

PRODUCTION TOUR REPORT

Well Name: Chevron et al McKay Lakes
WBSE#

LSD : O-80
Date : September 4, 2002
Day Number : 1

DAY CREW NIGHT CREW	CREW		FROM	TO	TIME SUMMARY			
					Logging Operations Summary:			
	Driller				<div>- Tagged obstruction at 569 mKB (TD is at 1028 mKB), tagged obstruction last year at 911 mKB</div> <div>- > 95 % flow is between 503 m - 516 m</div> <div>- < 5% flow between 516m - 525 m</div> <div>- TSTM flow below 525 m observed only with RA Tracer shots</div> <div>- no flow upwards behind casing shoe</div>			
	Derrick							
	Derrick							
	Motorman							
	Floor							
	Floor							
	Lease							
	Accum Press.							
	Air Shut Off							
	Stab Valve							
	Fire Ext.							
	H2S							
	Driller							
	Derrick							
	Derrick							
	Motorman							
	Floor							
	Floor							
	BOP				Today	Cumulative		
	Accum Press.				Tangible			
	Air Shut Off				Intangible			
	Stab Valve				Total			
	Fire Ext.					Schlumberger Max Pro		Glen Doan
						RIG OR CONTRACTOR		CONTRACTOR REP.

JOB OBJECTIVE: Perform An Injection Profile Log
DAILY OBJECTIVE: Log well

DETAILS:

Rate # 2 (300 m3/day)
Decrease injection rate to 300 m3/d : BHP after 15 mins injection at 2nd rate at 550 mKB = 12,304 kpa, BHT = 13.0 C, WHP = 6.3 mpag.
Log 3 up/down passes at 10, 20, 30 m/min from 475 - 560 mKB.

Position tools at 550 m, log time drive. BHP = 12,303 kpa, BHT = 13.3 deg C

Spinner passes indicate > 95 % of fluid is being injected between 503 m(csg shoe) and 516 m and < 5% is being injected 516 m - 525 m.

R/A Trace Log (450 m3/d injection rate)

Position Ejector Tool and Dual Spaced GR at 500 m (~ 3 m inside casing shoe).
Shoot R/A tracer slug # 1 and log in time drive: GR detectors picked up RA slug moving down the hole, no sign of upward flow behind the casing shoe. Log for 5 mins .
Shoot larger R/A tracer slug # 2 and log as above: no sign of flow upwards behind casing shoe.

Position tools as follows : CCL 501 m, top GR 502.4 m (inside csg shoe), ejector 503.5 m (in openhole), MGR 504 m, LGR 505 m.
Shoot R/A tracer slug # 3 and log as above: no sign of flow upwards behind casing shoe.

Position ejector at 525 m (in openhole, deepest spinner response achieved) to verify any fluid movement below this point.
Shoot R/A tracer slug # 4 and log in time drive: **fluid velocity below 525 m = 0.96 m/min.**

Position ejector at 565 m (tag depth, bottom of **tools tagged out at 569 m**)
Shoot R/A tracer slug # 5 and repeat as in # 4 above : **fluid velocity below 565 m = 0.76 m/min.**

Position ejector at 500m (inside casing) and dump all the tracer. Log down from 475 to 569 m (tag) and log tracer storage effect.
Major washing of RA tracer away from 503 - 518 m (clean across main injection interval), tracer hold up (slowly moving downward) across 518 - 526 m (**concurs with the spinner profile**).

Finish R/A Tracer log. Obstruction tagged: 959 m this log, at 911 m log dated 2001, at 560 m on log dated 2000. (TD is at 1028 mKB).

Position tolls at 550 m, log time drive. BHP = 12,729.8 kpa BHT = 13.1 deg C
Shut in well and log pressure fall off after shut in.

POOH with logging tools and R/O equipment.
Secure wellhead and place well back on injection.
Clean up wellhead and location and M/O location.