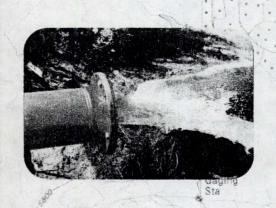
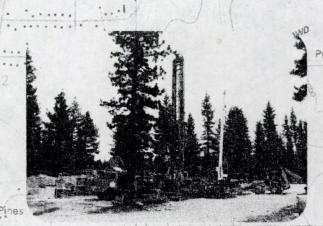
Callamont Estates Ground Water Development Program

July 2001

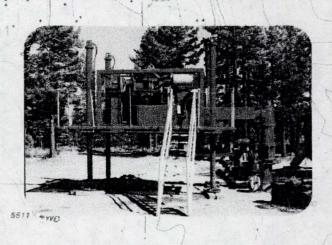


Callamont Production Well No. 2 (North)



Callamont Production Well No. 1 (South)





Callamont Estates Ground Water Development Program

Prepared For:
Conti Development
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Incline Village, Nevada 89451

July 2001

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1.0 EXECUTIVE SUMMARY

This report presents results of the ground water supply development program for Callamont Estates, Washoe County, Nevada. This program involved the drilling of a test well and two large diameter production wells. The two production wells are capable of meeting the water supply requirement of the development. Any excess water will be available for Washoe County use. The findings and recommendations of the development program are as follows:

1.1 Findings

- An 800 foot test well was drilled, constructed, and tested near the center of the development. Fractured Andesite and layers of sand and gravel were encountered during drilling. These favorable results, along with a downhole geophysical log which indicated good ground water potential, provided enough evidence to recommend going forward with the ground water supply development program.
- Production Well (PW) No. 1 (South) is located 50 feet from the test well and was drilled and constructed to a depth of 900 feet. To minimize impact to nearby shallow domestic wells, blank steel casing was installed from ground surface to a depth of 400 feet. The remaining portion of the borehole contains 460 feet of 14-inch, 80-slot, wire-wrapped screen.
- Based on data analysis of the 10-day constant-discharge pumping test, Production Well
 No. 1 (South) has been given a production pumping rating of 500 gallons per minute
 (gpm).
- Production Well (PW) No. 2 (North) was drilled and constructed approximately 2,000 feet north of Production Well No. 1 (South). This well was drilled to a depth of 980 feet. Like the design used in Production Well No. 1 (South) to minimize potential impact to shallow domestic wells, blank casing was installed to a depth of 480 feet below ground surface. The remaining portion of the borehole was completed with 460 feet of 14-inch, 80-slot, wire-wrapped screen.
- Based on data analysis of the 7-day constant-discharge pumping test, Production Well No.
 2 (North) has been given a production pumping rating of 600 gpm.

• Data analysis of both pumping tests indicates there is mutual pumping interference between the two production wells. This interference was calculated to be 10 feet after 30 days of constant pumping.

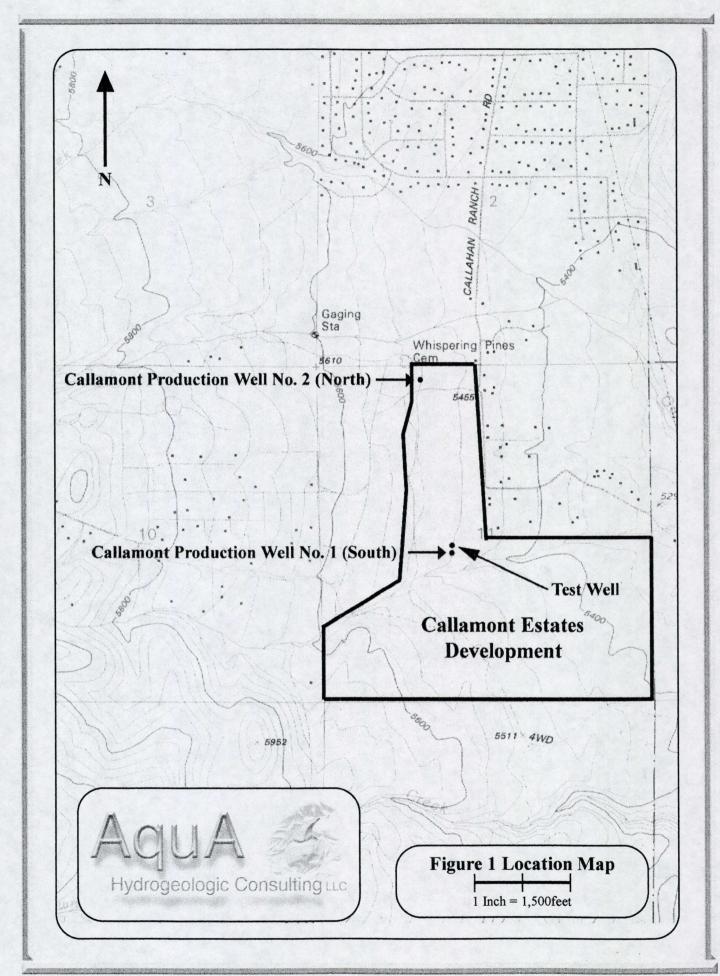
1.2 Recommendations

- Install a 500 gpm production pump in Production Well No. 1 (South) at a depth of 600 feet below ground surface.
- Install a 600 gpm production pump in Production Well No. 2 (North) at a depth of 560 feet below ground surface.
- Monitor the water levels of the two production wells and test well, initially on a monthly basis. Evaluation of this data will allow for prediction of well or aquifer deterioration over time.
- Data that is collected from the three wells should be incorporated into a regional data base, and then put into a regional ground water flow model.

2.0 INTRODUCTION

This report presents the results of the ground water supply development program for the Callamont Estates Development. Two production wells were drilled, constructed, and tested during this program. The location of both production wells and a third test well are shown on Figure 1. Both wells are located along Callahan Ranch Road, on the Mt. Rose Fan Area of Washoe County, approximately 10 miles southwest of downtown Reno, Nevada. Specifically, Production Well No. 1 (South) is located within the NE1/4 SW1/4 of Section 11, T.17N., R.19E, while Production Well No. 2 (North) is located within the NW1/4 NW1/4 of Section 11, T.17N., R.19E.

Prior to the drilling of the two production wells, an exploration/test well was drilled and completed to a depth of 800 feet, approximately 50 feet north of PW-1. Data collected during the drilling and air-lift testing of this well confirmed that the site was favorable for the development of a production well with a capacity of approximately 500 gpm. The confirmation of this site was based on geologic samples collected during the drilling program, downhole geophysical logging, and air-lift results of the constructed 6-inch diameter cased test well.



3.0 GEOLOGIC AND HYDROGEOLOGIC SETTING

This section presents a general overview of the geologic and hydrogeologic setting of the Mt. Rose Fan Area covered in this report. This area is located on the eastern flanks of the Sierra Nevada Mountain Range which was formed by intrusions of granitic rock. To the east of the proposed development is the Carson Range. This Range is part of the Basin and Range Province which makes up most of Nevada and Utah. "The mountain ranges in western Nevada are primarily composed of Mesozoic and early Tertiary intrusive rocks and tertiary volcanic rocks. The intervening basins consist of deep accumulations of early Cenozoic to Quaternary are sediments. Pleistocene age glaciation in the higher elevations west of the proposed development resulted in glacial outwash, debris flows, and flood materials being deposited on the eastern flank of the Carson Range and in the Washoe Valley Truckee Meadows area resulting in the development of the Mount Rose Fan complex." (Fault Investigation, Nortech, March 5, 2001).

The proposed development area also contains numerous north-south trending faults which are shown on the Washoe City Folio, Geologic Map, prepared by the Nevada Bureau of Mines and Geology. These faults may provide secondary permeability fractures to the granodiorite and andesitic volcanic rocks of the area which enable significant amounts of ground water to be conveyed via the fractures.

During the drilling of the three drill holes completed for this project, the drill cuttings revealed a significant thickness of andesitic volcanic rocks, which were interbedded with various alluvial deposits.

The Mt. Rose Fan Area during the past five years has seen extensive ground water development. In addition to the existing 200 or so domestic wells which have been drilled, there have been seven large diameter production wells, including the Callamont production wells. To date, the aquifer appears sufficient to meet the needs of the existing users.

4.0 WELL DRILLING, CONSTRUCTION, DEVELOPMENT, AND TESTING

This section presents results of the drilling and construction of the test well and two production wells that were completed under the water supply development program for Callamont Estates. The well drilling, construction, development, and testing activities were conducted by Lang Exploratory Drilling, Elko, Nevada, under the direct supervision of AquA Hydrogeologic Consulting, Reno, Nevada. The drilling, construction, and development activities took place during the period of March 29 through April 18, 2001. During this period AquA personnel documented all on-site activities. The following sub-sections describe the field activities in detail.

4.1 Test Well

The drilling and construction of the test well commenced on March 29, 2001 and was completed on April 2, 2001. This construction and testing program is summarized as follows:

A nominal 19-inch diameter borehole was drilled by a conventional mud-rotary drilling method to a depth of 60 feet, after which a 13-3/8 inch diameter blank steel surface casing was installed to total depth and cemented into place. A 12-1/4 inch diameter borehole was then drilled to a depth of 820 feet below ground surface using the flooded reverse drilling method. After completion of the borehole to a depth of 820 feet, a downhole geophysically survey was conducted. Based on results of drill cuttings and the geophysical survey, a test well design was detailed. This design included the installation of 6-inch diameter casing from ground surface to a depth of 800 feet. Blank casing was installed from ground surface to 400 feet, between 420 and 440 feet, and between 600 and 680 feet. The rest of the casing schedule included installation of 80-slot perforated casing from 400 to 420 feet, between 440 and 600 feet, and from 680 feet to total depth of 800 feet.

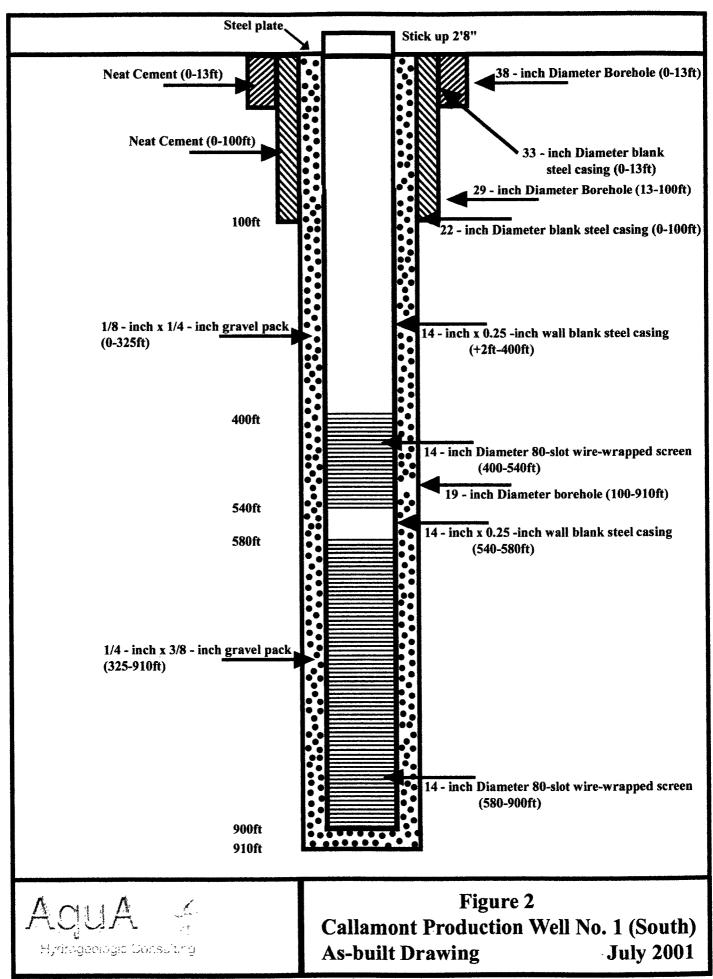
After the test well was developed, an air-lift testing program was conducted to determine ground water yield potential for this area. During the air-lift testing program, 81 gpm was produced with 20 feet of drawdown. This information provided a basis for confirming that this area had the potential for development of a production well capable of producing in excess of 500 gpm. All details of the drilling, construction, development, and air-lift testing of this test well are included in Appendix A.

4.2 Production Well No. 1 (South)

The drilling and construction of Production Well No. 1 commenced on April 3, 2001 and was completed on April 10, 2001. Highlights of the drilling, construction, and development program follows.

- A nominal 38-inch diameter borehole was drilled to thirteen feet below ground surface,
 then 33-inch diameter blank steel casing was cemented into place.
- After the surface casing was installed, a 29-inch diameter borehole was drilled to a depth of 100 feet with 22-inch diameter blank steel casing cemented into place.
- A nominal 19-inch diameter borehole was drilled to total depth of 910 feet. The design of the production well included the following casing schedule:
 - 14-inch diameter wall blank steel casing from ground surface to a depth of 400 feet,
 - 14-inch diameter 80-slot wire-wrapped screen from 400 to 540 feet,
 - 14-inch x 0.25-inch wall blank casing from 540 to 580 feet, and
 - 14-inch diameter 80-slot wire-wrapped screen from 580 to 900 feet.
- After the casing was installed, 1/4-inch by 3/8-inch gravel pack was installed in the annular space from 910 to 325 feet, then 1/8-inch by 1/4-inch gravel pack was installed from 325 feet to ground surface.
- Figure 2 is an as-built drawing of the constructed production well.
- A complete Test Well Log of Borehole and Well Construction Summary is contained in Appendix A.

The air-lift development program commenced with the well being air-lifted from total depth. This initial air-lift phase removed drilling fluid contained within the well casing and from the borehole wall, as water was drawn into the well casing area. After this initial phase, a drilling fluid dispersant product named Aqua Clear was jetted and swabbed into place opposite the screen sections of the well. The Aqua Clear was allowed to work on the borehole mud cake for twelve hours, then it was air-lifted from the well. Each 40-foot section of screen was air-lifted, until the water being discharged from the well was nearly sand free. A total of 46 hours was spent air-



lifting the screen sections of the well. At the end of the air-lift development program, water level and discharge data collected indicated that the use of Aqua Clear and the air-lift program increased the well yield approximately 20 percent.

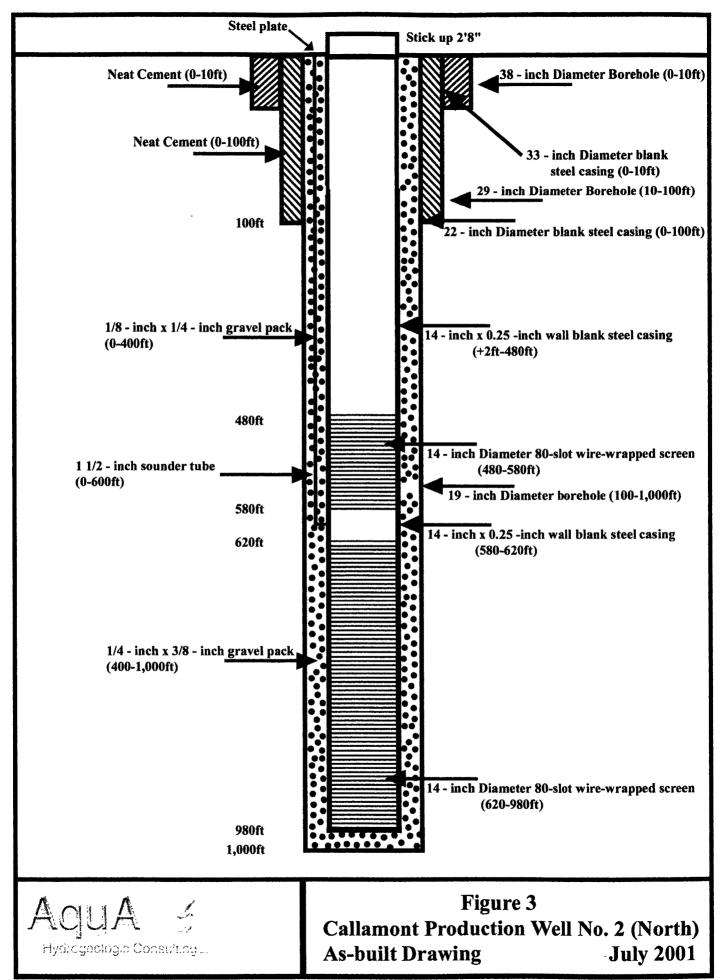
The well development program continued with the installation of a test pump capable of producing up to 1,500 gpm being installed at a depth of 560 feet bgs. The pump development program commenced with an aggressive surging of the well with an initial discharge rate of 300 gpm. The surging program and water discharge from the well was increased incrementally with time, until a maximum discharge from the well of 1,150 gpm was reached. After the initial surging at 300 gpm, the sand content within the water being discharged (as recorded by the Rossum sand tester) was below the Washoe County standard of 0.1 ppm at each incremental increase in discharge. At the end of the pump development program, ground water from this well contained no sand.

4.3 Production Well No. 2 (North)

The drilling and construction of Production Well No. 2 commenced on April 11, 2001 and was completed on April 18, 2001. A summary of the drilling and construction activity is described as follows:

- A nominal 38-inch diameter borehole was drilled to ten feet below ground surface, then 33-inch diameter blank steel casing was cemented into place.
- After the surface casing was installed, a 29-inch diameter borehole was drill to a depth of 100 feet with 22-inch diameter blank steel casing cemented into place.
- A nominal 19-inch diameter borehole was then drilled to a depth of 1,000 feet. The design of the production well included the following casing schedule:
 - 14-inch x 0.25-inch diameter blank steel casing from ground surface to a depth of 480 feet.
 - 14-diameter 80-slot wire-wrapped screen from 480 to 580 feet,
 - 14-inch x 0.25-inch wall blank steel casing from 580 to 620 feet, and
 - 14-inch diameter 80-slot wire-wrapped screen from 620 to 980 feet.
- After the casing was installed, 1/4-inch by 3/8-inch gravel pack was installed in the annular space from 1,000 to 400 feet, then 1/8-inch by 1/4-inch gravel pack was installed from 400 feet to ground surface.

- Figure 3 is an as-built drawing of the constructed production well.
- A complete Log of Borehole and Well Construction Summary is contained in Appendix A.



The well development program commenced with the well being air-lifted from total depth. This initial air-lift phase removed drilling fluid contained within the well casing and from the borehole wall, as water was drawn into the well casing area. After this initial phase, Aqua Clear was jetted and swabbed into place opposite the screen sections of the well. The Aqua Clear was allowed to work on the borehole mud cake for twelve hours, then it was air-lifted from the well. Each 40 foot section of screen was air-lifted, until the water being discharged from the well was nearly sand free. A total of 44 hours was spent air-lifting the screen sections of well PW-2. The well development program continued with the installation of a test pump capable of producing up to 1,500 gpm being installed at a depth of 580 feet bgs. The pump development program commenced with an aggressive surging of the well with an initial discharge rate of 200 gpm. The surging program and water discharge from the well was increased incrementally with time, until a maximum discharge from the well of 1,000 gpm was reached. Unlike Production Well No. 1 there were recordable amounts of sand (as measured by the Rossum sand tester) throughout the incremental increases in discharge. However, at the end of the pump development program, water discharge from the well was below the Washoe County standard of 0.1 ppm and the water discharging from the well was considered sand free.

5.0 AQUIFER TESTING

The aquifer testing program for both production wells included a three incremental step-drawdown test with each step having a duration of 100 minutes followed by a constant-discharge testing program. Production Well No.1 (South) was pump tested for ten days, while Production Well No. 2 (North) was pump tested for seven days. Each of the testing programs conducted on the respective production well is described in the following sections.

5.1 Production Well No. 1 (South)

The Production Well No. 1 step-drawdown pumping test was conducted on May 7, 2001. The testing program consisted of three steps, each 100 minutes in length. The discharge rates were 770, 950, and 1,100 gpm, respectively. Results of the step-drawdown test are summarized on Table 1. Based on drawdown data provided by the step test, a pumping rate of 800 gpm was chosen for the ten-day (240-hour) constant-discharge pumping test.

Table 1. Production Well No. 1 (South) Step-Drawdown Data

Step	Duration (minutes)	Discharge rate (gpm)	Drawdown After Step (feet)	Specific Capacity (gpm/ft.dd)
1	100	770	159.79	4.81
2	100	950	232.60	4.08
3	100	1,100	289.16	3.80

A ten-day constant-discharge pumping test was conducted beginning May 8, 2001 and ending on May18, 2001. A production pumping rate of 800 gpm was maintained for the duration of the testing period. Water levels were measured in the production well, the test well (located 50 feet away), and two domestic wells (located approximately 350 to 400 feet from the production well).

The ten-day constant-discharge pumping test commenced on May 8, 2001 at 0920 a.m. A prepumping water level was recorded at 146.30 feet at top of casing. During the ten-day test, the discharge rate was maintained at a nearly constant rate of 800 gpm. Depth to water at the end of the ten-day pumping period was 429.51 feet. A drawdown of 283.21 feet was calculated. This value indicated a specific capacity of 2.82 gpm/ft.dd.

The observation well used during this ten-day test was the six-inch test well (located 50 feet from the production well). Initial water level at the observation well was measured at 144.10 feet

below top of casing. The water level at the end of the ten-day test was measured at 288.29 feet indicating 144.19 feet of drawdown.

Of the two domestic wells which were monitored during the pumping period, one showed an apparent response to the production pumping. About four feet of drawdown was measured. Because both domestic wells were in use during the testing program, detailed analysis of the data collected from the wells could not be made with any degree of certainty.

The constant-discharge test data was analyzed using both Theis and Cooper-Jacob Methods. The Cooper-Jacob Method was used for this report, because it provided a graphical means of predicting long-term drawdown. The Cooper-Jacob Method is a valid method to be used for this analysis, because of the testing duration and the close proximity of the test well which was used as a observation well during the testing program.

During the test drawdown values for both of the monitoring wells produced the following transmissivity values when plotted on semi-log graph paper (Figure 4). For the production well, a transmissivity values of 4,184.42 gal/d/ft.dd was calculated; while for the test well, a transmissivity value of 623.14 gal/d/ft.dd was calculated.

Storage coefficient values were calculated for both wells and produced the following values. For the production well a value of 0.0147529 was calculated. While the observation well data produced a value of 0.00004332. The production well value indicates an aquifer that is semiconfined, while the observation well data indicates an aquifer that has more confined properties. A possible reason for the range of values is the heterogeneity of the geologic material that was encountered during the drilling of both wells.

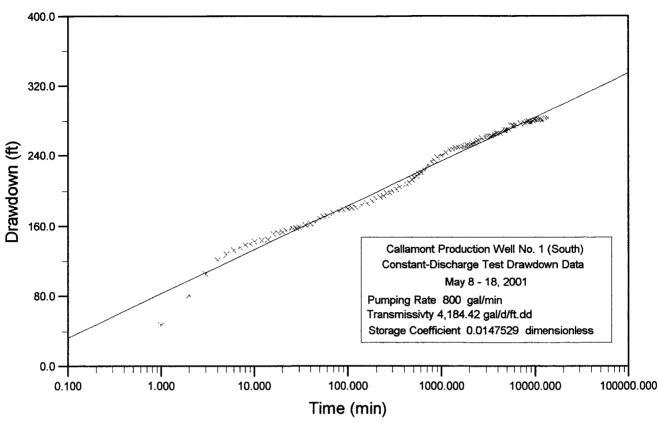
After the conclusion of the ten-day constant-discharge test, recovery water level data was collected from both wells for nearly four days. The transmissivity value for the production well was calculated to be 3,911 gal/d/ft.dd, while the value obtained from the observation well was 4,488 gal/d/ft.dd.

