Example Company X Edmonton, AB

Prepared for:

Mr. John Smith

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Products and Functions:

Extra High Yield Bentonite: Premium high yield Bentonite providing filter cake ability and bridging in permeable and broken ground. MUST ADD SODA ASH BEFORE MIXING 2KG/200GAL

Sand Stabilizer: A special blend of synthetic polymers that acts as a binding agent when introduced to rubbled ground conditions improving wellbore stability and enhancing the gelling ability of Extra High Yield Gel through flocculation

DR-133: Synthetic liquid viscosifying polymer that mixes quickly. Add a a point of aggitiation to ensure even dispersion.

GSX 20 NT: Liquid blend of surfactants and lubricants designed to lessen torque in highly abrasive drilling situations like sand and volcanic formations.

DDR 3 Rod Grease: Rod grease designed for environmentally sensitive areas

Soda Ash: water conditioner for increasing pH and removing calcium from make up water allowing polymers and gel to reach maximum potential faster.

General Mud Mixing Procedure:

The top section of the hole is expected to be rubbled overburden. If this is the case refer to the Interval 1 Challenge Remedies A for mixing instructions.

For general drilling in Interval 2 for a 1000L mix:

Roll the tank with the hydraulic mixer at reasonable maximum Add 1 visc cups of Soda Ash

Add 2 visc cups of DR-133 at 30 secs/cup at a point of agitiation in the water to ensure even dispersion and proper hydration.

Ideally this system should be run at a 35-38 sec/L viscosity for optimal hole cleaning and lubrication.

If conditions change refer to the Challenges list for recommended changes to the mix.

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Fast Track Fluids Tool

Interval #1

Unconsolidated collar section of the well. Rubbled overburden expected.





Interval #2

Expected Geology: Igneous and volcanic rock with possible slip planes.

Potential Challenges:



Abrasive Conditions

Interv	al #3		
Expected	Geology:		
Dotontial	Challong		
Potential	challenge	25:	

Unit 101, 2567 192nd Street Surrey, British Columbia Sales and Service: Toll Free: 1 800-665-6645 Main Office: 1-604-542-9595 24hr Technical Fluids Support: Walker 604-788-8537 Website where all MSDS and Product Data Sheets can be accessed:

Di-Corp Mineral Exploration

Contact Information:



The first three problems are all linked.

Unstable unconsolidated top hole formation and overburden result in lost circulation and poor core recovery. When starting

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the hole premix a thick blend of Sand Stabilizer. In a premix tank of 1000L 250 gal start hydraulic mixer + add 2.5 Visc cups Sand Stabilizer. Add SLOWLY to prevent fish eyeing of polymer. Do not add faster than 2mins/scoop at a point of surface disturbance in the tank.

If losses are encountered increase additions of SandStabilizer to 4scoops/ 1000L and allow to hydrate for 5mins b4 pumping. If losses persist and ground is very rubbled mix a standard blend as before and add 1 Vis cup of Sand Stabilizer as close to the pump suction as possible while drilling over 1 min. This will push semi/un hydrated polymer into fractures

and allow them to hydrate and bridge the fractures bonding the together

Faulted zones and slip planes can pinch pipe while drilling. if high torque is noted after recovering core that appears to be exhibiting slip planes fractures consider reaming the hole before coring ahead to mill out ridges that can grab the pipe. If seam is plastic and continues to pick pipe it may be required to grease the rod string in that section / or add GSX 20 NT. GSX 20 NT should be added at 3L/1000L of water or fluid built on surface

Abrasive volcanic formations will be present that may require the addition of a liquid lubricant or in extreme cases the rods may need to be greased to reduce the friction and wear on the rods and tooling. It is recommended that the mud be held at a viscosity that effectively cleans the hole of abrasive cuttings at all times. A funnel Visc of 38sec/L should be enough to ensure that the cuttings are removed at all times. Follow the general mix instructions for regular drilling and if friction or excessive tool wear is noted add 2L/1000L fluid build of GSX 20 NT.

Fluid Dynamics:	Interval #1	Depth: 95.00	ft	Interval #2	Depth:	660 ft	Interval #3	Depth:	0 ft
Fluid Dynamics.	Annular V	olume: 40.9	L	Annul	ar Volume: 306.9	L	Annula	r Volume: 0.0	L
Current Pump Output: 72 L/min	Max Annular \	/elocity 50.9	m/min	Max Annul	ar Velocity 46.6	m/min	Max Annula	ar Velocity 0.0	m/min
Max Pump Pressure: 400 psi	Internal Mud V	elocity: 19	ft/min	Internal m	ud Velocity 29	ft/min	Internal mud	d Velocity: 0	ft/min
Max Mixing System Volume: 1000 Liters	Empty Hole V	olume: 17.1	ft ³	Empty Ho	le Volume: 71.8	ft ³	Empty Hol	e Volume: 0.0	ft ³

Rod Specs

TYPE S

HOLE D 146.0

OD 139.7 mm

ID 127.0 mm

CAP 1266.8 L/100m

MPV 72.0

Rod Specs TYPE P

CORE OD 85.0

HOLE D 122.6 mm

OD 114.3

CAPACITY 810.7 L/100m

MPV 72.0

Rod Specs

TYPE 0

OD #N/A

ID 0.0

HOLE D 0.0

CORE OD 0.0

CAPACITY 0.0

MPV 72

ID 101.6 mm

CORE OD 102.0

mm

mm

L/100p

mm

mm

1/100n

mm

mm

mm

mm

1/1000

1/100m

B

