Chevron Canada Resources

PRODUCTION TOUR REPORT

Well Name: Chevron et al McKay Lakes **LSD :** O-80

WBSE# **Date :** June 25, 2003

Day Number : 1

	CREW		FROM	TO	TIME SUMMARY
DAY CREW	Driller		9:00	11:10	Hold safety meeting and R/U equip.
	Derrick		11:10	11:30	Shut in well, finish R/U equipment
	Derrick		11:30	12:50	RIH PL tools, log base temp pass down, log spinner cal passes
	Motorman		12:50	14:40	Place well on injection, log well
	Floor		14:40	16:55	Perform R/A trace log
	Floor		16:55	17:20	Shut in well and log press fall off
	Lease		17:20	18:00	POOH and R/O equipment
	Accum Press.		18:00	19:30	Place well on injection and cont to R/O equipment
	Air Shut Off		19:30		Move off location
	Stab Valve				
	Fire Ext.				
	H2S				
NIGHT CREW	Driller				
	Derrick				PP&E Summary:
	Derrick				Near miss incidents none to report
	Motorman				Spills or emissions none to report
	Floor				Held safety/ops meetings and filled out JSHA forms prior to rigging up and prior to RIH with wireline
	Floor				
	BOP				
	Accum Press.				
	Air Shut Off				
	Stab Valve				
	Fire Ext.				

	Today	Cumulative		
Tangible				
Intangible				
Total				
Ultraline Services			Dale Salstrom	
RIG OR CONTRACTOR			CONTRACTOR REP.	

JOB OBJECTIVE: Perform An Injection Profile Log

DAILY OBJECTIVE: Log well

DETAILS:

Move on and rig up the following equipment: UltralineService Wireline Unit, picker, safety trailer and first aid unit. Hold a safety meeting and fill out JSHA regarding: rigging up, logging operations and rigging down wireline equipment.
Spot and rig up equipment as per CCR/NEB requirements for sour electricline operations.

Shut in well at 11:10 hrs
Continue to rig up equipment.
Function test BOPs.

Make up and RIH with the following Injection Profile Logging Tools:

GR/CCL
Telemetry
R/A Ejector (30 cc Iodine)
Dual Spaced GR
PTF (press/ temp, flow 63mm full-bore spinner)
total length = 7.85 m , OD 42.86 mm

Log base temp / correlation pass at 10 m/min from 400 m down to **755 m, nothing tagged to this depth**. Will confirm tag depth later in logging program. (Last years log tagged out at 569 mKB).

Correct depth to Schulmberger Max Pro Injection Log dated Sept 4, 2002, made a 1.7 m depth correction (add in).

Log spinner calibration passes at 10, 20, 30 m/min (up/down) in the openhole (710 - 750 m). Generate spinner cross plots, good point fits on slopes.
Good spinner overlays, no sign of cross flow.

Position tools at 750 mKB and log in time drive. Static BHP = 14,053 kpa (still dropping), BHT = 13.9 deg C, WHP 5.9 mpa

Injecting at 650 m3/d

Start injection at 650 m3/day: After 30 mins of injecting with tools at 750 mKB, BHP = 14,784 kpa, BHT = 13.9 deg C, WHP = 6.7 mpag
Log up/down passes at 10, 20, 30 m/min from 500 - 610 mKB

Tagged once at 569 mKB on last down pass and bounced through with one attempt, (same depth as last years tags).

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, (same as last years log).

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Company Representative : *BJ Kalsi*

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DAY CREW	Driller				
	Derrick				
	Derrick				
	Motorman				
	Floor				
	Floor				
	Lease				
	Accum Press.				
	Air Shut Off				
	Stab Valve				
	Fire Ext.				
	H2S				
NIGHT CREW	Driller				
	Derrick				
	Derrick				
	Motorman				
	Floor				
	Floor				
	BOP				
	Accum Press.				
	Air Shut Off				
	Stab Valve				
	Fire Ext.				

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Intangible				
Total				

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

DETAILS:

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R/A Trace Log (650 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 501.5 m, top GR 502.55 m (inside csg shoe), ejector 503.4 m (in openhole), MGR 504.2 m, LGR 505.2 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 = 2.0 m/min.**

Position ejector at 565 m
Shoot R/A tracer slug # 5 and repeat as in # 4 above : **fluid velocity below 565 m = 2.0 m/min.**

Position ejector at 575 m
Shoot R/A tracer slug # 6 and repeat as in # 5 above : **fluid velocity below 575 m = 2.0 m/min.**

Position ejector at 585 m
Shoot R/A tracer slug # 7 and repeat as in # 6 above : **fluid velocity below 585 m = 1.9 m/min.**

Position ejector at 618 m
Shoot R/A tracer slug # 8 and repeat as in # 7 above : **fluid velocity below 618 m = 1.9 m/min.**

Log GR pass up from 640 m to 503 m (casing shoe).

Repeat 2 tracer shots at the casing shoe (# 1 and 2). Both of these repeat shots repeat above noted data.

Position ejector at 500m (inside casing) and dump all the tracer. Log down from 500 to 897 mKB **(tagged at 897 m)** 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 and below. **(concurs with the spinner profile).**

Log GR/temp pass downwards to 500 mKB and tag at 897 mKB. Noticed major temp shift at 768 mKB indicating base of fluid injection.

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	CREW		FROM	TO	TIME SUMMARY
DAY CREW	Driller				**Logging Operations Summary:** **- tagged PBTD at 897 mKB** **- > 95 % flow is between 503 m - 516 m** **- < 5% flow between 516m - 525 m** **- TSTM flow below 525 m observed only with RA Tracer shots** **- no flow upwards behind casing shoe**
	Derrick				
	Derrick				
	Motorman				
	Floor				
	Floor				
	Lease				
	Accum Press.				
	Air Shut Off				
	Stab Valve				
	Fire Ext.				
	H2S				
NIGHT CREW	Driller				
	Derrick				
	Derrick				
	Motorman				
	Floor				
	Floor				
	BOP				
	Accum Press.				
	Air Shut Off				
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Tangible				
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JOB OBJECTIVE: Perform An Injection Profile Log

DAILY OBJECTIVE: Log well

DETAILS:

Continued from page # 2

Position tools at 750 m, log time drive. BHP = 15,120.5 kpa, BHT = 13.21 deg C, WHP = 7.05 mpa.
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.

Company Representative : *BJ Kalsi*