

XIII. Completion Daily Activity and Cost Summary

Daily Activity and Cost Summary

COPRC DODO CANYON E-76 65-10 126-45

Job Category COMPLETIONS	Primary Job Type INITIAL COMPLETION	Secondary Job Type RIGLESS	Actual Start Date 1/25/2014 00:00	End Date 3/28/2014 08:00
AFE / RFE / Maint.# 10359413	Total Job AFE Amount (Cost) 16,997,500.00	AFE+Supp Amt (Cost) 20,641,514.00	Total Field Estimate (Cost) 21,945,332.75	AFE-Field Estimate (Cost) -1,303,818.75

Objective

Hydraulically fracture and flow test as part of the 2014 Canol Exploration Program

Contractor Weatherford	Rig Name/No FS 463	Rig Type OTHER
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Report No.	Start Date	Daily Cost Total (Cost)	Cum Cost (Cost)	Last 24hr Sum
1	1/25/2014 00:00	2,961,069.72	2,961,069.72	
2	1/26/2014 07:30	1,430,026.49	4,391,096.21	Continue staging equipment from Norman Wells / Ice Road to O6 location
3	1/27/2014 07:30	306,629.50	4,697,725.71	Continue staging equipment from Norman Wells / Ice Road to O6 location / Repair and maintenance on equipment
4	1/28/2014 07:30	122,457.00	4,820,182.71	Continue offloading completion equipment / Offload 93 m³ methanol / Prep West side for shacks / Spot Generator and Meeting Shack
5	1/29/2014 07:30	137,279.00	4,957,461.71	Complete C-Ring Pad / Measure and partially spread sawdust / Install 7 1/16" x 10K Gate Valve / Install 4 1/16" Gate Valve / Flow Block / MIRU Office Shacks / Sleepers / Power / Septic / Light Towers.
6	1/30/2014 07:30	158,666.00	5,116,127.71	Spread sawdust for under C-ring liner. Performed a 10 minute SCVF test as per directive 20. Zero bubbles (no flow) detected in 10 minutes. Good test. Pumped 1/2 stick of arctic pack into wellhead and pressure tested intermediate casing bowl primary seals to 33.5MPa for 15 minutes. Good test. CPC construction worked on several parts of location building up lease and leveling. Spread out Geo mat and liner for C-ring. Stood C-ring.
7	1/31/2014 07:30	672,989.00	5,789,116.71	Construction continued to build and level south side of location. Continued to haul in and spot equipment (HD boiler, RCS pump shack and water management equipment, frac manifold, 8 x 40 mats, 90 ton crane). Finished rig in of C-ring. Off loaded 75m³ of clean fresh water from Lake into C-ring.
8	2/1/2014 07:30	193,716.00	5,982,832.71	Hauled water from lake (WS-02) and off loaded into C-ring. Filled boilers and fired. Moved on all Weatherford tesing equipment and started to rig in. Spotted mats for flowback tank farm. Started 24 hour operations (fluid hauling).
9	2/2/2014 06:00	184,723.00	6,167,555.71	Continue rigging in test equipment / Continue offloading frac water from WS02 / Erect and secure dirty tank farm containment system / reposition materials on location / Spot single sand chief and offload PCM, Blender, Labs unit / Rig in boiler to wellhead and circulate
10	2/3/2014 06:00	231,023.00	6,398,578.71	Remove frac head and gate valve / Set up flow back tank farm / spot sand chiefs / offload 180 m³ H²O / Offload 50 m³ 28% Acid / Begin offloading sand / Haul water to work tank / Heat frac water / Heat water for CT cleanout.
11	2/4/2014 06:00	596,816.00	6,995,394.71	Spotted SLB CT and frac equipment / Removed tubing spool / Installed and pressure tested new tubing spool / Installed 179mm 10K valve and IES frac wellhead / Rigged in work platform and heated wellhead / Pressure tested CT BOPs and SLB over pressured 69MPa BOP stack / Schlumberger removed BOPs from service / Pressure tested intermediate casing to 30MPa - Good test.
12	2/5/2014 06:00	325,584.00	7,320,978.71	Started to pressure test CT BOPs. C-Ring liner started to leak and became increasingly worse. Personnel were evacuated to muster area. 2760m³ of warm fresh water was drained from C-ring and released from well pad. Stump tested CT BOPs. Pressured intermediate csg up to 10MPa. Installed CT BOPs. Pressure tested test flow line to 60MPa. Pressure tested IES frac wellhead and 114.3mm production casing to 68MPa - Good.
13	2/6/2014 06:00	243,450.00	7,564,428.71	Rig out and move equipment around C-ring. Dismantle C-ring, roll up liner and clean up area. Make up milling BHA and coil tubing lube. Install onto well and pressure test lube. Function test motor. RIH with coil performing pull tests every 500m to heal then every 250m to bottom. Did not see any restrictions or pull overs on way in.
14	2/7/2014 06:00	263,948.00	7,828,376.71	RIH with coil tbg, tag PBTD @ 2877.3mKB, pump 2 x 1m³ gel sweeps @ PBTD, pull up to 1731mKB and pump 2 x 1m³ gel sweeps, circulate gel to surface cleaning well bore. Pull out of the hole with coil, secure well and equipment. Continue building and freezing down pad to set up additional tanks. RIH with coil tubing and 5 - 79mm x 1.0m Owen SDP-3125-411NT4 Perforating guns c/w 21gm HMX (DP) charges, Spiral pattern with 60° phasing, 6 SPM, 6 min time delay between guns. Perforated the following intervals: 2866mkb-2867mkb, 2847mkb-2848mkb, 2827mkb-2828mkb, 2808-2809mkb, 2789-2790mkb. Circulate down and Squeeze 10m³ acid, overflushed with 5.5m³ fresh water. Did not see a definitive break while pumping acid. Max rate was 700L/min @ 11,000kpa. Start out of hole with coil.
15	2/8/2014 06:00	1,188,683.00	9,017,059.71	Finish pooh and rig down SOC CT, spot remaining frac equip, and spot and r/u Heat Exchangers and boiler. Spot 12 more 400bbl tanks for frac tank farm. Hauled water from lake (WS-02) and off loaded into frac tank farm. Heated water in 400bbl tanks. Pressure tested wireline lubricator to 60MPa. Approximately 960m³ 35°c water in frac tank farm ready for frac.