5.2 Production Well No. 2 (North)

A step-drawdown pumping test was conducted on Production Well No. 2 on May 26, 2001. The testing program consisted of three steps, each 100 minutes in length. The discharge rates were 400, 600, and 800 gpm, respectively. Results of the step-drawdown test is summarized on Table

Figure 4. Production Well No. 1 (South) and Test Well Pumping Tests Drawdown Graphs





Cooper and Jacob

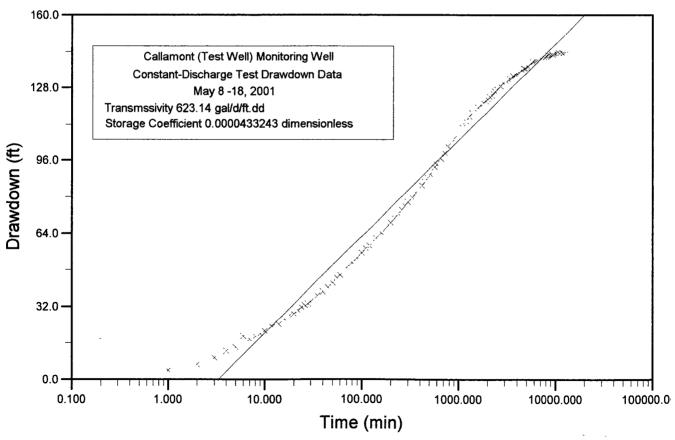
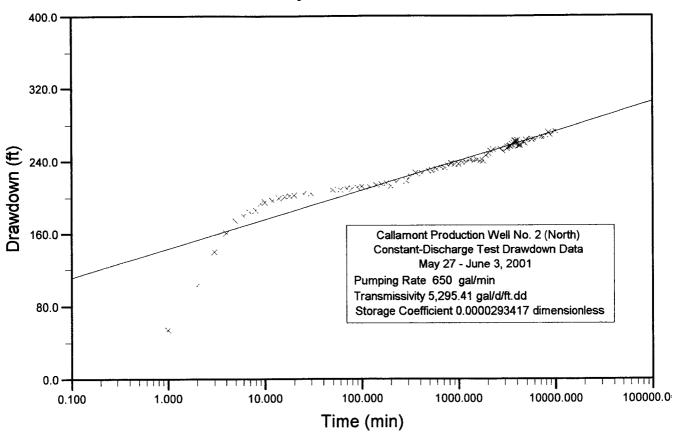


Figure 5. Production Well No. 2 (North) Pumping Tests Drawdown Graph

Cooper and Jacob



6.0 PRODUCTION WELL RATINGS

The following is the production pumping rating and pump setting that have been given to both of the Callamont production wells.

- Production Well No. 1 (South) has been given a pumping rating of 500 gpm, with the pump intake at 560 feet below ground surface. For specification purposes, a pumping water level of 400 feet below ground surface should be considered.
- Production Well No. 2 (North) has been given a pumping rating of 600 gpm, with the pump intake at 600 feet below ground surface. For specification purposes, a pumping water level of 460 feet below ground surface should be considered.

2. Based on drawdown data provided by the step test, a pumping rate of 650 gpm was chosen for the proposed ten-day (240-hour) constant-discharge pumping test.

Table 2. Production Well No. 2 (North) Step-Drawdown Data

Step	Duration (minutes)	Discharge Rate (gpm)	Drawdown After Step (feet)	Specific Capacity (gpm/ft.dd)
1	100	400	115.24	3.47
2	100	600	193.12	3.10
3	100	800	296.02	2.70

A ten-day constant-discharge pumping test was conducted beginning May 27, 2001 and ending on June3, 2001. A production pumping rate of 650 gpm was maintained for the duration of the testing period. The flow rate was measured by both an in-line totalizing meter and an orifice plate at the place where the water was discharged into Galena Creek. The constant discharge test was originally schedule to go ten days, but after seven days, the data which was being collected was sufficient to allow the pumping to be terminated early.

A pre-pumping water level was recorded at 150.36 feet at top of casing. Depth to water at the end of the seven-day pumping period was 423.25 feet. A drawdown of 272.89 feet was calculated. This value indicated a specific capacity of 2.38 gpm/ft.dd.

During the pumping of the production well, three nearby shallow domestic wells were monitored for possible pumping interference effects. No interference effects were recorded during the pumping program. While there was no water level changes in the northern shallow domestic wells, there was pumping interference effects being observed in Production Well No. 1 (South). During the seven-day pumping period, 5.80 feet of drawdown was observed in Production Well No. 1. When plotted on semi-log graph paper, the interference effects after 30 days of continuous pumping resulted in 10.4 feet of drawdown interference at the PW-1.

A transmissivity value of 5,295.41 gal/d/ft.dd. was calculated for Production Well No. 2, along with a storage coefficient value of 0.00002934 for the drawdown data. A semi-log graph of the drawdown data set is show in Figure 5.

After conclusion of the seven-day constant-discharge test, recovery water level data was collected for two days. The transmissivity value was calculated to be 5,535 gal/d/ft.dd.

7.0 WATER QUALITY

Prior to shutting off the test pump at the end of both constant-discharge tests, Washoe County personnel collected water quality samples and submitted them for laboratory analysis. Results from both production wells indicate excellent water quality which meets all State of Nevada Drinking Water Standards. Detailed results of the laboratory analysis are included in Appendix C.

8.0 REFERENCES

Nevada Bureau of Mines and Geology, <u>Geology and Mineral Deposits of Washoe and Storey</u>

<u>Counties, Nevada, Bulletin 70</u>, Mackay School of Mines, University of Nevada, Reno,
1969

Nevada Bureau of Mines and Geology, Washoe City Folio, Geologic Map, 1975

Nortech Geotechnical/Civil Consultants, Ltd, 2001, <u>Fault Investigation 352+\- Acre Galena Property</u>, <u>Washoe County</u>, <u>Nevada</u>, March 5, 2001

Washoe County Department of Public Works, Utility Division, 1993, <u>St. James' Exploratory</u>

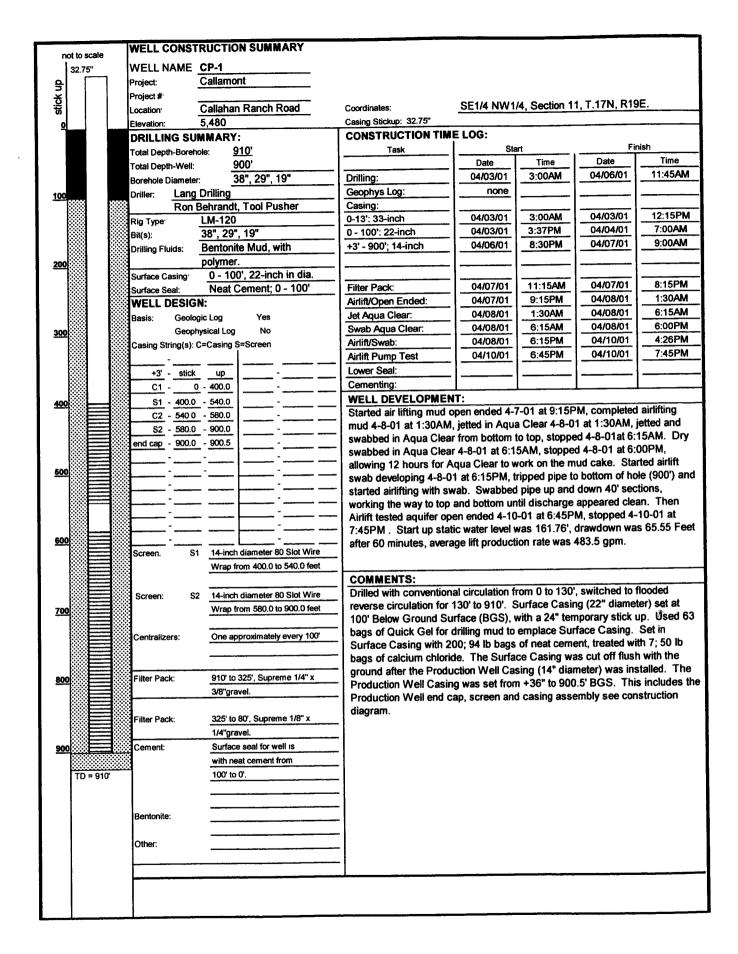
<u>Drilling, October - December 1993</u>

State of Nevada, Division of Water Resources, Well Logs

Personal Communication, Dan Dragan, Washoe County, April - June, 2001

Appendix A

Production Well No. 1, No. 2, and Test Well Log of Boreholes and Well Construction Summary



BOREH	OLE LOG	<u> </u>	Owner	:							mber:		CP-			
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	5 00				0				F			25%	10%	10%		
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Total De		_			Fluid:	Bentonit		, Reverse	Circul	ation	1						Geophysical Log: NO
	Pen. R	<u>. c</u>	rculat	ion	_	_	-S	amples	├-		_			_		1	Description
Depth	Penetration Rate, in	aet/min	nject, gpm	Retum, gpm	Alteration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Strattgraphy	Symbol	Lithology	uscs	Clay%	SIIF%	fine sand %	볼	Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation.
		=	Ī														60' to 170' MIXED COLLUVIUM, unconsolidated, occasionally dark brown
	1.	11				1							5%	5%	15%		dark gray to gray chips with plagiclase feldspar, quartz, oligioclase feldspar homblende and mxa, rounded to subangular, mixed lithologies of predominantly andesite and granodionte, clay content varies. 120' to 130 interval is coarse sand, well graded.
130	ļ							}	 		╁			 	ļ	∷:	130' to 140' as above, but sand and gravel with increasing clay and sil
		十	\dashv				- -		T	┢	Н		25%	10%	5%	l∷:	content.
	0.0	33				0]∷:	
		1]::::	
140		1					<u> </u>		<u> </u>	_	Ц				ļ	∤ ∷∷	140' to 150' as above, but sand and gravel with decreasing clay content
	<u> </u>	+					├	ļ	-	-	Н				\vdash	∤∷ ∶	140 to 150 as above, but sand and graver with decreasing day content
	1:	4			$\vdash \vdash$	0	 		\vdash	-	H		20%	10%	5%	<u></u> ∷:	
	1.0	,				⊢∸	\vdash	ļ	T		H		-~~	<u>~</u>	† <u>*</u>	† ∷:	
150	<u>-</u> -	7			-		 	 	1		H]::::	
	†	-†					<u> </u>		Ι]:::	150' to 160' interval is as above, with increasing clay content, many clar
	0.4	15									Ц		ļ		Ĺ] :::	balls, naturally rounded fragments, gravel with sand and clay.
		\perp				0	ļ		<u> </u>		Ш		35%	10%	5%	4:::	
	1.	25					<u> </u>			_	Ш		<u> </u>	<u> </u>	 	∤∷:	
160_		+					├	ļ	├-		Н		<u> </u>	<u> </u>	\vdash	ł∷:	160' to 170' as above, decreasing clay content, clay color changes to tan
	1.0	, +	\dashv				\vdash		\vdash	-	Н			-	\vdash	{:::	increasing coarse chips.
	<u> -</u>	~	\dashv		\vdash	0	┢╌		┢	1	Н		20%	5%	10%	, :::	
	0.0	33			_		 			T	H					1:::	
170									<u> </u>]∵:	
•=•		I														∤ ∷.	170 to 290 SAND AND GRAVEL, unconsolidated, occasionally dark brown dark gray to gray chips with feldspar and quartz, homblende and mica
	1.0	20					 		▙	L	Н			L	 	∤∷ :	rounded to subangular, mixed lithologies of predminantly andesite and
	<u> </u>	<u>.</u> -	_			•	-		-		Н		10%	5%	5%	∤ ∷∵	granodiorite, clay content varies
180	1.3	4	\dashv		-		╁		-	H	Н			-	┢╌	{∷ ⊹	İ
		+	_							П	П					 :::	180' to 190' interval is as above, but increasing clay content, decreasing chi
	1.3	25									П]:∷	size.
		Τ				0							15%	10%	5%	.] : ∷	
	1.3	25					L		_		Ц		L_			∷:	
190		4					ļ	ļ	ļ	ļ	 		ļ		ļ	- ∷:	190' to 200' interval is as above, but increasing clay content.
		+			_		<u> </u>		├	-	Н			<u> </u>	⊢	∤∷∶	190 to 200 titlerval is as above, but increasing day content.
	1.3	25			-		├		-	H	Н		2004	1504	- F02	 ∷∶	1
	0.	;;†				0			+-	H	Н		3070	15%	5%	 ∷:	1
200	ان .	+					† **		†	T	H				1	† ∷:	
_		I										·]∷:	200' to 210' interval is as above, but coarse sand and gravel with decreasing
	0.1	71	[<u> </u>	L	<u> </u>	L	Ц		ļ	_	<u> </u>	∷	clay content.
		4				0	 —	<u> </u>		L	Н		10%	5%	5%	∤ ∷	1
240	11	10	_				\vdash	 	├	⊢	Н		├	-	-	{∷:	
210	 	╌┼╴					 	 	 	 	╁┤		 	 	 	† ∷	210' to 220' interval is as above, but sand, well sorted.
	0.	, †					t		Г	Г	H			Г		1∷:	
		T	\dashv			0	Ī				П		5%	5%	15%	} ∵	
	1.4	13] :::	1
220 _		1									Ц		_		<u> </u>	 :::	COOK to COOK internal in an about had in a second in a
	<u> </u>	_			Ш		├—	ļ	-	-	$\vdash \vdash$		-	-	├-	∤∷	220' to 230' interval is as above but increasing clay content, increasing chi size, gravel with clay.
	1.4	13			\vdash	<u> </u>	\vdash	 	\vdash	\vdash	Н		200	10%	5%	∤ ∷	
	0.6	+		-		0	-	-	+-	+	H		20%	10%	1 37	1∷	}
230		+					t		†	 	Н			 	 	::·	1
	†	_†					<u> </u>	<u> </u>	<u> </u>	<u> </u>	口]:::	230' to 240' interval is as above, but with increasing chip size, coarse graw
	0.0	32								L				匚]:::	with clay.
		I				0					П		20%	5%	5%	∤ ∷	
	0	/1					L	ļ	L	L	Ц		ļ	<u> </u>	<u> </u>	∤ ∷:	1
240	l							<u>L</u>	_	L	Ш			L		· · ·	1

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BOREH	OLELO	2	Ov					-	Wel	Nor	nber:		CP-1			
Project C		_	Owner: Project		ber:					e 3			о, -, В	-		
	aliamont Callahan R					illina. I	Ron Behra	ındit		<u>Da</u>			<u>ime</u>			
Coordinate					LM-120	· '		-	Star		V3/20	001	3:00A	М		
Elevation.				-	38", 29",	19"							11:45	AM		
Total Dep							Reverse	Circut	ation							Geophysical Log: NO
	Pen. R.	Circula	tion				amples									Description
Depth	Penetration Rate, in teet/min	inject, gpm	Return, gpm	Ateration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Stratignaphy	Symbol	Lithology	nscs	Clay%	SIIP%	fine sand %	Graphic	Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation
<u> </u>	<u> </u>	゠	2	- ₹	25	-	<u> </u>	<u>ه</u>	8		_	- "	-0/			170' to 290' SAND AND GRAVEL, unconsolidated, occasionally dark brown,
i	0.28	-				\vdash		 	Г	H					:-:-	dark gray to gray, or white chips with feldspar and quartz, homblende and
					0					П		10%	5%	10%	• • • • •	mica, rounded to subangular, mixed lithologies andesite and granodiorite,
	0.55							I		П			•			clay content varies. 240' to 250' is sand and gravel.
250								ļ	ļ	 		L				250' to 260', as above, but larger chips with decreasing fines, coarse gravel.
1				L				ļ	ļ	\sqcup					\cdots	250" to 250", as above, but larger chips with decleasing lines, coalso grave.
	0.62							<u> </u>	ļ	Н		ļ		<u> </u>		i i
		<u></u>	L	L_	0			L	<u> </u>	Ц		5%	5%	10%	[:::	
1	0 55			L				<u>L</u>	<u> </u>	Ц		Ш		ļ		
260									L	Ш		oxdot		<u> </u>	∷:	OTO
										Ц			L	.	 :::	260' to 270': as above but sand with increasing clay and sand content, sand
1	0 80		L			L.,		<u> </u>	!	Ц		 	L	<u> </u>	 :::	and gravel.
					0			<u> </u>	<u> </u>	Н		10%	5%	10%	::::	j l
1	0 80							<u></u>	1_	Ш				L.		1
270		L^{-}	<u> </u>					<u> </u>	L	 		L	 	 	∷:	cord to cook as a base but is a second after tight because increasing the size
		<u> </u>				L		L	L	Ш			<u> </u>		l :::	270' to 280': as above but increasing clay, light brown, increasing chip size,
	0.55							乚	L	\Box			<u> </u>	L	I:-:-	coarse gravel with sand and clay
1		Γ			0				Γ	\Box		20%	10%	10%	 ∵:	1
	0 55							T	Т	П]: ·:·	1
280				T					Т	П					J∙∷.	
		\vdash							Π	П					l:::	280 to 290' as above.
1	0 62							İ		Ш		<u> </u>		<u> </u>	!∷ :	<u>†</u>
1			Γ	Γ	0		L	L^{-}	Ĺ	П		20%	10%	10%	l :::	1
1	0.62			Π	1	Γ			Г				Ĺ		}:.:.	1
290		T	1			Π		Τ	Γ						٠	
1		t	t	†	1	†	T	I	Ι	Γ						290 to 320' ANDESITE, dark gray to grey, brown, fine grained chips,
1	0.31	1	1	T		Γ			Γ							plagioclase feldspar, subangular to angular, decomposed material,
1	<u></u>	1	1	T	0			Γ	I	П		35%	0%	0%		increasing clay content.,
	0.31	1		Т				Γ	Γ	\prod			L			
300	l	1	T	T				Π	Γ					L		
<u> </u>	 	1	T	Π		Г	1	Π	Τ	П						300' to 310': as above, but decreasing clay content.
1	0.31	1	1	T	T			Τ	Γ				\Box			
1		T	T -	1	1		1	1	Г			20%	0%	0%		
1	0 14	,	 	†	Γ	1		Т	Т	П				Γ	12.2	
310		†	 	T^{-}	Ι	1		1	1	П						
I	ļ	1	1	†	†	†	T	†	†	T-1		T	Ι	Γ		310' to 320'. ANDESITE, dark grey to grey, brown clay, increasing chip size,
1	0.35	5	1	1		T		1	Т	Т		1			333	decreasing clay content, solid material.
1	<u> </u>	1	1	T^-	0	1		1	Τ	T		10%	0%	09		
I	0.39	5	1	†	1	T	l	1	Τ	1			Γ	Τ		
320	<u> </u>	1	\vdash	†	1	t	†	†	T	1		T	Т	1	75	
1 1	 	1-	\vdash	十		t	\vdash	十	†	T	Τ	1	T			320 to 330' ANDESITE, brown to red brown, dark gray to gray, fine grained
1	0.34	st	1	 	†	1	1	1	T	T		T				chips, plagioclase feldspar, subangular to angular, increasing clay content
1	· · · · · ·	1	\vdash	1	-	t^-	1	1	1	T		55%	09	6 09	. 1	decomposed material.
1	0.2	5	t^-	T^-	T			T	T	1	Г	1	Γ		7.7	
330		1	\vdash	 	1	1		1	T	1		1				
I***	†	-t	†	†	1	†	†	†	†	T	<u> </u>	I	Γ	Γ]:-	. 330' to 440': SAND AND GRAVEL, with cobbles and boulders, gray to dark
	0.8	0	1	T	1	1	T	T	T	Τ		L^{-}			յ∴	gray, brown, white, rounded to angular, contains naturally eroded surfaces
	<u> </u>	1	T	T	0	1	1	1	T	1		30%	159	6 159	6]∷	mixed lithologies, predominanally granodiorite and andesite, clay conten- varies 330' to 340' is sand and gravel with clay
1	0.4	2	1	T^-	1	\top		T	Τ	Т	Γ		Γ]∵	· Yallos SSU (U SMO is saint aim grandi willi May
340		1	T	T	1	Τ	1	1	T	1	T	T	Π	$oldsymbol{\Gamma}$]∷	
I'''-	 	+	+	T^-	†	†	†	T	T	1	T	1	1.	Ι]∵	340' to 350': as above, but with decreasing clay content, decreasing chip
1	0.7	1	1	†-	1	T^{-}	T	1	T	T	Π	T	T	T]::	size, sand with clay.
	U./	1	T	\top	0	†	1	1	T	1	1	209	6 109	6 109	6	·]
1	0.7	1	+	+-	† <u> </u>	1-	1	T	T	T	T	1	T	T	٦ :	:1
250	U.7	+	┼	+	 	†=	† · · · ·	+	T	T	 	1	1	\top	1∷	
350	 			+		+	 	+	+	+	†	+	 	1	7 ∵	350' to 360': as above but with decreasing silt and fine sand content.
1		,	+	+	+	†-	1	+	十	十	1	1	T	1	7∷	·1
1	0.2	' 	+	+	0	+	1	+	+	+	†	209	6 59	6 59	6 ∵	3
1		;	+	+	+-*-	+-	 	+	十	+-	t^-	† <u>*</u>	Ť	Ť	⊤ ∷	
	0.2	1-	+-	1-	+	+-	 	+	+	+-	t^-	+	+-	\top	٦∵	<u> </u>
360	l .	1		1	1	ı	ı		- 1	1	L					

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BOREH	OLE LO	3	Owner						We	l Nu	mber:		CP-	1		
Project: C	allamont	_	Project			_		_	Pag	e _			8			
Location: Coordina	Callahan R les:	anch Re			r: Lang Di LM-120	rilling,	Ron Behra	nat	Star		<u>ate</u> 4/3/20	_	<u>lime</u> 3:00A	м		
Elevation				-	38", 29",	19"					4/6/20		11:45	AM		
Total Dep				Fluid	Bentonite		, Reverse	Circui	ator	<u> </u>						Geophysical Log: NO Description
	Pen R.	Circula		_		H	amples								ı	Description
Depth	Penetration Rate, in feet/min	inject, gpm	Return, gpm	Atteration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Stratigraphy	Symbol	Lithology	SSCS	Clay%	Silt%	fine sand %	Graphic	Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation.
	0.12.32		<u> </u>				25_				יני ו	1	ű	_		330' to 440' SAND AND GRAVEL, with cobbles and boulders, gray to dark
					0	<u> </u>	<u> </u>	<u> </u>	_	Н		15%	5%	5%		gray, brown, white, rounded to angular, contains naturally eroded surfaces, mixed lithologies, predominanatly granodiorite and andesite. 360' to 370' is
	0.27	_			-					Н		1370	370	370		sand.
370																
				-				<u> </u>	_	Н	_					370' to 380': as above, but clay is red brown instead of brown.
	0.33	 	\vdash		0	-				Н	_	20%	10%	5%	::::	
	0.50				Ť				Г	П						
380]::::	
							 		L	Н	ļ		<u> </u>		:::	380' to 390' as above, same amount of clay content, but clay is now grey green.
	0.22	ļ		<u> </u>	0	-	 	\vdash	\vdash	Н	ļ	20%	10%	5%	∷:	3
	0.33	 			<u> </u>	H	 	┢	\vdash	H	 	2070	 -	<u> </u>	:::	
390		<u> </u>													 ∷:	
															 :::	390' to 400': as above, but decreasing clay content, clay is brown, decreasing silt content, increasing fine sand content, larger chip fragments
				<u> </u>			ļ <u></u>		<u> </u>	┡	<u> </u>	-			ł∷∷	to 1/8"
1	0.28	ļ			0	├		\vdash	⊢	\vdash		10%	5%	10%	\ ∷∷	
400				\vdash	 	-			1	\vdash		\vdash	-	┢	:::	
- ° -				_]:∷	400' to 410': sand and gravel, with increasing clay content, clay is red
												<u>L</u> .			 :::	brown, decreasing granodionte content, increasing andesite content
	0.29			<u> </u>	0	_		<u> </u>	-	L	<u> </u>	20%	5%	5%	∤ ∷⊹	
410		 			 	├			├	╁	\vdash			├	∤∷ ∷	
*10					 	 		 -	 	╁╌				<u> </u>]::::	410' to 420': as above but sand with decreasing clay content, material is
										Г]::::	very fine grained, and predominantly granodiorite.
	0 34	L	<u> </u>	ļ	0	L		<u> </u>	L	-	<u> </u>	10%	5%	15%	∤ ∷:	
				<u> </u>		-	ļ	-	┝	H	ļ	├		\vdash	ł∷:	
⁴²⁰ —				┢─		┢	 	┢	-		\vdash	_	\vdash	一	∵∶	420' to 430': as above but sand, with decreasing clay and granodiorite
	1:40			<u> </u>	 -	T		Ι]:∷	content, clay is brown and red brown.
			<u> </u>		0	L		Ĺ	L	L		5%	5%	15%	l∷	
	0.12		ļ			 	ļ	 	-	-	_	 	\vdash	-	ł∷⊹	}
430		ļ	 	 -		 	ļ	 -	 -	┼		 		 -	∤ ∷:	430' to 440': as above but with increasing clay content, clay is brown to light
		 	-			╁╾		 	H	H		t	 	I^-	†:::	brown, .
	0 52				1					L		15%	10%	5%] : ::	
				<u> </u>				_	1	\vdash	<u> </u>	<u> </u>	<u> </u>	<u> </u>	 :::	
440		 	 	-		-		-	╀	⊢	├-	├	-	╁	11	440' to 450': CLAY, brown, red brown, grey, many andesite framents, hole
			\vdash		 	t^{-}	 	1	†-	T	 	1	L^-	t-		started to deviate, possibly fault gouge.
	0.52				1							55%	15%	10%		
								 _		L		\vdash	 	<u> </u>		1
450		ļ	ļ	 -	}	} -	 	ļ		 	ļ	 -			44	450' to 500': SAND AND GRAVEL, with cobbles and boulders, gray to dark
1		 		\vdash	 	 	 	1-	1	+		t^-	1	+	<u> </u>	gray, brown, white, rounded to angular, contains naturally eroded surfaces,
1	0,55	 -	 	\vdash	0	T		L^-	I^-			20%	5%	5%]:∷	lithology is predominanatly andesite, clay content varies. 450 to 460 is a
									L						∤ ∷	coarse gravel.
460		 	<u> </u>	<u> </u>		├ -	 	-	\vdash	╀	<u> </u>	₩		├-	∤ ∷:	460-470' as above but sand and gravel with small andesite chips and
1	 	 	\vdash	\vdash		\vdash	 	1	\vdash	+	\vdash	-	\vdash	+-	†∷ ∶	decreasing clay.
1	0.55	 	 	\vdash	0	1		1	+	†	 	10%	10%	109	; ∷	1
1					L]:::	
470		ļ				<u> </u>		Ĺ	ļ	ļ_		ļ	ļ	ļ	∤ ∷	470 4: 400 as about
	ļ- <u></u>		ऻ—	ļ		-	 	╀	╀	╀	-	├—	 	\vdash	∤ ∷:	470' to 480' as above
1	0.38		\vdash		0	 	-	\vdash	╁	╁	 	10%	10%	109	╣∷∶	,
1	0.5	 	1	 	- ٽ	 	<u> </u>	T	t^{-}	t	 	1.5.	† <u> </u>	† <u>*</u>	∷:	1
480			 	Г	T	1		T	T	T					:::	

