

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

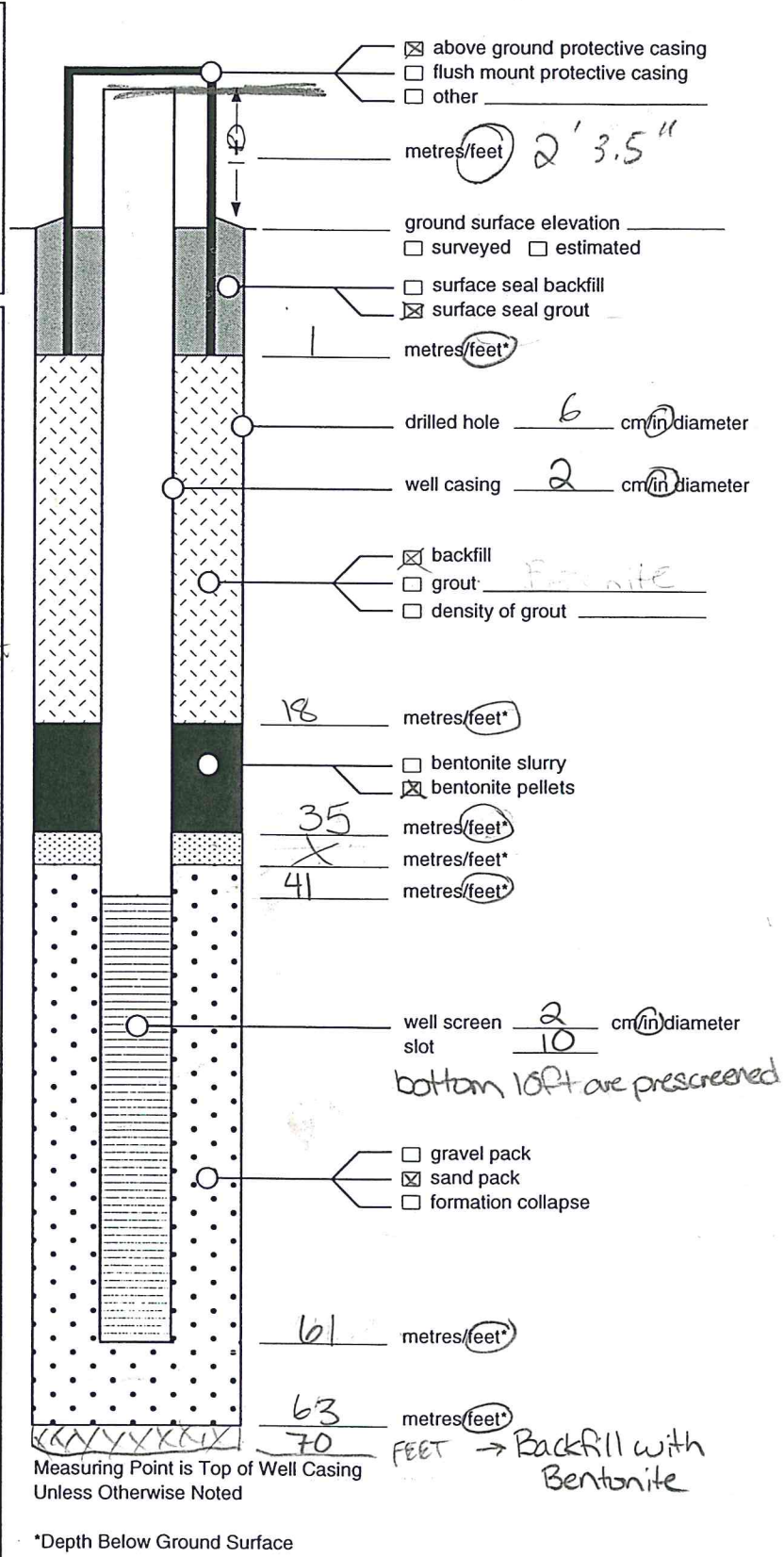
**Protective Casing:** Length \_\_\_\_\_ metres/feet  
 Diameter \_\_\_\_\_ cm/inches  
 Construction  Cast Aluminum  
 Cast Steel  
 Steel

**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

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 <u>24 cm/in</u>	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	→ <del>20</del> 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, <sup>med</sup> coarse		7
35	37	10"	14	wet <sup>coarse</sup> sand, heterogen., sub rounded to rounded gravels (coarse & fine)		8
40	42	16"	35	coarse sand (40-41) & pea gravel (41-42)		9
45	47	1.5#	29	homog. coarse sand, light grey, unoxidized		10
50	52	1#	28	at 51' an inch of silt/fine sand (lense) 51-52's med sand, at 52' coarse sand (2") wet, light grey		11

