

NORTHLAND

Energy Corporation

Calgary: (403) 264-9700
Red Deer: (403) 346-8840
Grand Prairie: (403) 539-3411

DAILY OPERATIONS SUMMARY

PAGE 1 OF 4

JOB: 3265B
CUSTOMER: Anderson Exploration Ltd.
WELL: COLUMBIA ET AL KOTANEELEE
OPERATION: CLEAN UP

LSD: YTB-38
ZONE: NAHAMM

Time	Description
hh:mm	
98/07/25	
09:45	RIG MOVING OFF HOLE / MONITOR PRESSURE BUILD-UPS
09:55	BLEED OFF ANNULUS PRESSURE
13:00	RIG MOVED OFF HOLE / STARTED TO RIG IN FLOWLINE TO WELLHEAD
14:00	BLEED PRESSURE OFF ANNULUS
14:30	CONDUCTED SAFETY MEETING
14:50	PRESSURE TEST FLOWLINE TO MANIFOLD
15:00	OPENED WELL ON 12.7 mm CHOKE
15:03	INCREASED CHOKE TO 15.08 mm
15:06	INCREASED CHOKE TO 19.05 mm
15:07	LIQUID TO SURFACE
16:00	30% OF GRIND OUT WAS INHIBITED DIESEL
16:00	H ₂ S = 0 ppm
16:07	METER IN SERVICE ON 31.75 mm ORIFICE PLATE
16:08	ADJUSTED BACK PRESSURE
16:22	INCREASED BACK PRESSURE
16:33	CHANGED ORIFICE PLATE TO 88.9 mm
17:00	BLEED ANNULUS PRESSURE DOWN TO 0 kPa
17:00	H ₂ S = 1.25%
17:20	DECREASED BACK PRESSURE
19:20	BLEED PRESSURE OFF ANNULUS
19:54	INCREASED BACK PRESSURE
20:00	H ₂ S = 1.5%
20:17	INCREASED BACK PRESSURE
20:25	ANNULUS OPEN TO 63 m ³ TANK
20:31	INCREASED BACK PRESSURE
23:00	SHUT IN AT WING VALVE / METER OUT OF SERVICE / RECORDED BUILD-UPS

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DAILY OPERATIONS SUMMARY

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JOB: 32658

CUSTOMER: Anderson Exploration Ltd.

WELL: COLUMBIA ET AL KOTANEELEE

OPERATION: CLEAN UP

LSD: YTB-38

ZONE: NAHANNI

Time	Description
98/07/25	
24:00	END OF BUILD-UPS / SHUT IN MASTERS AND SECURED WELL FOR THE NIGHT
98/07/26	
00:01	SHUT DOWN FOR THE NIGHT
07:00	ON LOCATION / NOWSCO PREPARING TO DO ACID FRAC
11:15	CONDUCTED SAFETY MEETING
11:45	STARTED ACID FRAC
13:45	FRAC COMPLETE / STARTED TO RIG OUT NOWSCO
14:00	RIGGED UP FLOWLINE TO WELLHEAD
14:00	PREPARE TO FLOW BACK WELL ON CLEAN UP
15:00	TOTAL LIQUID TO RECOVER AFTER FRAC 1442 m ³
15:00	OPENED WELL ON 9.53 mm CHOKE
15:01	LIQUID TO SURFACE
15:06	BLEED ANNULUS OFF TO 400BBL TANK / LEAVE ANNULUS OPEN TO TANK
15:31	METER IN SERVICE ON 101.6 mm ORIFICE PLATE
17:05	INCREASED CHOKE TO 10.32 mm
17:15	INCREASED BACK PRESSURE
18:01	INCREASED CHOKE TO 13.49 mm
18:16	INCREASED CHOKE TO 15.08 mm
19:31	INCREASED BACK PRESSURE
20:15	OPENED BYPASS TO DECREASE BACK PRESSURE
23:31	DECREASED BACK PRESSURE
98/07/27	
00:31	DECREASED BACK PRESSURE
02:01	DECREASED BACK PRESSURE
05:00	1321.82 m ³ OF LOAD FLUID LEFT TO RECOVER
05:00	H ₂ S TAKEN BY KITAGAWA = 1.6%

JOB: 32868
CUSTOMER: Anderson Exploration Ltd.
WELL: COLLAMBA ET AL KOTANEELEE
OPERATION: CLEAN UPLSD: YTB-38
ZONE: NAHANNI

Time	Description
hh:mm	
98/07/27	
17:00	H ₂ S = .8%
98/07/28	
01:00	SHUT IN ANNULUS AND RECORD PRESSURES
05:00	1260.72 m ³ OF LOAD FLUID LEFT TO RECOVER
05:00	H ₂ S TAKEN BY KITAGAWA = .9%
07:25	BLEED ANNULUS DOWN TO 0 kPa
11:00	H ₂ S = 1.5%
13:02	DECREASED BACK PRESSURE / BLEED DOWN ANNULUS AND LEAVE OPEN
23:00	H ₂ S = 1.5%
24:00	SHUT IN CASING AND RECORD PRESSURES
98/07/29	
05:00	1221.92 m ³ OF LOAD FLUID LEFT TO RECOVER
09:00	TWO WELLHEAD LIQUID SAMPLES TAKEN AND SENT TO RED DEER WITH DEVONIAN SAFETY
09:00	BLEED DOWN ANNULUS AND LEAVE OPEN
10:00	H ₂ S = 1.2%
10:30	LEE TOOL ON LOCATION / PREPARE TO RUN IN HOLE FOR SPINNER LOG
12:00	SHUT IN AT WING VALVE / METER OUT OF SERVICE / RECORDED BUILD-UPS
12:30	END OF BUILD-UPS / SHUT IN TO RIG ON LEE TOOL
14:20	CONDUCTED SAFETY MEETING
14:45	STARTED TO RUN IN HOLE WITH WIRELINE
16:23	OPENED WELL ON 5.95 mm CHOKE
16:31	INCREASED CHOKE SLOWLY TO 15.08 mm
16:33	LIQUID TO SURFACE
16:40	METER IN SERVICE ON 101.6 mm ORIFICE PLATE
17:00	TWO GAS SAMPLES TAKEN: AGAT #12755 AND #21838
17:00	ONE HALF LITER WATER SAMPLE TAKEN

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JOB: 32658
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WELL: COLUMBIA ET AL KOTANEELEE
OPERATION: CLEAN UP

LSD: YTB-38
ZONE: NAHANNI

Time	Description
hh:mm	
98/07/29	
17:45	SHUT IN WELL / METER OUT OF SERVICE / WAITED ON LEE TOOL TO COME OUT OF HOLE
19:00	LEE TOOL OUT OF HOLE / RIGGED OUT
19:45	LEE TOOL OFF WELLHEAD / RIGGED IN DEADWEIGHT AND RECORDED PRESSURES