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16	2/9/2014 06:00	671,126.00	9,688,185.71	Finish filling and heating 400bbl tanks of water. Rig in remaining frac iron and fluid manifold. Frac interval #1. Pumped slickwater pad bringing rates up to 7.5MPa at 50MPa. Pumped a total of 716kg of 100 mesh sand at 25kgPA. Treating pressure increased as sand went into formation. Rates were adjusted as per pressure allowed. Shut down with a final pump rate of 0.3m³/min at 54MPa - 240.8m³ water injected. Picked up coil tubing injector and pressure tested to 60MPa. Broke off at quick sub. Made up TCP BHA on CT and started in hole.
17	2/10/2014 06:00	416,565.00	10,104,750.71	RIH TCP BHA and coil. Tag high @ 2787mKB (top perforations @ 2789mKB) Discuss with Derrick Cove and Theron Legarde, decision made to pull out of the hole with coil and perforating gun assembly. RIH with 98mm mill and motor. Clean out wellbore to PBTD 2877.3mKB. POOH coil tubing and milling assembly. Cut coil and install new dimple connector. Pull test to 21dan, pressure test to 35mpa. (tests good). RIH with coil tubing and 5 - 79mm x 1.0m Owen SDP-3125-411NT4 Perforating guns c/w 21gm HMX (DP) charges, Spiral pattern with 60° phasing, 6 SPM, 6 min time delay between guns. Perforate the following intervals: 2857mKB to 2858mKB 2838mKB to 2839mKB 2819mKB to 2820mKB 2800mKB to 2801mKB
18	2/11/2014 06:00	514,696.00	10,619,446.71	Finish POOH coil tubing. Break down BHA. Stab lube back on, purge coil with N2. Rig in frac lines. Pressure test to 69mpa. Perform stage 1 of frac as follows: - Open wellhead, pumped 10.0m3 15% HCL acid at 0.30m3/min 10.0mpa - Pumped 23.8m3 gelled pad at final rate 0.30m3/min 12.1mpa, shut down 10 min let acid soak. - Pumped 3.50m3 WF130 pad followed by 39.6m3 YF130Flex pad at final rate 2.20m3/min 14.8mpa - Pumped 14.40m3 100 Mesh scour at final rate 5.50m3/min 23.3mpa - Pumped 100 Mesh, 40/70, and 30/50 PR 6000 sand stages at combined rate 7.90m3/min 28.4mpa, started flush. - Pumped 26.50 m3 YF130Flex flush at final rate 7.90m3/min 29.30mpa Shut down pumps ISIP = 11.0mpa, 5 min SICP = 10.0mpa, 20 min SICP = 7.80mpa. Placed 19,350 kg 100 Mesh frac sand, 59,960 kg 40/70 frac sand, and 20,030 kg 30/50 PR 6000 frac sand with total of 579.50m3 f/w. Winterize frac equipment with 60/40 methanol/water mix. Rig coil tubing lubricator and bops off well. Install and pressure test e-line bops. RIH with plug and perforating BHA on e-line Set 101.6mm Halliburton Obsidian 10K flow through plug top@ 2771.63mKB, CE @ 2772mKB. Perforate the following intervals with 1.0m Owen -3125-411NT4, Hollow Steel Carrier, 21gm HMX (DP) charges, Spiral pattern with 60° phasing, 6 SPM with spiral pattern perforating guns. 2762mKB-2763mKB, 2743mKB-2744mKB, 2723mKB-2724mKB, 2704mKB, 2705mKB, 2685mKB-2686mKB. Start out of hole with e-line.
19	2/12/2014 06:00	813,142.02	11,432,588.73	Finish POOH with e-line and plug and perf BHA. Perform frac on Interval #2 @ 2685mKB- 2763mKB - Breakdown = 18.8 MPa - Max pressure= 32.8 MPa - Ave pumping pressure = 22.4 MPa - Max rate = 8.93m³/min Average rate = 5.95m³/min - Proppant pumped = 20.9 T of 100 Mesh - 68.5 T of 40/70 - 26.7 T of 30/50 PR6000 - Max concentration = 600 kg/m3 - Total water pumped = 721.7m3 - Total 15% HCL pumped = 10m3 Post frac ISIP = 17.3MPa Rig on e-line, RIH with plug and perforating BHA on e-line. Correlate depth to packer top @ 1477.35mKB. Continue in hole with e-line. Engage pumps @ 1650mKB at 1.1m3/min to assist e-line. Log onto depth set Halliburton plug top @ 2675.64mKB CE @ 2676mKB. perforate interval from 2666mKB to 2667mKB perforate interval from 2647mKB to 2648mKB perforate interval from 2628mKB to 2629mKB perforate interval from 2609mKB to 2610mKB perforate interval from 2590mKB to 2591mKB Rig down e-line. IES greased all valves on frac head.

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20	2/13/2014 06:00	1,184,391.74	12,616,980.47	<p>Perform frac on Interval #3 @ 2590mKB- 2667mKB Max pressure= 30.2 MPa Ave pressure = 25.6 MPa Max rate = 8.6m³/min Avg rate = 7.6m³/min Proppant pumped = 20.9T of 100 Mesh, 59.6T of 40/70, 20.0T of 30/50 PR6000 Max concentration = 600 kg/m3 Total water pumped = 649.37m3 Total 15% HCL pumped = 9.0m3 Post frac ISIP = 8.4MPa</p> <p>Rig on e-line, RIH with plug and perforating BHA on e-line. Correlate depth to packer top @ 1477.35mKB. Continue in hole with e-line. Engage pumps @ 1650mKB at 1.1m3/min to assist e-line. Plug top @ 2580.85mKB, CE @ 2581mKB Perforated intervals 2,571.0 - 2,572.0m/ 2,552.0 - 2,553.0m/ 2,533.0 - 2,534.0m/2,514.0 - 2,515.0m/2,494.0 - 2,495.0mKB</p> <p>Perform frac on Interval #4 @ 2495.0mKB- 2,571.0mKB Max pressure= 30.1 MPa Ave pressure = 25.5 MPa Max rate = 8.5m³/min Avg rate = 7.5m³/min Proppant pumped = 20.15T of 100 Mesh, 61.00T of 40/70, 20.10T of 30/50 PR6000 Max concentration = 600 kg/m3 Total water pumped = 515.5m3 Total 15% HCL pumped = 9.0m3 Post frac ISIP = 10.3MPa</p> <p>Rig on e-line, RIH with plug and perforating BHA on e-line. Correlate depth to packer top @ 1477.35mKB. Continue in hole with e-line. Engage pumps @ 1650mKB at 1.1m3/min to assist e-line. Log onto depth set Halliburton plug top @ 2484.85mKB, @ 2485mKB CE. Perforated intervals 2,475.0 - 2,476.0m/ 2,456.0 - 2,457.0m/ 2,437.0 - 2,438.0m. Total 10 shots/m, all fired, well stable. Hauled in 420m³ of water and heat to 33°C, Greased all wellhead Valves and fired up equipment to pre-heat fro frac in AM.</p>
21	2/14/2014 06:00	876,987.34	13,493,967.81	<p>Waited 9 hrs for SOC to r/o broken down blender, move in and r/u replacement blender.</p> <p>Perform frac on Interval #5 @ 2437mKB- 2476 mKB Max pressure= 30.7 MPa Ave pressure = 21.4 MPa Max rate = 8.8m³/min Avg rate = 5.4m³/min Proppant pumped = 20.5T of 100 Mesh, 60.0T of 40/70, 19.8T of 30/50 PR6000 Max concentration = 600 kg/m3 Total water pumped = 700.4m3 Total 15% HCL pumped = 9.0m3 Post frac ISIP = 12.7MPa</p> <p>Rig on e-line, RIH with plug and perforating Interval #6, BHA on e-line. Correlate depth to packer top @ 1477.35mKB. Continue in hole with e-line. Engage pumps @ 1650mKB at 1.1m3/min to assist e-line. Plug top @ 2427.85mKB, CE @ 2428mKB Perforated intervals 2,418.0 - 2,419.0m/ 2,399.0 - 2,400.0m/ 2,380.0 - 2,2381.0m, 10SPM 60° Phase.</p> <p>Hauled in 600m³ of water and heat to 33°C, Greased all wellhead Valves and fired up equipment to pre-heat fro frac in AM.</p>

