-2-2-3-2-2-1	
		3870	$2-2-2-1-1-1-\frac{1}{2}-\frac{1}{2}-1$	
		3880	$1-1-1-1-1-2-2-2-1\frac{1}{2}$	
		3890	$1\frac{1}{2}-2-2-1\frac{1}{2}-1\frac{1}{2}-2-2-1-\frac{1}{2}-\frac{1}{2}$	
		3900	$\frac{1}{2} - \frac{1}{2} - 1 - 2 - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - 1$	KAN

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\frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - \frac{1}{2} - 1 - 1 - 1 \cdot \frac{1}{2} - 1
3900 to 3910
                                         1\frac{1}{2}-1-2-2-3-1-3\frac{1}{2}-1\frac{1}{2}-2-2
             3920
                                         2-2-2-3\frac{1}{2}-\frac{1}{2}-2-1-1-\frac{1}{2}
             3930
                                         \frac{1}{2}-1-1-\frac{1}{2}-1\frac{1}{2}-2-3-2-2-2
             3940
                                         2-1\frac{1}{2}-1-\frac{1}{2}-\frac{1}{2}-1-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}
             3950
             3960
                                         \frac{1}{2} - \frac{1}{2} - 1 - 1 - 2 - 1 - 2 - 2 - 1 - 2
                                         1-1-1-1-1-\frac{1}{2}-1\frac{1}{2}-1-1-2
             3970
                                         3-2-2-1-3-1-1\frac{1}{2}-2-2-2
             3980
             3900
                                         2-1\frac{1}{2}-2-1\frac{1}{2}-1-2-1-1-1-2
             4000
                                         1-2-3-2-2-2-\frac{1}{2}-\frac{1}{2}-\frac{1}{2}-2
4000 to 4010
                                         1-3-2-3-3-2-2-3-2-2
                                         2-3-1-1-1-1-2-2-1-2
             4020
             4030
                                         1-3-2-2-2-1-2-2-3
             4040
                                         4-1-1-1-2-2-1-1-1-1
             4050
                                         1-1-1-1-1-2-2-1\frac{1}{2}-2\frac{1}{2}-3
                                         3-2\frac{1}{2}-2\frac{1}{2}-1\frac{1}{2}-1-1-1-1-1-1
             4060
                                         1-1-1\frac{1}{2}-1\frac{1}{2}-2\frac{1}{2}-3-3-2\frac{1}{2}-2\frac{1}{2}-2\frac{1}{2}
             4070
                                         2\frac{1}{2}-2-2\frac{1}{2}-2\frac{1}{2}-3-2-3-3-3\frac{1}{2}-3
             4080
                                         2-1\frac{1}{2}-1-2\frac{1}{2}-2\frac{1}{2}-2\frac{1}{2}-2\frac{1}{2}-2\frac{1}{2}-2\frac{1}{2}-2
             4090
             4000
                                         2\frac{1}{2}-2-1\frac{1}{2}-2-2-2-2-3-3-2
                                         2-3-3-2\frac{1}{2}-2\frac{1}{2}-3-2\frac{1}{2}-2\frac{1}{2}-3-3
4100 to 4110
             4120
                                         3\frac{1}{2}-2\frac{1}{2}-2-2-3\frac{1}{2}-3-2\frac{1}{2}-2\frac{1}{2}-2\frac{1}{2}-2
                                         2\frac{1}{2}-2-2\frac{1}{2}-2-2\frac{1}{2}-2-2\frac{1}{2}-3-3-2
             4130
             4140
                                         3-3-2\frac{1}{2}-2\frac{1}{2}-2-2-2-1\frac{1}{2}-1\frac{1}{2}-2
                                         21-2-11-2-2-21-21-21-21-21
             4150
             4160
                                         CFS @ 4162. DST #1 4031-4163.
             4170
                                         1\frac{1}{2}-1\frac{1}{2}-3-3-5-3-2-2-2-4
             4180
                                         3-2-2-4-4-3-2-3-2-2
             4190
                                         3-3-3-2-3-2-1-2-2-3
             4200
                                         3-4-3-3-3-3-3-3-2
4200 to 4210
                                         2-2-3-3-4-3-3-3-3
             4220
                                         2-3-2-1-2-2-2-3-4-3
                                                                                                CFS @ 4220. DST #2 4163-4220 &
                                                                                                                     DST #3 4163-4220.
              4230
                                         3-5-4-4-3-4-4-4-4
                                         4-2-2-4-4-4-3-2-2-2
              4240
              4250
                                         2-2-2-3-3-2-2-3-3
              4260
                                         2-5-4-5-4-5-4-4-5-4
              4270
                                         4-3-3-3-5-3-4-3-4-4
                                         2-2-3-4-3-2-2-2-3
              4280
              4290
                                         4-4-3-4-4-2-3-2-3
              4300
                                         2-3-21-21-4-4-4-5-4-5
                                                                                                Slightly rough drilling @ 4292
                                                                                                & 4300.
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4300 to 4310	5-3-3-5-3-4-5-31/2-4-31/2	
4320	4-3-3-4-5-5-5-5-4-2	
4330	$3-4-3\frac{1}{2}-4-3-3\frac{1}{2}-3\frac{1}{2}-3\frac{1}{2}-3\frac{1}{2}-2\frac{1}{2}$	
4340	$2\frac{1}{2}-3-2\frac{1}{2}-4-3-2\frac{1}{2}-2\frac{1}{2}-3-2-3$	
4350	$1-2\frac{1}{2}-2\frac{1}{2}-3\frac{1}{2}-2\frac{1}{2}-2-2-2-2-2$	
4360	$2-3-1-2-2\frac{1}{2}-3\frac{1}{2}-3\frac{1}{2}-2\frac{1}{2}-2-2$	CFS @ 4358. DST #4 4220-4358.
4370	4-3-3-4-4-3-4-4-3-4	
4380	4-3-3-3-3-2-4-2-3-23	
4390	$3-2\frac{1}{2}-2-4-3\frac{1}{2}-2\frac{1}{2}-3-4-2\frac{1}{2}-3\frac{1}{2}$	
4400	$2-3-2-2-3\frac{1}{2}-2\frac{1}{2}-4-4-3\frac{1}{2}-2\frac{1}{2}$	
4400 to 4410	$3-2-3-2-2\frac{1}{2}-2\frac{1}{2}-2\frac{1}{2}-2\frac{1}{2}-2\frac{1}{2}-3$	
4420	$2-4-3-3\frac{1}{2}-3\frac{1}{2}-2\frac{1}{2}-2\frac{1}{2}-4-3-4$	
4430	3-3-4-2-2-4-3-3-4-3	
4440	3-3-3-4-4-3-5-2-3-3	CFS @ 4434.
4450	$4-3-3\frac{1}{2}-3\frac{1}{2}-4-2\frac{1}{2}-3-1\frac{1}{2}-2\frac{1}{2}-4$	Slightly rough drilling @ 4556.
4460	3-3-3-4-3-3-3-3-3-3-4	
4470	3-3-3-4-3-3-3-4-4-3	CFS @ 4462.
4480	3-3-3-3-3-4-5-4-3-3	010 (1101)
4490	3-3-4-4-5-4-4-4-4	
4500	5-4-2-3-3-3-2-3-2-3	
4500 to 4510	4-4-3-4-4-6-2-4-3	
4520	4-4-4-4-3-4-4-5-4	
4530	4-5-4-4-5-5-5-5-4-5	CFS & RTD @ 4530. DST #5 4130- - 4176 (straddle test).

