McINTOSH•LALANI ENGINEERING LTD.

March 14, 2008

AC Ltd. M•L 3861

Box 607 Okotoks, Alberta T1F 1A7

Attention: Mr. Brian McCaughan

Subject: Groundwater Well Data

55 Acre Residential Development Lac St. Anne County, Alberta

Pursuant to the request of Mr. Kim Catalano of the Catalano Development Group, McIntosh•Lalani Engineering Ltd. (M•L) has complied groundwater well data for the area surrounding the above noted site. The site is located on Lot B, Plan 4722TR within the N.E. ¼ of Section 30-54-15W5M.

Six (6) water well drilling reports were found for water wells located on the surrounding quarter sections adjacent to the site. These reports were fond on the Alberta Environment's Groundwater Information Systems website, www.telusgeomatics.com/tgpub/ag_water/. The water well drilling reports were found for the water wells with the following six Well ID's, 0445402, 0445424, 0340859, 0416261, 1300045 and 0445434. These water wells were extended to depths ranging from 87 to 304 feet below existing ground surface and encountered groundwater at depths ranging from 18.2 to 100 feet below existing ground surface. Groundwater was removed from these water wells at rates varying 3.5 to 10 gallons per minutes. The locations of these water wells can be found on the attached Figure No. 1 and a more detailed account of the ground water information within these wells can be found on the attached water well drilling reports.

We trust the enclosed meets with your present requirements. Should you have questions please contact our office.

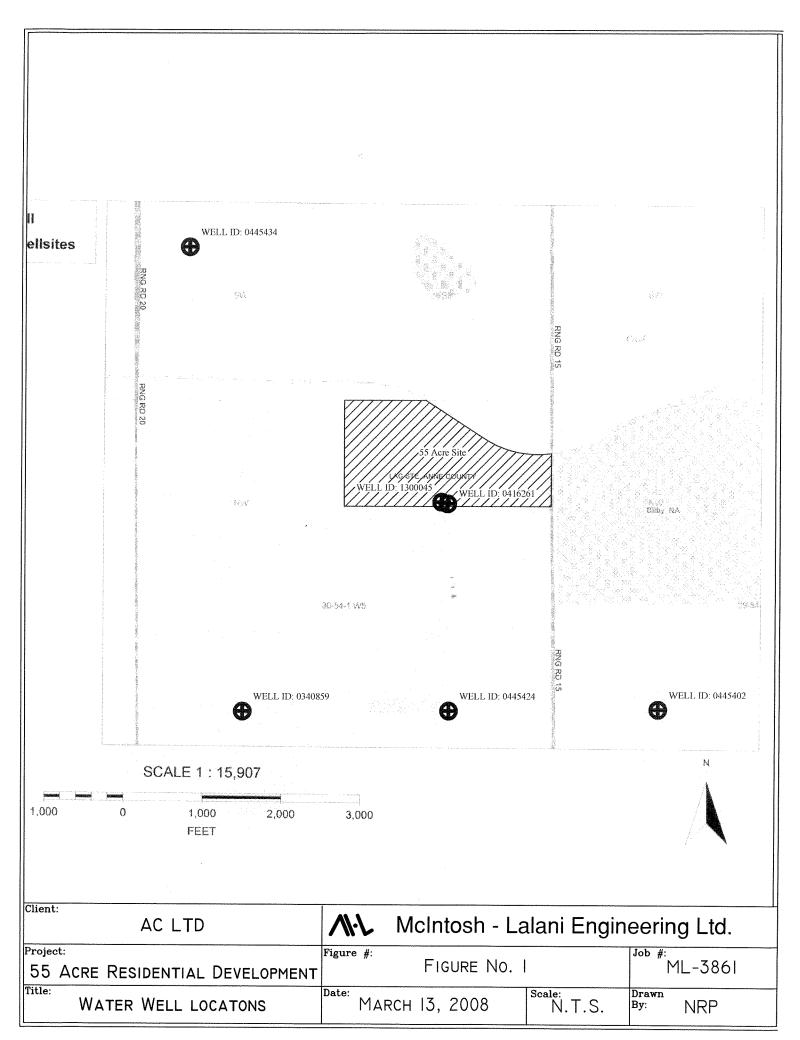
Respectfully submitted,

McIntosh•Lalani Engineering Ltd.

Nicholas R. Payne, E.I.T

Marty D. Ward, P.Eng. Senior Project Engineer

/clc





Water Well Drilling Report

The data contained in this report is supplied by the Driller. The province disclaims responsibility for its accuracy.

