

# White Exploration, Inc.

## Chain Ranch 'A' #2

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

Well Name: Chain Ranch 'A' #2  
Location: N/2 SE SE NE of Section 1-T31S-R12W  
License Number: API 15-007-24018-00  
Spud Date: 5/14/2013  
Surface Coordinates: 2,050' FNL & 330' FEL  
Region: Barber Co., KS  
Drilling Completed: 5/20/2013  
Bottom Hole Coordinates: 2,050' FNL & 330' FEL  
Ground Elevation (ft): 1,689' K.B. Elevation (ft): 1,699'  
Logged Interval (ft): 3,500' To: 4,548' Total Depth (ft): 4,548'  
Formation: Kinderhook  
Type of Drilling Fluid: Chemical

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

### OPERATOR

Company: White Exploration, Inc  
Address: 1635 N. Waterfront Parkway  
Suite 100  
Wichita, KS 67206

### GEOLOGIST

Name: Thomas M. Williams  
Company: Petroleum Geologist  
Address: Wichita, KS

### CORE

Contractor:  
Core #:  
Formation:  
Core Interval: From: Cut:  
To: Recovered:  
Bit type:  
Size:  
Coring Time:

### Formation Tops

	Sample Top	E-Log Top
Oread Lime	3563 (-1864)	3561 (-1862)
Heebner Shale	3614 (-1915)	3612 (-1913)
Toronto Lime	3625 (-1926)	3624 (-1925)
Douglas Shale	3641 (-1942)	3636 (-1937)
Douglas Sand	3664 (-1965)	3664 (-1965)
Brown Lime	3823 (-2124)	3822 (-2123)
Stark Shale	4174 (-2475)	4172 (-2473)
Hushpuckney Shale	4213 (-2514)	4210 (-2511)
Mississippian Chert	4359 (-2660)	4358 (-2659)
Kinderhook Shale	4436 (-2737)	4436 (-2737)

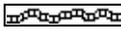
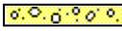
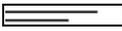
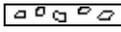
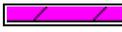
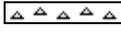
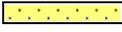
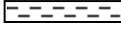
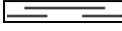
### DSTs