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	OLE LOG	1	Own							Wel Pag		nber 5	(of 8	:P-1	1			
	allamont Callahan Ri	anch F		ct Nu Dril			illing, l	Ron Behra		. - -y		rte_	T	me				
oordinati				Rig	r Li	M-120					-	4/3/20		-00A			L_	
evation.						8", 29",		Reverse (4/6/20	101	1:45	AM		Ge	ophysical Log: NO
otal Dep		Circu	ntion	Flu	T	sentonite		amples	JIICUS	30.7	_							Description
Depth	Penetration Rate, in feet/min	Cilico	Г	Keturn, gpm	Alteration	Rig Response (1 to 5)	Material	Water (pH.EC.T)	Stratigraphy	Symbol	Lithology	uscs	Clay%	Silf%	fine sand %	ş	Als	te: Describe cuttings (including observations from dniler, rig and shacker screen. o note changes in drilling methods and drilling parameters including cfm, psi, weigh brt, psi, rotation.
<u>8</u>	Ra fee	3		ž	₹	<u> </u>	×	38_	6	S	3			10%			45	0' to 500' SAND AND GRAVEL, with cobbles and boulders, gray to dark ay, brown, white, rounded to angular, contains naturally eroded surfaces hology is predominanatly andesite, little to no granodiorite, clay conter
	0.50		1	+		0				F			10%	1070	107		va	ries. 480' to 490' is a sand.
190	0 42		+	1		0							20%	5%	109		· Ifra	0° to 500° as above, but material is increasingly coarse, contains largingments of andesite to 1/4° in size in lower portion of section, increasing ay content, sand and gravel with clay.
500																	50 m	00 to 540' ANDESITE, dark grey to grey, brown to red brown, decompose aterial, increased clay content, fragments increase in size to a maximum
	0.48					0							35%	09	0			1/2".
310	7				-				-	+	+		ļ		6 0		5 fr	10' to 520' as above, but decreasing clay content, increasing coar agments, andesite is occasionally vesicular.
520	07			1		0				+	‡		30%	09				20' to 530' as above, but decreasing clay content, decreasing coal
	0.3	0				1			1	+	‡		20%	0'	% C	*		agments, solid material.
530	0.3	В	+					<u> </u>	 	-	+	-	ļ	<u> </u>	+			530' to 540' as above, but with decreasing clay content.
	0.5	3		1		1	+		1	‡	‡	-	10%	, 0	% (%		
540	0.4	8	+	+		0	+			+			109	6 5	% 1	2%	$\cdot \cdot $	540' to 610' SAND AND GRAVEL, with cobbles and boulders, gray to digray, brown, white, rounded to angular, contains naturally rounded surfactithology is predominanatly andesite, no granodiorite, clay content variety to 550 is a sand and gravel.
550											1	-		-	1	- : - :		550' to 560' as above but with increasing silt content.
	0.3	31	1			0	+				1	+	109	6 10)%	5%		
560 _	0.	53	#			0	+		+	+		Ŧ	5'	* !	5%	5%		560' to 570' as above but with decreasing clay content, chips increasi angular, coarse gravel and sand
570	0.	50												-				570' to 580' as above but with increasing clay content, decreasing fragrisize and angularity, sand with clay.
	0.	53				0	1		+			+	40	% 2	0%	10%		
580_			$\frac{1}{1}$				+		+			#	20	19% 1	5%	10%		580' to 590' but with decreasing clay content, increased chip size.
590_	0	42					+		+					-				590' to 600' as above but with decreasing clay content, increasing frag
		38				0			1				-	5%	5%	10%		size to 3/4", increasing fragment angularity, decreasing sand cor- coarse gravel.
600	°	.45			\vdash	+-	\dashv		十				\dashv	十			<u>:::</u> :	

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BOREH	OLE LO	<u>G</u>	Owner						We	i Nu	mber:		CP-	1		
	Callamont		Projec						Pag	је _			8			
	Callahan F	Ranch R	d.		-	rilling,	Ron Behra	ındit	٠.		<u>ate</u> 4/3/20	-	<u>Time</u> 3:00/	. 2.5		
Coordina Elevation				-	LM-120 38", 29",	19"					4/6/2		11:45			
Total De							, Reverse	Circul								Geophysical Log: NO
	Pen R.	Circut	ation			s	amples								,	Description
	_	1 _	Ε		Rig Response (1 to 5)		ŀ	ج ا		H				8	1	Note: Describe cuttings (including observations from driller, rig and shacker screen.
l	Penetration Rate, in feet/min	inject, gpm	Return, gpm	듄	8	₌	Water (pH,EC,T)	Stratigraphy	_	è				٤	ي	
Depth	te in	t t	Į	Alteration	8 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Material	算工	l ag	Symbol	Lifthology	nscs	Clay%	SIII%	Ine sand	Graphic	on bit, psi, rotation
	4.5.₹	트	ě	₹	₹5	ž	3 0	8	6	긤	Š	O	<u>10</u>	Ė	1	540' to 610' SAND AND GRAVEL, with cobbles and boulders, gray to dark
1	0.45	 				\vdash	l	 		Н			\vdash	H	::::	gray, brown, white, rounded to angular, lithology is predominanatly
1					0							10%	5%	5%]::::	andesite, no granodiorite, clay content varies. 600' to 610' is a sand and
l	0.62					L				Ц			L	<u> </u>	-:::	gravel
610		 	ļ	ļ		ļ		ļ	 	├			ļ	ļ	333	610' to 630' ANDESITE, dark grey to grey, solid material, decreased clay
l	0.55	 	 	-		-		\vdash	⊢	Н		_	 			content, fragments increase in size to a maximum of 1/2".
1	0.55	1-	1-	 	1		 		╁╌	H		10%	0%	0%	33	
l	0.38	1	_	-			.	 	┢	Н		1.0.10	1 3.5			
620	0.00	\vdash	 	_	 -	 - 		_	 	H			l			
		 				T			<u> </u>	П					133	620' to 630'
l	0.42									П						
		<u> </u>	<u></u>	<u> </u>	0	<u> </u>		<u> </u>	L	Ц		15%	0%	0%		
	0.26	L		<u> </u>	ļ			L_	<u> </u>	Ш				<u></u>		
630		ļ		ļ	ļ	ļ		ļ	ļ	} ∤		ļ			1	630' to 680'. SAND AND GRAVEL, with cobbles and boulders, gray to dark
1		<u> </u>	 		<u></u>				<u> </u>	Н				<u> </u>		gray, brown, white, rounded to angular, contains naturally eroded surfaces,
1	0.21	\vdash	-	-	<u> </u>		!		├	⊦⊣		400		15%	∤ ∷∷	lithology is predominanatly andesite, granodiorite content varies, clay
l		 	 		1	├	_		┢	╌┤		10%	5%	15%	∦.∵:	content varies. 630' to 640' is a coarse gravel with sand
640	0.62	-		\vdash		\vdash			├-	Н				 	1::::	
°**'-		╁	 			-		\vdash	H	H		-	\vdash	\vdash	· · · ·	640' to 650', as above, but decreasing clay content, increasing fine sand
1	0.42	1	 			T		Г	T	П						content, increasing granodiorite content, chips are very fine, well sorted or
l			1		0				1	П		5%	5%	15%]:::::	poorly graded sand.
l	071								Г]::::	<u> </u>
650				L		Ī								<u> </u>		
						L		<u> </u>	<u> </u>	Н		 	<u> </u>	<u> </u>		650' to 660' as above but decreasing fines content, no gronodionte, mostly andesite, abundant large rounded fragments, coarse gravel with sand
1	0 42	 	 			<u> </u>		-	╌	\vdash				-	∤ ∷∷	andesite, abbilidant large founded haginerita, coalse graver with sails
1		├	⊢-		0	 		┝	⊢	Н		5%	5%	5%	1:::	
660	0.45	 	\vdash		 				╁	Н		 	\vdash	├		
°°°		╁	 			_		┢─		H			_	\vdash	1::::	660' to 670' as above, but increasing sand content, sand with gravel
1	0.59								Г	Н				T	1::::	
			1		0	l	i	Г		П		5%	5%	10%		
1	0.45]::::	
670								<u> </u>	<u> </u>					<u> </u>		
		<u> </u>		_				L	L	Ц			L	<u>L</u>		670' to 680' as above, but with increasing clay content, chips becoming increasingly angular.
	0 45	<u> </u>	L			<u> </u>		<u> </u>	1_	Н			ļ	_	 	แนงออกมูเร อกมูนเลา.
		<u> </u>	 		0	<u> </u>	 	<u> </u>	\vdash	H		20%	5%	10%	 :::::	1
	0.55	├		\vdash			ļ	-	\vdash	Н		├—	\vdash	├	{∷∷	†
680		 	-	-		\vdash	 	-	\vdash	H		-	 	-	333	680' to 700' ANDESITE, dark grey to grey, brown, mostly solid material, but
1	0.45	\vdash			 	 	l		1	H				<u> </u>		occasionally decomposed, many large chips to 2" of angular andesite with
	2	T	 		0				Г	П		20%	0%	0%		clay balls, andesite is fine grained.
	0.83		L.													
690		<u> </u>										<u> </u>				
						Ë	ļ		<u> </u>	П		ļ	<u> </u>	ـــــــــــــــــــــــــــــــــــــــ		690' to 700' as above
1	0.55	ļ						<u> </u>	<u> </u>	\sqcup		<u> </u>	ļ	ļ		
		<u> </u>	 	<u> </u>	0	<u> </u>	 		├-	\vdash		20%	5%	10%		
	071			\vdash				<u> </u>	⊢	\vdash		-			3.5	
700		├	 	-		-	 	-	╌	╂╼┨		├		├─		700' to 770' SAND AND GRAVEL, with cobbles, gray to dark gray, brown,
	0.55			\vdash		 	 	 	1	+		t —	 		::::	rounded to angular, lithology is predominanatly andesite, clay content varies.
	0.55	 		\vdash	0	Т	— —	 	\vdash	H		5%	5%	10%	, ::::	700' to 710' is a gravel with sand.
	0 55			Т	<u> </u>	<u> </u>		Г	Г	П				<u> </u>]∵∷	
710		1		П		T				П					$1 \cdots$	
1		<u> </u>								口			<u> </u>]::	710' to 720' as above, but snad and gravel.
	0.71	ļ		Ш		L_	<u> </u>	<u> </u>	L	Ш			<u> </u>	L	 ::::	
					0	<u> </u>	 	 	L	 		5%	5%	10%	∤ ⋯:	
	0.55					<u> </u>	 	<u> </u>	L	Ш		<u> </u>	<u> </u>	ļ	∤ ∷∵	
720		f	1			l	İ	I	ı	1		l	i		Ŀ	

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BORFH	OLE LOC	3	Owner					_	Wei	Nu	mber:		CP-1	1		
Project: C			Project		ber				Pag	e	7	of I	8			
	Callahan R	anch Ro	1.			nilling,	Ron Behra	indt	_		ate_		<u>îme</u>			
Coordinat					LM-120	40"							3:00A			
Elevation.					38", 29", Rentonite		Reverse	Circu#			4/6/20	UU I	11:45	~JVI		Geophysical Log: NO
Total Dep		Circula	tion	, rului	SOLINOT BR		amples	<u> </u>		_						Description
		33		П	98	ΙŤ	-T			П						
	5	Ĕ	Return, gpm	اء ا	Rig Response (1 to 5)		E	ļ		اۃِ				% D	۱	Note: Describe cuttings (including observations from driller, ng and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight
۽	min n	Inject, gpm	Ē,	Alteration	Res (5)	Material	Water (pH,EC,T)	Stratigraphy	Symbol	용	ဗ္ဗ	🕺	*	ne sand	Graphic	on bit, psi, rotation.
Depth	Penetration Rate, in feet/min	<u> </u>	Ref	Ate	<u> </u>	Mat	§ 6 E	St.	ર્જુ	₹	nece	Clay%	Silt%	٤	5	
								L	Ц	Ц				<u> </u>	:::	700' to 770' SAND AND GRAVEL, with cobbles, gray to dark gray, brown, rounded to angular, lithology is predominanatly andesite, clay content varies.
	0 45	L	ļ	\sqcup	<u> </u>	<u> </u>		<u> </u>	Н	Н		20%	10%	5%	:∙:∙	720' to 730' is a coarse gravel with sand, occasional fragments to 1/4".
	0.50	├ ─	<u> </u>	\vdash	0			├	\vdash	Н	_	2070	1076	1 J76	 ∙∷	some fragments have natural erosion surfaces.
730	0.50		 	\vdash	 			1	\vdash	Н]·.::	
		L								Ш					:::	730' to 740' as above, but with decreasing clay content, some red chips in
1								<u> </u>	L	Ц		Ш		<u> </u>	:∵:	sample, sand and gravel.
	0.29				0	$ldsymbol{ldsymbol{ldsymbol{eta}}}$		ļ		Ц		5%	5%	5%	∤ ∷:]
			L			_		ļ	\vdash	Н	<u> </u>			⊢	∤ : : :	ł
740			<u> </u>	ļ		 		₩	 	Н	<u> </u>	┥	-	<u> </u>	∤ ∷∷	740' to 750' as above, but with increasing clay content
1		 	 	-	├	-		+-	1-	Н	-	\vdash		 	∤∷ ः	
			 		0	\vdash	 	+	\vdash	H	_	10%	5%	5%	, :::	ł l
	0.37	 			۳-		 	\vdash	t	Н	_	 ``		Ť	†⊹∷:	1
750		1		1		 	l	1	T		Ι	\vdash		Π	1:::	
l' "		 	† <u>-</u>	†	 	†	†	†	†	T-		11		L]:::	750' to 760' as above, but with decreasing clay content, increasing fragment
		†	l	T	ļ <i>-</i>	Γ		T	T	Г]∵∶	size, coarse gravel with sand.
	0.31	\vdash	l	T	0			Π				5%	5%	5%	<u>.</u> :	1
	3.3.													\Box	∤∷ ∵	
760										Ĺ	<u> </u>		<u> </u>	<u> </u>	∤ ∷∶	770
					<u> </u>	_	<u> </u>	₋	1-	L	<u> </u>	\vdash		 	∤ ∷:	760' to 770' as above.
		<u> </u>	<u> </u>	<u> </u>	<u> </u>	 		一	╀	Ͱ	├—		-		} ∷:	
1	0.29	 	!	 	-0	-	<u> </u>	\vdash	\vdash	╀		5%	5%	5%	 :::	1
		1-	\vdash	├		├	-	\vdash	+-	+-		1-	┢	 	∤∷ :	1
770		 -	 	 -	 -	 	 	 	†	†	 	† <u>-</u>	 -	†		770' to 790' ANDESITE; dark gray to gray, brown, clay content vanes, solid
1	 	†	 	1	T	T			T	T		1		Г		and decomposed material, appears to be fractured.
1	0.25	1	Г	T	1		L —	1	Γ	Γ		10%	0%	0%		
														ļ_		
780						L			L	L	_	↓_		\vdash		780' to 800' ANDESITE, dark gray to gray, brick red, high clay content, solid
1			<u> </u>	<u> </u>	ļ	<u> </u>		4_	╄	L	ļ	1	_	ـ	- 355	and decomposed material, brick red clay zone.
1		<u> </u>	\vdash	 _	 	 	<u> </u>	1	├-	├		1	-	+_		
1	0.27	1_	 	 -	0	₩	ļ	+	-	-		20%	0%	09	133	
L		 	ļ		 -	\vdash	ļ	┼	+	╀		╂		+		
790	ļ	 	} -	 -	 	 -	 	╁	 	†	 	+		 	1000	790' to 910' MULTICOLORED SAND AND GRAVEL, with cobbles, gray to
1	 	1	+	+-	 	†	 	t^{-}	t	t	 	1	 	t^{-}	†∷:	dark gray, gray green, brown, red brown, rounded to angular, mixed
1	0.14	1-	\vdash	1	10	†-	— —	T	T	†	\vdash	5%	5%	109	[]∷	lithologies, clay content varies. 790' to 800' is a medium gravel with sand some fragments have natural erosion surfaces.
1		+	 	 	十一	t		T	T	T	Ι	1	Г	1]:::	Some ragineris nave ratural erosion surraces.
800		1	T^{-}	T	<u> </u>	I			I			L	L]:∷	
1 -								I	${\sf L}$	Г				1	. :::	800' to 810' as above, but sand and gravel.
1				<u> </u>	L	<u> </u>	ļ	↓	丰	Ļ	 	↓	<u> </u>	↓_	- ∤ ∷:	1
1	0.20	<u> </u>	<u> </u>	L	0	 	<u> </u>	↓_	╀-	╀-	一	5%	5%	109	ધ :::	: {
1		ļ	├	\vdash	<u> </u>	╂	 	+	╁	\vdash	├	+	-	┼	-{ ∵:	:
810		· -		 		 		+	╁	+	 	+	 		- ∷	810' to 820' as above.
1		1-	┼	+	 	\vdash	 	+	╁	╁	I^-	+	 	T	†∷ `	
1	0.29	1—	┼	+-	-	+	 	+-	+	۲	 	5%	5%	159	ե∣∵	3 1
1	J.23	+-	t^-	\vdash	†	†	T	T	T	T	 	1	1	T	7 · ·	:
820	 	1-	†	†	T^{-}	1	1	I	1	Ι		\mathbf{I}^{-}		oxdot]::	
1 -								I	I	I			匚		_ ∷	820' to 830' as above.
1						匚	<u> </u>	<u> </u>	\perp	1	乚	╄-	$ldsymbol{f eta}$	1-	-1:::	; <u>}</u>
1	0 16	<u> </u>	<u> </u>	L	0	1_	<u> </u>	\bot	1	1	1-	5%	59	6 109	<u>*</u> ∵	:}
		1_	 	<u> </u>		↓_		4	+	╀	1-	-		+-	-∤∷	:}
830			. .	↓					+	+-	· -	-+	 -	 	-∤∷	. 830' to 840' as above but clay and fine sand content increasing, and larg
1			┼	+-	 	+-	 	+	+	+	┼─	+-	\vdash	+	∃ ∷	chips to 1", sand and coarse gravel.
1	0.30	5	+-	+-	-	+-	 	╁╌	+	+	+-	10%	50	6 159	-, •	:
1		,	┼	+	+ "	╁╌	 	+	+	+	\vdash	+:-^	†	1"		:1
840	0.2	4	+	+-	1	+	 	+	十	十	\vdash	+-	t^-	1	⊤ ∷	<u> </u>
104V		•											1			

