

LITHOLOGY STRIP LOG

WellSight Systems

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

Measured Depth Log

Well Name: HERMAN L. LOEB LLC. TEMPLE "B" #6-7

Location: SW SE NW SW SEC. 7, T10S, R20W, ROOKS CO. KANSAS

License Number: 15-163-24038-00-00

Region: COOPER

Spud Date: 5/12/12

Drilling Completed: 5/21/12

Surface Coordinates: 1,660' FSL, 688' FWL

Bottom Hole Coordinates:

Ground Elevation (ft): 2,214

K.B. Elevation (ft): 2,225'

Logged Interval (ft): 2,900' To: 3,830'

Total Depth (ft): 3,830'

Formation: RTD IN; ARBUCKLE

Type of Drilling Fluid: Native Mud to 2,808'. Chem. Gel. to RTD (3,830').

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

OPERATOR

Company: HERMAN L. LOEB LLC.

Address: PO BOX 838

LAWRENCEVILLE IL 62439

(812-453-0385)

GEOLOGIST

Name: James R Hall (Well Site Supervision)

Company: Black Gold Petroleum

Address: 5530 N. Sedgwick

Wichita, Kansas 67204-1828

(316) 838-2574, (316)-217-1223

Comments

Drilling contractor: Sterling Drilling, Rig #2, Pusher: Uvaldo Martinez, Spud 5/12/12. RTD (3,830').

Surface Casing: 12.25" set at 261' w/170sx, cement did circulate.

Production Casing: 5.5".

Deviation Surveys: 1.00 @ 261', 0.75 @ 3,542', 0.75 @ 3,830'.

Bit Record:

#1 12 1/4" 1.25 hrs. out @ 261'.

#2 7 7/8" JZ QX20 in @ 261', out @ 3,830', made 3,830' 93.25 hrs.

Drilling time commenced: @ 3,000'. Minimum 10' wet and dry samples commenced: @ 3,000' to 3,830'. Samples delivered to Kansas Geological Sample Library at Wichita, Kansas.

Gas Detector: Sterling, unit. #1 Tooke Daq. Hotwire gas values were lagged by the Tooke Daq and placed in the Geologic Strip Log, by the well site geologist.

Mud System: Mud-Co/Service Mud. Chemical Gel system @ 2,808', Mud Engineer: Gary Schmidtberger.

DST CO. Trilobite, Tester: Dustin Rash (Hays).

OH Logs: Log Tech (Hays Kansas),

Operator: C. Desaire.

DIL, CDL/CNL, MEL.

Note: Correlation of the OH Logs with the Rotary drilling time indicates the OH Log depths are approximately 1 to 2 feet difference to the drilling time depths, therefore no correction was made to the gamma ray or caliper curves on this strip log.

E- Log Formation Tops: Anhydrite 1,716 (+509), Topeka 3,248 (-1023), Heebner 3,448 (-1223), Toronto 3,470 (-1245), Lansing "A" / "B" 3,488 (-1263), "C" 3,528 (-1303), "F" 3,570 (-1345), "H" 3,622 (-1397), "I" 3,644 (-1419), "J" 3,662 (-1437), "K" 3,678 (-1453), "L" 3,696 (-1471), B/KC 3708 (-1483), Arbuckle 3,776 (-1551).

DSTs

DST #1 Lansing "C" 3,508 - 3,542 30-60-45-90, IH 1713, IF 41-124 (BOB 23min), ISI 225 (No blow), FF 154-171 (11" in 45min), FSI 228 (No blow), FH 1662, Rec; 2' oil, 411' muddy water (80%water, 20%mud), Rwa 0.138 @ 72F (0.09 @ BHT), BHT 107F, Chl water 53,000 ppm, Chl last mud check 1,800 ppm.

