



INTEQ

Company : Lakes Oil N.L.

Well : Wombat-4

Interval : 1194.00 - 1482.31 meters

Created : 01/Nov/2009 3:22:26 AM



### FORMATION EVALUATION LOG

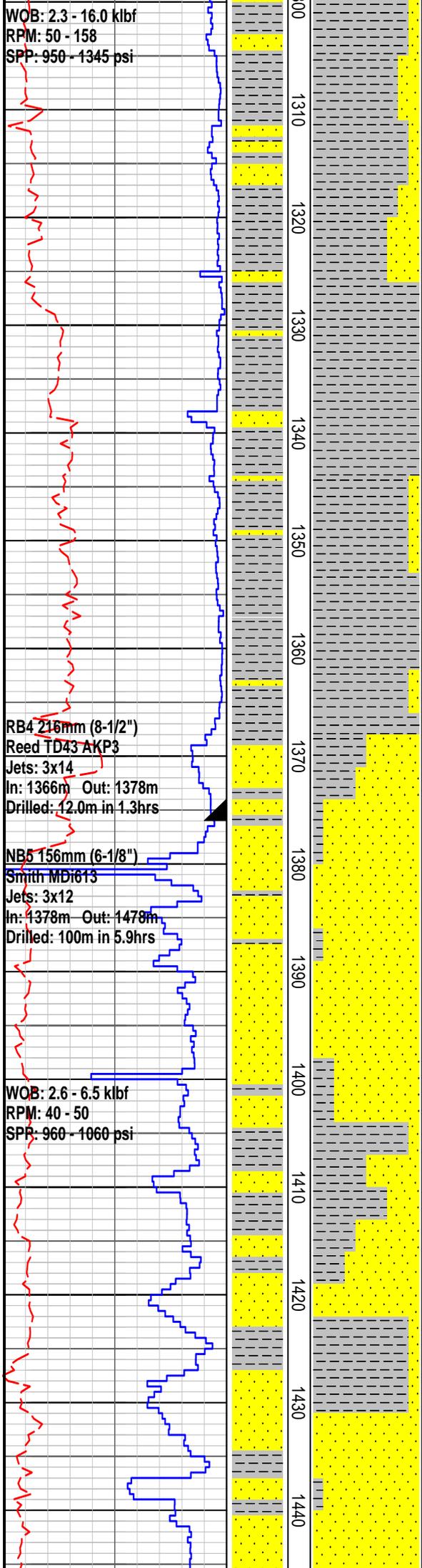
RATE OF PENETRATION		MD meters 1:500	LITHOLOGY	OIL SHOWS	TOTAL GAS	CHROMATOGRAPH				REMARKS	
ROP (0-100m/hr)	WOB (klb)					1	Methane ppm	10000	1		Ethane ppm
Backup ROP (100-200m/hr) 200   190   180   170   160   150   140   130   120   110 100   90   80   70   60   50   40   30   20   10	50   45   40   35   30   25   20   15   10   5				20   40   60   80   100 unit	1	10000	10000	10000	10000	
					280   460   640   820   1000 unit	1	10000	10000	10000	10000	
						1	10000	10000	10000	10000	
						1	10000	10000	10000	10000	
							10	100	1000	10000	
WOB: 0.3 - 12.2 klbf RPM: 51 - 140 SPP: 565 - 1357 psi		1200									SANDSTONE: v lt gry-lt brn gy, v f-v crs, dom m-crs, ang-sbrnd, v p srtd, mod sil cmt, com-abd wh-lt brn argill & slt mtrx, quartzose w/clr-op qtz gr, rr gn & blk cht lith, tr blk c detr, fri-mod hd, fr-gd inf por, no fluor
		1210									
		1220									
		1230									
		1240									CLAYSTONE: off wh-m brn, v slt & v aren, v kao i/p, sli carb, tr blk c flks, tr micrmic, frm-mod hd, v disp, n fiss
		1250									
		1260									
		1270									COAL: v dk brn-dom blk, blk-sbconch frac, ea-sli sbvit lstr, sli-m argill, mod hd.
		1280									
		1290									CLAYSTONE: off wh-m brn, v slt & v aren, v kao i/p, sli carb, tr blk c flks, tr micrmic, rr nvr frm-mod hd v disp