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	Callamont . Callahan	Ranch I	-	ct Nur Drilli		Ontling	, Ron Behr	andit	Pa	_	8 Date	of	8 <u>Time</u>			
Coordina	ates:			Rig:	LM-120					art	4/3/2	2001	3:00/			
Elevation Total De					: 38", 29" † Bentonii		d, Reverse	Circu			4/6/2	2001	11:4	5AM		Geophysical Log: NO
T OZZI DE	Pen. R.	Circu	lation	Ĺ			Samples	L		••						Description
	_		Ι ε		nse	Г		_	Г	Γ				8	П	
Depth	Penetration Rate, in	1000	Refilm on	Ateration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Stratforaphy	Symbol	polog	nscs	Clay%	Silf%	3	Graphic	Note: Describe cuttings (including observations from dniller, rig and shacker screen. Also note changes in dnilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation.
	25.	-	<u> </u>	+3	<u> </u>	 	≤ &	1 6	10	13	-	 °	8	-	1	790' to 910' MULTICOLORED SAND AND GRAVEL, with cobbles, gray to
i	0.5	0								L					1∷:	dark gray, gray green, brown, red brown, rounded to angular, mixed
l	0,3	┈	┼	┼-	0	╂	 	┼	╀	╀	-	5%	5%	10%	∤ ∷:	lithologies, clay content varies. 840' to 850' is a sand and gravel, decreasing clay, coarse chips to 1", some fragments have natural erosion surfaces.
850	0.0		1		1					L					∫ ∷:	
"-				\vdash			1			\perp	ļ	<u> </u>		ļ	::::	850' to 860' as above, but with increasing clay content, small chips to 1/4", sand with clay.
	0.5	 	+	╁┈	0	\vdash		╁	\vdash	╁╌	-	25%	5%	5%	 	Said will clay.
	0.5	5	†	\dagger	<u> </u>	T			t	t	t	20,0	1	"		
860					<u> </u>											
l	L		├	⊢	-	┼		├	╄	╀	 	-		├		860' to 870' as above, but with increasing clay content and increasing chip size, sand and gravel with clay.
1	0.3	+	+	+	0	+	 	+-	+	╁	 	30%	5%	10%	 :::	
1	0.4	5						1]::::	1
870	ļ	ļ	ļ	ļ	ļ	ļ	ļ	ļ	1	ļ	ļ	 	ļ	ļ	∤ ∷∶	070(to 000) as about h. A. alb. doors
	0.6	,	┼	\vdash	 -	╂	ļ	╂	1-	1-	<u> </u>	├	 	-	::::	870' to 880' as above, but with decreasing clay content, increasing fragment size to 1", large chips of gray green material, coarse gravel with sand
	0.6.	1	╁	一	1	╁╌	 	╁	╁╴	I	-	15%	5%	5%	:::	
ļ	0.8	3														
880_		1_	ــــــ	<u> </u>	<u> </u>	ــــ		╙	L			<u> </u>	_	<u> </u>	∷∷	0001-000
	0.4		+	-		-		┢	\vdash	┢	_	-	-			880' to 890' as above, but decreasing fines content, coarse gravel.
	U.4.	\top	1	†	0	_	<u> </u>	1		H		5%	5%	5%	::::	
1	0.50	·							L	L					[:::	
890		· 		 	ļ	 -	ļ	 -	ļ	├	ļ	ļ	ļ	ļ	{::::	890' to 900' as above but increasing clay content, decreasing fragment size,
•	0.7	1	+-	<u> </u>	 		ļ	 	╁	┢				 		sand and gravel.
ļ					3							15%	5%	10%]	
	1.25	·	ऻ—	ļ	<u> </u>	<u> </u>		<u> </u>	<u> </u>	L	<u> </u>	_		<u> </u>		
900		+	1	╁		┢		├	┝	┝	-	\vdash	-			900' to 910': as above .
	0.45	,	†	 		\vdash			┢	t		-	l	 		
					0							15%	5%	10%	::::	
	0.62	<u>'</u>	 	\vdash		 		_	L	L	_	-	<u> </u>	<u> </u>		
⁹¹⁰ —		┼	╁		 	-		├	┝	⊢	┝	 	<u> </u>	├		TOTAL DEPTH (TD) = 910' ON 04-06-01 @ 11:45AM
		 		t^-	l			\vdash	t	H	 		\vdash	_		
1			<u> </u>]
920		 	 	<u> </u>		 		 	-	1	<u> </u>	ļ	ļ		ļ	
320 —	 -	\vdash	+	 	 		-	\vdash	1-	\vdash	\vdash	\vdash	-	\vdash	 	
		┞-	<u> </u>	<u> </u>	ļ	_			_	Ц	<u> </u>	 	ļ	ļ	_	
930		-	-	-				-	-	H	-			 		
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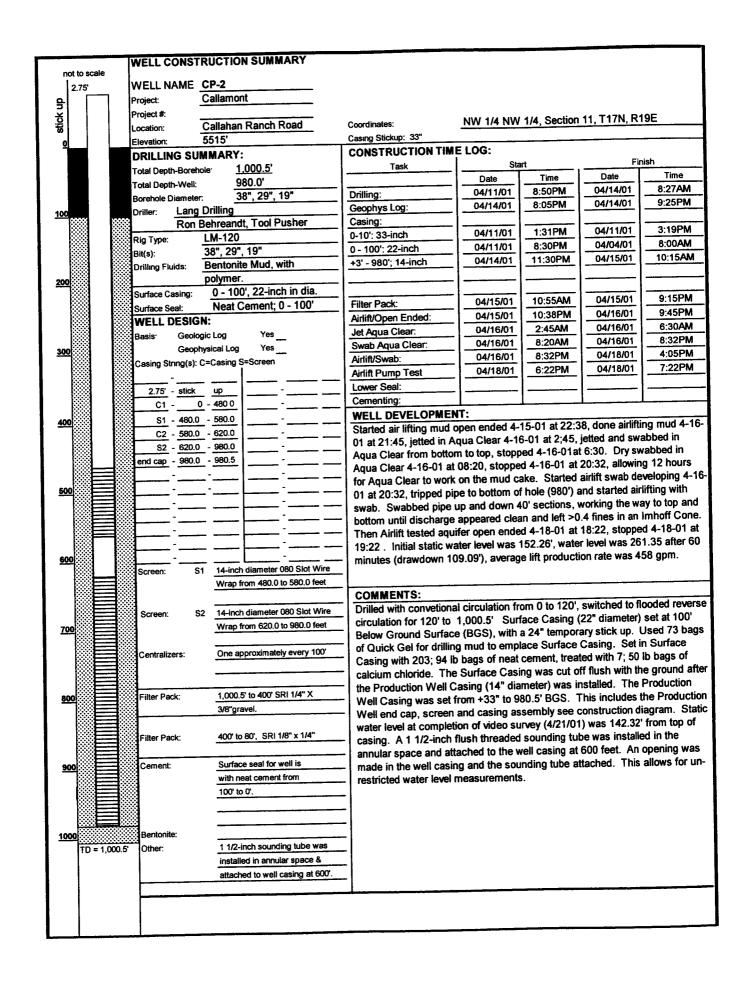
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Aquifer Test Data Test Well CP-1 Observation Callamont Project Well Dist. Pump On Location Callahan Ranch Road Well Dist. Pump Off Hydrogeologist DC, DC and RR. Well Dist. Last Record Pump Contractor Lang Drilling Comments: water level measurments taken during development of CP-1 Page _1 of_2 Water Quality Discharge Water Level Time Comments TDS Turbidity/Sand Temp pH EC Rate Total(sec) Well CP-1 Well CT-1 Well Totalizer X_ Date/Clock water levels measured in 387 gpm 283 185.11 4-9-01, 08:25

4-9-01, 08:25		283	165,11		307 gpiii		 				E d during development in
08:55			185.56				 				r-1 during development in
09:43			186.32				 				P-1.
11:15		283			340 gpm		 				
10:45			187.14				 				
12:48		283	189.39		387 gpm	ļ					ow rates are based on
13:37			189.94				 			m	ud tank volumn measurments
14:15		238			387 gpm						
15:38			190.91							-	
17:25		238	191.19		387 gpm		 	\dashv			P-1 water levels based on
18:30		267	191.41		387 gpm		 				r pressure measurments
19:26			192.71				 			or	n drill rig.
23:15		240			387 gpm		 				
23:40			195.60				 				
4-10-01, 01:40			196.10								
03:40			196.80								
06:00			197.40								
08:50			197.21				 				
11:30			196.80								
12:50			194.07								
13:55			191.04		150 gpm						
											-10-01, 16:26 pump off.
16:30			186.09						l	tr	ipping out development swab
16:34:00	 		180.11								
16:34:45			179.33								
16:35:30			178.98								
16:36:00			178.71				<u> </u>				
16:37:22			178.50								
16:38:07			178.00						l		
16:39:38			177.50								
16:41:26	 		177.00								
16:43:44			176.50				<u> </u>				
16:45:39			176.00								
16:48:46	1	1	175.50				i				
16:50:54			175.00			1					
16:54:08	 	1	174.50								
16:57:09			174.00								
17:02:53			173.00								
17:02:41		1	172.00								
17:30:00		 	169.87	1		1				t	ripping in open ended for
18:00:00		 	166.43	1						[airlift test and to clean out
18:30:00			164.28			1					oottom of hole.
10.55.00		 	1			T					on 4-11-01, swl = 144.98'
	 	 		 	1	1					at 5:14PM, in CT-1.
	 	 	1	 	 	1					

Aquifer Test Data												
Project Calamont Test Well CP-1 Observation												
Location	Callahan Ranch Road				Pump On	М	Well Dist					
Hydrogeologist DC, DC and RR.					11.12							
Pump Conti	ector	Lang Drill	Last Record Well Dist rifiting of CP-1, original water levels taken from						Dist.			
Comments:	water lev	el measu	ments take	en during a	irlifting of CP	-1, orig	inal water lev	<u>vels tak</u>	en fi	om		2
	the drill t	able, the a	adjusted by	4.67 feet t	o ground lev	el.						Page _2of2
Time	Time Water Level					Discharge			ality			Comments
Date/Clock	Elapsed	Well CP-1	Well CT-1	Well	Totalizer X	Rate	Turbidity/Sand	Temp	ρН	EC	TDS	
4-10-01	0:00:00				487 gpm							start up swi = 161.76'
	01:42	150.03						<u> </u>	├ ─	L		waited for system to unload.
	01:53	150.53							↓	 	-	elapsed time is in minutes
	02:30	151.48						ļ	ļ	lacksquare		and seconds from on time.
	03:00	156.53							↓			
	03:40	165.34							 			flow rates are based on
	05:00	196.34				ļ			ļ			mud tank volume measurments
	05:30	201.29						ļ	—			
	06:00	202.63				L			1_			
	06:30	203.68				 		 	↓_			
	07:00	204.23							Ļ.			
	07:30	203.68				<u> </u>		ļ	<u> </u>			
	08:00	204.73				<u> </u>			<u> </u>			
	08:30	205.78				<u> </u>		<u> </u>	<u> </u>			
	09:00	206.93				L	<u> </u>	<u> </u>		<u> </u>	 	
	09:30	208.63				J		<u> </u>				
	10:00	 							丄			
	11:00	211.08							<u> </u>		L	
	12:00							L	1_		<u> </u>	
	13:00	213.49							<u> </u>	L		
	14:00	214.34							<u> </u>		<u> </u>	
	15:00	215.05				<u> </u>		ļ			ļ	
	17:00	216.19				<u> </u>					!	
	19:00							<u> </u>				
	21:00										ļ	
	23:00										<u> </u>	
	25:00									<u> </u>		
,	27:00								\perp		<u> </u>	
	29:00									<u> </u>	<u>L</u>	
	31:00	 										
	35:00				480 gpm					<u> </u>		
	40:00	 	1	1					$oldsymbol{\mathbb{L}}$			
	45:00	 				T						
	50:00		†		1							
	55:00		 		1	1			T			
	60:00		1	1			1		T			
	1 35.00	227.04				1	1	1	T	\mathbf{I}^{-}	\mathbf{I}^{-}	on 4-11-01, swl = 144.98
	 	 	1	†			1		1			at 5:14PM, in CT-1.
	 	 	 	 			T	T	T	T	1	
	1	 -		1					T	T	T	
	+ -	 	 	1		1	1	T	十	1	1	
	 	 	1		 	1			1		1	
	 	 	 	1	 	-			1			



BOREH	OLE LO	G	Owne	er:					We	al Nu	mber:	:	CP-	2		
Project C	Callamont		-	ct Nun					Pa	ge		of	9			
	Callahan I tes: NW 1				er: Lang () LM-120	-	Ron Behra	andt	Sta		<u>ate</u> 4/11/	2001	<u>Time</u> 8:50f	PM		
Elevation	5,515'			Bits	38", 29"	, 19"			Fin	ish:		2001				
Total Dep	th: 1,000.9 Pen. R.		lation	Fluid	t: Bentonit	_	i, Reverse Samples	Circu	latio	<u>n</u>						Geophysical Log Yes Description
-			T	+	9	<u> </u>	Milipies		Т	П		I	1	T	T	Description
Depth	Penetration Rate, In	and to be	Refirm one	Alteration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Stratignaphy	Symbol	Lithology	SOSO	Clay%	Silf%	% pue saud %		Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation.
	0.12.3				E	2	> 3	L.	S				- 8		1:::	0 to 90' SURFACE ALLUVIUM, unconsolidated, sand, gravel, cobbles and boulders, dark gray to gray, brown to red brown, white, subrounded to platy,
	0 3	3		-	0			F	F			15%	20%	10%		contains naturally eroded surfaces, mixed lithologies of predominantly granodionite and andesite, occasional tuff or sittstone, clay content vanes,
10		ļ		1		!		<u> </u>	ļ			_		ļ		clay is brown. 10' to 20' interval is as above, increasing andesite, decreasing tuff or
			1													siltstone.
	0 33	3		<u> </u>	0	_		_	ļ	Ш		10%	15%	10%		
20		┼	 	╂	<u> </u>	├-	<u> </u>	<u> </u>	⊢	Н		ļ <u>.</u>		├		
20-		t	+	╁	 	\vdash	 	 	1	Н			-			20' to 30' interval is as above.
										П]:::	
	0.29	4	 	╀	0	↓_		<u> </u>	-	Н		10%	15%	10%	∤∷:	
30		╁	╂	┢	-	┼		-	┝	Н	-	_	-	\vdash	∤∷ ¦	
~~		<u> </u>	<u> </u>	<u>†</u>		<u> </u>		<u> </u>	<u> </u>	Ħ]∷	30' to 40' interval is as above, but decreasing fine content
										П					:::	į
	0.29	4	↓	├	0	ļ		<u> </u>	<u> </u>	Н		5%	10%	10%	∤:::	
40		+-	╁	╁╌		\vdash		-	┝	Н			-	├	∤∷:	
~-						匚				П					:::	40' to 50' interval is as above.
i		<u> </u>	 		ļ	ļ			ļ					_		
	0.77	 	 	├	0	-			-	Н		10%	15%	10%		
50		\vdash	1	┼┈		┢			┢	Н		-	\vdash	 		
															::	50' to 60' interval is as above.
		 	—	-		ļ				H	_	450	2000	2001	:::	
	0.45	 	┼	-	0	┢		\vdash		H		15%	20%	20%	†:::	
60] ∷ [
		<u> </u>	ļ	<u> </u>		L.			_	Ц		L	ļ	_		60' to 70' interval is as above but fines content decreases, material is rounded to subrounded, predominantly andesite and granodiorite.
	1.00	_	├	}	1			ļ —	H	Н		5%	504	20%	:::	rounded to occordances, processing any anisotronic and granded the
	1.00	 	+-	\vdash	<u> </u>	-		\vdash	H	Н		370	370	20%	:::I	
70															∷	
		ļ		ļ						Ш			<u> </u>	 	∷	70' to 80' interval is as above
	0.40	ļ	├—	┢						Н		504	504	20%	:::	
	0 40		 	1	0				\vdash	H		370	5%	20%	∷:	
80															[∷:	
		-	-	\vdash		\vdash		-	Н	Н		_		_	[:::	80' to 90' as above.
-	0.62	\vdash	 	\vdash	0	\vdash		-	\vdash	H		5%	5%	20%	[∷:	İ
	3.02		L		- _				H	H				<u> </u>	[:::	
90		<u> </u>		<u> </u>						П					[::]	
i i		 	 	-	ļ	\vdash			\vdash	Н				 	:::	90' to 250' SAND AND GRAVEL, unconsolidated, dark gray to gray, brown to red brown, white, occasional homblende, quartz and mica, rounded to
ŀ	0.62				0	\vdash		-	\vdash	H		5%	10%	20%	[::	subangular, contains naturally eroded surfaces, mixed lithologies of
															[∷·]	predominantly andesite and granodiorite, clay content varies.
100						Ш				Ц					:::	400 to 440 integral is no about
}			 	\vdash		$\vdash \vdash$			Н	H				 	::: 	100' to 110' interval is as above.
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]∷ <u> </u>	
110		ļ	ļ	ļ		 								 	:::	110' to 120' interval is as above.
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	1.67				0					_		10%	10%	20%	:::	
				П											∷:	
120		<u> </u>												L	٠٠.	

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	OLE LO	Œ		Owne							ll Nur			CP-	2		
-	Callamont Callahan	Do:		-	t Nun		Trilling.	Ron Behra		Pag	pe 2 Da	2 1 te .		9 Time			
	ites: NW 1					LM-120	-	(COLL DOLL)		Sta				8:50F	PM		
Elevation	: 5,515'				Bits:	38", 29"	', 19°			Fini	sh: 4	4/14/	2001	8:27/	AM.		
Total De	oth: 1,000.				Fluid	Bentoni		i, Reverse	Circut	ation	1						Geophysical Log: Yes
	Pen. R.	4	irculat	ion	₩	<u> </u>		amples	<u> </u>	_				_		T.	Description
Depth	Penetration Rate, in	TOTAL STATE	Inject, gpm	Return, gom	Alteration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Stratigraphy	Symbol	Lithology	nscs	Clay%	Silf%	fine sand %	Graphic	Note: Describe cuttings (including observations from driller, rig and shacker screen Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation.
	883	4	三	<u> </u>	_₹	<u> </u>	₹	\$ ₫	5	Ò	취	<u> </u>	Ö	ळ	€	1. 0	90' to 250' SAND AND GRAVEL, unconsolidated, dark gray to gray, bro
	<u> </u>	+			╁		\vdash		Н	H	H				 	1:::	to red brown, white, occasional homblende, quartz and mica, rounded
	1.1	1				0							10%	10%	20%	! ∵∷	subangular, contains naturally eroded surfaces, mixed lithologies
		I									Ц				<u> </u>	l::::	predominantly andesite and granodionte, clay content varies. 120' to 1 interval same as 110' to 120' interval
130					 	ļ	 -	ļ	├ -		┝╍┼		ļ	ļ	ļ	 :::	130' to 140' as above
		╁			1-		+		\vdash		Н				<u> </u>	{:::	130 to 140 as above
	11	1			┼	0	+			-	H		10%	10%	20%	$ \cdot :\cdot $	
	<u>'</u>	+			 	<u> </u>	 		\vdash	Н	H		10%	1.0,20	1-0%		
140		t	_		1		1		\vdash	-	H		ļ —		t		1
		1]::::	140' to 150' as above, but increasing clay content, mostly round
		Ι									\coprod			匚		[∷:	fragments, sand with clay
	0.8	3			<u> </u>	0	_		Ш		Ц		35%	10%	15%	∤ ∷:	
		1			L	ļ	<u> </u>		\sqcup	Ш	Ц		<u> </u>	<u> </u>	<u> </u>	 ∷∴	
150		- -			 	ļ	ļ		 		├ ∤		ļ	ļ	ļ	 ∷ ∵	AFON to ACON internal to an object to the second se
	ļ	4			<u> </u>	ļ	 		\vdash	Ц	${oldsymbol{arphi}}$		ļ	<u> </u>	<u> </u>	 ∵∷	150' to 160' interval is as above, with increasing platy fragments, sand w gravel.
	L	+			├ ─	<u>.</u>	ļ		H		H			<u> </u>		∤ ∷∷	gravei.
	0.6	2			-	0	-		 		Н		20%	5%	15%	1	
	<u> </u>	+			├		₩		-1	_	Н		 -	-	 	∤ ∷ ∶	
160		╀			├	 	┿	<u> </u>	Н	_	Н			┢	├	 	160' to 170' as above, increasing platy fragments, large rounded coa
		+			 		╁		Н	\dashv	H		 		 	¦∷⊹	chips to 1/2", sand and coarse gravel with clay.
	1,2	5			1	0	 		\vdash		+		20%	10%	10%	! ∷:	
	1.2	7			1	Ť				_	\vdash			1.0%	1	 .:-:	
170		+	\neg		\vdash		T		Н				1		†	1:::	1
		†			1		†							<u> </u>		∫ ∷: [170' to 180' as above but decreasing clay content, increasing amount
					<u> </u>								L]:∷	platy andesite fragments.
	1.1	1			<u> </u>	0	<u> </u>		Ш		Ш		5%	5%	5%	! ∷:	
		1			<u> </u>		_				\sqcup		<u> </u>		ļ	$ \cdots $	
180		1			!		 		Ш	_	Ц		<u> </u>	_	ـــــ	∤ ∷∴	
		4			ļ	ļ	<u> </u>			_	Н		ļ	ļ	ļ	 ::::	180' to 190' interval is as above, but increasing clay content, decreasing c size, abundant quartz and granodionte, sand with clay.
		+			├—	<u> </u>	├ ─		Н		\dashv					∤ ∷:	and granteness, seems may see,
	1,1	4	1		├—	0	╁		-	_	\vdash		45%	15%	15%	1	
190		╁			├-	 	╂		 		\vdash		├		-	{:::·	
190		+			 	 	 		╂╌╌┨				 	 -	 	: :::	190' to 200' interval is as above.
		十			 		╁┈		\vdash		\dashv				 	† ∷:	
	0.70				 	0				_	\dashv		45%	15%	15%	:·:·	
	J	7	$\neg \dagger$		t		1			\neg			٣	<u></u>	T -	[:::	
200		†			T		1		П		\top		l –		T]∵∷	
_		T									\Box					1:::	200' to 210' interval is as above, but with decreasing fines content.
		\mathbf{I}											L			 : :::	
	0.30	6	\Box			0	oxdot		Ш		$\perp \! \! \! \! \! \! \! \! \! \! \perp$		25%	15%	10%	∷:	
		Ţ	[_		Ш		Ш				L_	L.	<u> </u>	$ \cdot $	
210		1.			ļ		 		ļļ				ļ	ļ	ļ	∷:-	
		+			-	ļ	-			_	+		-	ļ	├-	{:∷	210' to 220' interval is as above.
		╁			-		\vdash		$\vdash \vdash$		+		10%	EU	10%	∤ ∷:	
	0.78	4	\dashv		 	0	\vdash		$\vdash \vdash$	-	+		10%	5%	10%	¦::::	l
220		+			 	 	+		\vdash		+		\vdash		1	 ∷∴	
		+			\vdash		+		┝─┤	\dashv	+		 	Ι	t^{-}	[∷:	220' to 230' interval is as above but increasing clay content, decreas
		\dagger	\dashv		T				H	7	\sqcap		\vdash	Ι	T	 ∵∷	granodiorite content.
	0.77	7			1	0			\Box				15%	5%	10%	\cdots	
		T	\neg		Ι				П	\neg	\sqcap			<u> </u>	1]:.::	
230		†			Γ						\sqcap]∵∷	<u></u>
		1														$ \cdots $	230' to 240' interval is as above.
		I							Ш		\Box					[∷∷	
	1.25	5				0			П				20%	10%	10%	: ∷	
		\perp			<u> </u>		$oxed{oxed}$		\coprod					<u> </u>		[::::	4
240		Г			L			<u> </u>	L_I	l			L	<u> </u>	<u> </u>	<u></u>	

BOREH	OLE LC	G	-	wner.						Wel	Nur	nber:		CP-	2		
Project: C	allamont		F	roject	Numi				_	Pag				9			
Location.						-	illing, i	Ron Behra	ndt	St		<u>tie.</u> 4/11/2	I 2001 :	<u>ime</u> 8:50F	M		
Coordinat		/4 Se	ec. 11		-	LM-120 38", 29",	19"						2001			i	
Elevation: Total Dep		5'						Reverse (Circula								Geophysical Log: Yes
1 2 2 2	Pen R.		rculati				_	emples									Description
Depth	Penetration Rate, in		hject, gpm	Return, gpm	Alteration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Stratigraphy	Symbol	Lithology	nscs	Clay%	%IIS	fine sand %	Graphic	Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation.
Ŏ	205	1	트	<u> «</u>	_	R C	2	>5	<u> </u>	S					_		90' to 250' SAND AND GRAVEL, unconsolidated, dark gray to gray, brown to red brown, white, occasional homblende and mica, rounded to
	1.0	╣	\dashv			0							20%	10%	10%		subangular, contains naturally eroded surfaces, mixed lithologies of predominantly andesite and granodiorite, clay content varies. 240' to 250' is
									_	-	Н				├	:::	sand with clay.
250									 		╂╌╂		 		 		250' to 290' CLAY, medium plasticity, slow dilantancy, brown to dark brown,
		十								Г	П						gray to gray green, content of coarse materials varies, chip lithology varies,
1	1.2	5				0							50%	15%	5%		possibly gouge
1		Ι					ļ:			_	Ш				ļ		
260						<u> </u>			<u> </u>	<u> </u>	Ц			<u> </u>	├-		260' to 270' as above but with increasing clay content, increasing andesite
1		1			<u> </u>	ļ	\vdash		 	-	Н			 	+-		content.
Į.	L- <u>-</u> -	+			├	0	\vdash		 	\vdash	Н		80%	10%	59		
1	0.5	9	\dashv		<u> </u>	 	\vdash	-	\vdash	\vdash	Н		1	<u> ۳</u>	† <u> </u>		
270		+			 				T	\vdash	H						
1 ′′′					 -		†		†	†							270 to 280 as above but decreasing clay content, increasing granodionte
		╅			t —					Ι							and quartz content.
	0.6	2				0				L			50%	20%	109		
1		T							L	L			<u> </u>	_	 	-////	
280		\Box					_	<u> </u>	1_	┞	╀		 	<u> </u>	┼	-	280 to 290' as above, mixed lithologies.
1		4	-		├-	<u> </u>	╀		╀	╄	╀		├	┢	╁		200 to 250 as above, mines included.
		+			├-	0	╁		╁╌	╁	╂╌		50%	109	6 109	.////	
	0.0	" +			╁╌	ا ' ا	┼-	 	†	t	1	_	1	1	1		
290		十			\vdash	t	\top		1	T	1		1		<u> </u>		
	†									Γ						$\exists : : :$	290 to 400 SAND AND GRAVEL, unconsolidated, dark gray to gray, brown to red brown, white, occasional homblende, quartz and mica, rounded to
1								<u> </u>	_	┖	L		<u> </u>	↓	-	- 1:∷	subangular, contains naturally eroded surfaces, mixed lithologies of
l	0.	33			L.	0	_	ļ	╄	1	╄	<u> </u>	20%	59	6 109	ધ∵ઃ	predominantly andesite and granodiorite, clay content varies 290' to 300' is
	L	4			-	ļ <u> </u>	-∔	 	┼	╀	+	-	<u> </u>	╀	+	-∤∷:	sand and gravel with clay.
300		+			┢		+-		+-	╁	╁	\vdash	+-	一	+	1	300' to 310' as above, but increasing clay content, smaller fragments, sand
		+			-	-	╁╌	 	╁╌	+	+		 	1	+	1:::	with clay.
	0.	50			1	0	+-	1	\top	t	†	T	30%	109	6 15	% ∵	•
i	<u> </u>	+								I						_{:::	
310					Ι				<u> </u>	1.	1	ļ	↓	ļ		-1∷	Out the 2000 are about but decreasing glav content
-		\perp			<u> </u>	1	1	ļ	1-	+	\perp	\vdash	\vdash	╀	+	-∤∷	310 to 320 as above but decreasing clay content.
		4			╄	 	+-	┼—	+	+	+	-	-	109	% 10°	∦⊹	:[
1	0.	67			+-	 °	╁	 	+-	+	+	\vdash	20%	1 10	~ 10	"¦∷	:[
320		+		 	\vdash	 	十	 	+-	+	十	\vdash	\top	1	T	7::	
1320 -	 	+		├──	†	1	+		1	T	T]::	320 to 330' as above but increasing clay content, increasing granodiorite
1		+					Ι		I	Ι	Ι			L	Ļ	J∷	content.
	0.	50				0				1		<u> </u>	40%	15	% 15	<u>%</u> ∴	
ı		I		\Box	\perp	<u> </u>	1-	 	4	1	1	1-	+-	╁┈	+-	-∤∷	: [
330				ļ	 		+	 	-+	+-	+-	 	+	+		Ⅎ∷	. 330' to 340' as above but fragments increasing in size to 1/4", sand and
	<u> </u>	+		 	+	+	+	1	+	+	+	1	+	T	†-	† ∷	gravel with clay.
	-	83		┢	+	-	\top	1	\top	十	十	1 –	409	6 15	% 15	‰]∴:	1
	-	~		\vdash	T	1	\top		_	_	T	\mathbf{I}^{-}			\perp]::	
340		+			T		I			\perp	I				\bot	_ ∵	:
_		I			I		Ţ		\perp	T	T	1	4	╄	+	∹⊢	340' to 350' as above.
		Ţ		_	\perp		4	_	\bot	4	4-	1-	1-	1	. .	_ ∷	31
	1	11		<u> </u>	4-	0	+-	_	+-	+	+	+-	409	6 15	% 15	* ∷	:1
		-		ļ	+-	+-	+-	+	+	+	+	+	+-	+	+-	Ⅎ∷	<u> </u>
350	+			 	+		-+	+	+-	+	+	╁╌	+	+	+-	-	. 350' to 360' as above but decreasing fines content and chip size, sand with
1	-	+		-	+-	1	\top	1	\top	1	十	T	1	T		∄∷	clay
1		67		\vdash	T	-	1	1	T	7	1	1	209	6 10	% 10	% ∵	3
I		\dashv		T^-	T		I		I	1			L	\bot		_ ∷	3
360		7			Τ	T	T	1		Г	Γ					Ŀ	