DST #2 Lansing "E" & "F", 3,572 - 3,581 (9'), 30-60-30-60, IH 1886, IF 35-74 (weak building blow to 5"), ISI 202 (N blow), FF 89-116 (very weak blow building to 1.25"), FSI 202, FH 1725, Rec; 5' gassy oil (50%gas,50%oil), 191' muddy water (90%water, 10%mud), oil gravity 39 API, Rwa 0.135 @ 80F (0.1019 @ 106F), Chl 48,000 ppm, Chl mud 1,900 ppm.

DST #3 KC I-J-K-L: 3,634' - 3717' (83'), 15-45-45-90, IH 1793, IF 48-71 (built to 9"), ISI 335 (No blow), FF 76-103 (BOB in 18min), FSI 284 (very weak surface blow for 4 min), FH 1736, Rec; 186' gas in pipe, 170' gassy oil (50%gas, 50%oil), 80' gassy oil cut mud (10%gas, 10%oil, 80%mud), oil 42 gravity API, BHT 109.

DST #4 Arbuckle: 3,781' - 3,789', 15-45-30-60, IH 1886, IF 35-53 (Built to 2.5"), ISI 518 (No blow), FF 63-87 (Built to 1.5"), FSI 498 (No blow), FH 1781, Rec: 4' gassy oil, 60' Oil cut watery mud (10%oil, 20%water,70%mud), 62' muddy water, (70%water,30%mud), Oil gravity 34 deg. Rwa 0.278 @ 76F (0.19 @ BHT), Chl 23,000ppm, mud Chl 2,000ppm, BHT 111F.

DST #5 Arbuckle: 3,791' - 3,805 (14'), 15-45-45-90, IH 1905, IF 41-126 (BOB 10min), ISI 541 (No blow), FF 147-234 (BOB 13min), FSI 521 (No blow), FH 1805, Rec; 5' gassy oil (10%gas,90%oil), 469' muddy water (90%water,10%mud), oil 34 gravity, Rwa 0.215 @ 88F (0.17 @ BHT), BHT 109F.








































































Classification

AFTER DUNHAM: GRAIN; any fossil, fossil fragment, sand grain, or other rock fragment within the rock. **MUDSTONE;** muddy carbonate rocks containing less than 10% grains. **WACKESTONE;** mud supported carbonate rocks with more than 10% grains. **PACKSTONE;** grain supported muddy carbonate rocks. **GRAINSTONE;** mud free carbonate rock, grain supported. **BOUNDSTONE;** carbonate rock bound together at deposition (coral, etc.). **CRYSTALLINE CARBONATE;** carbonate rock retaining to little of their depositional texture to be classified.
























ROCK TYPES

 Anhy  Bent  Brec  Cht  Clyst	 Coal  Congl  Dol  Gyp  Igne	 Lmst  Meta  Mrlst  Salt  Shale	 Shcol  Shgy  Sltst  Ss  Till
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ACCESSORIES

MINERAL  Anhy  Arggrn  Arg  Bent  Bit  Brecfrag  Calc  Carb  Chtdk  Chtlt  Dol  Feldspar  Ferrpel  Ferr  Glau  Gyp  Hvymin  Kaol  Marl	 Minxl  Nodule  Phos  Pyr  Salt  Sandy  Silt  Sil  Sulphur  Tuff FOSSIL  Algae  Amph  Belm  Bioclst  Brach  Bryozoa  Cephal  Coral	 Crin  Echin  Fish  Foram  Fossil  Gastro  Oolite  Ostra  Pelec  Pellet  Pisolite  Plant  Strom STRINGER  Anhy  Arg  Bent  Coal  Dol	 Gyp  Ls  Mrst  Sltstrg  Ssstrg TEXTURE  Boundst  Chalky  Cryxln  Earthy  Finexln  Grainst  Lithogr  Microxln  Mudst  Packst  Wackest
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OTHER SYMBOLS

POROSITY  Earthy  Fenest  Fracture  Inter  Moldic  Organic  Pinpoint  Vuggy	SORTING  Well  Moderate  Poor ROUNDING  Rounded  Subrnd  Subang	 Angular OIL SHOW  Even  Spotted  Ques  Dead	INTERVAL  Core  Dst EVENT  Rft  Sidewall
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Curve Track 1