WOB: 2.3 - 16.0 klb  
RPM: 50 - 158  
SPP: 950 - 1345 psi

RB4 216mm (8-1/2")  
Reed TD43 AKP3  
Jets: 3x14  
In: 1366m Out: 1378m  
Drilled: 12.0m in 1.3hrs

NB5 156mm (6-1/8")  
Smith MDi613  
Jets: 3x12  
In: 1378m Out: 1478m  
Drilled: 100m in 5.9hrs

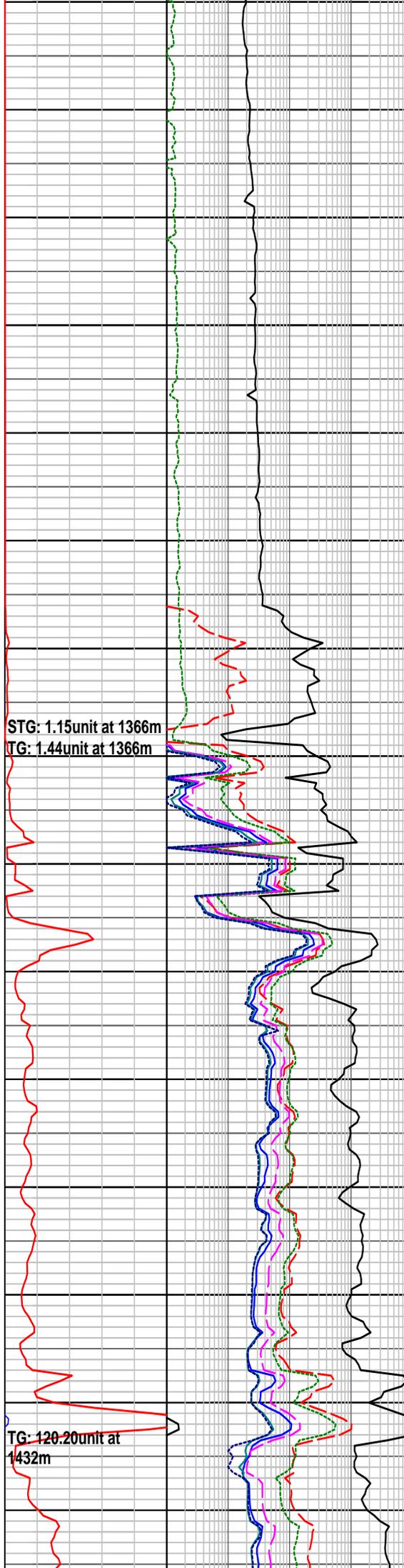
WOB: 2.6 - 6.5 klb  
RPM: 40 - 50  
SPP: 960 - 1060 psi



1300  
1310  
1320  
1330  
1340  
1350  
1360  
1370  
1380  
1390  
1400  
1410  
1420  
1430  
1440

STG: 1.15unit at 1366m  
TG: 1.44unit at 1366m

TG: 120.20unit at 1432m



fiss

SANDSTONE: v lt gry-lt brn gy, v f-gt, dom m, ang-sbrnd, v p srted, mod sil cmt, abd off wh-lt brn argill & sli mtrx, quartzose w/clr-op qtz gr, rr gn & blk cht lith, tr blk c detr, tr pyr, mod hd, fr inf por, no fluor

CLAYSTONE: off wh-m brn, dom lt brn, v sli & v f aren, v kao i/p, sli carb, tr blk c flks, tr micrmic, tr pyr, mod hd, v disp, sli sbfiss

Survey at 1354m  
N60degsE  
1.5 degs

CLAYSTONE: off wh-m gn gry-m brn gry, mod slty, tr vf off wh alt fspr gr, tr brn-blk carb spks, tr micrmic, sft, v disp, sli sbfiss