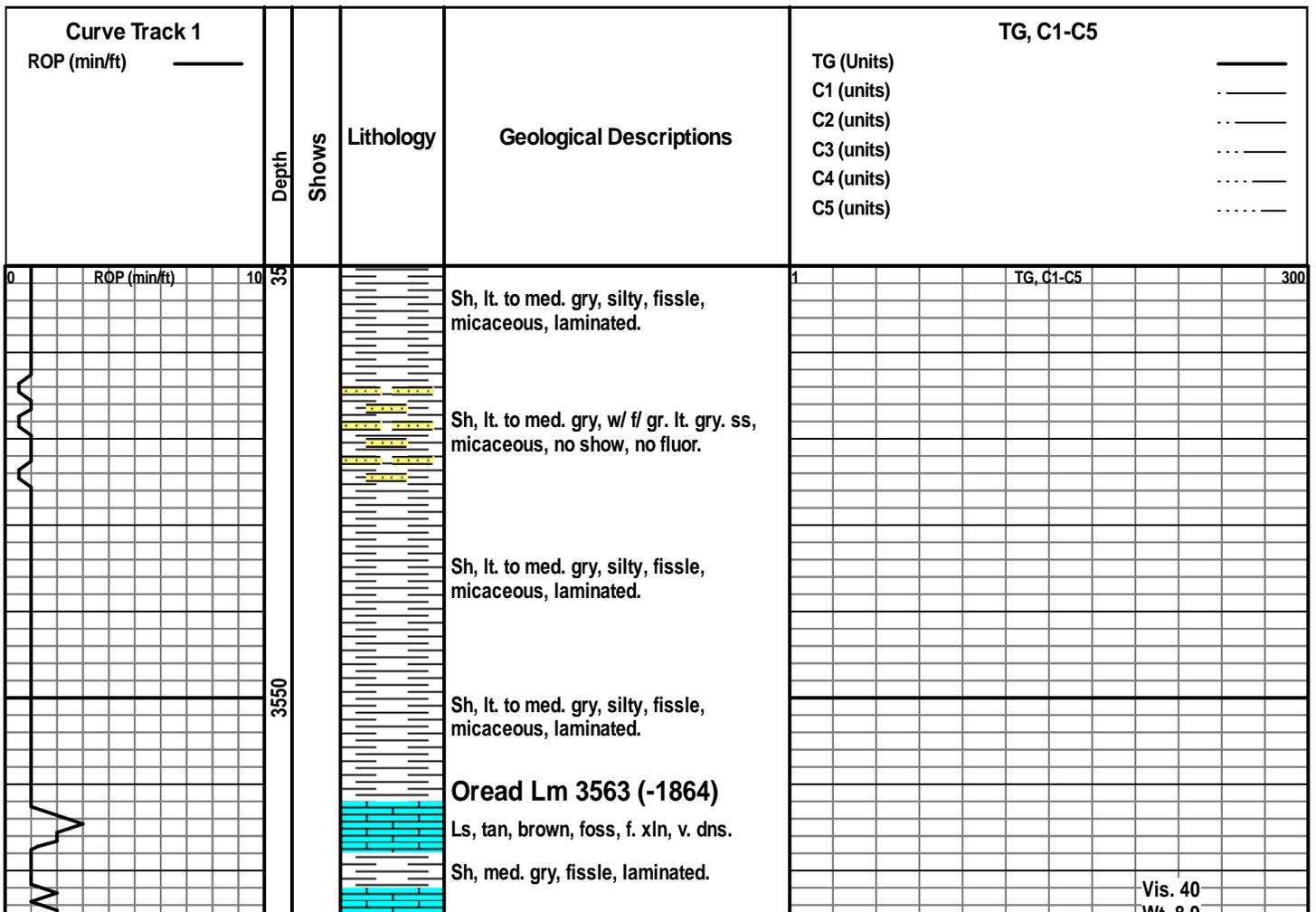
None

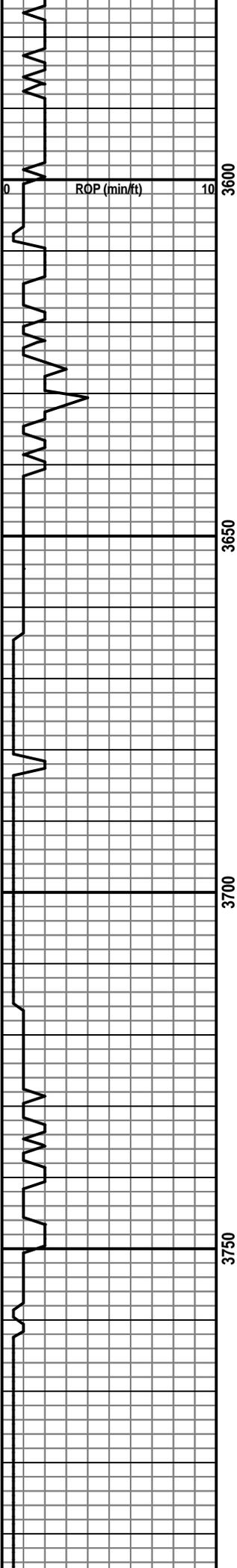
### Comments

Due to the good shows of oil in the Mississippi Chert, positive structural position and electric log calculations, it was decided to further test the Chain Ranch 'A' #2 through production casing.

### ROCK TYPES

 Anhy	 Carb.sh	 Lmst	 Shcol
 Bent	 Congl	 Meta	 Shgy
 Brec	 Dol	 Mrlst	 Sltst
 Cht	 Gyp	 Salt	 Ss
 Clyst	 Igne	 Shale	 Till





Ls, tan, brn, buff, f. xln, v. dns, no vis. porosity, no show, no fluor, no odor, no staining.

Ls, tan, brn, buff, f. xln, v. dns, no vis. porosity, no show, no fluor, no odor, no staining

Sh, drk. gry, blk, carb, fissle.

Sh, black, carb, bleeding abdt. gas.

Ls, tan, brown, foss, f. xln, v. dns.