Well I.D.: Map Verified: Date Report Received:

0445424 Not Verified 1989/09/12

Measurements: Imperial 2. Well Location 1. Contractor & Well Owner Information Drilling Company Approval No. 1/4 or Sec qwT Rge Westof Company Name: UNKNOWN DRILLER 99999 LSD M SE 30 054 01 5 Mailing Address: City or Town: Postal Code: UNKNOWN AB CA ocation in Quarter UNKNOWN 0 FT from Boundary WellOwner's Name: Well Location Identifier: 0 FT from Boundary WILDING, NANCY Mailing Address: Block Plan Postal Code: _ot P.O. Box Number: 59 ONOWAY T0E 1V0 Well Elev: How Obtain: City: Province: Country: FT Not Obtain 6. Well Yield 3. Drilling Information Proposed well use: Test Date Start Time: Type of Work: Chemistry (yyyy/mm/dd): Reclaimed Well Domestic Anticipated Water Date Reclaimed: Materials Used: Test Method: Method of Drilling: Unknown Requirements/day Non pumping FT 0 Gallons Flowing Well: No Rate: Gallons static level: Gas Present: No Oil Present: No Gallons/Min Rate of water 4. Formation Log 5. Well Completion removal: Date Completed Depth Depth of FT Date Started(yyyy/mm/dd): (yyyy/mm/dd): from pump intake: ground **Lithology Description** Water level at FT Borehole Diameter: 0 level Well Depth: 155 FT end of Inches (feet) pumping: Liner Type: Casing Type: Distance from Inches Size OD: 0 Inches Size OD: 0 Inches top of casing Wall Thickness: 0 Inches Wall Thickness: 0 Inches to ground Top: 0 FT Bottom: 0 level: Bottom at: 0 FT Depth To water level (feet) Elapsed Time Perforations Size: Perforations Drawdown Minutes: Sec Recovery from: 0 FT to: 0 FT 0 Inches x 0 Inches from: 0 FT to: 0 FT 0 Inches x 0 Inches from: 0 FT to: 0 FT 0 Inches x 0 Inches Perforated by: Fotal Drawdown: FT Seal: If water removal was less than 2 hr from: 0 FT to: 0 FT duration, reason why: Seal: from: 0 FT to: 0 FT Seal: to: 0 FT from: 0 FT Recommended pumping rate: Screen ID: 0 Inches Screen Type: Gallons/Min to: 0 FT Slot Size: 0 Inches from: 0 FT Recommended pump intake: FT Screen ID: 0 Inches Screen Type: Type pump installed from: 0 FT to: 0 FT Slot Size: 0 Inches Pump type: Screen Installation Method: Pump model: Fittings Top: Bottom: Any further pumptest information? Pack: Grain Size: Amount: Geophysical Log Taken: Retained on Files: Additional Test and/or Pump Data Chemistries taken By Driller: No Held: 1 Documents Held: 1 Pitless Adapter Type: Drop Pipe Type: ength: Diameter: Comments: 7. Contractor Certification UNKNOWN DRILLER Driller's Name: Certification No.: This well was constructed in accordance with the Water Well regulation of the Alberta Environmental Protection & Enhancement Act. All information in this report is true. Signature Yr Mo Day



Water Well Drilling Report

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Well I.D.: 0445402
Map Verified: Not Verified
Date Report 1968/09/08
Received: Imperial