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22	2/15/2014 06:00	1,045,914.88	14,539,882.69	<p>Warmed up frac equip 20m3 55°C f/w, pressure tested 69.0mpa. Frac'd Canol, spearhead 9.0m3 15% HCL. Placed 20 tonnes 100 Mesh, 60 tonnes 40/70, and 20 tonnes 30/50 PR 6000 frac sand with 500.7m3 WF 130, and YF130Flex water. Average pressure= 20.6mpa, average rate = 5.20m3/min, sand placed at rates 8.10 to 9.10m3/min, at pressures from 27.8 to 30.6mpa. E-Line set 114.3mm Halliburton 10K Flow Through B.P. at 2,371.0mKB, and perforated intervals 2361.0-62.0, 2342.0-43.0, 2323.0-24.0, 2304.0-05.0, and 2,285.0-86.0mMD. R/o E-Line, r/u to frac. Perform frac on Interval #7 @ 2285mKB- 2362mKB</p> <ul style="list-style-type: none"> - Breakdown = 19.4 MPa - Max pressure= 30.1 MPa - Ave pumping pressure = 19.9 MPa -Max rate = 9.10m³/min Average rate = 5.5m³/min - Proppant pumped = 20.5 T of 100 Mesh <ul style="list-style-type: none"> - 66.3 T of 40/70 - 23.4 T of 30/50 PR6000 - Max concentration = 600 kg/m3 - Total water pumped = 541.3m3 - Total 15% HCL pumped = 9m3 Post frac ISIP = 11MPa <p>Rig on e-line, RIH with plug and perforating BHA on e-line. Correlate depth to packer top @ 1477.35mKB. Continue in hole with e-line. Engage pumps @ 1650mKB at 0.3m³/min to assist e-line increasing to 1.1m³/min down to 2280.7mKB</p> <p>Pull up, Log onto depth set Halliburton 10K flow through plug ,top @ 2275.85mKB CE @ 2276mKB. perforate interval from 2265mKB to 2266mKB perforate interval from 2246mKB to 2247mKB perforate interval from 2227mKB to 2228mKB perforate interval from 2208mKB to 2209mKB perforate interval from 2189mKB to 2190mKB Rig down e-line. IES greased all valves on frac head.</p>
23	2/16/2014 06:00	1,061,690.94	15,601,573.63	<p>P-Tested 69.0mpa. Spearheaded frac with 9.0m3 15% HCL acid. Frac'd interval #08 from 2,266.0 to 2,189.0mKB with 20 tonnes 100 Mesh, 60 tonnes 40/70, 20 tonnes 30/50 PR 6000 frac sand, and 547.30m3 WF130/YF130Flex frac water. Average pressure = 19.50mpa, max pressure = 29.30mpa, average rate = 6.0m3/min, max rate = 9.6m3/min. Flushed frac with 18.60m3 Slick Water. R/u E-Line, rih and pump down perf gun and B.P. assembly. Set Halliburton 114.3mm 10K Composite Flow Through B.P. at 2,180.0mMD C.E. Perforated Canol #09 intervals 2170.0-71.0, 2151.0-52.0, 2132.0-33.0, 2113.0-14.0, and 2094.0-05.0mMD.</p> <p>P-Tested 69.0mpa. Spearheaded frac with 8.0m³ 15% HCL acid. Frac'd interval #09 from 2170.0 to 2094.0mKB with 20.2 tonnes 100 Mesh, 59.1 tonnes 40/70, 20.4 tonnes 30/50 PR 6000 frac sand, and 707.8m³ WF130/YF130Flex frac water. Average pressure = 19.0MPa, Max Pressure = 29.5MPa, Avg Rate = 6.1m³/min, Max Rate = 9.6m³/min. Flushed frac with 19.1m³ Slick Water. R/u E-Line, rih and pump down perf gun and B.P. assembly. Set Halliburton 114.3mm 10K Composite Flow Through B.P.w/ball in place at 2,085mMD C.E.</p> <p>Perform Evaluation test on interval #10 while pumping down guns and shooting interval, evaluate the inter-stage (annular) pressure communication.</p> <ul style="list-style-type: none"> -Pumped down Plug with 1.4SG composite ball in place. -ISIP = 10.8MPa -3min ISIP = 6.2MPa -ISIP prior to plug set = 4.7MPa <p>Set plug and pressure tested to 35MPa for 5mins, test good. Bleed down CSG to 15MPa, ready to shoot interval</p> <ul style="list-style-type: none"> -Interval #01: CCL at 2,065.1mMD, perforated interval 2,075.0 to 2,076.0mMD. -Shoot interval ISIP after shooting = 14.8MPa, 1min = 14.8MPa, 2min = 14.8MPa, 3min = 14.9MPa, 4min = 14.9MPa, 5min = 15MPa 21:45hrs pump @ 0.25m³/min for a break down @ 25.7MPa, continued pumping for a total of 1.2m³, pressure stablized @ 19.1MPa. Shutdown Pumps ISIP = 18.7MPa, 5min ISIP = 11.6MPa Perforated Final Canol #10 intervals 2056.0-2057.0m, 2036.0-2037.0m, 2017.0-2018.0m, and 1998.0-1999.0mKB.

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24	2/17/2014 06:00	666,941.53	16,268,515.16	<p>Warm up frac motors and frac equip hydraulics, get ready to frac. Pump 20.0m3 of 55°C water to testers, warm up pumps. Pressure test surface lines to 69.0mpa.</p> <p>Perform frac on Canol Interval #10 @ 1998.0mKB- 2076mKB Max pressure= 28.8 MPa Ave pressure = 20.6 MPa Max rate = 9.5m³/min Avg rate = 5.7m³/min Proppant pumped = 17.5T of 100 Mesh, 66.5T of 40/70, 22.7T of 30/50 PR6000 Max concentration = 600 kg/m3 Total water pumped = 507.4m3 Total 15% HCL pumped = 8m3 Post frac ISIP = 11.1MPa</p> <p>Winterize frac equipment with 60/40 % methanol water, inject 1m³ into wellbore to winterize wellhead and exposed wellbore. Bleed off and drain up all equipment, remove all fluid from surface lines with vac truck, placing collected fluid in flow back tanks. Rig out treatment standing iron and wrap up all frac iron around well center.</p> <p>Held Safety + Operations meeting with coil tbg crew and all associated services. Discussed PJHA for rigging in coil tbg and milling operations, heating and pumping meth/water, cold weather, environmental concerns, and communication. Installed coil connector, pull tested to 21,000LBs, good test. Installed injector and lubricator on wellhead, pressure tested to 1.4MPa and 57MPa for 10mins each, test all good. Installed BHA and start in hole with mud motor to drill out plugs. Equalized and Start in hole with BHA @ 20m/min, function tested Mud Motor at 100m and seems to be working good. Continue in hole at a rate of 20m/min. Pull testing every 500m in hole. Tagged first plug @ 2081.4mMD, 3.45m correction. @ 5:47hrs. Drilled with 1/2 daN weight @ 420 L/min, plug drilled out in 18mins. Pumped 1m³ gel slug, 2m³ fresh water spacer, 1m³ gel slug. Continue RIH to next plug, start drilling when gel plug was around heel.</p>
25	2/18/2014 06:00	980,593.02	17,249,108.18	<p>Drilled out all Bridge Plugs.</p> <p>RIH & Tagged top of BP #1 @ 2084.5mKB (2081.4mKB CT depth) with a pump rate of 0.42m³/min at 23.4MPa with 936 kPa full returns to P-tank.</p> <p>RIH & Tagged top of BP #2 @ 2179.85mKB (2174.9mKB CT depth) with a pump rate of 0.42m³/min at 21.8MPa with 1217 kPa full returns to P-tank.</p> <p>RIH & Tagged top of BP #3 @ 2275.85mKB (2273.2mKB CT depth) with a pump rate of 0.40m³/min at MPa with 20.2 kPa, returns 375 lpm to P-tank.</p> <p>RIH & Tagged top of BP #4 @ 2370.85mKB (2364.4mKB CT depth) with a pump rate of 0.40m³/min at 25MPa with 245 kPa 400 lpm returns to P-tank.</p> <p>RIH & Tagged top of BP #5 @ 2275.85mKB (2421.5mKB CT depth) with a pump rate of 0.42m³/min at MPa with 235 kPa full returns to P-tank.</p> <p>RIH & Tagged top of BP #6 @ 2484.85mKB (2478.0mKB CT depth) with a pump rate of 0.42m³/min at 26.8MPa with 159 kPa 380 lpm returns to P-tank.</p> <p>RIH & Tagged top of BP #7 @ 2580.85.mKB (2573.3mKB CT depth) with a pump rate of 0.42m³/min at 20.8MPa with 102 kPa 350 lpm returns to P-tank.</p> <p>RIH & Tagged top of BP #8 @ 2666.85mKB (2667.2mKB CT depth) with a pump rate of 0.422m³/min at 29.3MPa with 158 kPa 375 lpm returns to P-tank.</p> <p>RIH & Tagged top of BP #9 @ 2771.85 mKB (2762.9mKB CT Depth) with a pump rate of 0.422m³/min at 28.9MPa with 338 kPa 380 lpm returns to P-tank.</p> <p>RIH and tagged PB @ 2877 mKB (2872mKB CT Depth), Pulled back off PB 10meters and launched a 1.0m³ gel slug, 2.0m³ spacer and another 1.0m³ gel slug. Start pulling a sweep back up to 1650mKB (30° dev).</p>

