



Water Well Drilling Report

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GIC Well ID 1106469
GoA Well Tag No.
Drilling Company Well ID
Date Report Received 2013/03/04

GOWN ID 990

The driller supplies the data contained in this report. The Province disclaims responsibility for its accuracy. The information on this report will be retained in a public database.

Well Identification and Location										Measurement in Imperial	
Owner Name		Address			Town		Province		Country	Postal Code	
ALBERTA ENVIRONMENT		111-4999 98 AVE			EDMONTON		ALBERTA		CANADA	T6B 2X3	
Location		1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description	
4		15	46	7	5					BUCK LAKE DEEP OBSERVATION WELL FRACKING WELL PROJECT 307076-044	
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)					Elevation	
ft from					Latitude 52.960579 Longitude -114.943325					2969.02 ft	
ft from					How Location Obtained					How Elevation Obtained	
					Surveyed GPS <1m					Surveyed GPS <1m	

Drilling Information	
Method of Drilling	Type of Work
Rotary - Air	New Well
Proposed Well Use	
Observation	

Formation Log			Measurement in Imperial	
Depth from ground level (ft)	Water Bearing	Lithology Description		
1.97		Black Loamy Topsoil		
2.95		Light Brown Silty Clay		
4.92		Brown Moist Till		
29.98		Brown Clay & Rocks		
35.00		Brown Clayey Till		
50.20		Brown Moist Clay & Rocks		
57.40		Brown Moist Sand & Gravel		
89.57		Brown Clayey Till		
119.75		Light Gray Fine Grained Sandstone		
122.05		Gray Dry Shale		
141.08	Yes	Light Gray Medium Grained Sandstone		
145.01		Gray Hard Shale		
160.10		Light Gray Fine Grained Sandstone		
168.31		Green Hard Shale		
187.34	Yes	Light Gray Fine Grained Sandstone		
197.51		Green Firm Shale		
261.48	Yes	Light Gray Coarse Grained Sandstone		
266.40		Gray Firm Shale		
294.29	Yes	Light Gray Fine Grained Sandstone		
295.93		Brownish Gray Firm Shale		
346.13	Yes	Light Gray Fine Grained Sandstone		
363.52		Gray Firm Shale		
368.11		Light Gray Hard Sandstone		
377.95		Gray Hard Shale		
380.58	Yes	Light Gray Fine Grained Sandstone		
390.42		Gray Firm Shale		
396.98	Yes	Light Gray Very Fine Grained Sandstone		
416.50		Gray Firm Shale		
418.00		Light Gray Fine Grained Sandstone		

Yield Test Summary			Measurement in Imperial	
Recommended Pump Rate			1.00 igpm	
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)		
2013/02/16	1.09	364.20		

Well Completion			Measurement in Imperial	
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
418.00 ft	408.79 ft	2013/02/06	2013/02/16	
Borehole				
Diameter (in)	From (ft)	To (ft)		
7.88	0.00	33.00		
6.25	33.00	353.00		
5.00	353.00	418.00		
Surface Casing (if applicable)		Well Casing/Liner		
Steel		Plastic		
Size OD : 5.56 in		Size OD : 4.50 in		
Wall Thickness : 0.258 in		Wall Thickness : 0.213 in		
Bottom at : 353.51 ft		Top at : 327.13 ft		
		Bottom at : 408.79 ft		
Perforations				
From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)
348.98	408.79	0.020	2.00	0.25
Perforated by Machine				
Annular Seal Cement/Grout				
Placed from 0.00 ft to 353.00 ft				
Amount 26.00 Sacks				
Other Seals				
Type		At (ft)		
Driven		353.51		
K-Packer		327.13		
Screen Type				
Size OD : in				
From (ft)	To (ft)	Slot Size (in)		
Attachment				
Top Fittings		Bottom Fittings		
Pack				
Type		Grain Size		
Amount				

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well	Certification No
DOUG SMITH	VB3650
Company Name	Copy of Well report provided to owner
ASHBURN DRILLING LTD.	Date approval holder signed
	2013/03/03