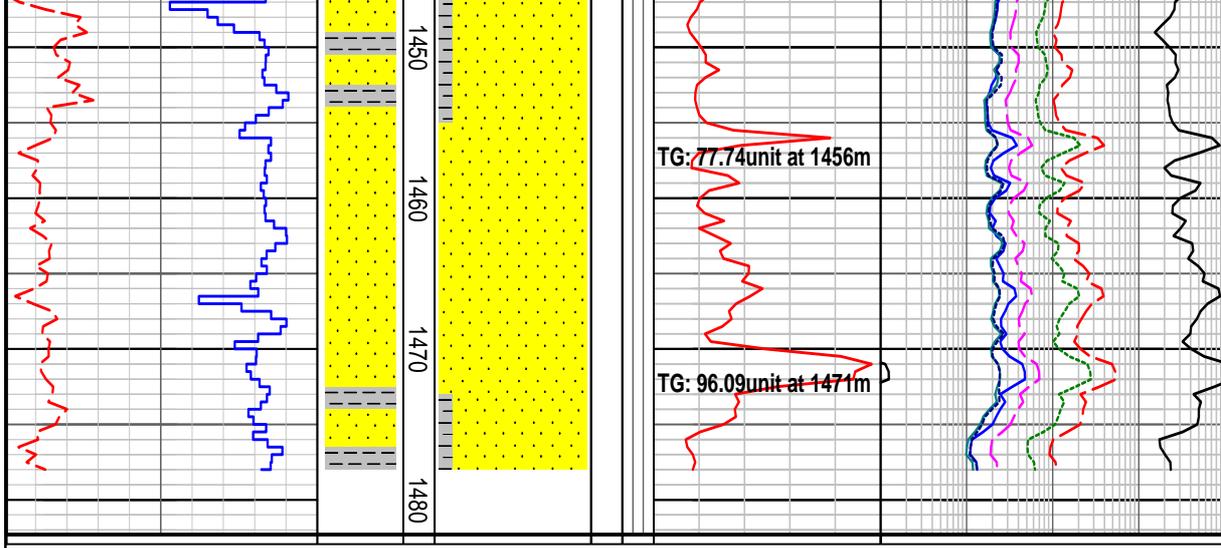
Run#1 HALS - BHC - PEX  
1361 - 299m  
GR to Surface

178mm (7") casing shoe at 1376mMD

SANDSTONE: lt gry, vf-f, occ m, dom f, sbang-sbrnd, mod srted, wk sil cmt, abd off wh argill & mtrx, abd alt fspr gr, com rd brn gry & gn, lith, tr qtz gr, tr c brn mic flk, tr v f blk carb detr, tr pyr, fri, v p vis por, no fluor

Formation L.O.T. at 1382m  
MW: 9.8ppg EMW: 13.1ppg

CLAYSTONE: off wh-m gn gry-m gry, occ m brn gry, mod slty, tr v f off wh alt fspr gr, tr brn-blk carb spks, tr micrmic, frm, v disp, sli sbfiss



SANDSTONE: lt gry-lt gn gry, v f-rr m, dom f, dom f, sbang-sbrnd, mod srtd, mod sil cmt, wk calc cmt i/p, abd off wh argill mtrx, abd alt fspr gr & rd brn gry & gn lith, 10% qtz gr, tr crs brn mic flks, tr v f blk carb detr, tr pyr, fri, v p vis por, no fluor

**FORMATION EVALUATION LOG**

RATE OF PENETRATION		MD meters 1:500	LITHOLOGY	OIL SHOWS CORE	TOTAL GAS	CHROMATOGRAPH		REMARKS
ROP (0-100m/hr)	WOB (klb)					Methane ppm	10000	
ROP (0-100m/hr) 100   90   80   70   60   50   40   30   20   10 Backup ROP (100-200m/hr) 110   120   130   140   150   160   170   180   190   200	WOB (klb) 5   10   15   20   25   30   35   40   45   50				TOTAL GAS 20   40   60   80   100 unit	1 Ethane ppm 10000	1 Propane ppm 10000	
					BACKUP TOTAL GAS 280   460   640   820   1000 unit	1 iso-Butane ppm 10000	1 n-Butane ppm 10000	
						1 iso-Pentane ppm 10000	n-Pentane ppm 10   100   1000   10000	