BOREH	OLE LO	<u>G</u>	Owner	:			***************************************		We	# Nu	mber.		CP-	2		
Project C			Projec			-i#	Bon Bok-	.n.#	Pag	-	4 ate		9 Time			
	Callahan F les: NW 1/				r: Lang D LM-120	ı mıng,	Ron Behra	ai Ruft	Sta			2001		M		
Elevation	5,515'			Bits:	38", 29",						4/14/	2001	8:27A	M		Court model on Ven
Total Dep	th: 1,000.5 Pen. R.	Circula	tion	Fluid	Bentonite		i, Reverse amples	Circul	ator	1						Geophysical Log: Yes Description
			T		9.6	ΙŤ	T T			П						
Depth	Penetration Rate, in feet/min	inject, gpm	Retum, gpm	Alteration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Stratigraphy	Symbol	Lithology	SOSA	Clay%	Silt%	% pue seul	Graphic	Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation.
	ш и г	ᅼ						Ľ	Ľ			Ľ				290' to 400' SAND AND GRAVEL, unconsolidated, dark gray to gray, brown
						<u> </u>		<u> </u>	L	Н		10%	10%	15%		to red brown, white, occasional homblende, quartz and mica, rounded to subangular, contains naturally eroded surfaces, mixed lithologies of
1	0.77	╁─	 	_	0			┢	H	Н		1070	10%	1570		predominantly andesite and granodiorite, clay content vanes. 360' to 370' is
370		<u> </u>				<u> </u>]:∷I	sand with clay.
		<u> </u>	<u> </u>		ļ			├		Н			<u> </u>		$ \cdots $	370' to 380' as above but decreasing clay, fragment size increases up to 1/4", predominantly andesite, clay is red brown to brown.
1	0.00	├			0			┼	H	Н		5%	5%	10%	·:::	, , , , , , , , , , , , , , , , , , , ,
	0.62	 	 		-			 		H		J."	" "	1.5%	:::	
380				E											∷:	
									Γ	П					∷:	380' to 390' as above.
1		ļ	<u> </u>	ļ	L <u>-</u>	<u> </u>	ļ	 	<u> </u>	Н	_		-	400	:::	
	0.30	 	—		0	\vdash	 	\vdash	-	Н		5%	5%	10%	∷⊹	
390		-	 	\vdash		 	 	\vdash	+	H		 	<u> </u>	\vdash	[∷]	
 		 	t	l		t	 	†	 	t		İ	<u> </u>	<u> </u>]∷:	390' to 400' as above.
]:::	
	0.45				3				Ĺ	\Box	L	5%	5%	10%	:::	
						ļ	ļ	ļ	_	Ц				<u> </u>		
400		├	<u> </u>	<u> </u>		H	 	├	⊢	Н		-				400' to 450' ANDESITE, dark gray to gray, brown to red brown, solid and
		1	1	\vdash		 	 	1	 -	Н			<u> </u>	一		decomposed material, increased clay content, fragments increase in size to
	0.43	T	1		0	T	<u> </u>	1.	Γ	П		50%	0%	0%		a maximum of 1/2". 400' to 410' is decomposed material with solid material,
																high clay content, fragments up to 1"
410		ļ	ļ <u>.</u>	ļ	ļ	ļ		ļ	ļ			ļ	ļ	 		A40' to 420' as about but fragments up to 4/4" decomposed material
		 	├	\vdash		 	<u> </u>	├—	-	Н		├		├-		410' to 420' as above but fragments up to 1/4", decomposed material.
	0.46	 	 	-	0	\vdash	 	\vdash	╁╌	H		50%	0%	0%		
	0.40	†	 		- <u>*</u> -	 		T	1	Н		† 	<u> </u>	T-		
420																
							L	<u> </u>	L	Ц		<u> </u>	_	ļ		420' to 430' as above but decreasing clay content, increasing fragment size up to 3", solid material.
		ļ	<u> </u>	 		 	 	 	1	\sqcup			-	-		up to 0 ; come motorial.
	0.23	 		\vdash	0	\vdash	 	\vdash	\vdash	H		25%	0%	0%		
430		+	1	\vdash	L	 		\vdash	\vdash	Н		\vdash	 	<u> </u>	83	
""		†	1	 -		t	 	†	<u> </u>			<u> </u>				430' to 440' as above but with increasing clay content, clay is brown to red
																brown, coarse fragments to 1.5".
	0.50				0				\Box	П		30%	0%	0%	33	
		<u> </u>	ļ	<u> </u>		<u> </u>		ऻ_	 	Ш	<u> </u>	 	-			
440		1-		<u> </u>		\vdash	-	\vdash	-	Н		\vdash	-	-		440' to 450' as above but coarse fragments to 1"
		 	 			\vdash		\vdash	t^{-}	H		 			88	
	0.42		!		0	 		T	T	П		20%	0%	0%		
450		<u> </u>	ļ	ļ		<u> </u>	ļ	ļ	ļ			ļ	ļ	ļ		AEM IN 400 CAND AND COAVEL
				<u> </u>		-	-	\vdash	1-	\vdash	<u> </u>	 	\vdash	 	∷∷	450 to 480 SAND AND GRAVEL, unconsolidated, multicolored, rounded to subangular, contains naturally eroded surfaces, various lithologies also
	0.55	-		<u> </u>	1	 	 	†	-	H	\vdash	10%	10%	20%	∤ ∷:	andesite and granodionte, clay content varies. 450' to 460' is sand.
	0.33	 		 	<u> </u>	t	 	t^{-}	1	H	\vdash	† ***	T	† <u></u>	 ∷::	
460		t]:::	
								\Box		П					∷:-	460-470' as above but increasing clay content.
		ļ	L	_		⊢ -	 		-	Н	<u> </u>	450	4000	000	∷∷	
	0.32	\vdash	 		1		 	┼	-	\vdash		15%	10%	20%	 :::	
470		 —		 		┢	 	╁	-	\vdash		├	 		 ::::	
		 	ļ					<u> </u>	<u> </u>]:∷.	470' to 480' as above but subrounded to platy with increasing andesite
															 ∷∷	content.
	0.30				2	<u>_</u>		<u> </u>	_	Ц		10%	5%	15%	∤ ∷∷	
		<u> </u>				<u> </u>	 	-	1_		<u> </u>	 —		 	∤ ∷∵	
480		t	1			1	I	1	1	1	l	1	l	L	<u></u>	

BOREH	OLETO	G	Owne	-					We	Nu	mber:		CP-	2		
Project C		<u> </u>		t Num	ber)e			9	-		
	Callahan I	Ranch F				rilling,	Ron Behra	ındt		<u>D</u>	ate	2	Time			
	es: NW 1				LM-120	-			Sta	rt	4/11/	2001	8:50P	M		
Elevation:	5,515'			Bits:	38", 29",	19"			Fin	sh:	4/14/	2001	8:27A	M		
Total Dep	th [.] 1,000.	5'		Fluid	Bentonit	e Mud	, Reverse	Circul	ation							Geophysical Log: Yes
	Pen. R	Circul	ation			s	amples									Description
	5	Ε	<u> </u>	_	Rig Response (1 to 5)		ے	Ě						%		Note: Describe cuttings (including observations from driller, rig and shacker screen.
Depth	Penetration Rate, in	Inlect com	Return, gom	Alteration	Rest to 5)	Material	Water (pH,EC,T)	Stratigraphy	Symbol	Lithology	SOS	Clay%	SIIP%	fine sand %	Graphic	Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation.
្ន	9 8 8	=	<u> </u> &	₹	Ĕ.	ž	<u>₹ē</u>	ि	8	5		ō	ଞ	Щ	Ō	480' to 550' ANDESITE, dark gray to gray, brown to red brown, solid and
		-		├			 	├	⊢	Н		<u> </u>				decomposed material, clay content varies, sporadically fractured, fragments
				├	-	├		⊢	├	Н		10%	0%	0%		increase in size to a maximum of 2". 480' to 490' is solid material, low clay
	0.2	'	┼	 		├		⊢	-	Н		10%		- O 20		content, fragments up to 1/2".
490			+	┼		├				Н				 	63	
		+		 		 	 	†	t	t1				ļ		490' to 500' as above but increasing clay content, larger number of coarse
		+	+	\vdash		†			T	П						fragments to 1/4", decomposed material
	0.3	.†	 	\vdash	0	†			T	П		50%	0%	0%		
		'	1	1	<u> </u>			\vdash		П						
500		+-	+	+		\vdash		 	T	Н		 				
°°°-		+-	\vdash	†		+	 	\vdash	╁	Н		 		_		500' to 510' decreased clay content, fractured, fragments increase in size to
1		†	 	1		1	—	1	1	Н		T				a maximum of 1", chips are angular to platy, solid material, fine grained, non
	0.4		+-	1-	1	╁┈	 	 	H	Н		20%	0%	0%	188	vesicular.
	0.4	1	+	+	'-	\vdash	 	t	1	Н			<u> </u>	<u> </u>	옔	
		┼	\vdash	-	 	 	 	\vdash	1	+		 	-		133	
510			- 	 	}	 	 -	 -	 	 -		 	ļ	 		510' to 520' as above, but decreasing clay content
				}—	 	 	ļ	├	┢	Н			-	-		, , , , , , , , , , , , , , , , , , , ,
1		+	 	+-		-	ļ	├	\vdash	\vdash		15%	0%	0%	1335	
	0.2	<u> </u>	1-		2	ļ		 	١	\vdash		15%	0%	1 0%		
		<u> </u>	1_	<u> </u>	ļ	ļ		 	!	-		-	├	 	188	
520		<u> </u>	<u> </u>	ļ			ļ	<u> </u>	┖	Ш	_	Ь-	ļ	_		COULT FOOD as about
		1	ļ	ــــ	ļ	<u> </u>	ļ	<u> </u>	<u> </u>	H	ļ	L	 	⊢ —	2.0	520' to 530' as above
				ــــ	ļ	<u> </u>		├	L	H	<u> </u>	Ь—		_	9.5	
	0.2	4		↓	1	1_		ļ	_		<u> </u>	15%	0%	0%		
		1		ļ		1		ļ	L		<u> </u>		L_	<u> </u>		
530		1	<u></u>	<u> </u>	<u> </u>	1		ļ	ļ	ļ	ļ	ļ	ļ	ļ		
		1				<u> </u>		<u> </u>	┡	┡	ļ	ļ		<u> </u>		530' to 540' as above but with decreasing clay content, clay is large fragments to 2" of indurated to friable red brown clay, possibly fracture fill
		1	L	<u> </u>	L	ــــ		<u> </u>	↓_	<u> </u> _		<u> </u>	! —	ļ		inagments to 2 of indulated to shable red blown clay, possibly nactors in
	0.2	<u> </u>		<u> </u>	2			<u> </u>	<u> </u>	┖		10%	0%	0%	35.	
			<u>L</u>		L			<u> </u>	L	L		<u> </u>	L.,	L.		
540		<u> </u>		<u> </u>					丄	L		<u></u>	L_	L_		
		T	T	Γ	Ī							<u> </u>	<u>L</u>	L	144	540' to 550' interval as above
				Τ								<u>L_</u>		<u> </u>		
	0.2	3	П	Г	1							10%	0%	0%		
						Π				Ι.				i	13.7	
550						1		T								
		1	1	†	İ	T	T	T	T	T	[T	T	T		550' to 600': SAND AND GRAVEL, with cobbles, multicolored, gray to dark
		1	1	1		T			1	Т					1.∵	gray, gray green, brown to red brown, white, rounded to angular, contains
	1.0	1	1	+	0	T	 		t	Т	T	30%	20%	15%	1:::	naturally rounded surfaces, kithology is mixed, clay content vanes 550 to
		+	T	1-	<u> </u>	1	l	Г	t	П	Γ	Г	T	T	1∷:	560 is a sand and gravel
560		†	T	†	 	1	 	\vdash	T	1	 		T	T^-	1∷∙	
TTT -		†	1	t		T	 	1	T	1				T	1∷:	560' to 570' as above but occasional brick red fragments, clay content
		+	1	1	 	T	†		t	1		Π	1		1	increases, clay is brown.
	1.0	1	†	1-	0	t^-	T		T	T	—	35%	25%	29%	1:::	
	1.0	+-	+	1-	╁┷	†	 	1	†	T	_	† 	† 	† ^	∷:	i
570		\vdash	+-	+-	 	-	 	!	t	Н		\vdash	1	\vdash	1:::	i
3′0				 	 	 	 	 	 	†		†	† -	 	1.::	570' to 580' as above but with decreasing clay content, clay is red brown
		 	+	╁	 	1-		†	H	1	1	1	 	t^-	1∷∹	and gray green, predominant lithology is granodionte
		,	+-	+	-	+		┼	1-	1	 	20%	100	10%	ქ ∙.∵	
1	0.7	4	+	 	0	+-	 	╂	╁╌	╁	 	120%	1.07	1.0%	1:::	<u> </u>
	·	+-	+	+-	 	 	 -	\vdash	⊢	╀	\vdash	 	┢┈	+-	∤ ∵:	Į.
580		┼	┼	┼	 	┼	 	₩	╀	⊢	-	\vdash	+-	┼	∤ ∷⊹	580' to 590' interval as above but with increasing clay content, clay is gray.
		+-	┼-	 -	 	 		+−	⊢	╂	1	╂	 -	┼	∤ ∵∷	1000 to 000 lines res as above out with stoleraring only contour, only to gray.
1		1-	 	₩	 	⊢	 	╀	╁	╁┈	 	-	1	1	∤ ∷∵	
	0.8	3		↓	0	 		├ —	┼	╁	-	30%	15%	15%	4:::	
		1_	↓	↓ —		├ -	 	 —	-	-	Ь-	 	 	┼—	∤ ∷∵	ŀ
590					 	 	 	ļ .	 	+				 -	- 1∷∹	COU to COO! as about but with insmaning also pertent fragment size
		<u> </u>	_	1_	ļ	1_		 	1	1_	!	1-	—	1-	-{ ∵	590' to 600' as above but with increasing clay content, fragment size medium, decreasing fragment content.
		 	_	 	L	1_		 	1_	╀-	L	1-	 	1-	∤ ∷∴	шации, частавну наушов солов.
	0.4	3	↓	 	0	L _		!	1_	1	L	40%	10%	109	4:::	i
1			L			L		乚	L	L	<u> </u>			<u> </u>	∤ ∷∶	1
600			Γ			[]	I	1	1			1	1	1	∤. ∵∙	<u> </u>

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BORE	HOLE	LO	3	Owne	er.					W	el N	umber	·	CP	-2		
	Callamo		_	Proje	ct Nur	nber:					ge		of	9	_		
Location	n. Callahi	an R	anch R	d.	Drille	er: Lang (Drilling	, Ron Behr	andt		_	ate		<u>Time</u>			
•	ates. NV		Sec. 1	1	_	LM-120				Sta	art	4/11/	/2001	8:50	PM		
	n: 5,515'					38", 29						4/14	2001	8:27	AM		
Total De	opth. 1,00				Fluid	Bentoni		d, Reverse	Circu	latio	n						Geophysical Log: Yes
	Pen	K.	Circula	tion	┿	+	+	Samples	╂	_	_		Ţ -	1			Description T
Deoff	Penetration Rate in	feet/min	Inject, gpm	Refurn dom	Alteration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Stratigraphy	Symbol	Lithology	nscs	Clay%	SH28	fine sand %	Graphic	
	 				╀	 	1	 		╀	-		├	┼	 	-////	600' to 630' CLAY, medium to low plasticity, slow dilantancy, brown to red brown, chip lithology varies, possibly gouge.
).43			1	0	┿		+	╁	┿	 	55%	20%	09		solown, only intrology valies, possibly gouge.
	<u>`</u>				 	 	\dagger	 	1-	╁╴	\vdash	 -	1 30.00	120.	1 -		
610								—		T	1						
																	610' to 620' interval as above but few fragments.
1							1	<u> </u>		L		L		L_	<u> </u>		
ı).67			<u> </u>	0	1	<u> </u>	L	L	Ш		55%	20%	0%		
1					<u> </u>		<u>L</u>	<u> </u>	L_	L	Ш			<u> </u>	L.		
620_															L		
1		_			<u> </u>		<u> </u>	ļ <u> </u>	<u> </u>	\perp			L_	L	<u> </u>		620' to 630' interval as above but increase in fragment content and size,
1		_			_	<u> </u>	1	<u> </u>	 _	┞	Ш		<u> </u>	L_	L _		fragment size up to 1", fragments are angular to platy.
1		.62			_	1	1_	ļ	 	_	Ш		60%	25%	0%		
I	ļ	_			 	ļ	╀-		<u> </u>	L	Ш			 	<u> </u>		
630					 	 	↓	↓ -	ļ	ļ	 		ļ	 	ļ		
1					_		<u> </u>	 	<u> </u>	乚	Ш				_		630' to 1000.5' SAND AND GRAVEL, with cobbles, multicolored, gray to
1					<u> </u>	<u> </u>	1_		<u> </u>	ot	Ш			<u> </u>	<u> </u>	∷	dark gray, gray green, brown to red brown, white, rounded to angular, contains naturally eroded surfaces, lithology is mixed, andesite and
	0	.83			<u> </u>	1_1_			1	L	Ш		45%	15%	5%	! ∷:	granodionte content varies, clay content varies. 630' to 640' is sand and
		_			ļ	ļ	↓	ļ		L	Ш			<u> </u>	L	I∷I	gravel with clay, high clay content, medium sized fragments up to 1/4".
640_		_			<u> </u>	ļ	<u> </u>	<u> </u>	_	┖	Ц		<u> </u>		_	1:::1	
l					├		↓ —	 	 	┞	Н		ļ	L	-		640' to 650' as above, but decreasing clay content, decreasing fines content,
1					├		 	ļ	 —	┞	Н			ļ		∷:	increasing andesite content.
	<u> </u>	.48			 	0			<u> </u>	<u> </u>	Н		40%	10%	5%	· · :	
	<u> </u>	4			├		├ ─	ļ	├	├	Н		<u> </u>	├	-		
650	┼				 		 	 	 	 	├ ┤		ļ	 	 		SECT to SECT interval in an above but decreasing along along in brown to rad
		\dashv			├	ļ	┼		╁	├	Н		 	 	┢	 : : :	650' to 660' interval is as above but decreasing clay, clay is brown to red brown, gray to gray green, chips are multicolored, sand and gravel with clay
		.55			 	0	╁─	 	├	-	Н		30%	5%	10%	 ∷∷	grand grand grand and grand management and grand management
1	├ ─ਁ	-33			-	<u> </u>	1	 	 	-	Н		30%	370	107	1:	
660		\dashv					1		 	-	Н			 	<u> </u>		
		\neg			Г				1	Т	Н					! ∵::	660' to 670' interval is as above.
l		7					T			H	Н				t	:::	
1	0	.83				0	1			_	H		15%	5%	10%	[:::I	
l		寸							1		H					! ∷ :	
670											П						
							1								†	1:::1	670' to 680' interval is as above, but with increasing fragment size,
Ī		7					T				П					l · · ·	multicolored sand and gravel.
	0.	50				0							15%	5%	10%		
		I]∷::	
680		J]·∷ [
		\Box															680' to 690' interval is as above but with decreasing clay content, increasing
	L	_							L	Ш						∷∴	sand content.
	0.	67			Ш	0		L		Ш	Ц		10%	10%	15%	: : : 	
	L	_			Ш				Ш	Ш	Ц					[::: : 	
690	ļ				 		 			 					 _	∷:: 	
•	ļ	4					\vdash		<u> </u>		\sqcup		Щ.	_			690' to 700': interval is as above but with increasing fines, also increasing
1		_+					Н	ļ	Н	Ш	1		\square	<u> </u>	ļ	7 - " - "A	large fragments, coarse gravel with sand.
	0	77				0	<u> </u>			Ш	4		20%	15%	20%		
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⁷⁰⁰ —		+			\square		\vdash		\vdash	Щ	\dashv	_			 	: : 	700 to 770 intend in a plant had do
		+							-	\vdash					 	: : : 	700' to 770' interval is as above but decreasing fines.
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740	ļ <u>.</u>	+					\vdash		\vdash		+	\dashv			 -	[:::]	
710							 									∷∦	710' to 720' as above, but sand and gravel.
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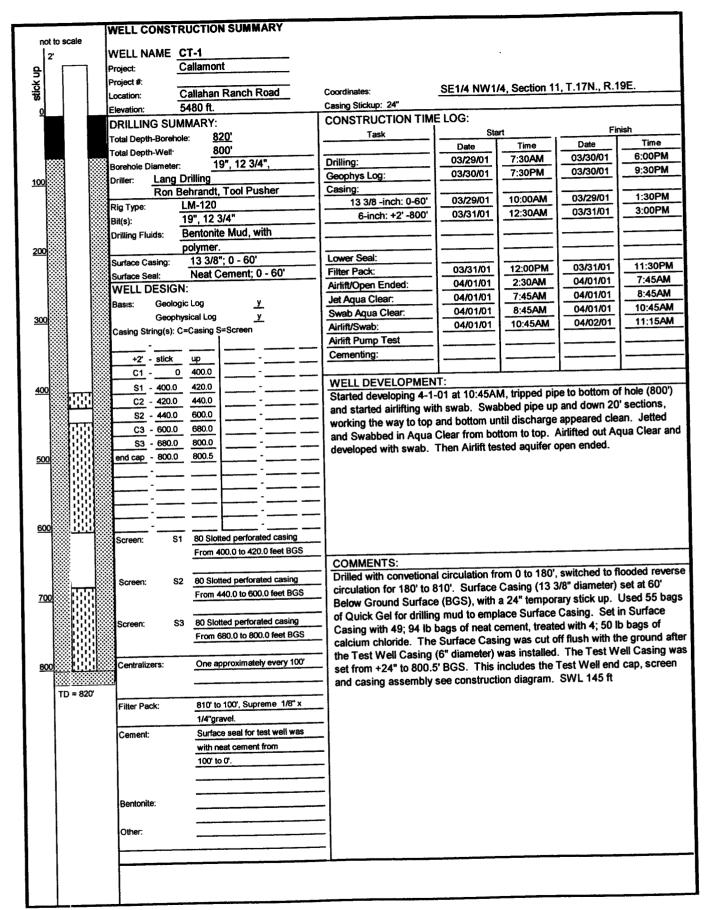
CP-2 BOREHOLE LOG Well Number Owner: Project: Callamont Project Number Page 7 of 9 Location: Callahan Ranch Rd Driller: Lang Drilling, Ron Behrandt Date Time Coordinates: NW 1/4 Sec. 11 Rig: LM-120 Start: 4/11/2001 8:50PM Bits: 38", 29", 19" Finish. 4/14/2001 8:27AM Flevation: 5 515' Geophysical Log: Yes Fluid Bentonite Mud, Reverse Circulation Total Depth: 1,000.5 Description Pen. R. Circulation Samples Penetration Rate, in feet/min Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation. 630' to 1000.5' SAND AND GRAVEL, with cobbles, multicolored, gray to dark gray, gray green, brown to red brown, white, rounded to angular contains naturally eroded surfaces, lithology is mixed, andesite and 5% 10% 19% 0.91 0 granodiorite content varies, clay content varies. 720' to 730' is coarse sand and gravel with red chips with very little clay. 730 730' to 740' interval is as above but with increasing clay content. C 20% 10% 10% 1.11 740 740' to 750' as above, but with increasing clay content decreasing sand content, sand and gravel with clay. 5% 0.83 0 35% 15% 750 750' to 760' interval is as above but with decreasing clay content, increasing sand content, increasing fragment size to 1/2", coarse gravel with sand. 10% 10% 10% 0.91 1 760 760' to 770' interval is as above but increasing clay content, clay is brown to light brown, decreasing fragment content and size, sand and gravel with clay. 0 40% 10% 15% 1.11 770_ 770' to 780' interval is as above but decreasing clay content, increasing fragment content, coarse gravel with sand. 5% 10% 0.52 1 10% 780 780' to 790' interval as above but increased clay content, clay is dark orange brown, sand and gravel with clay. 30% 10% 10% 0.83 790 790' to 800' interval as above but decreasing clay content, clay is gray to gray green, sand and gravel. 0.83 1 10% 5% 10% 800 800' to 810' interval as above but increasing clay 10% 0.52 20% 10% 810 810' to 820' interval is as above but decreasing clay and fragment size. 0.52 2 5% 5% 10% 820 820' to 830' interval is as above. 5% 10% 1 00 0 10% 830 830' to 840' interval is as above but increasing clay, clay is orange brown. 10% 0.55 0 15% 5% 840