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26	2/19/2014 06:00	200,972.47	17,450,080.65	<p>Pulled out of hole with Coil tubing. Broke down tools and blew out coil with N2. Removed Coil TBG injector, installed E-Line BOPs, pressure tested BOPs and ring groove to 1.4MPa and 57MPa for 10mins each, all tests good.</p> <p>SICP = 0KPa @2300hrs, well dead.</p> <p>RIH with E-Line junk basket(3.0m) and 96.5mm gauge ring to point of refusal @ 1833mKB @ 73 deg incl.</p> <p>RIH w/ BHA</p> <p>1-60.3mm x 0.13m PPMP Pump out plug dressed c/w 6 shear pin @ 3613KPa each & 2 shear screws @ 1427KPa each for a total of 24.4MPa differential to shear out.</p> <p>1-60.3mm x 0.65m J-55 6.99kg/m EUE Pup Joint</p> <p>1-47.63mm x 0.32m XN No-Go Profile Nipple, 45.49mm No-Go</p> <p>1-60.3mm x 2.49m J-55 6.99kg/m Pup Joint</p> <p>1-WDH114 WL x 1.38m Packer</p> <p>1- 89.0mm x 1.48m 'NFT' On/Off Tool Extended Slick Jt. C/W 47.63mm X profile (SN#733647).</p> <p>Correlated on depth @ liner top @ 1477mKB. Pulled log strip 6 collars above 1798.0mKB and correlated in to position checking against Schlumberger Depth Control Log/CCL dated 12-FEB-2014 @3:00. Short joint 1 casing collar above 1798.0m.</p> <p>SICP = 0KPa, 0400hrs, well still dead.</p> <p>Set packer @ 1798.0m CE @ 60.4° incl. 1797.42mKB to top of packer. 1796.25mKB to top of slick joint. POOH @45m/min.</p> <p>Negative test passed.</p> <p>Rigged out E-line BOPs and equipment. Finished rigging out Coil TBG equipment.</p>
27	2/20/2014 06:00	338,052.87	17,788,133.52	<p>Finished rig out of wireline equipment. Rigged off 69MPa flow line. Rigged out work platform and nipples down IES frac wellhead. Continued to ready Weatherford down hole real time gauges. Hauled all water management equipment off of lake to water well rack site. Rebuilt IES frac wellhead. Heated slop tanks for water to be shipped out, moved around some equipment with crane for easier loading.</p> <p>Note: Performed 10min bubble test on SCV with No Flow detected, test passed.</p>
28	2/21/2014 06:00	160,495.59	17,948,629.11	<p>Continued to haul clean fresh water out of frac tank farm to P-20 location. Used picker to remove 400bbls from tank farm. Laid over and hauled out 400s. Started to remove geo and liner from tank farm. Organized equipment on location and moved off unnecessary equipment. Continued to ready Weatherford down hole real time gauges. Rigged out all test lines to flare stack and laid over flare stacks ready to move in mats tomorrow. Heated Frac tanks and hauled 82.5m³ to P-20 of fresh water, watched evaporators and moved some equipment with crane on lease for easier loading in AM.</p>
29	2/22/2014 06:00	50,858.58	17,999,487.69	<p>Finished hauling fresh water off location to P-20. Hauled out remaining clean 400bbl tanks. Stacked 25 8 x 40 mats and hauled away 15 to P-20. Set down 35 swamp mats around under flare stacks. Re-spotted flare stacks. Continued to ready Weatherford down hole gauge equipment. Moved and flare stacks back on mats and rigged in to P-Tank. Evaporators going over night.</p> <p>SICP = 0KPa @ 2400hrs & @ 0600hrs</p>
30	2/23/2014 06:00	48,583.58	18,048,071.27	<p>Finished clean up frac tank farm. Spotted Jet pump and NOV 250KW gen set. Hauled matting and mixed loads to P-20 location. Continued to ready Weatherford down hole gauges (installed gauges onto cable and tested). Re-spotted line heater and manifold shack. Installed 5K flow manifold into shack. Heated Gen-Set with dry heater, picked up wellhead parts, planks and any garbage around lease. Heat water for disposal and evaporators running.</p> <p>SICP = 0KPa @ 2400hrs</p>
31	2/24/2014 06:00	134,639.58	18,182,710.85	<p>Filled line heater with water and fired. RCS performed oil changes and serviced their equipment. Fired up NOV gen set and plugged in Weatherford jet pump. Loaded geo and liner into end dumps to be hauled away to disposal.</p>
32	2/25/2014 06:00	190,596.58	18,373,307.43	<p>Hauled off 216m³ of waste water heading to Tervita Rainbow Lake. Functioned and tested shut downs on jet pump. Continue to heat flowback tanks and wellhead. Testers on location prepping/cleaning equipment.</p>
33	2/26/2014 06:00	160,277.58	18,533,585.01	<p>Rigged out and hauled off shacks (2 x super single, 1 safety shack). Moved on Nabors #414 service rig. Spotted and rigged in all equipment as per regulations. Loaded 200jts of 60.3mm J-55 tubing onto pipe racks. Reviewed Nabors equipment certs, safety valve certs expired Feb.16 2014. Talked with Derrick Cove and Nabors office, annual certification was Nabors former policy but not regulatory. Nabors is to send documentation stating valve is ok to use prior to running tubing, as per Derrick Cove.</p>
34	2/27/2014 06:00	73,652.58	18,607,237.59	<p>Picked up Weatherford BHA. Installed real time down hole gauges into gauge mandrels. Pressure tested seals on gauges. Confirmed gauges were working correctly after installed. Ran in hole BHA installing Canon clamps across each tubing connection to hold cables tight and straight. Cable was rubbing/pulling on sheave. Re-positioned spooling trailer and adjusted positioning of pins on sheave so that cable is no longer rubbing. Continue to RIH 60.3mm /6.99kg/m /J-55 tubing and BHA in hole installing Canon clamps across each tubing connection. Weatherford tech checking resistance and gauges on way in hole. All tests were good. 126 joints in hole at shift change.</p>

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35	2/28/2014 06:00	83,853.58	18,691,091.17	Continued to RIH with Weatherford BHA c/w dual real time gauges. Slid over top of slick joint with On-off skirt (no jay slots). Spaced out tubing string and landed the tubing hanger with 7000 daN compression on packer. Pressure tested packer and On-off seals to 30MPa. Good test. Rig out floor and handling equipment, remove bops. Orientate tubing hanger so cables are in proper position. Install BPV in tubing hanger. Install production wellhead (install control lines through wellhead). Re-pressure test annulus and on/off seals to 30MPa, test good. Pressure test wellhead assembly to 1.4 low and 34.5MPa high for 15min each, tests good. Pressure test tubing hanger extended neck seals to 1.4 low and 34.5MPa high for 15 min each, test good. Rig in work floor and tarp in wellhead. Rig in testers line to wellhead. Rig crew pour new rope socket, prep swab equipment.
36	3/1/2014 06:00	134,314.62	18,825,405.79	Rigged on Weatherford wellhead outlet assembly for real time down hole gauges. Pressure tested BX156 ring seal and wellhead outlet assembly to 34MPa. Rigged in slickline. Ran 48.3mm GR to top of sliding sleeve at 1773.63mKB. Opened sliding sleeve. Rig on and pressure test service rig pump line to tubing. Pressure up tubing and pump off PPMP plug on bottom of tubing. (22MPa to shear). RIH slickline with 47.63mm X-lock c/w instrument hanger, shock absorber and bombwell. Bombwell containing 2- weatherford 10K gauges. Set in 47.63mm X profile nipple below gauge carriers @ 1786.20mKB. Rig out Slickline. Prepare to swab well with service rig. SCADA system is up and running but data not transmitting to welltest system. Weatherford tech to be out in morning to troubleshoot. Not able to begin swabbing until system is operational.
37	3/2/2014 06:00	366,062.61	19,191,468.40	Worked on SCADA and Weatherford real time data acquisition equipment until data communication was confirmed. Swabbed well. IFL was 150m. Pulled 9 swabs total recovering 9.65m³ water and the well started to flow. Choked back flow to keep fluid returns below 10.0m³/d and ensure BHP does not drop more than 15%. Obtained Protechnics samples as per sampling schedule. 06:00 Flow summary (13.5 Hours flowed - 13.5 Hours Flared), FTP: 3170 kPa, SICP: 3018 kPa, Flow Temp: 42°C, Meter Run Temp: 43°C, Choke size: 12.7mm, Gas Rate: 10.52 E³m³/d, Cumulative Gas to Flare: 5.58 E³m³, LFTR: 6586.42m³, LFR last hour: 8.50m³, LFR last 6 hours: 47.27m³, TLFR: 134.00m³, TLFLTR: 6452.42m³, Oil rec. last hour: 0.0m³, Oil rec. last 6 hours: 0.0m³, Cumulative Oil rec: 0.0m³, Salinity: 38000 ppm, PH: 8, Sand: none
38	3/3/2014 06:00	185,243.61	19,376,712.01	Continue to flow and evaluate well to Weatherford testers. AGAT Collected and shipped complete water, additional water and time-lapse water samples. Protechnic samples and rest of water and gas samples collected as per schedule. Shut in well @ 10:30am to remove swab tree, rig out service and move away from wellhead. Re-open well @ 11:45am. Choke size = 12.7mm. 06:00pm Flow summary (Hours flowed - 36 Hours 15min Flared) FTP: 3998 kPa SICP: 6115 kPa Flow Temp: 6°C Meter Run Temp: 47°C Choke size: 12.7mm Gas Rate: 15.23 E³m³/d Cumulative Gas to Flare: 16.10 E³m³ Cumulative Gas to Flare last 24hrs: 10.53 E³m³ LFTR: 6586.42m³ LFR last hour: 7.30m³ LFR last 24 hours: 182.51m³ (hourly average last 24 hours = 7.60m³) TLFR: 316.51m³ TLFLTR: 6269.91m³ Oil rec. last hour: 0.0m³ Oil rec. last 6 hours: 0.0m³ Cumulative Oil rec: 0.0m³ Salinity: 32000 ppm PH: 7 Sand: Trace