ROP (min/ft) ———
 Caliper (units) - - - -
 Gamma (API) - - - -

TG, C1-C5

TG (Units) ———
 C1 (units) - - - -
 C2 (units) - - - -
 C3 (units) - - - -
 C4 (units) - - - -
 C5 (units) - - - -

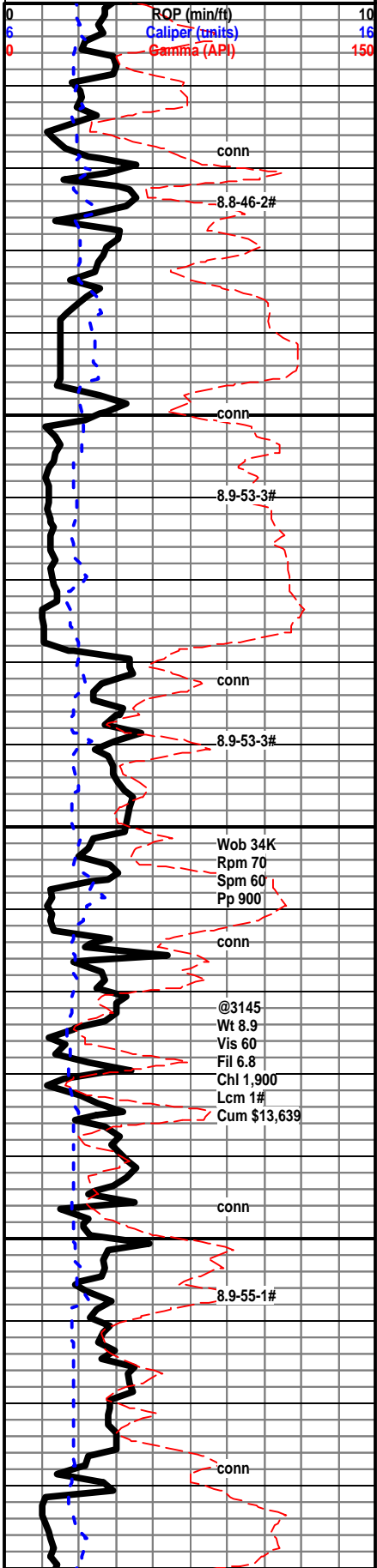
Depth

Porosity Type

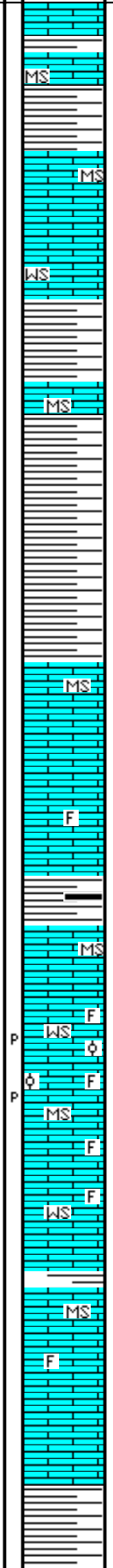
Lithology

Oil Shows

Geological Descriptions



30
 3050
 3100
 3150



Shale; gray to dark gray, soft earthy texture.

Mudstone; gray to off white, hard, very fine crystalline to microcrystalline, dense, most dull luster, rare fossils in the matrix.

Wackestone; rare fossiliferous, no show, no visible porosity in the dry sample.

Shale; light gray dark gray, soft earthy some amorphous clay stone look, rare gray - green.

Shale; increase in dark gray, with depth, soft to brittle, platy to amorphous clay stone look, most earthy texture, some silky, rare gray - green.

Stotler; 3080 (-855) A even B +5

Mudstone; gray some with dark inclusions, cream to off white most microcrystalline, no visible porosity or show, as above very dull mineral fluorescence only.