2. Well Location 1. Contractor & Well Owner Information Rge Westor Drilling Company Approval No. 1/4 or Sec Twp Company Name: 120047 LSD GERALD MCGINN DRILLING LTD SW 29 054 5 Mailing Address: City or Town: Postal Code: STONY PLAIN ALBERTA CANADA T7Z 1S9 ocation in Quarter 4910 50 AVENUE 0 FT from Boundary Well Location Identifier: WellOwner's Name: 0 FT from Boundary COATES, CEDRIC Plan Mailing Address: Postal Code: .ot Block O. Box Number: 160 ONOWAY Well Elev: How Obtain: City: Province: Country: Estimated 2330 FT 6. Well Yield 3. Drilling Information Test Date Start Time: Proposed well use: Type of Work: New Well (yyyy/mm/dd): Domestic & Stock Reclaimed Well 1968/07/15 11:00 AM Materials Used: Anticipated Water Date Reclaimed: Test Method: Unknown Method of Drilling: Rotary Requirements/day Non pumping 60 FT 0 Gallons lowing Well: No Rate: Gallons static level: Oil Present: No Gas Present: No Rate of water 5 5. Well Completion 4. Formation Log Gallons/Min removal: Date Completed Depth 0 FT Depth of Date Started(yyyy/mm/dd): (yyyy/mm/dd): from pump intake: 1968/07/15 **Lithology Description** ground FT Water level at Borehole Diameter: 0 level Well Depth: 87 FT end of (feet) Inches pumping: Sand Casing Type: Galvanized Distance from top of Inches Liner Type: 24 Yellow Clay Steel casing to ground Blue Clay 60 Size OD: 4 Inches Size OD: 0 Inches level: 87 Water Bearing Gravel Wall Thickness: 0.151 Depth To water level (feet) Wall Thickness: 0 Inches Inches Elapsed Time Top: 0 FT Bottom: 0 Drawdown Minutes: Sec Recovery Bottom at: 80 FT FT Total Drawdown: 0 FT Perforations Size: Perforations If water removal was less than 2 hr from: 0 FT to: 0 FT 0 Inches x 0 Inches duration, reason why: 0 Inches x 0 Inches from: 0 FT to: 0 FT 0 Inches x 0 Inches from: 0 FT to: 0 FT Perforated by: Seal: Recommended pumping rate: 0 from: 0 FT to: 0 FT Gallons/Min Seal: Recommended pump intake: 67 rom: 0 FT to: 0 FT Seal: Type Pump Installed from: 0 FT to: 0 FT Pump Type: SUB Screen ID: 0 Inches Screen Type: Pump Model: MCDOUGALL from: 0 FT to: 0 FT Slot Size: 0 Inches H.P.: 1/3 Screen Type: Screen ID: 0 Inches Any further pumptest information? rom: 0 FT to: 0 FT Slot Size: 0 Inches Screen Installation Method: ittings Гор: Bottom ack: Grain Size: Amount: Geophysical Log Taken: Retained on Files: Additional Test and/or Pump Data Chemistries taken By Driller: Yes Held: 0 Documents Held: 1 Pitless Adapter Type: Drop Pipe Type: ength: 66 FT Diameter: 1 Inches Comments: DRILLER REPORTS WATER IS CLEAR AND HARD 7. Contractor Certification UNKNOWN DRILLER Driller's Name: Certification No.: This well was constructed in accordance with the Water Well regulation of the Alberta Environmental Protection & Enhancement Act. All information in this report is true Yr Mo Day Signature



Water Well Drilling Report
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Well I.D.: Map Verified: Date Report 0416261 Not Verified 1995/10/16 Received: Measurements: Imperial

Environment	,		Measurements:	Imperial
1. Contractor & Well Owner Informat			2. Well Location	
Company Name:		lling Company Approval No.:	1/4 or Sec Twp	