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39	3/4/2014 06:00	93,728.72	19,470,440.73	<p>Continued to flow well to testers on 12.7mm choke. Samples gathered as per schedule. Change choke sizes and Monitor BHP ensure not to draw down more than 40% of original BHP. Started to see traces of condensate @ 16:00pm. AGAT recovered 2- 1L samples of condensate, 2 gas samples taken and to be sent in March 5 for h2s analysis.</p> <p>17:00pm increase choke size to 13.49mm, BHP prior to choke change to 13.49mm = 14,072 kPa.</p> <p>18:00pm increase choke size to 14.29mm, BHP prior to choke size change to 14.29mm = 13,978kPa.</p> <p>19:00pm increase choke size to 15.88mm, BHP prior to choke change to 15.88mm = 13870 kPa.</p> <p>22:00pm increase choke size to 16.67mm, BHP prior to choke size change to 16.67mm = 13,447kPa.</p> <p>04:00am increase choke size to 17.46mm, BHP prior to choke change to 17.46mm = 12,949 kPa.</p> <p>06:00am increase choke size to 19.05mm, BHP prior to choke change to 19.05mm = 12,827 kPa.</p> <p>06:00pm Flow summary (Hours flowed - 60 Hours 15min Flared)</p> <p>FTP: 5091 kPa</p> <p>SICP: 10776 kPa</p> <p>Intermediate CSG = 1400KPa</p> <p>Flow Temp: 16°C</p> <p>Meter Run Temp: 43°C</p> <p>Choke size: 17.46mm</p> <p>Gas Rate: 110.06 E³m³/d</p> <p>Cumulative Gas to Flare: 78.68 E³m³</p> <p>Cumulative Gas to Flare last 24 hrs: 62.58 E³m³</p> <p>LFTR: 6586.42m³</p> <p>LFR last hour: 7.29m³</p> <p>LFR last 24 hours: 195.16m³ (hourly average last 24 hours = 8.13 m³)</p> <p>TLFR: 511.67m³</p> <p>TLFLTR: 6074.75m³</p> <p>Oil rec. last hour: 0.23m³</p> <p>Oil rec. last 24 hours: 2.79m³</p> <p>Cumulative Oil rec: 2.79m³</p> <p>Oil API = 58.68</p> <p>Salinity: 40000 ppm</p> <p>PH: 8</p> <p>Sand: Trace</p> <p>Surface Total 282.25m³</p>
40	3/5/2014 06:00	128,159.21	19,598,599.94	<p>Continue to Flow well to Weatherford testers increasing choke size by 2 increments every 4 hours. Monitor BHP to ensure not to exceed 40% draw down from original BHP or exceed 283e³m³/d gas rate (as per NEB). Take water/gas/oil samples as per schedule. First set of 12 ProTechnics samples shipped to Red Deer for analysis.</p> <p>Haul in 70 oak mats and mat around flare stack to avoid melting ice pad.</p> <p>06:00am Flow summary (Hours flowed - 84 Hours 15min Flared)</p> <p>FTP: 4649 kPa</p> <p>SICP: 9975 kPa</p> <p>Intermediate CSG = TSTMKPa</p> <p>Flow Temp: 8°C</p> <p>Meter Run Temp: 43°C</p> <p>Choke size: 19.05mm</p> <p>Gas Rate: 121.05 E³m³/d</p> <p>Cumulative Gas to Flare: 187.71 E³m³</p> <p>Cumulative Gas to Flare last 24 hrs: 109.03 E³m³</p> <p>LFTR: 6586.42m³</p> <p>LFR last hour: 6.0m³</p> <p>LFR last 24 hours: 169.03m³ (hourly average last 24 hours = 7.04m³)</p> <p>TLFR: 680.70m³</p> <p>TLFLTR: 5905.72m³</p> <p>Oil rec. last hour: 0.15m³</p> <p>Oil rec. last 24 hours: 5.63m³</p> <p>Cumulative Oil rec: 8.42m³</p> <p>Oil API = 60.56 @ 60°F</p> <p>Salinity: 44000 ppm</p> <p>PH: 8</p> <p>Sand: Trace</p> <p>Surface Total 377.86m³</p> <p>H2S = 0.4PPM</p>

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Report No.	Start Date	Daily Cost Total (Cost)	Cum Cost (Cost)	Last 24hr Sum
41	3/6/2014 06:00	95,029.61	19,693,629.55	<p>Continue to Flow well to Weatherford testers. Well flowing on a 19.05mm choke. Monitor BHP to ensure not to exceed 40% draw down from original BHP or exceed 283E³m³/d gas rate (as per NEB). Take water/gas/oil samples as per schedule by AGAT. First PVT oil and gas samples taken at 11:00am by Corelab. (2 condensate and 3 gas samples).</p> <p>06:00am Flow summary (Hours flowed - 108Hours 15min Flared)</p> <p>FTP: 4482 kPa SICP: 9515 kPa DHP: 11036.4 kPa Intermediate CSG = TSTMkPa Flow Temp: 27°C Meter Run Temp: 41°C Choke size: 19.05mm Gas Rate: 110.98 E³m³/d Cumulative Gas to Flare: 296.09 E³m³ Cumulative Gas to Flare last 24 hrs: 108.38 E³m³ LFTR: 6586.42m³ LFR last hour: 5.44m³ LFR last 24 hours: 126.91m³ (hourly average last 24 hours = 5.29 m³) TLFR: 807.61m³ TLFLTR: 5778.81m³ Oil rec. last hour: 0.20m³ Oil rec. last 24 hours: 4.32m³ Cumulative Oil rec: 12.74m³ Oil API = 60.87 @ 60°F Salinity: 48000 ppm PH: 8 Sand: Trace Surface Total 494.1m³ H2S = 0.5PPM</p>
42	3/7/2014 06:00	169,200.37	19,862,829.92	<p>Continue to Flow well to Weatherford testers. Well flowing on a 19.05mm choke. Monitor BHP to ensure not to exceed 40% draw down from original BHP or exceed 283E³m³/d gas rate (as per NEB). Take water/gas/oil samples as per schedule by AGAT. Second PVT oil and gas samples taken at 10:00am by Corelab. (2 condensate and 3 gas samples).</p> <p>06:00am Flow summary (Hours flowed - 132Hours 15min Flared)</p> <p>FTP: 4465 kPa SICP: 9191 kPa DHP=10926.0kPa Intermediate CSG = TSTMkPa Flow Temp: 35°C Meter Run Temp: 39°C Choke size: 19.05mm Gas Rate: 101.92 E³m³/d Cumulative Gas to Flare: 400.85 E³m³ Cumulative Gas to Flare last 24 hrs: 104.76 E³m³ LFTR: 6586.42m³ LFR last hour: 4.64m³ LFR last 24 hours: 114.17m³ (hourly average last 24 hours = 4.76m³) TLFR: 921.78m³ TLFLTR: 5664.64m³ Oil rec. last hour: 0.20m³ Oil rec. last 6 hours: 4.11m³ Cumulative Oil rec: 16.85m³ Oil API =61.61 @ 60°F Salinity: 54000 ppm PH: 7 Sand: Trace Surface Total 483.76m³ H2S= 0.5ppm</p>