Mudstone; most as above, light gray, cream, hard to soft, very fine crystalline to microcrystalline, some soft - chalky.

Shale; influx, dark gray to black - carbonaceous look, firm to brittle, earthy texture, some smooth texture.

Mudstone; as above.

Wackestone; trace tan here, hard, fossiliferous to sub oolitic, no show in wet, scattered barren pinpoint porosity in the dry sample.

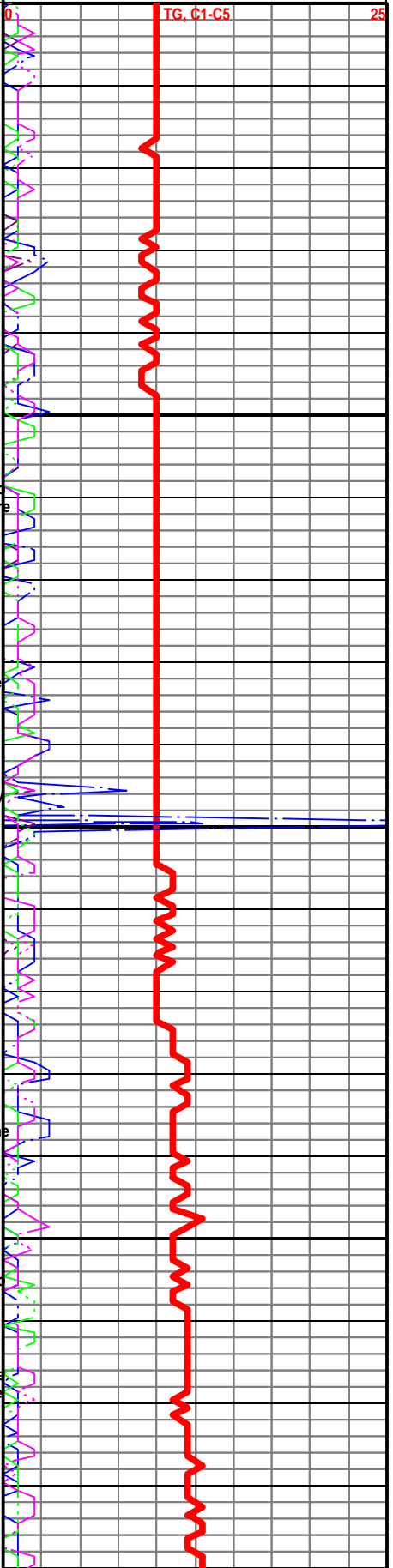
Mudstone; cream to off white, microcrystalline to chalky, some fossiliferous, no show, no porosity in dry sample.

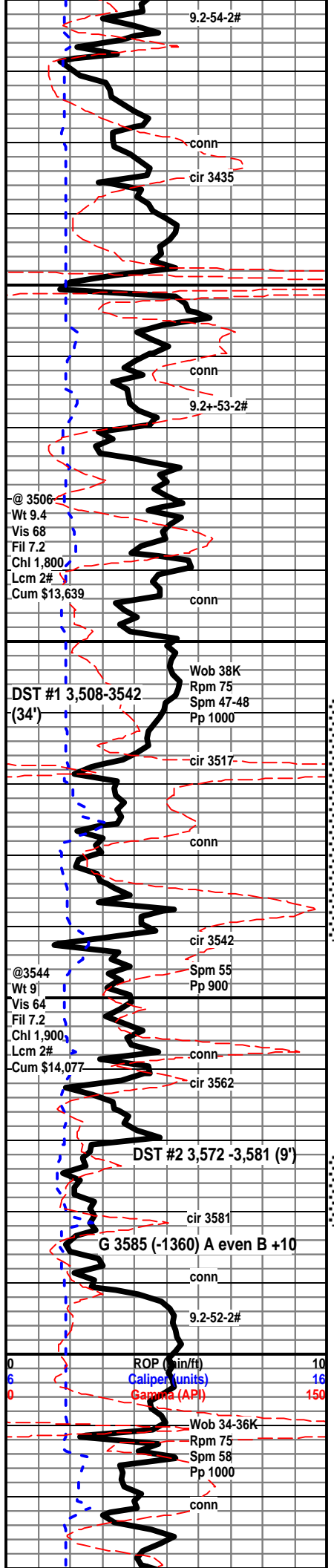
Wackestone; aa, no show, no visible porosity in dry sample, dull mineral fluorescence only.