JIVE 111	LE LOG	i	Owne	HT.								nber:		CP-2	Z		
oject Ca	llamont		Proje	ct Nu	mber	:				Page				9 <u>ime</u>			1
	allahan Ra						lling, i	Ron Behra	ndt	Star		<u>ate.</u> 4/11/2	2001		M		
	s: NW 1/4	Sec. 1	1			I-120 ", 29", 1	to"						2001				
evation:				Fhi	d Re	ntonite	Mud.	Reverse (-					Geophysical Log: Yes
tal Dept	n: 1,000.5' Pen. R.	Circut	ation	Ť	T			amples									Description
	Penetration Rate, in feet/min	nlect dom		Keturi, gpiii	Ateracon	Rig Response (1 to 5)	Materiel	Water (pH,EC,T)	Stratigraphy	Symbol	Lithology	g	%	æ	ne sand %	1	Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation
Depth	Pene Rate, feet/m	logo.				2 . 5	Mate	Vert PH.	Stra	Sym	Ě	Sn	Clay%	SHR%	į		630' to 1000.5' SAND AND GRAVEL, with cobbles, multicolored, gray to dark gray, gray green, brown to red brown, white, rounded to angular,
}	0.35		1	丰	+	0							15%	5%	10%	 ::	dark gray, gray green, blown to led blown; contains naturally eroded surfaces, lithology is mixed, andesite and granodionte content varies, clay content varies. 840' to 850' is coarse grave.
		_	1	7	1					-	H		_			<u></u> ∫∷	I and sand.
50			 	#	#				-	-			-	-		::	850' to 860' interval is as above but with increasing clay content, clay is dark brown, sand and gravel.
	0.44			土	‡	0			L	F			20%	10%	109	<u>.</u>	
60		-	╁	╁	\pm					上	L				1		860' to 870' interval is as above but with increasing clay content and
			-	7	7				\vdash	+	-					<u> </u> ::	Bot to 6/0 line van is as above set
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370		1	1		_			<u> </u>	‡	‡	1	_	1-	1	1	1:	870' to 880' interval is as above but with decreasing clay content, clay is
		-	+	+	+				上	$^{\pm}$	1		1	‡_	#	1:	orange brown.
	0.62	1	1	7	4	1	-		+	+	+	\vdash	409	6 109	6 20	<u>*</u>	쳶
880		上	1	#	#		F		F	7	Ŧ		-	F	+	- :	
			1	士	1		上		1	1	‡	1	309	6 10	¥ 5	_ %	brown chips, clay is brown.
	0.9	1	+	-	1	0	\perp		土	1	1	1	30		<u> </u>	Ĩ	<u>.</u> _
890		1		-			╁		+-	+	\pm	<u> </u>	士	_	+	₫:	890' to 900' interval is as above but decreasing clay content, sand an
	0.3	+	+	1		0	-	ļ	+	╁	+	+-	10	% 10	% 10	%	gravel
	0.3	1	1	#	4		1		Ŧ	+	Ŧ	F	-	+	╁	┦:	
900_	+-	Ł	\pm	1			士		丰	1	‡	1	1	1	Ŧ	4:	900' to 910' interval is as above but decreasing fines content, sand an
	0.3	4	+	\dashv	\dashv	1	\pm		士	\pm	\pm	士	5	% 5	% 1	3%	
		1	7	\neg			+	-	╁	+	╁	+-	+	士	土	_ ։	
910_		1	丰	1	_		1	1	Ŧ	7	7	-	F	F	Ŧ	-	1 1910 to 920 interval is as above.
	0.6	32	士			0	#	1	#	#	#	丰	- 5	% !	5%	5%	
920		+	_	_}	_		\pm		\pm	\downarrow	1	土	丰	丰	#	4	920' to 930' interval is as above.
_		Ŧ	7	\exists			\pm	1-	\pm	1	\pm	\pm	士	1	1	\exists	
	0.	50	7	_		0	F	-	+	+	+	+	+	5%	5% 1	0%	
930_		1	士				#		_	_		1	-	-	7		930' to 940' interval is as above.
		士	士				#	1	#	_	1	#	#	50/	5%	5%	
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940_	1	+	4				\bot	+-	+	\dashv	-	+	\pm	\pm	\pm		940' to 950' interval is as above but increasing clay content, clay is orar
		#	二			1	#	1	7	\exists	4	H	- -	0% 1	0%	10%	brown.
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950						<u> </u>	1		_			廿	#	#			950' to 960' interval is as above but decreasing fines content, fragme increasing in size to 1/2", coarse gravel and sand.
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BOREHO		3	Own				-					nber:		CP-2	!		
Project Ca Location: C		anch Re	-	ect Nu Dri			illing, f	ton Behra		Pag		e ete	-	9 <u>ime</u>			
Coordinate				Rig	x U	M-120							2001				
Elevation :						8", 29", [.] lentonite		Reverse				14/2	2001	U.Z/A	rw1		Geophysical Log: Yes
Total Dept	Pen. R.		lation	Ï				mples							_		Description
Depth	Penetration Rate, in	man to la	india india	Refum, gpm	Alteration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Stratignaphy	Symbol	Lithology	JSCS	Clay%	Silt%	fine sand %	Graphic	Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation.
	<u> </u>	-		-	1	ш <u>.</u>		<u> </u>		3						:::	630' to 1000.5' SAND AND GRAVEL, with cobbles, multicolored, gray to dark gray, gray green, brown to red brown, white, rounded to angular,
						0							5%	5%	10%		contains naturally eroded surfaces, lithology is mixed, andesite and granodiorite content varies, clay content varies. 960' to 970' is sand and gravel, with occasional cinders.
970			Ţ		-				 -								970' to 980' interval is as above but with no clay or sitt content, increasing
			1	上	士												fragment size to 1", andesite content increases, some pieces of red cinder.
		F	\perp	\bot	- -	0			-	H	Н		0%	0%	10%		
980		+	+-	╁	+											:::	the description from the size to 1/4"
		1	1	1	1				F	F	H		<u> </u>		 		980' to 990' interval is as above but with decreasing fragment size to 1/4" , tithology becoming very mixed.
	 	+	+	+	+	0			T				0%	0%	15%	 :::	
1			土		士										ļ	 :::	
990							ļ		┼	 	-	 	 	 	 	 ∷:	990' to 1000.5' interval is as above but with decreasing clay content
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1000 _	<u> </u>	士	士	士	士					I	L						TOTAL DEPTH = 1,000.5 ON 4-14-01 @ 8:27AM
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				Aquifer	Test Dat	а						
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Project Location	Callahan	Ranch R	oad			6:22P	M	Well			_Dist.	
Hydrogeolog		DC and R			Pump Off	7:27F	M	Well			Dist.	
		. 5 11	•		Last Record			Weli			_Dist.	
Comments:	water lev	el measur	ments take	en during a	airlifting of CP	-2, ori	ginal water lev	<i>r</i> els tak	en fr	om		page _1of1
	the drill to	able, then	adjusted b	y 4.54 fee	t to ground le	evel.						page _1of1
Time			Water Level		Discharg	e		later Qu		50	TDS	Comments
Date/Clock	Elapsed	Well CP-2	Well	Well	Totalizer X	Rate	Turbidity/Sand	Temp	рн	EG	1103	start up swl = 152.26'
4-17-01: 18:22	0:00:00				458 gpm	<u> </u>			 —			waited for system to unload.
	05:59					<u> </u>			├	 -	╁╌	elapsed time is in minutes
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	11:15	240.86	3						+-	-	+-	III UF-2 = 144.74
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CT-1 Well Number: BOREHOLE LOG Owner Page 1 of Project Number: Project: Callamont Time Date Driller: Lang Drilling, Ron Behrandt Location: Callahan Ranch Rd. Start: 3/29/2001 7:30AM Rig: LM-120 Coordinates: Finish: 3/31/2001 6:00PM Bits: 19", 12 3/4" Elevation, 5,480' Geophysical Log: YES Fluid: Bentonite Mud, Reverse Circulation Total Depth: 820' Description Samples Pen. R. Circulation Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, ps., weight Water (pH,EC,T) Return, S on bit, psi, rotation. 0 to 60' SURFACE ALLUVIUM, unconsolidated, sand, gravel, cobbles and boulders, dark grey to grey, occasionally brown, subrounded to subangular, mixed lithologies of predominantly granodiorite and andesite, clay content 15% 10% 5% 0 1.18 0 to 20' interval is as above but sand and gravel with increasing clay content. 10 5% 20% 10% 0 1,18 20 20' to 30' interval is as above. 10% 5% 0 1.11 30 30' to 40' interval is as above. 15% 10% 5% 0 1.11 40' to 50' interval is as above, but coarse sand. 40 10% 5% 10% 0 1.18 50' to 60' interval is as above, but sand and gravel. 50 5% 5% 10% 0 1 18 60" to 160" Mixed Collumum, unconsolidated, occasionally dark brown, dark 60 gray to gray chips with plagiclase feldspar, quartz, oligioclase feldspar homblende and mica, rounded to subangular, mixed lithologies o predominantly andesite and granodiorite, clay content varies. 5% 5% >5% 3 no data 70' to 80' interval is as above, but sand. 70 5% no data 80' to 90' interval is as above, but coarse sand. 80 2.5 90' to 100' interval is as above, but coarse sand. 90 100' to 110' interval is as above, but coarse sand with occasional gravel. 100 1.18 110' to 120' interval is as above, but coarse sand, increased clay content, bit 110 plugged at 120'. 5% 1.18 120

CT-1 Well Number: BOREHOLE LOG Page 2 of 7 Project: Callamont Project Number: Date Time Location: Callahan Ranch Rd. Driller: Lang Drilling Start: 3/29/2001 7:30AM Rig: LM-120 Coordinates: Finish: 3/31/2001 6:00PM Bits. 19", 12 3/4" Elevation: 5.480° Geophysical Log YES Fluid: Bentonite Mud, Reverse Circulation Total Depth: 820' Description Pen. R. Circulation Samples Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weigh Rig Respon (1 to 5) Material on bit, psi, rotation. 60' to 160' MIXED COLLUVIUM, unconsolidated, occasionally dark brown dark gray to gray chips with plagiclase feldspar, quartz, oligioclase feldspar homblende and mica, rounded to subangular, mixed lithologies of predominantly andesite and granodionte, clay content varies. 120' to 130' 0.58 interval is coarse sand. 130 130' to 140' as above, but sand and gravel with increasing clay and silt 5% 5% 0.58 140 140' to 150' as above, but sand and gravel with increasing clay and sitt content. 25% 10% 5% 0.83 150 150' to 160' interval is as above, with increasing clay content. 30% 10% 5% 0.83 160 160' to 280' SAND AND GRAVEL, unconsolidated, occasionally dark brown dark gray to gray chips with plagiclase feldspar, quartz, oligioclase feldspar homblende and mica rounded to subangular, mixed lithologies of predminantly andesite and granodiorite, clay content vanes. 0.83 170 170' to 180' interval is as above, but sand and gravel, with increasing clay content. 5% 0.83 180 180' to 190' interval is as above, but increasing clay content, chips are large and angular. 15% 0.83 190' to 200' interval is as above, but decreasing clay content, increasing 190 granodiorite content. 10% 0.83 200 200' to 210' interval is as above, but coarse sand and gravel with decreasing clay content. 5% 0.83 210 210' to 220' interval is as above, but sand. 5% 0.83 220 220' to 230' interval is as above, but sand and gravel with high granodiorite content. 5% 0.83 230 230' to 240' interval is as above, but with decreasing granodiorite content. 5% 0.83 240

CT-1 Well Number: BOREHOLE LOG Owner: Page 3 of Project Callamont Project Number: Time Date Driller: Lang Drilling Location: Callahan Ranch Rd. Start 3/29/2001 7:30AM Rig: LM-120 Coordinates. Finish: 3/31/2001 6:00PM Bits: 19", 12 3/4" Elevation: 5,480' Geophysical Log: YES Fluid: Bentonite Mud, Reverse Circulation Total Depth: 820' Description Pen. R. Circulation Samples Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight Rig Response (1 to 5) Penetration Rate, in feet/min Water (pH,EC,T) on bit, psi, rotation. 160' to 280' SAND AND GRAVEL, unconsolidated, occasionally dark brown dark gray to gray, or white chips with plagiclase feldspar, quartz, oligioclas feldspar, homblende and mica, rounded to subangular, mixed lithologies 5% 0.83 andesite and granodiorite, clay content varies. 250 250' to 260' as above, but chips are increasingly angular. 5% 0.83 260' to 270' as above but sand with increasing clay content. 260 10% 5% 0.74 270 270' to 280' as above. 5% 15:% 0 74 280 to 340' ANDESITE, decomposed, dark gray to brown, fine grained 280 chips, plagioclase feldspar, subangular to angular, increasing clay content. 30% 1.3 290 290' to 300' as above. 25% 300 300' to 310' as above. 25% 1.43 310 310' to 320' as above 25% 1.43 320 320' to 330' as above. 259 330 330 to 340' ANDESITE, solid material, dark gray to gray, fine grained chips, plagioclase feldspar, subangular to angular, decreasing clay content. 10% 340' to 420' SAND AND GRAVEL, with cobbles and boulders, gray to dark 340 gray, brown, white, rounded to angular, mixed lithologies, predominanatly granodiorite and andesite. 10% 5% 30% 350 350' to 360' as above but with decreasing clay content. 10% 25% 5% 1.54 360

CT-1 Well Number: BOREHOLE LOG Owner: Page 4 of Project: Callamont Project Number: Time Date Driller: Lang Orilling Location: Callahan Ranch Rd. Start: 3/29/2001 7:30AM Rig: LM-120 Coordinates Finish: 3/31/2001 6:00PM Bits: 19", 12 3/4" Geophysical Log: YES Elevation: 5,480° Fluid: Bentonite Mud, Reverse Circulation Description Total Depth: 820' Samoles Pen. R. Circulation Note: Describe cuttings (including observations from driller, rig and shacker screen, Also note changes in drilling methods and drilling parameters including cfm, psi, weight Rig Response (1 to 5) nject, gpm Atteration on bit, psi, rotation. SCS 340' to 420' SAND AND GRAVEL, with cobbles and boulders, gray to dark gray, brown, white, rounded to angular, mixed lithologies, predominanatly granodiorite and andesite. 5% 5% 20% 1.18 370' to 380' as above, but with large angular fragments of graondiorite, and angular small grained sediments. May indicated boulders of granodiorite 370 associated with gravels 5% 10% 20% 1.18 380' to 390' SAND AND GRAVEL, gray to dark gray, brown, white, mostly rounded but with occasional subangular fragments, decreasing clay content 380 5% 5% 15% 1.43 390' to 400' as above, but medium to fine quartz sand, rounded to 390 subangular. 10% 15% 5% 1.43 400' to 410' as above but sand and gravel, with minor clay content. 400 10% 5% 5% 1.11 410' to 420' as above but sand and gravel, with increasing clay content. 410 40% 10% 5% 1 11 420 to 438' ANDESITE, solid material, dark gray to gray, fine grained chips 420 plagioclase feldspar, subangular to angular, decreasing clay content, lots of rig chatter from 420' to 438'. 3 0.89 430' to 440' as above, but changes back to sedimentary material at 438'. 430 5% 0.89 438' to 500' SAND AND GRAVEL, with cobbles and boulders, gray to dark 440 gray, brown, white, rounded to angular, lithology is predominanatly andesite, very little clay. 1.82 450' to 460' as above with increasing andesite chip, andesite is very fine 450 grained. 5% 10% 15% 1 82 460-470' as above but with large corase grained andesite chips and milhor 460 5% 10% 15% 1.11 470' to 480' as above. 470 5% 10% 15% 1.11 480

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Total Dep	th: 820'					e Mud	Reverse	Circut	ation	1						Geophysical Log: YES
	Pen. R.	Circula	ation	igsqcurl	<u> </u>	S	amples	<u> </u>	_					_		Description
Depth	Penetration Rate, in feet/min	inject, gpm	Return, gom	Alteration	Rig Response (1 to 5)	Material	Water (pH,EC,T)	Stratigraphy	Symbol	Lithology	uscs	Clay%	Silt%	fine sand %	Graphic	Note: Describe cuttings (including observations from driller, rig and shacker screen. Also note changes in drilling methods and drilling parameters including cfm, psi, weight on bit, psi, rotation.
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Project: Ca Location: C	Callahan F		P		Driller	: Lang Di	illing		ı		6 Dat	e c	f 7 Ti	CT-1 Me ':30AM			
Coordinate Elevation: (_M-120 19", 12 3	/4°							:00PM		-	
Total Dept							Mud,	Reverse (Circula	tion							Geophysical Log: YES Description
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730	OREHO roject Ca ocation: (	allamon	t		-	t Num Drille	r: Lang D	rilling			Pag	e <u>D</u>	ate_	of	CT-1 7 Ime			
TOTAL DEPTH OF BORENOLE = 520' ON 03-30-41 @ 5.00PM.    Solution   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Processing Control   Proce						Bits:	19", 12 3				Fini	sh:						Outstand I am MES
The content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the	otal Dept					Fluid	Bentonit			Circul	ation							Description
730		Pen. F	٠ (	Circulat	bon			s	amples	├	_							Description
730	)epth	enetration tate, in	set/min	nject, gpm	Sefurn, dom	Vieration	રોg Response 1 to 5)	Vaterial	Water pH,EC,T)	Stratignaphy	Symbol	Lithology	nscs	Clay%	Silt%	fine sand %	Graphic	Note: Describe cuttings (including observations from driller, rig and shacker screen Also note changes in drilling methods and drilling parameters including cfm, psi, weig on bit, psi, rotation.
740			-															predominantly andesite, vesicular, with some clay fill in vesicles, from 72 to740' gravel is coarse with little sand and no clay, good groundwal
760	730		_			<u> </u>				-	_							
780			1															
760	740_										L							740' to 750' as above, but with increasing clay and sand content.
760    1			1			F								20%	5%	5%		
760  770  780  780  780  780  780  780	750									<u> </u>	<u> </u>	_	<u> </u>	ļ		<u> </u>		750' to 760' as above, but with increasing clay content.
780 to 70' as above, but with decreasing clay content and gravel content.  780 770' to 780' as above, but with decreasing clay content and gravel content.  780' to 800' ANDESITE, dark gray to gray, brick red, high clay content decomposed material, brick red clay zone.  790 790 800' as above, but with decreasing clay.  780' to 800' as above, but with decreasing clay content and multipravel.  810 810' to 810' as above, but with decreasing clay content and multipravel.  810 10% 0			$\dashv$					F						25%	5%	5%		
780  780  780  780  780  780  780  780	760											-			_			760' to 770' as above.
780  15% 5% 5%  780 to 800' ANDESITE, dark gray to gray, brick red, high clay cord and decomposed material, brick red clay zone.  790  790  790 to 800' as above, but with decreasing clay content and material, brick red clay zone.  800 gravel  810 800' to 810' as above, but with decreasing clay content and material prick red clay zone.  810 810' to 820' SAND, multicolored, increasing fines content.  820 TOTAL DEPTH OF BOREHOLE = 820' ON 03-30-01 @ 6:90PM.											Ė			25%	5%	5%		
780  780 to 800' ANDESITE, dark gray to gray, brick red, high clay cor and decomposed material, brick red clay zone.  790  790 to 800' as above, but with decreasing clay.  790 to 810' as above, but with decreasing clay content and multiple of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	770					<del> </del>		<u> </u>	<b></b>	<del> </del>	-	-	<del> </del>	<del> </del>	-			770' to 780' as above, but with decreasing clay content and increas
790												E		15%	5%	5%		gravel content.
790	780					-		F		F	-							780' to 800' ANDESITE, dark gray to gray, brick red, high clay content, s
800    Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solution   Solu														15%	-			and decomposed material, brick red day zone.
800    Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' to 820' SAND, multicolored, increasing fines content.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' as above, but with decreasing clay content and management.   Solve to 810' to 820' SAND, multicolored, increasing fines content.   Solve to 810' to 820' SAND, multicolored, increasing fines content.   Solve to 810' to 820' SAND, multicolored, increasing fines content.   Solve to 810' to 820' SAND, multicolored, increasing fines content.   Solve to 810' to 820' SAND, multicolored, increasing fines content.	790	<b></b>						-			-							790' to 800' as above, but with decreasing clay.
810						+		-		+	‡	F	-	5%		-		
810	800									$\vdash$	Ŧ							. 800' to 810' as above, but with decreasing clay content and much coa
820 TOTAL DEPTH OF BOREHOLE = 820' ON 03-30-01 @ 6:00PM.						‡		-		+	Ŧ	+					: :   : :	
820 TOTAL DEPTH OF BOREHOLE = 820' ON 03-30-01 @ 6:00PM.	810					-	ļ	-			-	-	1	-	-	-		810 to 820 SAND, multicolored, increasing fines content.
TOTAL DEPTH OF BOREHOLE = 820' ON 03-30-01 @ 6:00PM.						$\pm$		1		1		İ	E	109			0	
830	820					F		-		+	+	+	+	+	ŧ	+		TOTAL DEPTH OF BOREHOLE = 820' ON 03-30-01 @ 6:00PM.
830						1				1	1	1		1		F	$\downarrow$	
	830				<del> </del>	+	<del> </del>	-		‡	+	+	+	<del> </del>	<u> </u>	1	1	
								E			Ŧ	$\frac{1}{1}$		E		$oxed{\mathbb{E}}$		