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Report No.	Start Date	Daily Cost Total (Cost)	Cum Cost (Cost)	Last 24hr Sum
43	3/8/2014 06:00	153,744.61	20,016,574.53	<p>Continue to Flow well to Weatherford testers. Well flowing on a 19.05mm choke. Monitor BHP to ensure not to exceed 40% draw down from original BHP or exceed 283e³m³/d gas rate (as per NEB). Take water/gas/oil samples as per schedule by AGAT. 06:00pm Flow summary (Hours flowed - 155 Hours 04min Flared) Daylight savings time change causing readings to be 5hr time frame.</p> <p>FTP: 3951 kPa SICP: 8933 kPa DHP=10608kPa Intermediate CSG = TSTMkPa Flow Temp: 35°C Meter Run Temp: 38°C Choke size: 19.05mm Gas Rate: 107.89 E³m³/d Cumulative Gas to Flare: 502.00 E³m³ Cumulative Gas to Flare last 23 hrs: 101.15 E³m³ LFTR: 6586.42m³ LFR last hour: 4.26m³ LFR last 23 hours: 89.38m³ (hourly average last 23 hours = 3.89m³) TLFR: 1011.16m³ TLFLTR: 5575.26m³ Oil rec. last hour: 0.10m³ Oil rec. last 23 hours: 3.53m³ Cumulative Oil rec: 20.38m³ Oil API = 59.95 @ 60°F Salinity: 54000 ppm PH: 7 Sand: Trace Surface Total 432.65m³ H2S= 0.40ppm</p>
44	3/9/2014 06:00	140,439.62	20,157,014.15	<p>Continue to Flow well to Weatherford testers. Well flowing on a 19.05mm choke. Monitor BHP to ensure not to exceed 40% draw down from original BHP or exceed 283e³m³/d gas rate (as per NEB). Take water/gas/oil samples as per schedule by AGAT. NEB and WSCC on location for inspection. Inspection went well, no deficiencies to report. 06:00am Flow summary (Hours flowed - 179 Hours 04min Flared)</p> <p>FTP: 4249 kPa SICP: 8745 kPa DHP=10367kPa Intermediate CSG = TSTMkPa Flow Temp: 33°C Meter Run Temp: 37°C Choke size: 19.05mm Gas Rate: 109.96 E³m³/d Cumulative Gas to Flare: 604.65 E³m³ Cumulative Gas to Flare last 24 hrs: 102.65 E³m³ LFTR: 6586.42m³ LFR last hour: 3.84m³ LFR last 24 hours: 92.3m³ (hourly average last 24 hours = 3.85m³) TLFR: 1103.46m³ TLFLTR: 5482.96m³ Oil rec. last hour: 0.15m³ Oil rec. last 24 hours: 3.63m³ Cumulative Oil rec: 24.01m³ Oil API =61.54 @ 60°F Salinity: 52000 ppm PH: 7 Sand: Trace Surface Total 400.1m³ H2S= 0.40ppm</p>

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Report No.	Start Date	Daily Cost Total (Cost)	Cum Cost (Cost)	Last 24hr Sum
45	3/10/2014 06:00	113,699.61	20,270,713.76	<p>Continue to Flow well to Weatherford testers. Well flowing on a 19.05mm choke. Monitor BHP to ensure not to exceed 40% draw down from original BHP or exceed 283e³m³/d gas rate (as per NEB). Time-Lapse and time sensitive samples taken today as per schedule and shipped to AGAT for analysis. All remaining samples on location being shipped to AGAT as per schedule.</p> <p>06:00pm Flow summary (Hours flowed - 203 Hours 04min Flared)</p> <p>FTP: 3752 kPa SICP: 8516 kPa DHP=10078kPa Intermediate CSG = TSTMkPa Flow Temp: 32°C Meter Run Temp: 36°C Choke size: 19.05mm Gas Rate: 95.38 E³m³/d Cumulative Gas to Flare: 705.75 E³m³ Cumulative Gas to Flare last 24 hrs: 101.10 E³m³ LFTR: 6586.42m³ LFR last hour: 3.68m³ LFR last 24 hours: 88.74m³ (hourly average last 24 hours = 3.70m³) TLFR: 1192.20m³ TLFLTR: 5394.22m³ Oil rec. last hour: 0.05m³ Oil rec. last 24 hours: 3.44m³ Cumulative Oil rec: 27.45m³ Oil API = 58.3 @ 60°F Salinity: 52000 ppm PH: 7 Sand: Trace Surface Total 422.31m³ H2S= 0.40ppm</p>
46	3/11/2014 06:00	102,049.62	20,372,763.38	<p>Continue to Flow well to Weatherford testers. Well flowing on a 19.05mm choke. Monitor BHP to ensure not to exceed 40% draw down from original BHP or exceed 283e³m³/d gas rate (as per NEB). Took water/gas/oil samples as per schedule by AGAT.</p> <p>06:00 Flow summary (Hours flowed - 227 Hours, 04min Flared)</p> <p>FTP: 3764 kPa SICP: 8380 kPa DHP= 9904.1 kPa Intermediate CSG = TSTM Flow Temp: 33°C Meter Run Temp: 36°C Choke size: 19.05mm Gas Rate: 103.70 E³m³/d Cumulative Gas to Flare: 806.53 E³m³ Cumulative Gas to Flare last 24 hrs: 100.78 E³m³ LFTR: 6586.42m³ LFR last hour: 3.34 m³ LFR last 24 hours: 79.53 m³ (hourly average last 24 hours = 3.31 m³) TLFR: 1271.73 m³ TLFLTR: 5314.69m³ Oil rec. last hour: 015.m³ Oil rec. last 24 hours: 3.68 m³ Cumulative Oil rec: 3.68m³ Oil API = 59.50 @ 60°F Salinity: 63000 PH: 7 Sand: Trace Surface Total 435.13 m³ H2S= 0.4 ppm</p>

