MUD LOG

WellSight Systems

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

Well Name: Raymond Oil Company,Inc. Brobst-Morris #1

Location: 45's & 75'w of NE-NE-SW-SE Sec.12-6s-21w Graham Co. Ks.

License Number: Region: Wildcat

Spuid Date: October-4-2013 Drilling Completed:

Spud Date: October-4-2013 Drillii
Surface Coordinates: 45's of NE-NE-SW-SE Sec.12-6s-21w

75'w of NE-NE-SW-SE Sec.12-6s-21w

Bottom Hole 45's of NE-NE-SW-SE Sec.12-6s-21w Coordinates: 75'w of NE-NE-SW-SE Sec.12-6s-21w

Ground Elevation (ft): 2188' K.B. Elevation (ft): 2200'

Logged Interval (ft): 2900' To: 3731' Total Depth (ft): 3731'

Formation: Shawnee, LKC, Arbuckle

Type of Drilling Fluid: Mud-Co/Service Mud: Chemical

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

OPERATOR

Company: Raymond Oil Company, Inc.

Address: PO BOX 48788

Wichita, Kansas 67201+8788

GEOLOGIST

(785) 216-0694

Name: Pat Balthazor

Company: Geo-Logic

Address: 207 N. Cooper

Plainville, Kansas

67663

Comments

Contractor was H-2 Drilling LLC. Rig #2

8 5/8" Surface was set at 268'.

Bit #1 New HE-21 Jetted with #2 15s & a 14. PP was 800-850 #

No drill time from 3223'-3238'

Geolograph line broke at 3251'

Elevation was lowered 2' when location was built.

Pipe strap at 3260' was 1.5 feet short of board.

Short Kelly Down from 3268-3270

DST #1 "Dear Creek" 3247'-3260' 30-60-45-90 Recovered: 345' VSOSGMW 95% water, 4% mud, 1% gas IFP: 34-115, FFP: 120-169, BHP: 943-934, BHT: 107 Deg.

DST #2 LKC "B-E" zones 3455'-3518' 30-60-45-90

Recovered: 15' Mud

IFP: 8-18, FFP: 20-27, BHP: 974-960, BHT: 109 Deg.

DST #3 LKC "F-G" zones 3498'-3556' 30-60-45-90

Flushed tool on both IF and FF with intermittent surface blow.

Recovered: 205' drlg. mud with oil specks.

IFP: 8-96, FFP: 98-123, BHP: 1037-1013, BHT: 107 deg.

DST #4 LKC "H-I-J-K-L" zones 3541'-3636' 30-60-45-90

Recovered:60' of drilling mud.

IFP: 11-24, FFP: 26-38, BHP: 840-746, BHT: 109 deg.

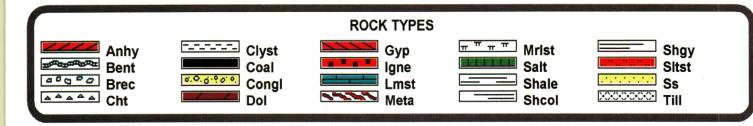
DST #5 3672'-3683' 30-60-30-90

Recovered: 2335' SGMW. 1% gas, 98% water, 1% mud. IFP:310-1012, FFP:1014-1101, BHP:1107-1107, BHT:116 deg.

Formations

Sec. 12-6s-21w Sec. 13-6s-21w **Sample Tops Log Tops Log Tops** 1815 (+385) Anhy. 1814 (+957) 1813 (+ 1858) **Howard** 3157 (-957) 3155 (-955) 3147 (-953) **Topeka** 3196 (-996) 3197) (-996) 3185 (-990) Deer Cr. 3247 (-1047) 3246 (-1046) 3240 (-1045) 3314 (- 1114) 3307 (-1112) Lac 3347 (-1117) Heebner 3400 (-1100) 3388 (-1193) 3398 (1198) **LKC** 3438 (-1238) 3442 (-1242) 3447 (-1247) **BKC** 3581 (-1381) 3481 (-1381) 3618 (-1483) Marmaton 3666 (-1466) 3665 (-1465) None **Arbuckle** None 3663 (-1468) None **GW** 3704 (-1504) None None Granite 3718 (-1518) 3718 (-1508) NA TD 3731 (-1531) 3732 (-1532) 3711 (-1516)

LKC BKC Arbuckle



ACCESSORIES • MINERAL ☑ Anhy ☑ Argg FOSSIL Alg Θ **Sitstrg** Ostra Gyp \triangle **Ssstrg** Anhy Hvymin **Algae Pelec** K = ø **Pellet** Kaol **Amph** Arggrn п P • Marl Belm **Pisolite TEXTURE** Arg В * \Box Ø **Boundst** Minxl **Bioclst Plant Bent**