MAR-WAYNE WATER WELL DRILLING SERVION Mailing Address: City or Town		8900 stal Code:	LSD NE 30 054	M 01 5
BOX 4, SITE 5, RR 1 CALAHOO		G 0J0	Location in Quarter	•
WellOwner's Name: Well Location	on Identifier:		0 FT from	Boundary
SORGEN, ORVIS		atal Cada	0 FT from	Boundary Plan
P.O. Box Number: Mailing Add ONOWAY		stal Code: E 1V0	Lot Block	rian
City: Province:		untry:	Well Elev: H	ow Obtain:
			FT N	ot Obtain
3. Drilling Information			6. Well Yield	
Type of Work: New Well		Proposed well use:	Test Date	Start Time:
Reclaimed Well Date Reclaimed: Materi	als Used:	Stock Anticipated Water	(yyyy/mm/dd): 1995/08/12	11:00 AM
Method of Drilling: Rotary		Requirements/day	Test Method: Air	
Flowing Well: No Rate: 0	Gallons	300 Gallons	Non pumping	18.2 FT
	esent: No		static level: Rate of water	10
	5. Well Completion	Data Canadati d	removal:	Gallons/Min
Depth from	Date Started(yyyy/mm/dd):	Date Completed (yyyy/mm/dd):	Depth of	0 FT
ground Lithology Description	1995/08/12	1995/08/12	pump intake: Water level at	27.6.5.7
level	Well Depth: 120 FT	Borehole Diameter: 0	Water level at end of	27.6 FT
(feet) 12 Brown Sand		Inches	pumping:	
21 Brown Clay	Casing Type: Plastic Size OD: 6 Inches	Liner Type: Size OD: 0 Inches	Distance from top of	of Inches
30 Sand	Wall Thickness: 0.5 Inches		casing to ground level:	
34 Coarse Grained Sand		Top: 0 FT Bottom: 0	Depth To water	r level (feet)
39 Gray Clay	Bottom at: 111 FT	FT	Elapsed	Time
40 Sand 50 Gray Clay	Perforations	Perforations Size:	Drawdown Minutes	
79 Sand	from: 0 FT to: 0 FT	0 Inches x 0 Inches	0:00	
109 Gray Clay	from: 0 FT to: 0 FT from: 0 FT to: 0 FT	0 Inches x 0 Inches 0 Inches x 0 Inches	2:00	
116 Coarse Grained Sand	Perforated by:		3:0	0 20.505
120 Clay	Seal: Bentonite Chips/Table		4:00	
	from: 0 FT	to: 111 FT	5:00 6:00	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	Seal: from: 0 FT	to: 0 FT	7:00	
	Seal:		8:00	
	from: 0 FT	to: 0 FT	9:00	
	Screen Type: Stainless Steel	Screen ID: 4 Inches	10:0	
		Slot Size: 0.01 Inches	12:0 14:0	
	Screen Type:	Screen ID: 0 Inches	16:0	
	from: 0 FT to: 0 FT	Slot Size: 0 Inches	20:0	
	Screen Installation Method: Fittings	Autached to Casing	25:0	
	Top: Coupler	Bottom: Plug	30:0 120:0	
	Pack: Washed Sand		Total Drawdown: 9	
	Grain Size: Geophysical Log Taken:	Amount: 1750 Pounds	If water removal wa	
	Retained on Files:		duration, reason wh	ıy:
	Additional Test and/or Pump Data			
	Chemistries taken By Drille			
	Held: 0 Pitless Adapter Type:	Documents Held: 1	Recommended pur	nping rate: 10
	Drop Pipe Type:		Gallons/Min	1-1-1 70
	Length: FT	Diameter: Inches	Recommended pur FT	np intake: 78
	Comments:	NICE EDOM TOP OF	Type Pump Installe	d
	DRILLER REPORTS DISTA CASING TO GROUND LEV	/EL:30 CM	Pump Type: SUB	
	S. IOITO TO GITOGIND ELL		Pump Model:	
			H.P.: .5 Any further pumpte	st information?
			, rantitor pumpte	
	7. Contractor Certification			
	Driller's Name: UNKNOWN DRILLER			
	Certification No.: VA3472			
This well was constructed in accordance with the Water Well regulation of the Alberta Environmental Protection				
Well regulation of the Alberta Environmental Protection & Enhancement Act. All information in this report is true.				
	Signature	Yr Mo Day		
			ost 1 Dump To	