**Heebner Sh 3614 (-1915)**  
Sh, black, carb, bleeding abdt. gas.

Ls, tan, brown, foss, f. xln, v. dns.

Sh, lt. to med. gry, fissle, laminated

**Toronto Lm 3625 (-1926)**  
Ls, crm. wh, buff, f-m xln, foss, p-f dev. int. xln. & vug. porosity, no shows, chalky fluor, no staining.

**Douglas Sh 3641 (-1942)**  
Sh, lt. to med. gry, micaceous, fissle, laminated.

Sh, lt. gry, fissle, silty, laminated.

Sh, lt. to med. gry, micaceous, fissle, laminated.

**Douglas Sd 3664 (-1965)**  
SS, lt. gry, f-m gr, sub-ang, fair sort, micaceous, laminated, fair dev. int. gr. porosty, no show, no fluor, no odor, no staining.

SS, lt. gry, f-m gr, sub-ang, fair sort, micaceous, laminated, fair dev. int. gr.

Sh, lt. gry, fissle, silty, laminated. r, no staining.

Sh, lt. to med. gry, micaceous, fissle, laminated.

Sh, lt. gry, fissle, silty, laminated.

Sh, lt. to med. gry, micaceous, fissle, laminated.

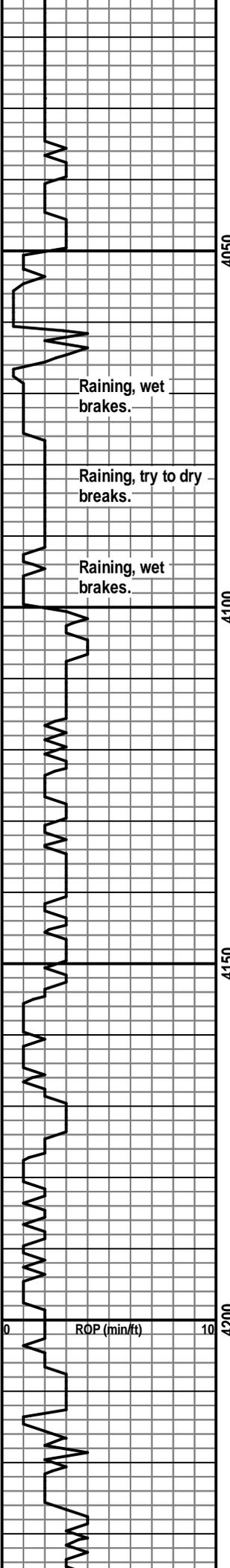
Sh, lt. gry, fissle, silty, laminated.

SS, lt. gry, f-m gr, sub-ang, fair sort, micaceous, laminated, fair dev. int. gr. porosty, no show, no fluor, no odor, no staining.

SS, lt. gry, f-m gr, sub-ang, fair sort, micaceous, laminated, fair dev. int. gr. porosty, no show, no fluor, no odor, no staining.

1	TG, C1-C5	300
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4050

4100

4150

4200

Raining, wet brakes.

Raining, try to dry brakes.

Raining, wet brakes.

ROP (min/ft)

Ls, buff, tan, f-m xln, w/ c. xln. sparite, p-f dev. int. xln. porosity, no show, no fluor, no odor, no stn.

Ls, buff, tan, f-m xln, w/ c. xln. sparite, p-f dev. int. xln. porosity, no show, no fluor, no odor, no stn.

Ls, buff, tan, f-m xln, w/ c. xln. sparite, p-f dev. int. xln. porosity, no show, no fluor, no odor, no stn.

Sh, med. to drk. gry. dns, fissle.

Ls, tan, buff, m. xln, v. brittle, oolitic, w/ well dev. oomoldic por., no shw, no fluor, no odor, no stn.

Ls, buff, tan, f-m xln, w/ c. xln. sparite, no vis. porosity, no show.

Ls, buff, f-m. xln, v. brittle, foss, w/ well dev. int. foss. porosity, no shows, no fluor, no odor, no stn.

Ls, crm. wh, buff, f-m xln, granular, dns, p. dev. to no vis. porosity, no show, no fluor, no odor, no staining.

Ls, buff, f-m. xln, v. brittle, foss, w/ well dev. int. foss. porosity, no shows, no fluor, no odor, no stn.