				Aquife	r Test Da	ta						
Project	Callamo	nt			Test Well	CT-1	С	)bserva	tion			
Location		Ranch R	oad	•	Pump On			Well			Dist	
Hydrogeolo	gist	DC and F	RR		Pump Off			Well			Dist	
Pump Cont	ractor	Lang Drill	ing		Last Record			Well			Dist	
Comments	Airlift Te	st, open e	nded at 7	50', at 81 g	gpm.	<del></del>						page 1of
Tim		r	Water Level		Discharg			Water	Ouali	itv		
Date/Clock		Well_CT-1		Well	Totalizer X	Rate	Sand	Temp		EC	TDS	Comments
4/1/2001	0				<del></del>							initial static water level
17 11 2001	30	<del></del>										waiting for system to unload.
	58	ŧ			V							
	75											water blows out sounder pipe.
	122	<del> </del>										
	172	-	<del> </del>									
	191	<del></del>										
	210	<del>                                     </del>										
	229	<del> </del>										
	240	157.9										
	255	158.4										
	270	160.1									<u> </u>	
	285	160.6									<u> </u>	
	300	161.4										,
	318	162.2								<u> </u>	ļ	
	330	162.6										
	345	162.65										
	390	163.6										
	415	164				<u> </u>	L				<u> </u>	
	428	164.1				<u> </u>	<u> </u>				<u> </u>	
	450	164.2				<u> </u>					ļ	
	459	164.2				ļ		ļ			ļ	
	480	164.35									<u> </u>	
	510	164.5				ļ		ļ			<u> </u>	
	540	164.8				ļ		ļ	ļ		ļ	
	570	164.8									<u> </u>	air-lifting 81 gpm
	630	164.9									ļ	end of test.
							ļ			ļ	<u> </u>	
						<b> </b>	<u> </u>				<b> </b>	
	<b></b>		<b></b>			<b></b>			_	<b> </b>	1	
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	-		<b></b>			<b>}</b>	<b></b>	<u> </u>	-		1—	
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	ļ	<u> </u>	<b> </b>			-	ļ				$\vdash$	
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Appendix B

**Pumping Tests Data Sheets** 

P.O. Box 18793  Reno. Nevada 89511	Time-Drawdown plot with discharge		Project: Callamont Estates
ph (775) 250-9700	war dicoralige		Evaluated by: David Carlson
Pumping Test No. 10-day Constant-Discharge	Pumping Data	Test conducted on: I	May 8 -18, 2001
Callamont Production Well No. 1 (South)		Callamont Productio	n Well No 1 (South)
	······		

Static wa	ater level: 146.30 ft below datum			
	Pumping test duration	Water level	Drawdown	
	[min]	[ft]	[ft]	
1	1.00	193.85	47.55	
2	2.00	227.17	80.87	
3	3.00	251.89	105.59	
4	4.00	267.62	121.32	
5	5.00	274.11	127.81	
6	6.00	278.74	132.44	
7	7.00	281.97	135.67	
8	8.00	284.84	138.54	
9	9.00	286.06	139.76	
10	10.00	288.47	142.17	
11	12.00	289.76	143.46	
12	14.00	290.87	144.57	
13	16.00	297.36	151.06	
14	18.00	298.36	152.06	
15	20.00	299.51	153.21	
16	22.00	301.13	154.83	
17	24.00	302.56	156.26	
18	26.00	303.06	156.76	
19	28.00	303.85	157.55	
20	30.00	305.07	158.77 -	
21	35.00	305.47	159.17	
22	40.00	309.12	162.82	
23	45.00	310.49	164.19	
24	50.00	315.58	169.28	
25	55.00	317.37	171.07	
26	60.00	318.41	172.11	
27	70.00	321.17	174.87	
28	80.00	323.00	176.70	
29	90.00	324.79	178.49	
30	100.00	326.37	180.07	
31	110.00	327.26	180.96	
32	120.00	328.23	181.93	
33	140.00	330.52	184.22	
34	160.00	332.46	186.16	
35	180.00	335.25	188.95	
36	200.00	337.12	190.82	
37	220.00	339.59	193.29	
38	240.00	341.09	194.79	
39	260.00	344.21	197.91	
40	280.00	344.92	198.62	
41	300.00	346.18	199.88	
42	330.00	348.51	202.21	
43	360.00	350.62	204.32	
44	420.00	354.28	207.98	
45	450.00	355.74	207.98	
46	480.00	359.04	212.74	
47	510.00	361.47	215.17	
48	540.00	362.87	216.57	
49	570.00	365.41	219.11	
50	600.00	366.95	220.65	

P.O. Box	1 <b>9</b> 01096010910 00113010119 v 18793	Time-Drawdown plot		
Reno, Nev		with discharge		Project: Callamont Estates
ph.(775) 2				Evaluated by: David Carlson
Pumpino	g Test No. 10-day Constant-Dischar	ge Pumping Data	Test conducted on: M	ay 8 -18, 2001
	nt Production Well No. 1 (South)	-	Callamont Production	
		1		
Static wa	ater level: 146.30 ft below datum			
	Pumping test duration	Water level	Drawdov	vn
	[min]	[ft]	( <del>ft</del> )	
51	660.00	369.53	114	223.23
52	720.00	375.58		229.28
53	780.00	379.34	· ·	233.04
54	840.00	380.80	-	234.50
55	900.00	383.99		237.69
56	1000.00	386.34		240.04
57	1100.00	389.82		243.52
58	1200.00	392.61		246.31
59	1300.00	393.86		247.56
60	1400.00	394.83		248.53
61	1500.00	395.58		249.28
62	1600.00	395.98		249.68
63	1700.00	396.62		250.32
64	1800.00	397.37		251.07
65	1900.00	397.80		251.50
66	2000.00	398.23		251.93
67	2100.00	399.58		253.28
68	2200.00	400.48		254.18
69	2290.00	401.09		254.79
70	2370.00	402.88		256.58
71	2500.00	403.77		257.47
72	2700.00	406.20		259.90
73	2900.00	407.89		261.59
74	3100.00	408.56		262.26
75	3300.00	408.24		261.94
76	3400.00	408.92		262.62
77	3580.00	410.32		264.02
78	3670.00	411.00		264.70
79	3850.00	411.82		265.52
80	4030.00	411.85		265.55
81	4210.00	412.18		265.88
82	4450.00	415.14		268.84
83	4690.00	415.14		268.84
84	4720.00	415.04		268.74
85	4800.00	415.36		269.06
86	5000.00	415.79		269.49
87	5140.00	417.33		271.03
88	5560.00	420.82		274.52
89	5770.00	420.83		274.53
90	5920.00	420.58		274.28
91	6280.00	421.62		275.32
92	7000.00	423.40		277.10
93	7440.00	422.01		275.71
94	7752.00	423,37		277.07

425.44

425.83

424.55

424.43

426.33

427.73

8050.00

8410.00

8770.00

9100.00

9370.00

9800.00

95

96

97

98 99

100

279.14

279.53

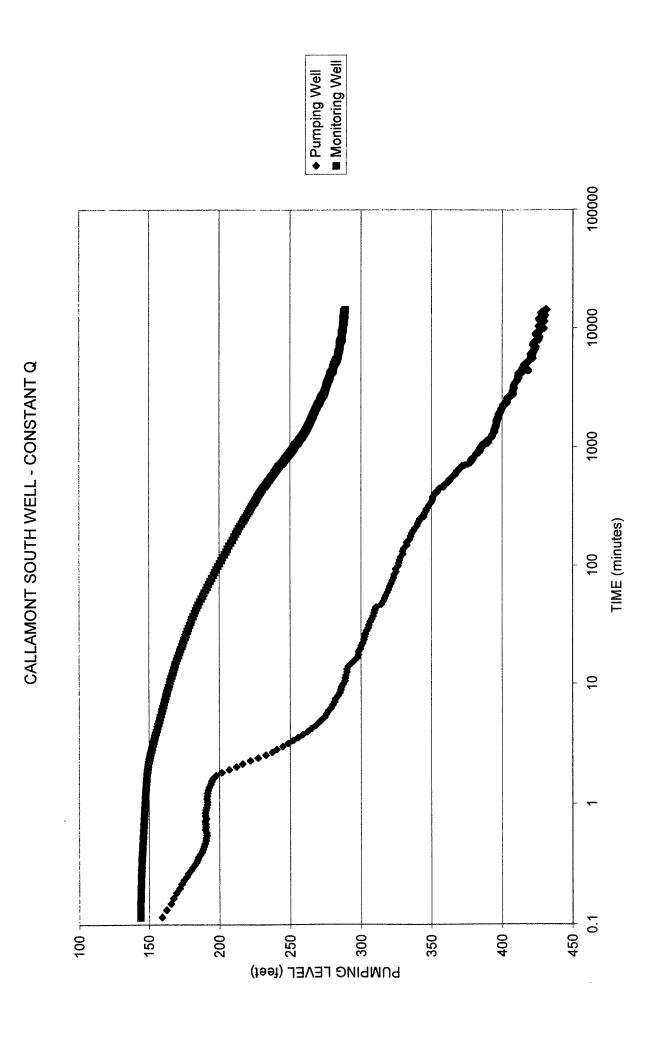
278.25

278.13

280.03

281.43

P.O. Box 18793		Time-Drawdown plot with discharge		Project: Callam	ont Estates
Reno, Nevada 89511 ph.(775) 250-9700		With discharge		Evaluated by: [	David Carlson
	o. 10-day Constant-Discha	rge Pumping Data	Test conducted	l on: May 8 -18, 2001	
	ction Well No. 1 (South)		Callamont Prod	duction Well No 1 (Sout	h)
	1: 146.30 ft below datum			)rawdown	
Pum	ping test duration	Water level		)(awdowi)	
	[min]	[ft]		[ft] 281.00	
101	10250.00	427.3 427.8		281.53	
102	10850.00 11460.00	428.1		281.88	
103 104	11740.00	426.6	2	280.32	
105	12960.00	429.1		282.86 283.21	
106	13247.00	429.5 430.5		284.28	
107	13997.00 14440.00	430.6		284.39	
108	14440.00				
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P.O. Box 18793
Reno, Nevada 89511
ph (775) 250-9700

Well performance test
Determination of specific capacity

Project: Callamont Estates

Evaluated by: David Carlson

pr.(775) 250-9700			Evaluated by. David Calison	
Pumping Test No. 10-day Constant-Discharge	Recovery Data	Test conducted on: M	lay 8 18, 2001	
Callamont Production Well No. 1 (South)		Callamont Production	Well No. 1	

	Discharge	Water level	Drawdown	
	[U.S.gal/min]	below datum [ft]	[ft]	
1	14321.00	295.64	149.34	
2	14322.00	277.66	131.36	
3	14323.00	278.88	132.58	
4	14324.00	278.02	131.72	
5	14325.00	275.11	128.81	
6	14326.00	273.28	126.98	
7	14327.00	271.27	124.97	
8	14328.00	269.37	123.07	
9	14329.00	268.15	121.85	
10	14330.00	267.47	121.17	
11	14332.00	265.42	119.12	
12	14334.00	263.37	117.07	
13	14336.00	261.15	114.85	
14	14338.00	260.00	113.70	<u> </u>
15	14340.00	258.78	112.48	
16	14345.00	255.62	109.32	
17	14350.00	253.14	106.84	
18	14360.00	248.58	102.28	
19 ,	14370.00	244.59	98.29	
20	14380.00	241.51	95.21	
21	14390.00	238.24	91.94	
	14400.00	236.01	89.71	
22 23	14410.00	233.71	87.41	
		231.34	85.04	
24 25	14420.00 14440.00	277.75	131.45	
26	14460.00	224.01	77.71	
27	14480.00	221.46	75.16	
	14500.00	218.94	72.64	
28	14520.00	216.57	70.27	
29 30	14520.00	211.53	65.23	
		207.36	61.06	
31	14597.00	200.71	54.41	
32	14697.00	195.60	49.30	
33	14797.00	193.60	45.10	
34 35	14897.00 14997.00	187.80	41.50	
36	15097.00	184.70 182.00	38.40 35.70	
37	15197.00			
38	15297.00	179.60	33.30	
39	15497.00	175.42	29.12	
40	15697.00	171.80	25.50	
41	15897.00	168.80	22.50	
42	16097.00	166.10	19.80	
43	16297.00	163.76	17.46	
44	16497.00	161.70	15.40	
45	16697.00	159.90	13.60	
46	16897.00	158.25	11.95	
47	17097.00	156.80	10.50	
48	17297.00	155.50	9.20	
49	17497.00	154.30	8.00	
50	17697.00	153.18	6.88	

nyua Hyun	Mennalic Anterioria Mennalic Anterioria	Well performance test			
P.O. Box 187 Reno, Nevada 8		Determination of specif	ic capacity	Project: Calla	mont Estates
eno, Nevada 8 h (775) 250-970		Decay in manor or opeon		Evaluated by	: David Carlson
	st No. 10-day Constant-Discha	arge Recovery Data	Test conducted on:	_!	
	oduction Well No. 1 (South)	32.1.2.1.0.j Danie	Callamont Production		
anamont Fi	oddction vveii 140. 1 (Goddi)		Outamont Foddoor		
			gay to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the second to the secon		
	Discharge	Water level	Drawd	own	
		below datum			
	[U.S.gal/min]	[ft]	[ft]		
51	17897.00	152.20		5.90	
52	18097.00	151.30		5.00 4.20	
53	18297.00	150.50 149.70		3.40	415-76
54 55	18497.00 18647.00	149.70		3.40	
56	20087.00	144.60		-1.70	
-	2007.00				
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Aqua Hydrogeologic Consuluing P.O. Box 18793 Reno, Nevada 89511 ph.(775)250-9700 Time-Drawdown plot with discharge

Project: Callamont Estates

Evaluated by: David Carlson

Pumping Test No. 7-day Constant-Discharge

Test conducted on: May 27 - June 3, 2001

Production Well No. 2 (North)

Callamont Production Well No. 2 (North)

	D	Water level	Drawdown	
	Pumping test duration	yyaler level		
	[min]	[ft]	(ft)	
1	1.00	204.80	54.44	
2	2.00	252.67	102.31	······································
3	3.00	290.53	140.17	
4	4.00	311.31	160.95	
5	5.00	234.15	83.79	
6	6.00	330.18	179.82	
7	7.00	334.19	183.83	
8	8.00	336.42	186.06	
9	9.00	343.51	193.15	
10	10.00	345.24	194.88	
11	12.00	346.92	196.56	
12	14.00	349.57	199.21	
13	16.00	351.22	200.86	
14	18.00	352.01	201.65	
15	20.00	352.69	202.33	
16	25.00	354.12	203.76	
17	30.00	354.77	204.41	
18	50.00	358.40	208.04	
19	60.00	358.79	208.43	
20	70.00	359.75	209.39	
21	80.00	359.84	209.48	
22	90.00	361.20	210.84	
23	100.00	362.24	211.88	
24	120.00	362.02	211.66	
25	140.00	363.78	213.42	
26	160.00	364.55	214.19	
27	180.00	365.68	215.32	
28	200.00	363.78	213.42	
29	230.00	366.90	216.54	
30	260.00	365.97	215.61	
31	290.00	368.48	218.12	
32	320.00	373.24	222.88	
33	360.00	377.07	226.71	
34	420.00	376.32	225.96	
35	480.00	380.12	229.76	
36	540.00	378.83	228.47	
37	600.00	380.83	230.47	
38	660.00	383.06	232.70	
39	720.00	382.84	232.48	
40	780.00	384.81	234.45	
41	840.00	387.53	237.17	
42	900.00	386.21	235.85	
43	1000.00	386.82	236.46	
44	1100.00	388.43	238.07	
45	1200.00	388.61	238.25	
46	1320.00	391.80	241.44	
47	1440.00	389.86	239.50	
48	1560.00	391.69	241.33	
49	1680.00	390.14	239.78	
50	1800.00	390.32	239.96	

P.O. Box		Time-Drawdown plot with discharge	Project: Callan	nont Estates
Reno, Nevac ph.(775)250-			Evaluated by: I	David Carlson
Pumping	Test No. 7-day Constant-Discharge		Test conducted on: May 27 - June 3, 2	2001
	on Well No. 2 (North)		Callamont Production Well No. 2 (Nor	th)
Static wat	ter level: 150.36 ft below datum	ABE-1 1		
	Pumping test duration	Water level	Drawdown	
	[min]	[ft]	[ft]	
51	1920.00	396.45	246.09	
52	2040.00	398.52 401.24	248.16 250.88	
53	2160.00	401.24 402.78	250.88	
54 55	2280.00	402.78 403.46	252.42	
55 56	2700.00 2880.00	401.39	251.03	**************************************
56 57	2880.00 3180.00	404.00	253.64	<u> </u>
58	3180.00	405.61	255.25	
58 59	3240.00	406.00	255.64	
60 F	3420.00	406.83	256.47	
61	3480.00	406.54	256.18	
62	3540.00	407.30	256.94	
63	3600.00	408.55	258.19	
64	3660.00	409.69	259.33	
65	3720.00	410.12	259.76	
66	3780.00	411.48	261.12	
67	3840.00	412.37	262.01	
68	3900.00	412.20	261.84	
69	3960.00	410.94	260.58	
70	4020.00	412.41	262.05	
71	4080.00	413.16	262.80	
72	4140.00	406.72	256.36	
73	4200.00	407.15	256.79 257.51	
74	4260.00	407.87	257.51 256.97	
75	4320.00	407.33	256.97 260.05	
76	4680.00	410.41 409.76	260.05 259.40	
77	4800.00	409.76 413.27	259.40 262.91	
78	4950.00 5100.00	413.27 414.99	262.91 264.63	
79	5100.00 5700.00	414.99 413.88	264.63	
80	5700.00 6120.00	413.88 413.41	263.05	
81 82	6120.00 7140.00	413.41 416.99	266.63	
82	7140.00 7560.00	416.53	266.17	
83	7950.00	418.92	268.56	
85	7950.00 8550.00	421.36	271.00	
85	9010.00	418.85	268.49	
86	10010.00	423.25	272.89	
	.0010.00	e mester e district		
T				

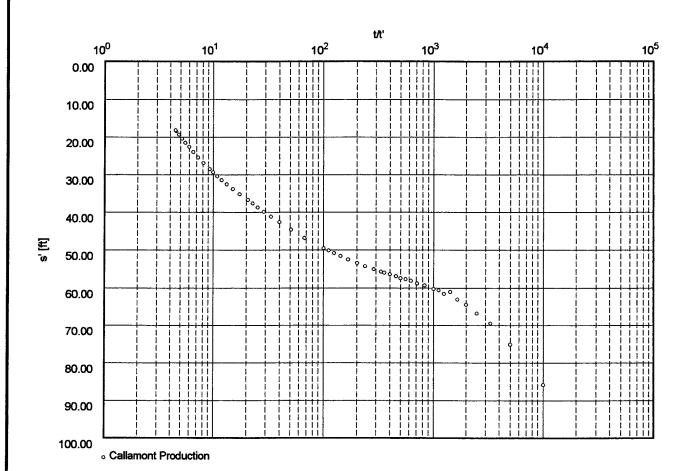
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P.O. Box 18793 Reno, Nevada 89511	Recovery method afte THEIS & JACOB	r	Project: Callamont Estates
ph.(775) 250-9700	Confined aquifer		Evaluated by: David Carlson
Pumping Test No. 7-day Constant-discharge F	Recovery Data	Test conducted on:	
Callamont Production Well No. 2 (North)			
Discharge 650.00 U.S.gal/min			•

Pumping test duration: 10000.00 min



Transmissivity [ft²/min]: 9.26 x 10⁻¹

Aqua nyuruyeorogra oorisuuring P.O. Box 18793 Reno, Nevada 89511

Recovery method after THEIS & JACOB Confined aquifer Project: Callamont Estates

Evaluated by: David Carlson

Pumping Test No. 7-day Constant-discharge Recovery Data

Callamont Production Well No. 2 (North)

Discharge 650.00 U.S.gal/min

Confined aquiler

Evaluated by. David Callamont

Evaluated by. David Callamont

Evaluated by. David Callamont

Callamont Production Well No. 2 (North)

auc wate	r level: 150.36 ft below datum		ng test duration: 10000.00 min  Residual	
	Time from	Water level	drawdown	
	end of pumping			
	[min]	[ft]	[ft] 85.86	
1	1.00	236.22	75.25	
2	2.00	225.61	69.49	
3	3.00	219.85	66.80	
4	4.00	217.16	64.46	
5	5.00	214.82	63.09	
6	6.00	213.45	61.04	
7	7.00	211.40 211.90	61.54	
8	8.00	210.93	60.57	
9	9.00	210.93	60.28	
10	10.00	209.67	59.31	
11	12.00		58.81	
12	14.00	209.17 208.52	58.16	
13	16.00	208.09	57.73	
14	18.00	207.84	57.48	
15	20.00	207.30	56.94	
16	22.00	206.83	56.47	
17	25.00	206.36	56.00	
18	28.00	206.14	55.78	
19	30.00	205.46	55.10	
20	35.00	204.67	54.31	
21	42.00	203.84	53.48	
22	50.00	202.87	52.51	
23	60.00	201.94	51.58	
24	70.00	201.25	50.89	
25	80.00	200.57	50.21	
26	90.00	199.92	49.56	
27	150.00	197.26	46.90	
28	200.00	195.00	44.64	
29	257.00	193.00	42.64	
30	307.00	191.50	41.14	
31	357.00	190.24	39.88	
32	407.00	189.05	38.69	
33	457.00	187.97	37.61	
34	507.00	187.01	36.65	
35	607.00	185.49	35.13	
36	707.00	184.15	33.79	
37	807.00	182.89	32.53	
38	907.00	181.81	31.45	
39 40	1007.00	180.73	30.37	
	1107.00	179.76	29.40	
41	1207.00	178.86	28.50	
42	1407.00	177.27	26.91	
43	1607.00	175.80	25.44	
44	1807.00	174.39	24.03	
45	2007.00	173.03	22.67	
46	2207.00	171.93	21.57	
47	2407.00	170.86	20.50	
48	2607.00	169.71	19.35	
49	2807.00	168.78	18.42	

P.O. Box 18793 Reno, Nevada 89511 ph.(775) 250-9700		Recovery method after THEIS & JACOB Confined aquifer		Project: Callamont Estates  Evaluated by: David Carlson		
	est No. 7-day Constant-discharge				Evaluated by: David Callson	
Callamont Production Well No. 2 (North)			Callamont Production	Well No. 2 (North)		
Discharge 650.00 U.S.gal/min						
	er level: 150.36 ft below datum		Pumping test duration	: 10000.00 min		
	Time from	Water level	Residual			
	end of pumping	(A)	drawdow	m		
51	[min] 2867.00	[ft] 168.52	[ft]	18.16		
					4	
					<u></u>	

P.O. Box 18793		Time-Drawdown plot		Project: Callamont Estates	
Reno, Nevada 89511				Evaluated by: Davi	
ph.(775)250-9700			Test conducted on: May 8 - 18, 2001		
Pumping Test No. 10-day Constant-Discharge					
Test Well Drawdown Data Set			Callamont Estates Te		
			Distance from the pu	mping well 50.00 ft	
Static w	ater level: 144.10 ft below datum			_	
Pumping test duration		Water level	Drawdo	wn	
	· milhin G range and milk		[ft]		
	[min]	[ft]			
1	1.00	148.13		4.03 6.52	
2	2.00	150.62		9.55	
3	3.00	153.65 456.51		12.41	
4	4.00	156.51 158.32		14.22	
5	5.00	160.10		16.00	
6	6.00	161.83		17.73	
7	7.00	163.02		18.92	
8	8.00	163.02		20.12	
9	9.00	165.42		21.32	
10	10.00	167.26		23.16	
11	12.00	168.46		24.36	
12	14.00	160.64		16.54	
13	16.00 18.00	172.15		28.05	
14	20.00	172.89		28.79	
15	22.00	174.39		30.29	
16	24.00	175.9		31.82	
17	26.00	176.6		32.58	
18	28.00	177.4		33.37	
19 20	30.00	178.2		34.18	
	35.00	180.8		36.73	
21 22	40.00	182.5	8	38.48	
23	45.00	184.3	8	40.28	
23	50.00	186.5	0	42.40	
25	55.00	188.6	3	44.53	
26	60.00	189.7		45.60	
27	70.00	192.8		48.74	
28	80.00	195.0		50.91	
29	90.00	197.2		53.10	
30	100.00	199.3		55.29 57.42	
31	110.00	201.5		57.42 58.50	
32	120.00	202.6		61.92	
33	140.00	206.0		64.24	
34	160.00	208.3		66.62	
35	180.00	210.7		68.80	
36	200.00	212.9		70.76	
37	220.00	214.8		72.67	
38	240.00	216. 218.		74.52	
39	260.00	218.0		76.10	
40	280.00	220		77.69	
41	300.00	221.		79.72	
42		225.		81.61	
43	360.00	229.		84.92	
44	450.00	230.		86.53	
45		230.		88.28	
46		234.		89.96	
47		237.		92.90	
48	570.00	201.		04.04	