Water Well Drilling Report
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Well I.D.: 1300045 Map Verified: Not Verified Date Report 2004/07/28 Received: Imporial

Environment	responsibility for its accur	racy.		Measureme	nts: I	mperial
1. Contractor & Well Owner Infor	mation			2. Well Lo	cation	
Company Name: GERALD MCGINN DRILLING LTD.	Company Name:		Drilling Company Approval No.: 120047		Twp	Rge Westof M
Mailing Address: City or 4910 50 AVENUE STONY	Town: ′ PLAIN ALBERTA CANADA	Postal Code:		NE 30 Location in 0	054 Quarter	01 5
WellOwner's Name: Well Lo	cation Identifier:	172 100		FT from	n N	Boundary Boundary
	Address:	Postal Code: T7Z 1Y3			Block	Plan 4722TR
2825 City: Province	e:	Country:		Well Elev: FT		Obtain:
STONY PLAIN AB 3. Drilling Information		CA		6. Well Yi		Obtain
Type of Work: New Well		Pro	posed well use:	Test Date		Start Time:
Reclaimed Well		Dor	nestic	(yyyy/mm/dd		00 D14
	aterials Used: Unknown		icipated Water juirements/day	2004/07/16 Test Method		:20 PM
Method of Drilling: Rotary Flowing Well: No Ro	ate: Gallons		lons	Non pumpin		34.974 FT
	Present: No			static level:		
4. Formation Log	5. Well Completio	n		Rate of wate removal:		B Ballons/Min
Depth	Date Started(yyyy/mm/d	dd). Date Comp	oleted	Depth of		30 FT
from ground Lithology Description	2004/07/15	(yyyy/mm/c 2004/07/15		pump intake	:	
level Lithology Description	***************************************		liamator: 9 5	Water level a	at 1	06.7 FT
(feet)	Well Depth: 304 FT	Inches		end of pumping:		
11 Yellow Clay	Casing Type: Plastic	Liner Type		Distance from	n top of 2	24 Inches
19 Sand	Size OD: 6 Inches	Size OD: 4		casing to gro		
25 Yellow Clay 47 Blue Clay	Wall Thickness: 0.39 Inches	Inches	ness: 0.228	level:		
52 Sand	***************************************	Top: 124 F	T Bottom:		o water le apsed Tir	vel (feet)
88 Blue Clay	Bottom at: 130 FT	304 FT				ec Recovery
91 Gravel	Perforations	Perforation		90.223	1:00	102.231
98 Blue Clay 135 Gray Shale	from: 131 FT to: 304 FT from: FT to: FT	Inches x In	es x 12 Inches ches	93.504	2:00	99.245
136 Coal	from: FT to: FT	Inches x in		97.539 96.161	3:00 4:00	96.785 95.308
138 Gray Shale	Perforated by: Saw			97.113	5:00	94.259
149 Gray Sandy Shale	Seal: Formation Seal from: 130 FT	to: 131 FT		97.835	6:00	93.438
160 Gray Shale	Seal: Bentonite Chips/T			98.458	7:00	92.848
171 Gray Sandy Shale 187 Gray Shale	from: 0 FT	to: 130 FT		98.983	8:00	92.356
195 Gray Sandy Shale	Seal: Unknown	to: ET		99.409 99.836	9:00 10:00	91.995 91.699
217 Gray Shale	from: FT Screen Type: Unknown	to: FT Screen ID:	Inches	101.312	15:00	91.033
229 Gray Sandy Shale	from: FT to: FT	Slot Size: I	nches	102.461	20:00	90.617
237 Brown Shale & Coal	Screen Type: Unknown	Screen ID:	Inches	103.346	25:00	90.256
264 Gray Shale 304 Gray Sandy Shale	from: FT to: FT Screen Installation Meth	Slot Size: I	nches	103.937 104.987	30:00	89.993 89.6
oray danay onais	Fittings	nou. Unknown		104.987	40:00 50:00	89.6 89.337
	Top: Unknown	Bottom: Ur	ıknown	106.168	60:00	88.911
	Pack: Unknown			Total Drawd	own: 21.1	94 FT
	Grain Size: Geophysical Log Taken	Amount: L				ess than 2 hr
	Retained on Files:	1.		duration, rea	SOII WITY:	
	Additional Test and/or F					
	Chemistries taken By D		. Liolai			
	Held: Pitless Adapter Type: S	Documents	s rieia:	Recommend Gallons/Min	ea pumpi	ng rate: 8
	Drop Pipe Type: POLY	/1 ¥/ \l		Recommend	ed pump	intake: 130
	Length: 130 FT	Diameter:		FT		
	Comments:			Type Pump I		EV 6115
				Pump Type: Pump Model		
				H.P.: 0.5	. , 00002	V 1
				Any further p No	umptest i	nformation?
	7. Contractor Cer	7. Contractor Certification				
	Driller's Name:					
	Certification No.:	Certification No.: AD3482				
	This well was constructed in accordance with the Water Well regulation of the Alberta Environmental Protection					
	& Enhancement Act. Al					
	Signature		Yr Mo Day			
			77	ort 1 Pum		



Water Well Drilling Report
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Well I.D.: Map Verified: Date Report 0445434 Not Verified

Received:

