



# Water Well Drilling Report

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GIC Well ID 196129  
GoA Well Tag No.  
Drilling Company Well ID  
Date Report Received 1987/11/18

GOWN ID 211

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	
<b>Owner Name</b> ALTA AG		<b>Address</b>			<b>Town</b> SMITH COULEE		<b>Province</b> ALBERTA		<b>Country</b> CA	<b>Postal Code</b>	
<b>Location</b>	1/4 or LSD	SEC	TWP	RGE	W of MER	Lot	Block	Plan	Additional Description		
	8	25	3	11	4				2469E GOWN WELL 211 / SMITH COULEE		
<b>Measured from Boundary of</b>					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>						
_____ ft from _____					Latitude <u>49.236975</u> Longitude <u>-111.353840</u>					Elevation <u>3072.08</u> ft	
_____ ft from _____					How Location Obtained					How Elevation Obtained	
					Not Verified					Surveyed GPS <1m	

Drilling Information	
<b>Method of Drilling</b> Rotary	<b>Type of Work</b> Test Hole
<b>Proposed Well Use</b> Observation	

Formation Log			Measurement in Imperial
Depth from ground level (ft)	Water Bearing	Lithology Description	
4.00		Sand	
19.00		Sandy Clay & Gravel	
29.00		Brown Sandy Shale	
120.00		Gray Sandy Clay	
170.00		Sandy Clay	
174.00		Coal	
183.00		Silty Sandstone	
194.00		Silty Sandstone	
240.00		Sandy Shale & Siltstone	
314.00		Shale	
317.00		Hard Shale	
400.00		Shale	
427.00		Shale & Sandstone Ledges	
431.00		Hard Shale	
439.00		Bentonitic Sandstone	
459.00		Sandstone & Shale Strg's	
489.00		Shale	
515.00		Carbonaceous Shale Stringers	
519.00		Sandstone	
542.00		Sandstone	

Yield Test Summary			Measurement in Imperial
Recommended Pump Rate _____ igpm			
Test Date	Water Removal Rate (igpm)	Static Water Level (ft)	
1987/11/12	6.00	144.00	
1990/01/31	1.00	45.00	

Well Completion				Measurement in Imperial
Total Depth Drilled	Finished Well Depth	Start Date	End Date	
542.00 ft	542.00 ft	1987/10/31	1987/11/12	
<b>Borehole</b>				
Diameter (in)	From (ft)	To (ft)		
0.00	0.00	542.00		
<b>Surface Casing (if applicable)</b>		<b>Well Casing/Liner</b>		
		Steel		
Size OD : _____ in	Size OD : _____ 7.00 in			
Wall Thickness : _____ in	Wall Thickness : _____ 0.188 in			
Bottom at : _____ ft	Top at : _____ ft			
		Bottom at : _____ 503.00 ft		
<b>Perforations</b>				
From (ft)	To (ft)	Diameter or Slot Width (in)	Slot Length (in)	Hole or Slot Interval (in)
Perforated by				
<b>Annular Seal</b> Cement/Grout				
Placed from _____ 0.00 ft to _____ 503.00 ft				
Amount _____				
Other Seals				
Type		At (ft)		
<b>Screen Type</b> Stainless Steel				
Size OD : _____ 4.00 in				
From (ft)	To (ft)	Slot Size (in)		
520.00	542.00	0.010		
Attachment <u>Telescoped</u>				
Top Fittings <u>Neoprene (Figure K)</u>		Bottom Fittings <u>Washdown</u>		
<b>Pack</b>				
Type <u>Natural</u>		Grain Size _____		
Amount _____		Unknown		

Contractor Certification	
Name of Journeyman responsible for drilling/construction of well UNKNOWN NA DRILLER	Certification No 1
Company Name ALBERTA ENVIRONMENT/EARTH SCIENCES DIVISION	Copy of Well report provided to owner Date approval holder signed



