

YWNR: 101160007

**MONITORING WELL DEVELOPMENT,
 PURGING & SAMPLING RECORDS**

Well ID CAFN MW-01 Well Diameter 2"
 Project Name _____ Total Depth of Well 61 ft
 Project Number _____ Initial Depth to Water _____ Time _____
 Date March 30, 2017 1 Casing Volume 40L
 Prepared By: Midnight Sun Drilling Inc 3 Casing Volume 120L
 Sample ID _____ Duplicate ID _____ Depth to Water After Purging _____ Time _____
 Sample Depth 56 Method of Purging Grundfos Rediflow (2")
 Activity Performed at Well: Method of Sampling _____
 Development Purging Sampling Method of Development GRUNDFOS 2" REDIFLO

time	intake depth (feet) metres	pumping rate gpm (Lpm)	cumulative volume (litres) gallons	temp. F (C)	pH (units)	specific conductance (µmhos/cm)	comments odour, colour, sediment load, well condition, presence of product
12:22	56	2.22	20	4.4	8.39	404.5	grey in colour, turbid (choc. milk), no odour
12:42	56	1.82	60	3.9	7.6	347	grey, less turbid, can't see bottom of bucket
13:31	56	3.33	220	3.7	7.4	241	light grey, turbid
14:01	56	5.0	320	3.7	7.1	224	almost clear enough to see bottom of bucket
14:27	56	4.0	420	3.7	7.1	220	
14:40	56	3.33	460	3.6	7.0	210	
14:52	56	3.33	500	3.6	7.0	209	
15:03	56	4.0	540	3.6	7.0	209	
15:16	56	3.33	580	3.6	7.0	207	NTU ~ 19
15:35	56	2.90	640	3.5	7.0	204	NTU ~ 14

container size and composition	preservative	number of containers	analyses	time	laboratory

pH calibration		(choose two)			zero check setting
time	buffer solution	pH 4.0	pH 7.0	pH 10.0	
start of day:	temp. (C)				
	instrument reading				
	should read/calibrated to				
end of day:	temp. (C)				
	instrument reading				

specific conductance calibration				zero & redline check
time	KCl solution (µmhos/cm @ 25 C)	1413		
start of day:	temp. (C)			
	instrument reading			
	should read			
end of day:	temp. (C)			
	instrument reading			
	should read			

notes _____
 USED 85 GAL DURING DRILLING - PURGED THIS WATER (320L)

Well ID CAFN MW-01 Site Location Champagne
 Project Name Champagne Field Personnel John Miller, K. Pfeifer,
 Project Number _____ Recorded By Katie Hender

Permit Number _____
 Installation Date(s) March 28/29, 2017
 Drilling Method Hollow stem auger
 Drilling Contractor Midnight Sun Drilling Inc
 Driller Willy Palahicky
 Drilling Fluid water
 Fluid Loss During Drilling 85 Litres (Gallons)

Materials Used

Riser Pipe: Length _____ metres/feet
 Diameter _____ cm/inches
 Construction PVC schedule 40
 Stainless Steel
 Galvanized Steel

Slotted Area: Length 20 metres/feet
 Diameter 2 cm/inches
 Construction PVC schedule 40
 Stainless Steel } BOTTOM 10' PRE-SCREENED STAINLESS
 Galvanized Steel

Silt Trap Used YES NO
 Filter Sock Used YES NO

Bottom End Cap: Male Female
 PVC schedule _____
 Stainless Steel
 Galvanized Steel

Top Cap: Male Female Slip J Plug
 PVC schedule _____
 Stainless Steel
 Galvanized Steel