Company Name: CORALTA DRLG Mailing Address: City or Town: Postal Code: DSDX 4104 EDMONTON AB CA EDMONTON AB EDMONTON AB CA EDMONTON AB CA EDMONTON AB CA EDMONTON AB CA EDMONTON AB EDMON	Environment responsibility for its accuracy.				Measurements:	Imperial
CORALTA DRIC CORNING Malling Address: C. By At 104 Cac EDMONTON AB CA Postal Code: OB 31 054 01 5 Location in Quarier OPT from Boundary Boundary Code: OR Number:					<u> </u>	
PC BEX 4104 EDMONTON AB CA WellCowner's Name Well Location Identifier: ARORID OF CAN LTD PC Gov Number: Mailing Address: PO Box Number: ON/OW/AY Throwince: Country: Mailing Address: Postal Code: Lot Block Plan NonCovince: Country: Well Elev How Obtain: Scalar State Standard Of Market Plan NonCovince: Country: Well Elev How Obtain: Scalar State Standard Of Market Plan NonCovince: Country: Well Elev How Obtain: Scalar State Standard Of Market Plan NonCovince: Country: Well Elev How Obtain: Scalar State Standard Of Market Plan NonCovince: Country: Well Completion Lithology Description Version	CORALTA DRLG	Name: Drilling Company Approval N			LSD	M
Well Cover is Name: Well Location Identifier: Mailing Address: Postal Code: ON Number: Mailing Address: Province: Country Province: Country Well Elev: Stant Time: Disposed Work: New Well Disposed Work: Date Rectalment: Materials Used: Materials Used			Postal Coo	le:		
P.O. Box Number: ONOWAY City: Province: Country:					0 FT from	Boundary
ONOWAY ONOWAY Province: Country: Well Elev: Estimated 3. Drilling Information Type of Work. New Well Proposed well use Domestic Anticipated Vater Requirements/day Post Mon pumping So FT Static Revet Static Evet No Different No Of Present No Delph Proposed well use Domestic Anticipated Vater Requirements/day Non pumping So FT Static Revet Non pumping So FT Static Revet Non pumping So FT Static Revet Static Revet Static Revet Static Revet Non pumping So FT Static Revet Static Revet Static Revet Static Revet Non pumping So FT Static Revet Non pumping So FT Static Revet Static Revet Static Revet Static Revet Static Revet Static Revet Non pumping So FT Static Revet Sta	BAROID OF CAN LTD	r	24-1 0	1		
Display Capta Ca		ress: F	ostal Coc	ie:	LOI BIOCK	Pidii
Type of Work: New Well Type of Work: New Well Type of Work: New Well Depth of Work: New New Yell Depth of Work: New Yell Depth	City: Province:	C	Country:			
Type of Work: New Well Reclaimed Well Date Reclaimed: Materials Used: Date Reclaimed: Method of Drilling: Rotary Flowing Well: No Rate: Gallons Oil Present: No Oil Present: No Oil Present: No Oil Present: No Detph from ground level (beet) Date Started(yyyymm/dd): Detph from ground level (beet) Date Started(yyyymm/dd): Detph from ground level (beet) Date Started(yyyymm/dd): Date Completed (yyyymm/dd): Date Completed (yyymm/dd): Date Completed (yyyymm/dd): Date Completed (yyymm/dd): Date Completed (yymm/dd): Date Completed (y	3. Drilling Information					
Date Reclaimed: Method of Drilling. Rotary Flowing Well: No Rate: Gallons Gas Present: No Oil Present: No Oil Present: No Oil Present: No Detph from ground level (feet) Ethology Description level (feet) Estand: Size OD: 6.50 inches Size O	Type of Work: New Well					Start Time:
Requirements/day Callons Collons Collo		als Used:				11:00 AM
Same Case Present: No	Method of Drilling: Rotary			Requirements/day		
Second Color Seco				0 Gallons		60 F I
Depth form ground week (feet) See Stand (yyyymmidd): 1559/07/17 Well Depth: 289 FT			<u></u>		Rate of water	-
Lithology Description Lithology Description Size Option Size Opt	Depth		、 Date C	ompleted		
level (feet) Well Depth: 289 FT Borehole Diameter: 0 Inches Inches Inches Sand Size OD: 65 Gi Inches Size OD: 65 Gi Inches Sand Size OD: 65 Gi Inches Size OD: 65 Inches Size OD: 65 Gi Inches Size OD: 65 Inches Size	from	Date Started(yyyy/min/dd	· (yyyy/ii		pump intake:	
Casing Type: Steel Liner Type: Lin	level	Moll Donth: 200 FT				FT
Stand Size OD - 66 Si Inches Liner Type - Steel Liner Type - Ste	(feet)			· · · · · · · · · · · · · · · · · · ·	pumping:	
## Brown Clay Solution Wall Thickness: 0.188 Wall Thickness: 0 Inches					Distance from top	of Inches
Blue Clay Inches South	42 Brown Clay	Wall Thickness: 0.188				
Solition at 190 Fine Grained Sand Perforations Perforations Size: from: 0 FT to: 0 FT 0.188 Inches x 0 Inches Total Drawdown: 0 FT Total Drawdown: 0					Depth To wate	
Perforations Perforations Perforations Perforations Size: from: 0 FT to: 0 FT 0.188 Inches x 0 Inches from: 0 FT to: 0 FT 0.188 Inches x 0 Inches from: 0 FT to: 0 FT 0.188 Inches x 0 Inch		Bottom at: 190 FT		F1 DOLLOIN. 209	Liapsco	
Tom: 0 FT to . 0 FT	160 Fine Grained Sand				Total Drawdown: () FT
Blue Shale from: 0 FT to: 0 FT 0 Inches x 0 Inches						
