

Scale 1:240 (5"=100") Imperial **Measured Depth Log**

Well Name: Nattier Trusts #1 API: 15-079-20717

Location: N2 - SW - SE _ Sec. 16 Twp. 24S Rge. 2E License Number: 30742

Region: Ness County, KS

Spud Date: 3/17/2019

Drilling Completed: 3/26/2019

Surface Coordinates: 426' FSL & 2310' FEL

Bottom Hole Same as surface coordinates

Coordinates:

K.B. Elevation (ft): 1439'

Ground Elevation (ft): 1434' Logged Interval (ft): 1500'

Total Depth (ft): 3500'

To: 3500' Formation: Arbuckle @ RTD

Type of Drilling Fluid: Mud-Co. Chemical Drispac

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Palomino Petroleum, Inc.

Address: 4924 SE 84th St.

Newton, KS 67114

GEOLOGIST

Name: Eli J. Felts

Company: Gravity Oil, LLC

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Wichita, KS 67218

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Formation Tops

SAMPLE TOPS

LOG TOPS

Heebner	1959 (-520)	Heebner	1958 (-519)
Brown Lime	2143 (-704)	Brown Lime	2142 (-703)
Lansing	2212 (-773)	Lansing	2211 (-772)
Stark	2556 (-1117)	Stark	2553 (-1114)
B/KC	2610 (-1171)	B/KC	2608 (-1169)
Marmaton	2668 (-1229)	Marmaton	2662 (-1229)
Altamont	2770 (-1331)	Altamont	2666 (-1327)
Pawnee	2798 (-1359)	Pawnee	2795 (-1356)
Ft. Scott	2826 (-1387)	Ft. Scott	2822 (-1383)
Cherokee Shale	2839 (-1400)	Cherokee Shale	2836 (-1397)
Burgess Sand	2855 (-1416)	Burgess Sand	2852 (-1413)
Mississippian	2916 (-1477)	Mississippian	2916 (-1477)
Kinderhook	3138 (-1699)	Kinderhook	3137 (-1698)
Hunton	3228 (-1789)	Hunton	3228 (-1789)
Maquoketa	3285 (-1846)	Maguoketa	3284 (-1845)
Viola	3312 (-1873)	Viola	3312 (-1873)
Simp Sand	3359 (-1920)	Simp Sand	3359 (-1920)
Simp Shale	3377 (-1938)	Simp Shale	3377 (-1938)
Arbuckle	3421 (-1982)	Arbuckie	3421 (-1982)
RTD	3500 (-2061)	RTD	3499 (-2060)

Drilling Report

Moved in WW Drilling, L.L.C. rotary tools (Rig #4). Spudded at 5:45 p.m. Ran surface casing. Plug down at 12:00 a.m. 3/18/19

3/18/19

Waiting on cement.

3/19/19

Drilling @ 1533'

3/20/19

Drilling @ 2035'

Ran Gyro survey to check hole deviation.

3/21/19

Drilling @ 2310'

3/22/19

3/22/19 Drilling @ 2705' **DST #1** 3/23/19 Drilling @ 2920' 3/24/19 **DST #2** 3/25/19 **DST #3** 3237' (welding on flow nipple) 3470' (drilling rat-hole) Logged well 3/27/19 Ran 5.5" 15.5# Oil String of Casing

Drill Stem Tests

DST #2 Hunton

DST #1 Burgess Sand Interval: 2838'-2860' (22') Anchor 15-30-15-30 IF: sb built to 123" ISI: wk sfc bb FF: built to 75" FSI: 6" bb SIP: 756-757# IF: 150-386# FF: 396-534# Hydrostatic: 1426-1403#

BHT: 107 F

RW: 0.147 @ 56.4 Deg

Recovery: 1200'

65' GIP

260' GVSO&HMCW (15% G 4% O 47% W 34% M) 940' GOSSMCW (4% G 1% O 88% W 7% M)

Interval: 3137'-3232' (95') Anchor 30-30-60-60 IF: wb built to 5" ISI: no bb FF: wb built to 9" FSI: no bb SIP: 1231-1236# IF: 21-44# FF: 47-81#

Hydrostatic: 1538-1530#

BHT: 104 F

Grav: 27.5 API @ 60 Degrees

Recovery: 155' TF

75' CO

80' OCM (17% O 83% M)