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GEOCERTIFIED, LLC

PO Box 860287 Shawnee, KS 66286 913 544 7527 KEVIN BAILEY

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COMPANY:	RUSSE	LL OIL, In	c. LeRoy Ho	olt	WELL: Ferguson 1-19	
FIELD:	Zelda			co	OUNTY: Sheridan STATE: Kansas	
LOCATION:	SE-SW-	NW Sec.1	9, Twp.10S,	Rng.30	30W	
	2200ft f	rom North	line of sec	tion and	nd 770ft from West line of section 19	
Interval Logge	ed: <u>357</u>	'0'	To:	4530	30' LTD G.L.: 2874.0' K.B: 2885.0'	
Date Logged:	04/2	21/2007	To:	4/27/	7/07 Spud Date: <u>04/18/2007</u>	
Rig:	H2 Drill	ing, LLC 1	P-G. Fisher		Unit No.: _Rig#1	
Loggers:	Log-Tec	ch/Hays, k	(S- Hydroca	rbon De	Detector PBI2006 by	
Api No.:		21170-000				
Filename:	Russell	_1_19_Fe	rguson.mlw	!		
Geologist:	Steve A	ngle				
Abbreviati	ons:				Lithology Symbols: Gas Chromatograph Analys	sis:
	Drill Sten			Anhydrite	rite HW C1	
NRNo Returns CG.	.Directiona	on gas	===== 9	Siltstone		
	Logged / .Pump Pres		F 4804	Dolomite	te C3	
RPMRev/Min SPM	Strokes/	Min		Coal	IC4 ————————————————————————————————————	
		ine Gas			hale Granite Wash To Quartz Wash	
Mud Data	VViscosity	v			Accessories	
PHAcidity	FFiltrate				ite DD Pyrite GG Fossils 1 0 Oolites	
CHLChlorides	SCSolids	Content	◆ ◆ Fr	actures	s Cement	
		Vis		%		
		Por		Oil Cut Flu		
Drilling Rate			Lithology	Tr/ Tr/	3.4	ks
FT/HR		g f		pfg pfg	pfg	
	3600					
100 75 50 2	5				25 50 75 100 125 150 175	
					SIN CM INV IAM INV II	
Set up gas detector and depth rec	order					