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port No.	Start Date	Daily Cost Total (Cost)	Cum Cost (Cost)	Last 24hr Sum
47	3/12/2014 06:00	79,979.62	20,452,743.00	<p>Continue to Flow well to Weatherford testers. Well flowing on a 19.05mm choke. Monitor BHP to ensure not to exceed 40% draw down from original BHP or exceed 283e³m³/d gas rate (as per NEB). Took AGAT samples as per schedule. 06:00 Flow summary (Hours flowed - 251 Hours, 04min Flared)</p> <p>FTP: 3708 kPa SICP: 8249 kPa DHP= 9734 kPa Intermediate CSG = TSTM Flow Temp: 34°C Meter Run Temp: 37°C Choke size: 19.05mm Gas Rate: 98.47 E³m³/d Cumulative Gas to Flare: 904.64 E³m³ Cumulative Gas to Flare last 24 hrs: 98.11 E³m³ LFTR: 6586.42m³ LFR last hour: 2.88 m³ LFR last 24 hours: 72.80 m³ (hourly average last 24 hours = 3.03 m³/hr) TLFR: 1344.53 m³ TLFLTR: 5241.89 m³ Oil rec. last hour: 0.20m³ Oil rec. last 24 hours: 3.22m³ Cumulative Oil rec: 34.35m³ Oil API = 59.29 @ 60°F Salinity: 58000 PH: 7 Sand: Trace Surface Total = 457.16 m³ H2S= 0.40ppm (by Gastech tube)</p>
48	3/13/2014 06:00	41,024.61	20,493,767.61	<p>Continue to Flow well to Weatherford testers. Well flowing on a 19.05mm choke. Monitor BHP to ensure not to exceed 40% draw down from original BHP or exceed 283e³m³/d gas rate (as per NEB). Took Protechnics sample as per schedule. 06:00 Flow summary (Hours flowed - 275 Hours, 4 min Flared)</p> <p>FTP: 3562 kPa SICP: 8101 kPa DHP= 9553 kPa Intermediate CSG = TSTM Flow Temp: 32°C Meter Run Temp: 34°C Choke size: 19.05mm Gas Rate: 99.40 E³m³/d Cumulative Gas to Flare: 1001.52 E³m³ Cumulative Gas to Flare last 24 hrs: 96.88 E³m³ LFTR: 6586.42m³ LFR last hour: 3.0m³ LFR last 24 hours: 72.27m³ (hourly average last 24 hours = 3.01 m³/hr) TLFR: 1416.80m³ TLFLTR: 5169.62m³ Oil rec. last hour: 0.10m³ Oil rec. last 24 hours: 3.12m³ Cumulative Oil rec: 37.47m³ Oil API = 59.50 @ 60°F Salinity: 54000ppm PH: 7 Sand: Trace Surface Total = 520.08m³ H2S= 0.3 ppm (by Gastech tube)</p>

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Report No.	Start Date	Daily Cost Total (Cost)	Cum Cost (Cost)	Last 24hr Sum
49	3/14/2014 06:00	50,006.62	20,543,774.23	<p>Continue to Flow well to Weatherford testers flowing on a 19.05mm choke until 00:00hrs then changed to 19.84mm, Changed choke to 20.64mm @ 0600hrs. Took Protechnics sample as per schedule.</p> <p>06:00 Flow summary (Hours flowed - 299 Hours, 4 min Flared)</p> <p>FTP: 3366 kPa SICP: 7937 kPa DHP= 9413 kPa Intermediate CSG = TSTM Flow Temp: 32°C Meter Run Temp: 35°C Choke size: 19.84mm Gas Rate: 89.84 E³m³/d Cumulative Gas to Flare: 1098.00 E³m³ Cumulative Gas to Flare last 6 hrs: 23.78 E³m³ Cumulative Gas to Flare last 24 hrs: 96.48 E³m³ LFTR: 6586.42m³ LFR last hour: 2.50 m³ LFR last 6 hours: 16.45 m³ (hourly average last 6 hours = 2.74m³/hr) LFR last 24 hours: 63.43 m³ (hourly average last 24 hours = 2.64m³/hr) TLFR: 1480.23m³ TLFLTR: 5106.19m³ Oil rec. last hour: 0.15m³ Oil rec. last 6 hours: 0.76m³ Oil rec. last 24 hours: 3.27m³ Cumulative Oil rec: 40.74m³ Oil API = 59.09 @ 60°F Salinity: 58000ppm PH: 7 Sand: Trace Surface Total = 556.75m³ H2S= 0.3ppm (by Gastech tube) Change choke size to a 48/64 and 20/64, equal to a 52/64 choke (20.64mm) @ 0600hrs</p>
50	3/15/2014 06:00	146,030.62	20,689,804.85	<p>Continue to Flow well to Weatherford testers. Adjusted choke size as follows: 06:00 to 20.64mm. 12:00 to 21.30mm. 18:00 to 22.05mm. 00:00 to 22.90 mm. 06:00 to 23.81mm</p> <p>06:00 Flow summary (Hours flowed - 323 Hours, 4 min Flared)</p> <p>FTP: 3037 kPa SICP: 7814 kPa DHP= 9213 kPa Intermediate CSG = TSTM Flow Temp: 33°C Meter Run Temp: 36°C Choke size: 22.90mm Gas Rate: 109.78 E³m³/d Cumulative Gas to Flare: 1196.22 E³m³ Cumulative Gas to Flare last 6 hrs: 25.0 E³m³ Cumulative Gas to Flare last 24 hrs: 98.22 E³m³ LFTR: 6586.42m³ LFR last hour: 2.70m³ LFR last 6 hours: 15.95m³ (hourly average last 6 hours = 2.66m³/hr) LFR last 24 hours: 63.95m³ (hourly average last 24 hours = 63.95m³/hr) TLFR: 1544.18m³ TLFLTR: 5042.24m³ Oil rec. last hour: 0.15m³ Oil rec. last 6 hours: 0.75m³ Oil rec. last 24 hours: 3.02m³ Cumulative Oil rec: 43.76m³ Oil API = 59.09 @ 60°F Salinity: 58000ppm PH: 7 Sand: Trace Surface Total = 497.18m³ H2S= 0.40ppm (by Gastech tube)</p>

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DAILY ACTIVITY & COST SUMMARY

port No.	Start Date	Daily Cost Total (Cost)	Cum Cost (Cost)	Last 24hr Sum
51	3/16/2014 06:00	84,975.00	20,774,779.85	<p>Continue to Flow well to Weatherford testers. Time-Lapse and time sensitive samples taken today as per schedule and shipped to AGAT for analysis. Adjusted choke size as follows: 06:00 to 23.81mm. 12:00 to 24.80mm. 18:00 to 25.31mm and stay there for remainder of test 06:00 Flow summary (Hours flowed - 347 Hours, 4 min Flared)</p> <p>FTP: 2439 kPa SICP: 7645 kPa DHP= 9024 kPa Intermediate CSG = TSTM Flow Temp: 32°C Meter Run Temp: 34°C Choke size: 25.4mm Gas Rate: 97.21 E³m³/d Cumulative Gas to Flare: 1295.90 E³m³ Cumulative Gas to Flare last 6 hrs: 24.70 E³m³ Cumulative Gas to Flare last 24 hrs: 99.68 E³m³ LFTR: 6586.42m³ LFR last hour: 2.72m³ LFR last 6 hours: 15.65 m³ (hourly average last 6 hours = 2.61 m³/hr) LFR last 24 hours: 57.63 m TLFR: 1601.81m³ TLFLTR: 4984.61m³ Oil rec. last hour: 0.10m³ Oil rec. last 6 hours: 0.56m³ Oil rec. last 24 hours: 2.37m³ Cumulative Oil rec: 46.13m³ Oil API = 58.11 @ 60°F Salinity: 62000ppm PH: 7 Sand: Trace Surface Total = 496.43m³ H2S= 0.20 ppm (by Gastech tube)</p>
52	3/17/2014 06:00	137,505.00	20,912,284.85	<p>Continue to Flow well to Weatherford testers.</p> <p>06:00 Flow summary (Hours flowed - 371 Hours, 4 min Flared)</p> <p>FTP: 2223 kPa SICP: 7504 kPa DHP= 8888 kPa Intermediate CSG = TSTM Flow Temp: 30°C Meter Run Temp: 35°C Choke size: 25.31mm Gas Rate: 103.6 E³m³/d Cumulative Gas to Flare: 1394.56 E³m³ Cumulative Gas to Flare last 6 hrs: 24.45 E³m³ Cumulative Gas to Flare last 24 hrs: 98.64 E³m³ LFTR: 6586.42m³ LFR last hour: 2.25m³ LFR last 6 hours: 14.75 m³ (hourly average last 6 hours = 2.46 m³/hr) LFR last 24 hours: 60.3 m³ TLFR: 1662.11m³ TLFLTR: 4924.31m³ Oil rec. last hour: 0.10m³ Oil rec. last 6 hours: 0.6m³ Oil rec. last 24 hours: 2.21m³ Cumulative Oil rec: 48.34m³ Oil API = 59.54 @ 60°F Salinity: 58000ppm PH: 7 Sand: Trace Surface Total = 442.46m³ H2S= 0.50 ppm (by Gastech tube)</p>

