



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		
Owner Name ALTA AG		Address			Town SMITH COULEE		Province ALBERTA		Country CA		Postal Code	
Location		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		
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)							
_____ 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		

Drilling Information	
Method of Drilling Rotary	Type of Work Test Hole
Proposed Well Use 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	
Borehole				
Diameter (in)	From (ft)	To (ft)		
0.00	0.00	542.00		
Surface Casing (if applicable)		Well Casing/Liner		
		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		
Perforations				
From (ft)	To (ft)	Diameter or Slot Width(in)	Slot Length (in)	Hole or Slot Interval(in)
Perforated by				
Annular Seal Cement/Grout				
Placed from _____ 0.00 ft to _____ 503.00 ft				
Amount _____				
Other Seals				
Type		At (ft)		
Screen Type 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 Neoprene (Figure K)		Bottom Fittings Washdown		
Pack				
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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Owner Name ALTA AG		Address			Town SMITH COULEE		Province ALBERTA		Country CA		Postal Code
Location	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		
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)						
_____ 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 _____				
Remedial Action Taker _____					Gas _____		Depth _____ ft		Geophysical Log Taken _____		
										Submitted to ESRD _____	
Additional Comments on Well SEE FILE FOR 1987/11/25 DRAWDOWN CURVES,										Sample Collected for Potability _____	Submitted to ESRD <u>Yes</u>

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Well Identification and Location										Measurement in Imperial		
Owner Name		Address			Town		Province		Country		Postal Code	
ALTA AG					SMITH COULEE		ALBERTA		CA			
Location		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		
Measured from Boundary of					GPS Coordinates in Decimal Degrees (NAD 83)							
_____ 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		

Yield Test			Taken From Ground Level		Measurement in Imperial	
			<i>Depth to water level</i>			
Test Date	Start Time	Static Water Level				
1987/11/12	12:00 AM	144.00 ft				
Method of Water Removal						
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>			
Test Date	Start Time	Static Water Level				
1990/01/31	12:00 AM	45.00 ft				
Method of Water Removal						
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						
			Pumping (ft)	Elapsed Time	Recovery (ft)	
				Minutes:Sec		
			13.62	0:00		
			14.05	0:50	15.41	
			14.13	1:00	15.37	
			14.29	2:00	15.33	
			14.44	3:00	15.31	
			14.58	4:00	15.28	
			14.72	5:00	15.25	
			14.86	6:00	15.22	
			14.99	7:00	15.19	
			15.12	8:00	15.17	
			15.24	9:00	15.14	
			15.36	10:00	15.12	
			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	14.34	
			15.81	65:00		
			15.81	80:00		
			15.81	100:00		

Water Diverted for Drilling		
Water Source	Amount Taken	Diversion Date & Time
	ig	

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UNKNOWN NA DRILLER	1
Company Name	Copy of Well report provided to owner Date approval holder signed
ALBERTA ENVIRONMENT/EARTH SCIENCES DIVISION	