Ls, crm. wh, buff, f-m xln, granular, dns, p-f int. xln. porosity, no show, no fluor, no odor, no staining.

Ls, buff, tan, f-m xln, w/ c. xln. sparite, no vis. porosity, no show, w/ abdt. gry. fissle shale.

Ls, buff, tan, f-m xln, w/ c. xln. sparite, no vis. porosity, no show, w/ abdt. gry. & green fissle shale.

Ls, buff, tan, f-m xln, w/ c. xln. sparite, no vis. porosity, no show, w/ abdt. gry. & green fissle shale.

Ls, crm. wh, buff, m. xln, v. foss, pell., fair to well dev. int. foss. & vug. porosity, no show, no fluor, no odor, no staining.

**Stark Sh 4174 (-2475)**

Sh, black, carb, bleeding abdt. gas.

Ls, tan buff, m. xln, brittle, foss, fair to well dev. int. foss & vugular porosity, no show, no fluor, no odor, no stn.

Ls, tan buff, m. xln, brittle, fair to well dev. vugular porosity, no show, no fluor, no odor, no stn.

Ls, buff, tan, f. xln, v. dns, p. dev. to no vis. porosity, no shw, no fluor, no odor, no staining.

**Hush Sh 4213 (-2514)**

Sh, black, carb, bleeding abdt. gas.

Ls, buff, tan, m. xln, granular, foss, fair to well dev. int. xln. & vug. porosity, no shows, no fluor, no odor, no staining.

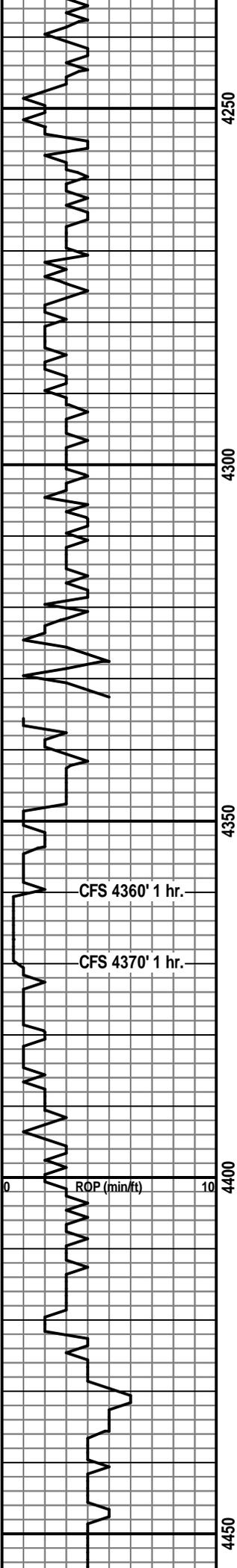
Ls, buff, tan, f. xln, v. dns, p. dev. to no vis. porosity, no shw, no fluor, no odor, no staining.

Vis. 46  
Wt. 9.0

TG, C1-C5

300

Vis. 48  
Wt. 9.3



no staining.

Sh, med. to drk. gry, dns, fissle.

Ls, buff, tan, f. xln, v. dns, p. dev. to no vis. porosity, no shows.

Ls, buff, tan, m. xln, granular, fair dev. int. xln. por., no shows.

Sh, med. to drk. gry, dns, fissle.

Ls, tan, brn, gry, v. dns, micritic, no vis. por., no shows, no fluor.

Ls, tan, brn, gry, v. dns, micritic, no vis. por., no shows, no fluor.

Sh, lt. to med. gry, green-gry, silty to calcareous, fissle, laminated.

Ls, tan, brn, gry, v. dns, micritic, no vis. por., no shows, no fluor.

Sh, lt. to med. gry, green-gry, silty.

Ls. crm. wh, buff, f. xln to micritic, no vis. por., no shows, no fluor.

Ls, buff, tan, crm. wh, f. xln to micritic, v. dns, no vis. porosity, no shows, no fluor, no odor, no stn.

Sh, drk. gry. to blk. carbonaceous.

Ls, buff, tan, crm. wh, f. xln to micritic, v. dns, no vis. porosity, no shows, no fluor, no odor, no stn.