DST #3 Hunton Interval: 3137'-3237' (100') Anchor

30-30-60-60 IF: built to 17" ISI: no bb FF: built to 38" FSI: 1/2" surface bb

SIP: 1230-1237# IF: 25-109# FF:109-210#

Hydrostatic: 1533-1527#

BHT: 105

Grav: 26.3 API @ ambient Degrees

Recovery: 445' TF

165' CO

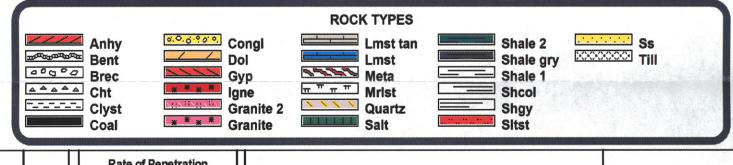
160' GOCM (8%G 13%O 79%M) 120' OCM (20% O 80%M)

Pipe Setting

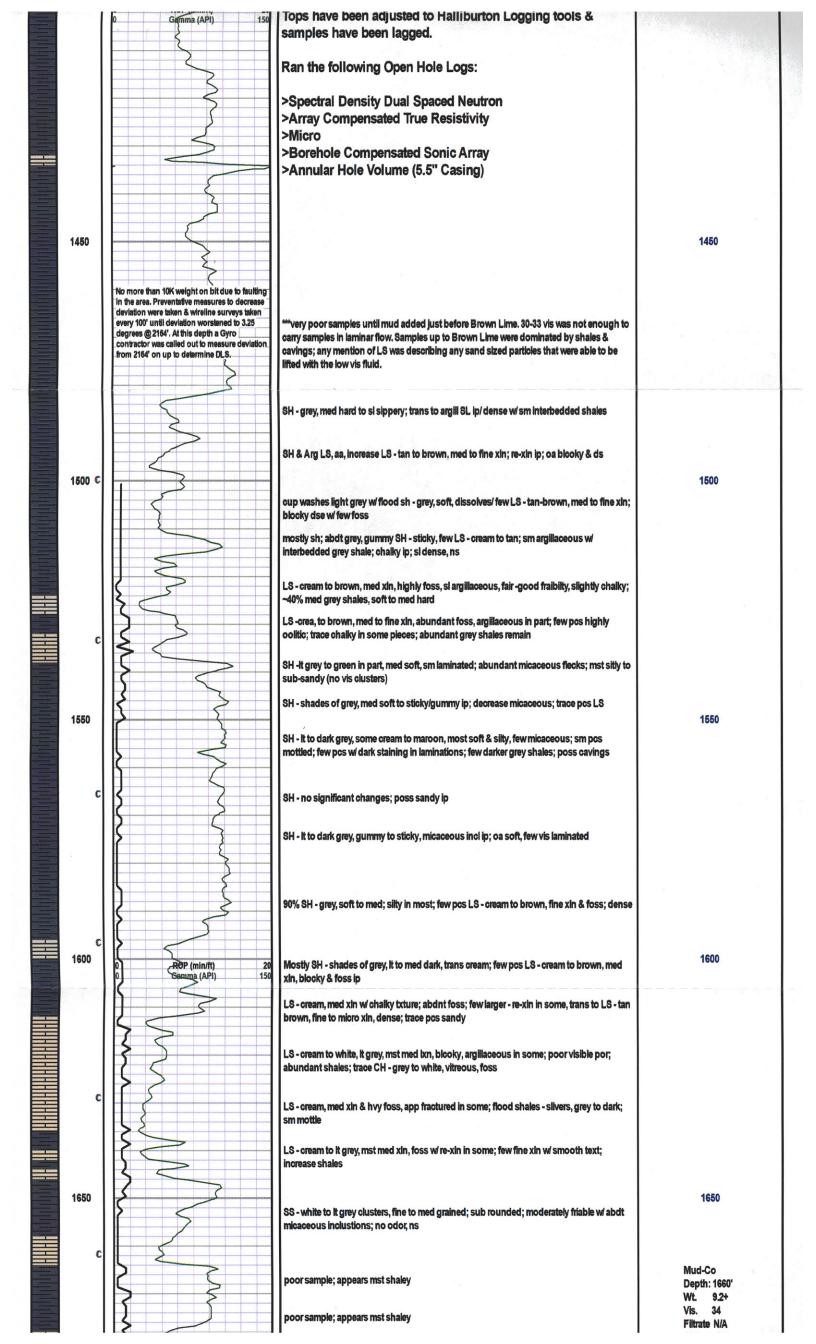
3/17/2019

Ran 5 jts. new 8 5/8" 23# surface pipe set at 218' and cemented w/ 170 sacks Class A, 2% gel, 3%c.c . Cement did circulate. Plug down at 12:00 a.m. on 3/18/19