Seal: Driven from: 0 FT to: 0 FT Recommended pumping rate: 0 Sal: one of to: 0 FT Sandstone Seal: from: 0 FT to: 0 FT Scal: True from: 0 FT to: 0 FT Screen ID: 0 Inches from: 0 FT to: 0 FT Sot Size: 0 Inches Screen Type: Screen ID: 0 Inches from: 0 FT to: 0 FT Sot Size: 0 Inches Screen ID: 0 Inches from: 0 FT to: 0 FT Sot Size: 0 Inches Screen ID: 0 Inches from: 0 FT to: 0 FT Sot Size: 0 Inches Screen ID: 0 Inches from: 0 FT to: 0 FT Sot Size: 0 Inches Screen ID: 0 Inches from: 0 FT to: 0 FT Sot Size: 0 Inches Screen ID: 0 Inches from: 0 FT Sot Size: 0 Inches Screen ID: 0 Inches Screen			0 Inche	es x 0 Inches	duration, reason w	niy.
Tom: 0 FT To: 0 FT Seal: To: 0 FT Seal: To: 0 FT Seal: To: 0 FT T						
Seal: from: 0 FT to: 0 FT Scall Sandy Shale from: 0 FT to: 0 FT Screen ID: 0 Inches from: 0 FT to: 0 FT Screen ID: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT Screen IT: 0 Inches from: 0 Inches fro			to: 0 F	Γ	Recommended pu	ımping rate: 0
Seal: Seal: Seal: Seal: Seal: Screen Type: Screen ID: 0 Inches FT Type Pump Installed Pump Type: Sureen Type: Screen Ty	272 Shale & Sandstone		to: 0 E	г	Gallons/Min	
from: 0 FT to: 0 FT Screen ID: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches Screen Type: Screen ID: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches Screen Installation Method: Fittings Top: Bottom: Pack: Grain Size: Amount: Geophysical Log Taken: Retained on Files: Additional Test and/or Pump Data Chemistries taken By Driller: No Held: 0 Documents Held: 1 Pitless Adapter Type: Drop Pipe Type: Length: FT Diameter: Inches Comments: 7. Contractor Certification Driller's Name: UNKNOWN DRILLER Certification No: This well was constructed in accordance with the Water Well regulation of the Alberta Environmental Protection & Enhancement Act. All information in this report is true.			10.01	•		imp intake: 185
from: 0 FT to: 0 FT Slot Size: 0 Inches Screen Type: Screen ID: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches from: 0 FT to: 0 FT Slot Size: 0 Inches Screen Installation Method: Fittings Top: Bottom: Pack: Grain Size: Amount: Geophysical Log Taken: Retained on Files: Additional Test and/or Pump Data Chemistries taken By Driller: No Held: 0 Documents Held: 1 Pittess Adapter Type: Drop Pipe Type: Length: FT Diameter: Inches Comments: 7. Contractor Certification Driller's Name: UNKNOWN DRILLER Certification No.: This well was constructed in accordance with the Water Well regulation of the Alberta Environmental Protection & Enhancement Act. All information in this report is true.	269 Sandy Shale					ed
Screen Type: from: 0 FT to: 0 FT Slot Size: 0 Inches Screen Installation Method: Fittings Top: Bottom: Pack: Grain Size: Amount: Geophysical Log Taken: Retained on Files: Additional Test and/or Pump Data Chemistries taken By Driller: No Held: 0 Documents Held: 1 Pittess Adapter Type: Drop Pipe Type: Length: FT Diameter: Inches Comments: 7. Contractor Certification Driller's Name: Certification No: This well was constructed in accordance with the Water Well regulation of the Alberta Environmental Protection & Enhancement Act. All information in this report is true.						
Screen Installation Method: Fittings Top: Bottom: Pack: Grain Size: Amount: Geophysical Log Taken: Retained on Files: Additional Test and/or Pump Data Chemistries taken By Driller: No Held: 0 Documents Held: 1 Pitless Adapter Type: Drop Pipe Type: Length: FT Diameter: Inches Comments: 7. Contractor Certification Driller's Name: UNKNOWN DRILLER Certification No.: This well was constructed in accordance with the Water Well regulation of the Alberta Environmental Protection & Enhancement Act. All information in this report is true.		Screen Type:			H.P.: 3/4	
Fittings Top: Bottom: Pack: Grain Size: Amount: Geophysical Log Taken: Retained on Files: Additional Test and/or Pump Data Chemistries taken By Driller: No Held: 0 Documents Held: 1 Pitless Adapter Type: Drop Pipe Type: Length: FT Diameter: Inches Comments: 7. Contractor Certification Driller's Name: Certification No.: This well was constructed in accordance with the Water Well regulation of the Alberta Environmental Protection & Enhancement Act. All information in this report is true.		Screen Installation Metho	d;	ze. o inches	Any further pumpt	est information?
Pack: Grain Size: Amount: Geophysical Log Taken: Retained on Files: Additional Test and/or Pump Data Chemistries taken By Driller: No Held: 0 Documents Held: 1 Pitless Adapter Type: Drop Pipe Type: Length: FT Diameter: Inches Comments: 7. Contractor Certification Driller's Name: UNKNOWN DRILLER Certification No.: This well was constructed in accordance with the Water Well regulation of the Alberta Environmental Protection & Enhancement Act. All information in this report is true.					1	
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Report 1 Pump Test 1 page1				Yr Mo Day	/	