Daily Activity and Cost Summary

COPRC DODO CANYON E-76 65-10 126-45

DAILY ACTIVITY & COST SUMMARY

Report No.	Start Date	Daily Cost Total (Cost)	Cum Cost (Cost)	Last 24hr Sum
53	3/18/2014 06:00	48,330.00	20,960,614.85	<p>Continue to Flow well to Weatherford testers. Obtained AGAT samples as per schedule.</p> <p>06:00 Flow summary (Hours flowed - 395 Hours, 4 min Flared)</p> <p>FTP: 2352kPa SICP: 7262 kPa DHP= 8811 kPa Intermediate CSG = TSTM Flow Temp: 30°C Meter Run Temp: 32°C Choke size: 25.31mm Gas Rate: 94.20 E³m³/d Cumulative Gas to Flare: 1491.97 E³m³ Cumulative Gas to Flare last 6 hrs: 24.01 E³m³ Cumulative Gas to Flare last 24 hrs: 97.33 E³m³ LFTR: 6586.42m³ LFR last hour: 2.12m³ LFR last 6 hours: 14.11m³ (hourly average last 6 hours = 2.35m³/hr) LFR last 24 hours: 58.08m³ TLFR: 1720.19m³ TLFLTR: 4866.23m³ Oil rec. last hour: 0.1m³ Oil rec. last 6 hours: 0.60m³ Oil rec. last 24 hours: 2.37m³ Cumulative Oil rec: 50.71m³ Oil API = 59.87 @ 60°F Salinity: 62000ppm PH: 7 Sand: trace Surface Total = 474.62m³ H2S= 0.3ppm (by Raytech tube)</p>
54	3/19/2014 06:00	50,252.00	21,010,866.85	<p>Continue to Flow well to Weatherford testers.</p> <p>06:00 Flow summary (Hours flowed - 419 Hours, 4 min Flared)</p> <p>FTP: 2335 kPa SICP: 5277 kPa DHP= 8704 kPa Intermediate CSG = TSTM Flow Temp: 30°C Meter Run Temp: 33°C Choke size: 25.31mm Gas Rate: 94.66 E³m³/d Cumulative Gas to Flare: 1587.4 E³m³ Cumulative Gas to Flare last 6 hrs: 23.55 E³m³ Cumulative Gas to Flare last 24 hrs: 95.43 E³m³ LFTR: 6586.42m³ LFR last hour: 2.28m³ LFR last 6 hours: 13.71 m³ (hourly average last 6 hours = 2.29 m³/hr) LFR last 24 hours: 55.92 m³ TLFR: 1776.11m³ TLFLTR: 4810.31m³ Oil rec. last hour: 0.10m³ Oil rec. last 6 hours: 0.6m³ Oil rec. last 24 hours: 2.23m³ Cumulative Oil rec: 52.93m³ Oil API = 59.76 @ 60°F Salinity: 70000ppm PH: 7 Sand: Trace Surface Total = 477.37m³ H2S= 0.30 ppm (by Gastech tube)</p>

Daily Activity and Cost Summary

COPRC DODO CANYON E-76 65-10 126-45

DAILY ACTIVITY & COST SUMMARY

Report No.	Start Date	Daily Cost Total (Cost)	Cum Cost (Cost)	Last 24hr Sum
55	3/20/2014 06:00	51,678.00	21,062,544.85	<p>Continue to Flow well to Weatherford testers. Obtained AGAT time sensitive samples as per sampling schedule. Delivered all samples to MXL for immediate shipping (AGAT, Tetra Tech + Protechnics). 08:00 Shut in the well. 08:00 Flow summary (Total Hours flowed - 421 Hours, 4 min Flared)</p> <p>FTP: 2433 kPa SICP: 5204 kPa DHP= 8711 kPa Intermediate CSG = TSTM Flow Temp: 30°C Meter Run Temp: 32°C Choke size: 25.31mm Gas Rate: 94.24 E³m³/d Cumulative Gas to Flare: 1595.32 E³m³ Cumulative Gas to Flare last 2 hrs: 7.92 E³m³ LFTR: 6586.42m³ LFR last hour: 2.81m³ LFR last 2 hours: 4.50m³ (hourly average last 2 hours = 2.25m³/hr) TLFR: 1780.61m³ TLFLTR: 4805.81m³ Oil rec. last hour: 0.05m³ Oil rec. last 2 hours: 0.15m³ Cumulative Oil rec: 53.08m³ Oil API = 59.95 @ 60°F Salinity: 68000ppm PH: 7 Sand: trace Surface Total = 439.13m³ H2S= 0.3ppm (by Raytech tube)</p> <p>Sucked out and cleaned high stage and low stage P-tanks. Sucked out all lines and started to rig out all Weatherford test equipment. Cool down and rig out HD boiler.</p> <p>Take pressure build ups for 24 hours.</p> <p>08:05 Tbg: 7429 kPa, Csg: 5217 kPa, BHP: 9300 kPa 08:10 Tbg: 7596 kPa, Csg: 5229 kPa, BHP: 9468 kPa 08:15 Tbg: 7654 kPa, Csg: 5211 kPa, BHP: 9536 kPa 08:30 Tbg: 7842 kPa, Csg: 5141 kPa, BHP: 9629 kPa 09:00 Tbg: 8137 kPa, Csg: 5279 kPa, BHP: 9780 kPa 12:00 Tbg: 8510 kPa, Csg: 5894 kPa, BHP: 10211 kPa 18:00 Tbg: 8781 kPa, Csg: 8866 kPa, BHP: 10605 kPa 00:00 Tbg: 8939 kPa, Csg: 9032 kPa, BHP: 10872 kPa 06:00 Tbg: 9070 kPa, Csg: 9162 kPa, BHP: 11041 kPa</p>
56	3/21/2014 06:00	42,639.00	21,105,183.85	<p>Finished rig out of all Weatherford testing equipment. Moved all test equipment off location with bed truck to KM 27.5 rack site. Started to remove and stack swamp mats. Cleaned and readied shacks to be rigged out in the AM. Begin cleaning snow and ice from tank farm containment. Well pressures at 06:00am SITP=9332kPa SICP=9394kPa</p>
57	3/22/2014 06:00	41,235.00	21,146,418.85	<p>Rigged out and hauled away 2 50/50 well site shacks, 115KV generator and sewer system. Hauled all swamp mats off location. Erected chain link fence around wellhead. Continued to dehydrate flow back water. Well Pressures @ 06:00am SITP=9500kPa SICP=9590kPa</p> <p>35.57m³ to dehydrator</p>
58	3/23/2014 06:00	125,107.00	21,271,525.85	<p>Continued to Evaporate flowback water. Haul 4 loads of fluid to Tervita disposal.</p>
59	3/24/2014 06:00	372,466.75	21,643,992.60	<p>Shut down dehydrators. Sucked out, cleaned and readied dehydrators for transport. Hauled 3 loads of flow back water off location to disposal (174.8m³ fluid left on location in tanks). Washed wellhead and cellar ring.</p>
60	3/25/2014 06:00	41,022.00	21,685,014.60	<p>Haul out flowback fluids to disposal. Hauled out 1 load to disposal 27m³. (3 Formula Powell trucks did not make it up to Norman Wells today) Move 2 light stands off location to P-20 well.</p>

Daily Activity and Cost Summary

COPRC DODO CANYON E-76 65-10 126-45

DAILY ACTIVITY & COST SUMMARY

Report No.	Start Date	Daily Cost Total (Cost)	Cum Cost (Cost)	Last 24hr Sum
61	3/26/2014 06:00	76,592.00	21,761,606.60	Haul out flowback water to disposal. Hauled out 3 loads to Tervita Rainbow Lake (83.6m³). Haul remainder of fluid to storage tank farm in Norman wells. (64.2m³). Tank farm is empty and ready for demob.
62	3/27/2014 06:00	168,448.40	21,930,055.00	Remove 12 x 400 bbl tanks from containment / Send 4 tanks to Norman Wells CPC YVQ Yard / Rack 8 tanks on location.
63	3/28/2014 07:30	15,277.75	21,945,332.75	Load out remaining 400 bbl tanks / Disassemble and load out containment / load out 12 x 8-40 matting