Shale; influx, gray, black, gray - green, dull ocher, most soft to firm.

Mudstone; cream to brown, hard to firm, microcrystalline, rare very fine crystalline, dense look wet, no visible porosity in the dry.

Shale; increase in gray and dark gray, most soft, some very soft - claystone look, rare gray - green.





Porosity zone 3418 (-1193) A +2 B +1
 Wackestone; less with depth, similar show as above, no odor, rare oil in pinpoint porosity and on broken edges, less show with depth, some barren porosity visible.

Mudstone; cream to tan, occasionally light gray, microcrystalline to chalky texture, dense look in wet, loss of show here, off white free chert, and light gray fossiliferous chert.

Mudstone; cream to tan, microcrystalline to crystalline, some chalky dense, scattered off white to light tan free chert.

Heebner 3450 (-1225) A +1 B +7
 Shale; black, carbonaceous, rare gas bubbles, one sample off white mudstone; scattered small pinpoint and vuggy porosity with dark brown oil, odor when broken, free oil when broken, cave?

Shale; red, red - brown, pale green, most soft, some claystone look.

Toronto 3471 (-1246) A +1 B +10
 Mudstone; cream to tan and off white, hard, microcrystalline to crystalline, dense, rare glauconite, mixed with scattered fossiliferous wackestone, no show in wet.

Lansing A/B 3491 (-1266) A even B +8
 Wackestone; fossiliferous, most off white, hard, some light tan trace show of light brown stain on edge, one sample with secondary minerals and spotty stain, dull fluorescence, milky cut, very faint sample odor, no free oil, rare porosity in dry, some with spotty stain, most barren.

Mudstone; cream, off white to very light gray, hard to firm, chalky to crystalline, dense look, one sample show from above, loss of sample odor here, free light chert.

Shale; most gray, black, mixed with green, red, and brown.

Lansing C 3529 (-1304) A +1 B +12
 Wackestone; off white to cream, brittle to firm, spotty to even light brown stain, scattered free oil when some are broken, milky cut, slight sample odor, scattered very small pinpoint to vuggy porosity, some look barren, rare secondary minerals filling porosity and on edges., less than 5% show.

Lansing D 3551 (-1326) A -2 B +6
 Wackestone; cream to off white, fossiliferous, hard to firm, microcrystalline to chalky matrix, rare sample show, spotty brown and black stain on edges and rare pinpoint porosity, rare visible oil in pore space, milky cut, no sample odor, poor show!

Lansing E 3566 (-1341) A even B +5

Lansing F 3572 (-1374) A +2 B +11
 Wackestone; fossiliferous, cream, off white, firm-hard, microcrystalline to chalky matrix, small pinpoint porosity, fill with brown oil and light brown stain, rare free brown oil in tray free oil when broken, fair sample odor, scattered barren porosity, rare secondary minerals in porosity and on weathered edges, less than 5% total show.

Wackestone; fossiliferous to scattered oolitic, dense looking, rare show, black to brown spotty stain on weathered edges, no odor, no free oil w/broken.

Mudstone; off white, cream, most crystalline - silky texture, dense.

Mudstone; most as above, slight influx off white/mottled light gray to light gray, dense, rare wormy black stain.

Shale; gray, gray-green, black, red some calcareous.

H 3625 (-1400) A even B +8
 Wackestone; cream to off white, fossiliferous, free gray and cream chert inclusions, hard, spotty stain and brown oil when