Sh, red-brn, gry, soft, mushy-clay.

Cht, orange, wea., no shw, no stn.

**Miss. Cht. 4359 (-2660)**

Cht, wh, tan, wea., sli. dolo, f-w dev. vug. & int. gr. por, good shw of oil and gas, dull gold fluor, fair odor, tan uneven to sat. staining.

Cht, wh, fresh to weathered, sli. dolo, p-f dev. vug. & int. gr. por, good shw of oil and gas, dull gold fluor, fair odor, tan to black uneven to sat. staining. 40% of Cht. with no porosity or show.

Cht, wh, fresh, poorly dev. vug. porosity, sli. shw of oil and gas, no fluor, sli. odor, brn. to blk. uneven stng. 60% of Cht. with no porosity or show.

Sh, lt. to med. gry, fissle blades.

Cht, wh, fresh, poorly dev. to no vis. porosity, w/ buff Ls, sli. shw of oil and gas, no fluor, sli. odor, brn. to black stn.

Sh, lt. to med. gry, mottled, dns, fissle to non-fissle, few foss.

Ls, buff, tan, lt. gry, f. xln, v. dns, no vis. porosity, no show, no fluor, no odor, no staining.

**Kinderhook Sh 4436(-2737)**

Sh, med. to drk. gry, dns, silty in part, fissle, laminated, tr. pyrite.

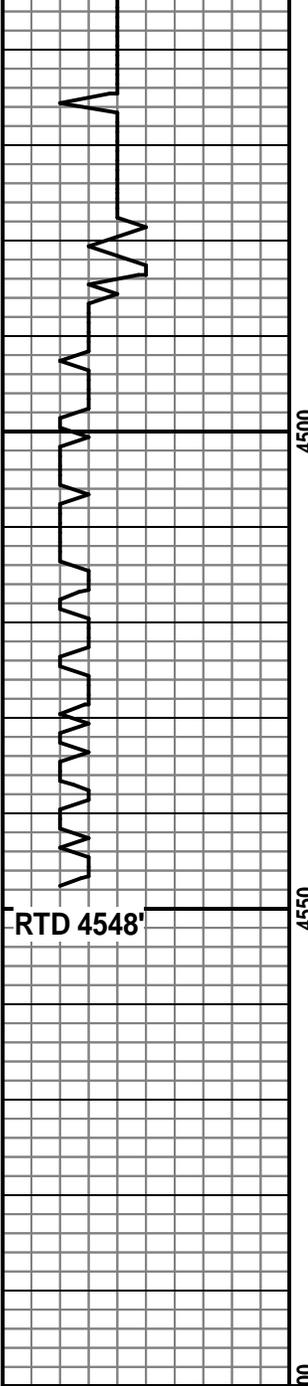
Mud-Co report  
@ 4264'  
Wt. 9.5  
Vis. 44  
PH 9.0  
W.L. 13.2  
Chl. 5,000  
LCM 0#

Vis. 60  
Wt. 9.5

1st show in 60"  
circulating sample  
@ 4360'.

TG, C1-C5

Vis. 49  
Wt. 9.2



4500

4550

RTD 4548'

00

Sh, lt. to med. gry, fissle blades.

Sh, lt. to med. gry, gry-grn, fissle blades, tr. pyrite.

Sh, lt. to med. gry, lt. gry-grn, dns, silty in part, fissle, laminated.

Sh, lt. gry, silty, soft, non-fissle.

Sh, lt. to med. gry, lt. gry-grn, dns, silty in part, fissle, laminated.

Sh, lt. to med. gry, fissle blades.

Sh, lt. to drk. gry, lt. gry-grn, dns, silty in part, micaceous, fissle.

Sh, med. to drk. gry, fissle blades.

Vis. 46  
Wt. 9.2

Vis. 50  
Wt. 9.2

Vis. 55  
Wt. 9.5  
LCM 2#

Strap .18 short  
Survey 1 degree

Mud-Co report  
4,548' 7:00 AM  
Wt. 9.5  
Vis. 44  
PH 9.5  
W.L. 12.8  
Chl. 5,000  
LCM 2#