Ran 84 jts. new 5.5" 15.5# Range 3 casing set 8' off bottom @ 3492'. Pumped 500 gal. mud flush with additives followed by 20 bbls. KCL water and cemented w/ 200 sacks SMD cement & 100 sacks EA-2 cement. Pugged rathole w/ 30 sacks SMD cement. Plug down @ 2:15 p.m. Baskets @ 3365' & 1651'. Centralizers at 3408', 3365', 3280', 3237', 3200', 3157', 3085', 2999', 2919', 1651'. Shoe joint = 42.45'.



Rate of Penetration ROP (min/ft) Gamma (API) DSTs/Mud/Surveys, etc. **Geological Descriptions** tholo 9 ROP (min/ft) Tons have been adjusted to Halliburton Logging tools &



Second Seesan	3 99	3		Filtrate N/A Chi 1,700 LCM TRC
COM ANTONIO DO CHOICE CONTROLLE DE CONTROLLE ANTONIO DE CONTROLL			pqs; few cream LS - med xin & abundant shales; v. fine cuttings	
MOCRANIC SCHOOLS RESUMMENTATIONS RECORDS SCHOOLS RECORDS SCHOOLS RECORDS SCHOOLS RECORDS SCHOOLS RECORDS RECORDS RECORDS RECORDS RECORDS RECORDS	1700		pqs; abdundant fines; LS - cream to tan, brown & varioolored shales	1700
SCHOOLS SCHOOL SCHOOL SCHOOLS				
perfectorary property			pqs; abdundant fines; LS - cream to tan, brown & varicolored shales	
Microsoft (Scholand Microsoft Committee Microsoft Committee Microsoft Microsoft Microsoft Microsoft Microsoft Microsoft	С	\$ 5		
Hyperical Solitons Hyperical Solitons Hyperical Solitons			SH - varicolored as above, few darker, sub carb	
MOCRANIA FICANCIA	1750		SH - aa , few clusters SS - app grey to white, fn-md grnd, sub rounded; gd friabilty; mst barren w/ few mic & gluac inclusions	1750
Ministrato Considera Securitaria Instituta Alexandra Ministrato Alexandra Ministrato Min	С		SH - varicolored; mottled in some, most soft to med to firm in part	
SAGGESSA CARRACA CONTRIBUTATIONS CONTRIBUTATIONS CONTRIBUTATION CO	1.2		SH - varicolored; mst green, grey, maroon, sm mottled, soft to friable in some, few dark grey	
MARINE DOMINE DE LE CONTROL DE			>90% SH, varicolored; trace fine cuttings is, etc on edges	
Addition a common	С		very poor sample; primarily shale cavings & sub-sand sized cuttings of LS, etc; check VIS	
REPORTED FORMALIS REPORTED FOR	1800	0 ROP (min/ft) 20 0 Gamma (API) 150	LS - cream to white; abdundant shales; very poor sample LS - cream & others, few ss; abundant shales, varicolored. Cuttings v. fine	1800
SECRETARION DE COMPANION DE COM		3	Mostly shales; few LS -cream, grey, few yellow-soft & chalky; few foss, partial re-xin; very poor sample	
	С		pqs, v. fine cuttings; flood shales & limes, few sandy	3
	W.	5	as above	
	1850 C		pqs; increase LS -white to cream, foss ip, sm ooc w/ partial staining; abundant shales	1860
PORTORIO DI PORTOR			v. fine cuttings; LS - cream, sm occ, few staining; abundant shales	
		\$ 5	PQS v. fine cuttings; LS - cream, sm occ, few staining; abundant shales	
	С	3	varicolored shales; few v. fine LS & SS cuttings	
		7	99% SH - grey - green, minute trace LS - white, fine xin	
	1900		99% SH	1900
			99% SH	
Indended debated formation-communication parameter interests and an interest interests	١	*		
STATEMENT STATEM				
Mariana primara primara primara primara primara primara primara	1950 C		Mostly SH - few LS - cream to white, fine to med xin, some re-xin; friable to chalky, ques stain	1950