Water Well Drilling Report
The data contained in this report is supplied by the Driller. The province disclaims responsibility for its accuracy.

Well I.D.: Map Verified: 0340859 Date Report Received:

Мар 2002/03/12

Alberta responsibility for its accuracy.			Received:	_4	2002/03/12	
Environment		······································		Measureme		Imperial
1. Contractor & Well Owner Infor				2. Well Lo		
Company Name: GERALD MCGINN DRILLING LTD.		Drilling Company Approval No.: 120047		LSD	Twp	Rge Westof M
Mailing Address: City or 4910 50 AVENUE STON	Town: / PLAIN ALBERTA CANADA 1	Postal Code:		SW 30 Location in C	054 Warter	01 5
	ocation Identifier:	172 109	···	0 FT from		Boundary
ACRES, SPREEN				0 FT from		Boundary
P.O. Box Number: Mailing		Postal Code:		Lot B	lock	Plan
646 ONOW		TOE 0V0		Well Elev:	Но	v Obtain:
City: Proving	ce:	Country:		FT		Obtain
3. Drilling Information				6. Well Yi	eld	
Type of Work: New Well		Proposed v	vell use:	Test Date		Start Time:
Reclaimed Well		Domestic		(yyyy/mm/dd		44.00 484
	aterials Used:	Anticipated Requireme		2002/02/08 Test Method:		11:00 AM
Method of Drilling: Rotary Flowing Well: No R	ate: Gallons	0 Gallons	into/day	Non pumping		100 FT
	il Present: No			static level:		
4. Formation Log	5. Well Completion			Rate of wate removal:		3.5 Gallons/Min
Depth	Date Started(yyyy/mm/do). Date Completed		Depth of		205 FT
from ground Lithology Description		(yyyy/mm/dd): 2002/02/08		pump intake:		
ground Lithology Description level		Borehole Diamete	r: 0	Water level a	it	205 FT
(feet)	Well Depth: 289 FT	Inches		end of pumping:		
32 Yellow Clay	Casing Type: Plastic	Liner Type: Plastic		Distance from	n top of	Inches
76 Blue Clay 98 Gravel	Size OD: 6 Inches	Size OD: 4.5 Inche		casing to gro		
98 Gravel 100 Gray Dry Shale	Wall Thickness: 0.39 Inches	Wall Thickness: 0. Inches	228	level:		
113 Gray Shale	Bottom at: 135 FT		Bottom:	Depth I	water I apsed T	evel (feet)
118 Brown Shale		^l 286 FT				Sec Recovery
120 Gray Shale	Perforations	Perforations Size:	Inchas	100	0:00	205
125 Brown Shale	from: 135 FT to: 286 FT from: 0 FT to: 0 FT	0.062 Inches x 12 0 Inches x 0 Inche		120	1:00	198
133 Greenish Gray Shale 289 See Comments	from: 0 FT to: 0 FT	0 Inches x 0 Inche		137 150	2:00 3:00	192 187
200 Oce Commence	Perforated by: Saw			160	4:00	183
	Seal: Formation Seal	to: 125 ET		167	5:00	178
	from: 0 FT Seal:	to: 135 FT		175	6:00	174
	from: 0 FT	to: 0 FT		181	7:00	170
	Seal:	4. 0.ET		186 189	8:00 9:00	166 162
	from: 0 FT Screen Type:	to: 0 FT Screen ID: 0 Inche	ne .	191	10:00	
	from: 0 FT to: 0 FT	Slot Size: 0 Inches		193	14:00	
	Screen Type:	Screen ID: 0 Inche		196	20:00	
	from: 0 FT to: 0 FT	Slot Size: 0 Inches	3	198	25:00	
	Screen Installation Methor Fittings	oa:		200 201	30:00 40:00	
	Top:	Bottom:		202	50:00	
	Pack:			203	60:00	142
	Grain Size:	Amount:		204	75:00	
	Geophysical Log Taken: Retained on Files:			205 205	90:00 105:00	
	Additional Test and/or Pu	ımp Data		205	120:00	
	Chemistries taken By Dri			Total Drawdo		
	Held: 0 Pitless Adapter Type:	Documents Held:				less than 2 hr
	Drop Pipe Type:			duration, rea	son why	:
	Length: FT	Diameter: Inches				
	Comments:	TANOE EDOM TOD	05			
		ZONE.		Recommended pumping rate: 3 Gallons/Min Recommended pump intake: 225 FT		
	1					
				Type Pump I	nstalled	
	7. Contractor Certi			Pump Type:		
	Driller's Name: UNKNOWN DRILLER		_ER	Pump Model: H.P.;		
Certification No.: 3824 This well was constructed in accordance with th			Any further pumptest information			
	This well was constructed Well regulation of the Alb			<u> </u>	•	
	& Enhancement Act. All i					

Signature

Yr Mo Day