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<b>Owner Name</b> ALTA AG		Address			Town SMITH COULEE		Province ALBERTA		Country CA		Postal Code	
<b>Location</b>		1/4 or LSD 8	SEC 25	TWP 3	RGE 11	W of MER 4	Lot	Block	Plan	Additional Description 2469E GOWN WELL 211 / SMITH COULEE		
<b>Measured from Boundary of</b>					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>							
_____ ft from _____					Latitude <u>49.236975</u> Longitude <u>-111.353840</u>					Elevation <u>3072.08</u> ft		
_____ ft from _____					How Location Obtained Not Verified					How Elevation Obtained Surveyed GPS <1m		

Additional Information										Measurement in Imperial	
Distance From Top of Casing to Ground Level _____ in											
Is Artesian Flow _____					Is Flow Control Installed _____						
Rate _____ igpm					Describe _____						
Recommended Pump Rate _____ igpm					Pump Installed _____					Depth _____ ft	
Recommended Pump Intake Depth (From TOC) _____ ft					Type _____ Make _____					H.P. _____	
										Model (Output Rating) _____	
Did you Encounter Saline Water (>4000 ppm TDS) _____					Depth _____ ft					Well Disinfected Upon Completion _____	
Gas _____					Depth _____ ft					Geophysical Log Taken _____	
										Submitted to ESRD _____	
Additional Comments on Well										Sample Collected for Potability _____	
SEE FILE FOR 1987/11/25 DRAWDOWN CURVES,										Submitted to ESRD <u>Yes</u>	

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<b>Location</b>	<i>1/4 or LSD</i> 8	<i>SEC</i> 25	<i>TWP</i> 3	<i>RGE</i> 11	<i>W of MER</i> 4	<i>Lot</i>	<i>Block</i>	<i>Plan</i>	<i>Additional Description</i> 2469E GOWN WELL 211 / SMITH COULEE	
<b>Measured from Boundary of</b>					<b>GPS Coordinates in Decimal Degrees (NAD 83)</b>					
_____ ft from _____					Latitude <u>49.236975</u> Longitude <u>-111.353840</u>			Elevation <u>3072.08</u> ft		
_____ ft from _____					How Location Obtained Not Verified			How Elevation Obtained Surveyed GPS <1m		

Yield Test			Taken From Ground Level	Measurement in Imperial
			<i>Depth to water level</i>	
<i>Test Date</i> 1987/11/12	<i>Start Time</i> 12:00 AM	<i>Static Water Level</i> 144.00 ft		
			Pumping (ft)	Recovery (ft)
			Elapsed Time Minutes:Sec	
<b>Method of Water Removal</b>				
Type <u>Air</u>				
Removal Rate <u>6.00 igpm</u>				
Depth Withdrawn From <u>440.00 ft</u>				
If water removal period was < 2 hours, explain why				

Yield Test			Taken From Ground Level	Measurement in Imperial
			<i>Depth to water level</i>	
<i>Test Date</i> 1990/01/31	<i>Start Time</i> 12:00 AM	<i>Static Water Level</i> 45.00 ft		
			Pumping (ft)	Recovery (ft)
			Elapsed Time Minutes:Sec	
<b>Method of Water Removal</b>				
Type <u>Pump</u>				
Removal Rate <u>1.00 igpm</u>				
Depth Withdrawn From <u>0.00 ft</u>				
If water removal period was < 2 hours, explain why				
			13.62	0:00
			14.05	0:50
			14.13	1:00
			14.29	2:00
			14.44	3:00
			14.58	4:00
			14.72	5:00
			14.86	6:00
			14.99	7:00
			15.12	8:00
			15.24	9:00
			15.36	10:00
			15.59	12:00
			15.92	15:00
			15.89	20:00
			15.86	25:00
			15.83	35:00
			15.82	41:00
			15.82	45:00
				60:00
			15.81	65:00
			15.81	80:00
			15.81	100:00
				14.34

Water Diverted for Drilling		
<i>Water Source</i>	<i>Amount Taken</i>	<i>Diversion Date &amp; Time</i>
	ig	

Contractor Certification	
<i>Name of Journeyman responsible for drilling/construction of well</i> UNKNOWN NA DRILLER	<i>Certification No</i> 1
<i>Company Name</i> ALBERTA ENVIRONMENT/EARTH SCIENCES DIVISION	<i>Copy of Well report provided to owner</i> <i>Date approval holder signed</i>