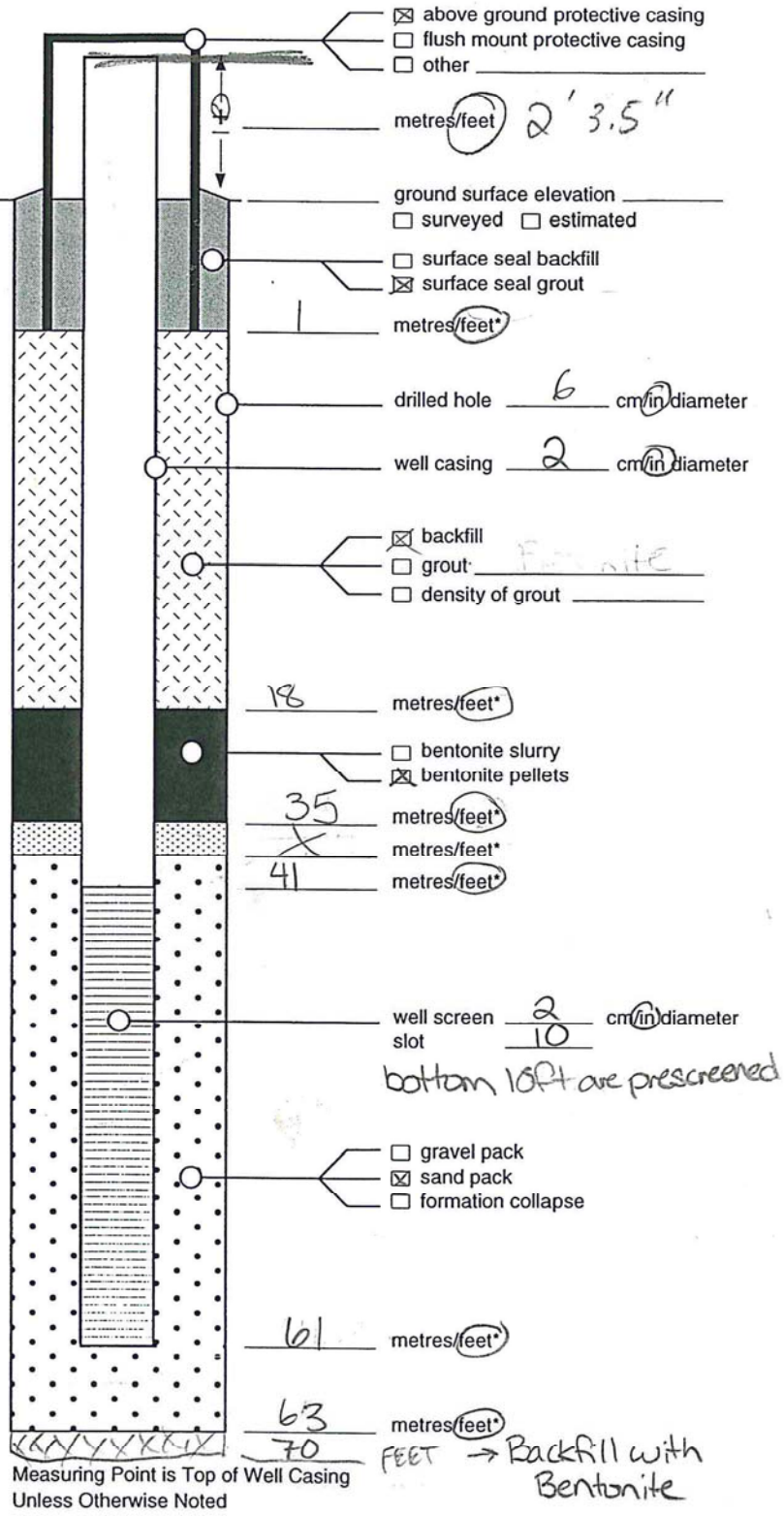
Protective Casing: Length _____ metres/feet
 Diameter _____ cm/inches
 Construction Cast Aluminum
 Cast Steel
 Steel

Casing Installation: YES (see page 2)
 NO

Sandpack:
 Coarse Sand: 111 bags of 50 kg/lb per bag Sand Gradation 10-20
 Fine Sand: _____ bags of _____ kg/lb per bag Sand Gradation _____

Seal:
 Bentonite Pellets: _____ bags of 50 kg/lb per bag Type Holeplug
 Bentonite Slurry: _____ bags of _____ kg/lb per bag Type _____

Grout:
 Cement: 1 bags of _____ kg/lb per bag Type _____
 Bentonite: _____ bags of _____ kg/lb per bag Type _____



*Depth Below Ground Surface

SAMPLE/CORE LOG OF BORING

Borehole ID CAFN MW01 Project Name _____ Page 1 of 2
 Date March 28, 2017 Project Number _____
 Recorded By Katie Heiler

Sample/Core Depth (m/ft. below ground surface)		Core Recovery (m/ft.)	Time/Hydraulic Pressure or Blows (24 cm/in.)	Sample/Core Description	Unified Soils Class.	Sample Number
From	To					
0	5			silty, clay clumps, grey-brown		1
5	7	1.5	56	grey, iron oxid. staining, silty, platy texture, fine sand		2
10	12	1.8	37	platy, more moisture, silty, very fine sand ↳ iron staining at 10 ft for 2 inches		3
14				moist silt, in cuttings		
15	17	15	38	↳ 16.5 - 15 very moist silt, iron staining at interface btwn moist & dry at 16.5. ↳ confining layer, more dense at 16.5 ↳ 17 - 16.5, fine sand, homogen., light grey, dry		4
	19			moist silt in cuttings		
20	22	13"	20	↳ 20 - wet silty sand, around 21 ft it is more silty 21 - 22 it is wetter and sandier		5
25	27	24"	20	moist sand, homogeneous, grey 25 - 26 ft is wetter (saturated)		6
30	32	17"	33	wet homog. sand, light grey, ^{med} coarse		7
35	37	10"	14	wet ^{coarse} sand, heterogen., sub rounded to rounded gravels (coarse & fine)		8
40	42	16"	35	coarse sand (40-41) & peagravel (41-42)		9
45	47	1.5 ft	29	homog. coarse sand, light grey, unoxidized		10
50	52	1 ft	28	at 51' an inch of silt/fine sand (lense) 51-52 is med sand, at 52' coarse sand (2") wet, light grey		11