238.34

240.69

94.24

96.59

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50

600.00

660.00

DO Boy 18703		Time-Drawdown nlot			
P.O. Box 18793		Time-Drawdown plot		Project: Callamont Estates	
Reno, Nev ph.(775)25	wada 89511 250-9700		Ì	Evaluated by: David Carlson	
			"pet conduct- "		
	ng Test No. 10-day Constant-Discharge		Test conducted on: Ma		
Test W	ell Drawdown Data Set		Callamont Estates Tes	st Well	
		C	Distance from the pum	nping well 50.00 ft	
Static w	vater level: 144.10 ft below datum				
<u> </u>	Pumping test duration	Water level	Drawdow	vn	
1		<del></del>			
1	[min]	[ft]	( <del>ft</del> )		
51	720.00	243.43	19	99.33	
51 52	720.00	246.06		101.96	
52	840.00	248.08		103.98	
53	900.00	250.07		105.97	
54 55	1000.00	252.78		108.68	
	1000.00	252.78 254.87		110.77	
56 57	1100.00	254.87 257.62		113.52	
57 58		257.62		115.45	
58 59	1300.00	259.55 261.12		117.02	
59	1400.00	261.12 262.48		118.38	
60	1500.00	262.48 263.59		119.49	
61	1600.00	263.59 264.60		120.50	
62	1700.00	264.60 265.45		120.50	
63	1800.00	265.45 266.37	-	121.35	
64	1900.00			122.27	
65 66	2000.00	267.10 268.05	-	123.00	
66	2100.00	268.05 268.83	-	123.95	
67	2200.00	268.83 269.51		124.73 125.41	
68	2290.00	269.51 270.46	-	125.41	
69	2370.00	270.46 271.36	<del> </del>	126.36 127.26	
70	2500.00	271.36 272.90	<del> </del>		
71	2700.00	272.90		128.80	
72	2900.00	274.32		130.22	
73	3100.00	275.19		131.09	
74	3300.00	275.74		131.64	
75	3400.00	276.04		131.94	
76	3580.00	276.73 277.15		132.63	
77	3670.00	277.15		133.05	
78	3850.00	277.85		133.75	
79	4030.00	278.27		134.17	
80	4210.00	278.62		134.52	
81	4450.00	280.06		135.96	
82	4720.00	280.64		136.54	
83	4800.00	280.64		136.54	
84	5000.00	281.05		136.95	
85	5140.00	281.53		137.43	
86	5560.00	283.16		139.06	
87	5770.00	283.59		139.49	
88	5920.00	283.73		139.63	
89	6280.00	284.07		139.97	
90	7000.00	285.13		141.03	
91	7440.00	285.02		140.92	
92	7753.00	285.41		141.31	
93	8050.00	286.18		142.08	
94	8410.00	286.56		142.46	
95	8770.00	286.33		142.23	
96	9100.00	286.17		142.07	
97	9370.00	286.79		142.69	
98	9800.00	287.29		143.19	
99	10250.00	287.49		143.39	

287.49

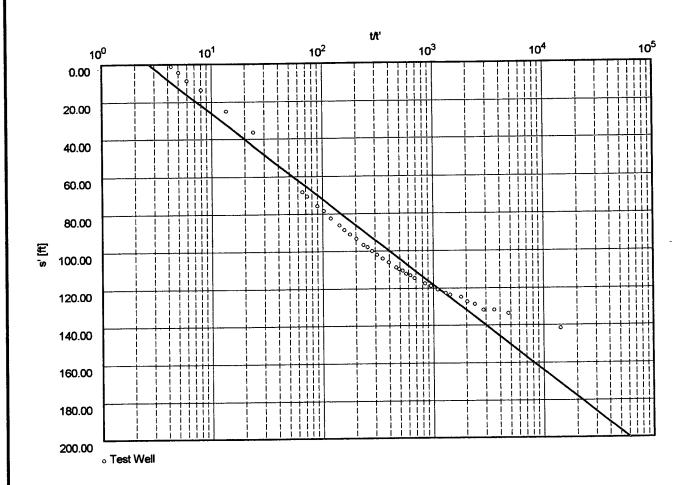
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P.O. Box 18793 Reno, Nevada 89511 ph (775)250-9700		Time-Drawdown plot			Project: Callamont Estates	
				Evaluated by: David Carlson		
	10-day Constant-Discharg	le	Test conducted on: May 8 - 18, 200			
Test Well Drawdow			Callamont Estate	s Test Well		
			Distance from the pumping well 50.00 ft			
Static water level: 1	144.10 ft below datum					
Pumping test duration		Water level	Dra	wdown		
	[min]	[ft]		[ft]		
101	11460.00	288.00		143.96		
102	11740.00	287.39		143.29 144.37		
103	12960.00	288.4 ⁻ 288.2 ⁻		144.19		
104	13247.00	288.9		144.82		
105	14440.00					
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P.O. Box 18793 Reno, Nevada 89511 ph.(775) 250-9700	Recovery method after THEIS & JACOB Confined aquifer	r	Project: Callamont Estates  Evaluated by: David Carlson	
Pumping Test No. 10-day Constant-Discharge Recovery Data		Test conducted on: May 8 - 18, 2001		
Test Well Drawdown Recovery Data				
Discharge 800.00 U.S.gal/min				
		Pumping test duration	n: 14319:00 min	



Transmissivity [ft²/min]: 4.26 x 10⁻¹

Aqua nyurugevivyiv vorisuiung Recovery method after P.O. Box 18793 Project: Callamont Estates THEIS & JACOB Reno, Nevada 89511 Confined aquifer Evaluated by: David Carlson ph.(775) 250-9700 Pumping Test No. 10-day Constant-Discharge Recovery Data Test conducted on: May 8 - 18, 2001 **Test Well** Test Well Drawdown Recovery Data Distance from the pumping well 50.00 ft Discharge 800.00 U.S.gal/min Pumping test duration: 14319.00 min Static water level: 144.10 ft below datum Residual Water level Time from drawdown end of pumping **[ft]** [ft] [min] 141.82 285.92 1.00 1 134.01 278.11 3.00 2 132.10 276.20 3 4.00 276.20 132.10 5.00 4 128.81 272.91 6.00 5 127.47 271.57 6 7.00 124.94 269.04 8.00 7 123.84 267.94 8 10.00 122.72 9 11.00 266.82 120.87 13.00 264.97 10 118.93 263.03 15.00 11 117.56 261.66 17.00 12 258.72 114.62 21.00 13 257.13 113.03 23.00 14 112.22 256.32 25.00 15 110.54 254.64 27.00 16 109.67 29.00 253.77 17 252.92 108.82 18 31.00 106.07 250.17 19 36.00 104.14 248.24 41.00 20 102.11 246.21 46.00 21 100.03 244.13 51.00 22 241.98 97.88 23 56.00 96.77 240.87 61.00 24 93.37 237.47 71.00 25 91.01 235.11 81.00 26 88.60 232.70 91.00 27 86.14 230.24 28 101.00 82.33 29 121.00 226.43 78.45 141.00 222.55 30 75.84 161.00 219.94 31 201.00 214.84 70.74 32 68.49 212.59 33 221.00 36.73 180.83 621.00 34 25.37 169.47 1131.00 35 13.60 157.70 36 2031.00 8.59 152.69 37 2861.00 4.43 148.53 38 3551.00 1.17 145.27 39 4341.00 -0.62 143.48 5701.00 40

Appendix C

Water Quality Data

Pasadena, California 91101

Tel: 626 568 6400 Fax: 626 568 6324

1800 566 LABS (1800 566 5227)

RECEIVED

JUN 1 1 2001

WASHOE COUNTY DEPT. OF WATER RESOURCES

Laboratory Report

for

Washoe County Dept. of Water Resources 4930 Energy Way

Reno , NV 89502-4106

Attention: John Hulett Fax: (775) 954-4610

DATE OF ISSUF

11N 0 1 2001

Hiland
MUNITGOMERY WATSON LABS

HDS Hillary Strayer Project Manager nelac 1114CA

Report#: 80431

DRINKING

Laboratory certifies that the test results meet all **NELAC** requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report, QC Summary, Data Report, Hits Report, totaling 4 page[s].

MONTGOMERY WATSON LABORATORIES CHAIN OF CUSTODY RECORD

8043/

	MWLABS USE ONLY:	ONLY	•		
555 E. Walnut St., Pasadena, CA 91101		MMENTS:		SAMPLES CHECKED/LOGGED IN BY:	NR
(626) 568-6400 (800) 566-5227	27			SAMPLE TEMP, RECEIPT AT LAB:	2.9
				BLUE ICE: FROZEN PARTIALLY FROZEN	FROZEN ZTHÁWED
TO BE COMPLETED BY SAMPLER:					
PROJECT NAME	PROJECT JOB#/P.O.#		REFER TO ATT	REFER TO ATTACHED BOTTLE ORDER FOR ANALYSES	ES Check for yes)
Washor Count, Dur			ANALYSES	ANALYSES REQUIRED (mark an 'X' in all tests required for each sample line)	i for each sample line)
SAMPLER(S): PRINTED NAME AND SIGNAT	TURE				
Hally Hall		X	Nope		SAMPLER
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#### itgomery Watson Laboratori

555 E. Walnut St., Pasadena, CA 91101 PHONE: 626-568-6400/FAX: 626-568-6324

#### ACKNOWLEDGMENT OF SAMPLES RECEIVED

Washoe County Dept. of Water Resources

4930 Energy Way Reno, NV 89502-4106 Attn: John Hulett

Phone: (775) 954-4625

Customer Code: WASHOE

PO#: 179701 Group#: 80431 Project#: DRINKING

Proj Mgr: Hillary Strayer Phone: (626) 568-6412

The following samples were received from you on 05/30/01. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample# Sample Id Matrix Sample Date

Tests Scheduled

2105300143 CALLAMOUT NORTH Water 29-may-2001 11:00:00

@RN

Test Acronym Description

Test Acronym Description

@RN Radon 222

Laboratory
Data Report
#80431

a Division of Montgomery Watson Americas, Inc. 555 East Walnut Street Pasadena, California 91101 Te1: 626 568 6400 Fax: 626 568 6324 1 800 566 LABS (1 800 566 5227)

Washoe County Dept. of Water Resources John Hulett 4930 Energy Way Reno , NV 89502-4106

Samples Received

05/30/01

Prepared Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
CALLAMOUT NORTH	(210	5300143)	Sampled on 05/29/01	11:00			
		Radon 222					
05/30/01 00:00	142902	( SM7500RN	Radon 222	760	pCi/l	50	1
05/30/01 00:00	142902	( SM7500RN	Radon 222, Two Sigma Error	24	pCi/l	0.0000	1



Laboratory QC Report #80431

a Division of Montgomery Watson Americas, Inc. 555 East Walnut Street Pasadena, California 91101 Te1: 626 568 6400 Fax: 626 568 6324 1 800 566 LABS (1 800 566 5227)

Washoe County Dept. of Water Resources

QC Ref #142902

Radon 222

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Radon 222	1000	1070	107.0	( 80.00 - 120.00 )	
LCS2	Radon 222	1000	1050	105.0	( 80.00 - 120.00 )	1.9
MBLK	Radon 222	ND			•	

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.



a Division of Montgomery Watson Americas, Inc. 555 East Walnut Street Pasadena, California 91101 Te1: 626 568 6400 Fax: 626 568 6324 1 800 566 LABS (1 800 566 5227) RECEIVED

MAY 24 2001

WASHOE COUNTY DEPT. OF WATER RESOURCES

Laboratory Report

for

Washoe County Dept. of Water Resources 4930 Energy Way

Reno , NV 89502-4106

Attention: John Hulett Fax: (775) 954-4610

DATE OF ISSUE

MONTGOMERY WATSON LABS

HDS Hillary Strayer Project Manager *nelac

Report#: 79361 DRINKING

Laboratory certifies that the test results meet all NELAC requirements unless noted in the Comments section or the Case Narrative. Following the cover page are QC Report, QC Summary, Data Report, Hits Report, totaling 4 page[s].

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#### . Atgomery Watson Laboratoria

555 E. Walnut St., Pasadena, CA 91101 PHONE: 626-568-6400/FAX: 626-568-6324

#### ACKNOWLEDGMENT OF SAMPLES RECEIVED

Washoe County Dept. of Water Resources

4930 Energy Way Reno, NV 89502-4106 Attn: John Hulett

Phone: (775) 954-4625

Customer Code: WASHOE

PO#: 179701

Group#: 79361 Project#: DRINKING

Proj Mgr: Hillary Strayer Phone: (626) 568-6412

The following samples were received from you on 05/10/01. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Montgomery Watson Laboratories.

Sample Date Sample# Sample Id Matrix Tests Scheduled 2105100246 CALLAMONT SOUTH 1 09-may-2001 11:00:00 Water @RN · .

Test Acronym Description

Description Test Acronym

> @RN Radon 222



a Division of Montgomery Watson Americas, Inc. 555 East Walnut Street Pasadena, California 91101 Te1: 625 568 6400 Fax: 626 568 6324 1 800 566 LABS (1 800 566 5227) Laboratory
Data Report
#79361

Washoe County Dept. of Water Resources John Hulett 4930 Energy Way Reno , NV 89502-4106 Samples Received

05/10/01

Prepared Analyzed	QC Ref#	Method	Analyte	Result	Units	MRL	Dilution
CALLAMONT SOUTH	1 (2	105100246)	Sampled on	05/09/01 11:00			
		Radon 222					
05/11/01 00:00	141493	( SM7500RN	) Radon 222	1000	pCi/l	50	1
05/11/01 00:00	141493	( SM7500RN	) Radon 222, Two Sigma Erro	or 29	pCi/l	0.0000	1



Laboratory QC Report #79361

a Division of Montgomary Watson Americas, Inc. 555 East Walnut Street Pasadena, California 91101 Tel: 626 568 6400 Fax: 626 568 6324 1 800 566 LABS (1 800 566 5227)

Washoe County Dept. of Water Resources

QC Ref #141493

Radon 222

QC	Analyte	Spiked	Recovered	Yield (%)	Limits (%)	RPD (%)
LCS1	Radon 222	1000	1010	101.0	( 80.00 - 120.00	)
LCS2	Radon 222	1000	1050	105.0	( 80.00 - 120.00	3.9
MBLK	Radon 222	ND				

Spikes which exceed Limits and Method Blanks with positive results are highlighted by <u>Underlining</u>. Criteria for MS and DUP are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

IN TRIPLICATE
(PLEASE PRINT OR TYPE)

#### NEVADA STATE HEALTH LABORATOK University of Nevada School of Medicine/385 Reno, Nevada 89557 (775) 688-1335

149711

# WATER CHEMISTRY ANALYSIS:

Array Fore may apply to some types of samples.

All of the information below must be filled in or the analysis will not be performed.

Aith: Fees may app	pry to some ty	thes or samples.		a bil	4:53	J_	-	Washa	•	
TYPE OF ANA				167 - 9 PM	State Nev	Range Scotion Scotion Callahan Ranch Road				
Check here fo	r ROUTINE I	DOMESTIC ANA	LYSIS.		A Township	-i / : II	Range	Section Road	nn	
Circle the con	stituents need	cd for PARTIAL	ANALYSIS.		Source Add	ationجنه المانة Pess كندال	amout	South.	(4) E	
SAMPLING IN	STRUCTIO	NS:	. • •	<u>.</u>	00010012001				3	
The sample submi	tted must be r	representative of t	he source. Sp	ring and sur-		FOR ANALYS	SIS:	USE OF WAT		
face water samples	should be as fi	ree of dirt and debr	is as possible.	Wells should	Loan			Domestic drin	king water	
be pumped thoroughest three times.	gnly octore sa Product water	impling, changing from filters should	the water in	after running		health reasons of the property		Geothermal Industrial or r	niaino	
for about ten (10) i	minutes.				_	r sale of property	,	Imigation	umig	
Sampled by Joh	n Hulet	:t Dat	<u>. 5-9-</u>	<u>:01</u>		ion approval		Other	********	
Owner Washo	e Count	Y Pho	one		√D Other	≤DWA	,,	Initials	**************************	
Address P.O.	BOX 11	.130	nevac	(a	cormon	OFFICE				
City Reno		Sta	ic			OF WATER: Yes  No		Туре		
REPORT TO:						Yes No		Name		
Name Ter	ri Svet	ich (Was	hoe Cou	inty)	Spring	,.,		Surface		
Don						-		Casing diameter		
CityNe	vada	Zi _l	89520-0	0027		Cold Yes 🖾 No	•••••	Casing depth	ft.	
State										
	Т	he results belo	w are repres	entative only	of the sample	submitted to	this labora	4		
				ORY USE ONL				PRINT OTH	ER DESIRED NTS BELOW	
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Hardness	103	Nitrate -N	0.1	Manganese	0.01	Turbitity	0.4	Cr	<0.001	
Calcium	20	Alkalinity	132	Copper	0.01	рН	8.00	Ha	<0.0005	
Magnesium	13	Bicarbonate	161	Zinc	0.00	EC	262	Se	<0.00 J	
Sodium	15	Carbonate	0	Barium	0.08	SI@20C	-0.10	5h	< 0.001	
Potassium	5	Fluoride	0.07	Boron	0.0			Be	< 0.00 1	
Sulfate	5	Arsenic < (	0.003	Silica	63			Ni	<0.001	
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IN TRIPLICATE **PLEASE PRINT OR TYPE** 

ppm = parts per million, milligrams per liter; S.U. = Standard Units

# **NEVADA STATE HEALTH LABORATURY** iversity of Nevada School of Medicine/385

149/12

(Rev. 6/99)

Reno, Nevada 89557

				(//3) 008					
VATER CHI		ANALYSIS	:	53	Ā	All of the informa		ow must be fille t be performed	
ttn: Fees may ap	ply to some ty	pes of samples.	· 1 (3 - ) P	11 1:00		•			
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AMPLING IN	STRICTIC	NC.			Source Addi	(C35	WEWT		
he sample submi			the source. Sp	ring and sur-	REASON	FOR ANALYSIS	S:	USE OF WATE	ER:
ace water samples	should be as fi	ree of dirt and deb	ris as possible.	Wells should	☐ Loan			Domestic drin	king water
e pumped thorou						health reasons		Geothermal	
east three times. I or about ten (10)			<b>a be sampled</b> i <b>me Coll:</b>			of the property		Industrial or n	nining
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Sampled by  Dwner						ion approval			
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REPORT TO:		1.1		(0.0)		Yes 🔲 No		Name	
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Address	Da.o	5.K//	******************		Well(,7.):	Depth	ft.	Casing depth	IN. fr
State	NV NV	Zi _l	89520	1-00Z7		Yes (2) No	•••••	Casing deput	
								A	
	T	he results belo	w are repres	entative only o	t the sample	submitted to thi	is labora	<del></del>	
		FOI	R LABORAT	ORY USE ONLY	Y	1		PRINT OTHE CONSTITUE	
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Calcium		Alkalinity		Copper		pri			
Magnesium		Bicarbonate		Zinc				}	
Sodium		Carbonate		Barium				<u> </u>	<del> </del>
   Potassium		Fluoride							
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Date Rec'd		Init	].#.16	served Correc	MY				(Rev 6/9
		a man listari Pill . P	randord I lait-					•	INDA UA



#### Nevada State Health Laboratory

1660 N. Virginia St./MS 385 Reno, Nevada 89503-1783 (775) 688-1335 FAX: (775) 688-1460

5/11/01

Lab ID: 149712 Sample Type: SDWA Date Sampled: 5/09/01 Date Received: 5/09/01

OWNER:

WCWRD PO BOX 11130

RENO NV, 89520 SAMPLE INFORMATION

Township: Range: Section: General Location: CALLAHAN RANCH RD Source Address: CALLAMONT SOUTH #1

Customer ID:

REPORT TO:

TERRI SVETICH WCWRD

PO BOX 11130 RENO

NV, 89520

ANALYSES PERFORMED

Routine : SOCs
Tr. Metals - 2: VOCs
Tr. Metals - 5: A/B

Tr. Metals - 5: A/F
MBAS : Par
Nitrite :

Partial:

: 1

COMMENTS:

The results below are representative only of the sample submitted to this laboratory.

Regulated Volatile Organic Compound Laboratory Data

1,2-Dichloropropane: < .0005 ppm Vinyl chloride: < .0005 ppm < .0005 ppm Ethylbenzene: Benzene: Carbon tetrachloride: Monochlorobenzene: < .0005 ppm < .0005 ppm 1,2,-Dichlorobenzene: < .0005 ppm 1,2-Dichloroethane: < .0005 ppm Styrene: < .0005 ppm</pre> Trichloroethylene: < .0005 ppm Tetrachloroethylene: < .0005 ppm 1,4-Dichlorobenzene: < .0005 ppm < .0005 ppm Toluene: 1,1-Dichloroethylene: Trans-1,2-Dichlorethyl.: < .0005 ppm 1,1,1-Trichloroethane: < .0005 ppm Cis-1,2-Dichlorethylene: < .0005 ppm Xylenes (total): < .0005 ppm 1,2,4-Trichlorobenzene: < .0005 ppm Dichloromethane: < .0005 ppm < .0005 ppm1,1,2-Trichloroethane:

Trihalomethane Laboratory Data

Chloroform: < .0005 ppm Dibromochloromethane: < .0005 ppm Bromoform: < .0005 ppm < .0005 ppm

ppm = parts per million, milligrams per liter

Remarks No unregulated Compound found

RESULTS REPORTED

Ju 5/1/0/

JUN 1 2 2001

## NEVADA STATE HEALTH LABORATORY University of Nevada School of Medicine/385 Reno, Nevada 89557

150033

(Rev 6

WATER CHEN				(775) 000		ow must be fill it be performed	ed in L		
TYPE OF ANALY	SIS:	DOMESTIC ANA led for PARTIAL	LYSIS.	73 PH 12: 01	Township	rada 17 cation Corress C	Range!	Rewell	PJ 11 3
REPORT TO: Name P.O	d must be rould be as f ly before so duct water nutes. Hulet Box 11	representative of the ce of dirt and debrampling, changing from filters should be compared by the compared by the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the center of the	ris as possible.  If the water in the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to the sampled to th	Wells should the casing at after running  ? - 0 \	REASON Lonn Personal Purchase Rental of Subdivise Other  SOURCE Filter Public Spring	health reasons of the property or sale of property sion approval  OF WATER: Yes \( \bigcup \) No Yes \( \bigcup \) No	: Κ, ξ	USE OF WATI Domestic drin Geothermal Industrial or n Irrigation Other Initials USA 90 Type Name	ER:  uking water  mining
Address Reno City Reno State Nev	ada		89520-(		HotIN USE:	Cold .		Casing depth	ft.
				ORY USE ONLY		•		PRINT OTHE	
Constituent	188 ppm			Sconstituent 0.		2 15003	33 _{s.u.}	Constituent	ppm
T.D.S. @ 180° C.	177	Chloride	1	Iron	0.02	Color	3	CJ	<0.001
Hardness	93	Nitrate -N	0.1	Manganese	0.02	Turbitity	0.4	Cr	<0.00L
Calcium	19	Alkalinity	112	Соррет	0.00	рН	8.11	Ha	(0.000
Magnesium	11	Bicarbonate	137	Zinc	0.01	EC	225	Se	<0.001
Sodium	13	Carbonate	0	Barium	0.07	SI@20C	-0.08	Sb	~0100/
Potassium	4	Fluoride	0.05	Boron	0.1			Be ·	<0.001
Sulfate	3	Arsenic <	0.003	Silica	64			`N.	<0.001
NO2	ر ٥٠٥١	MBAS	<b>40.1</b>	~ -	<0.005	91055 X	3:3 5 t 2	TI	<0.0005
Fee		cc	Remarks		luzing	Ú.	oung test		7-25-0 th well

Date Rec'd ....... Init. .....

part = norts per million, millionams per liter; S.U. = Standard Units

IN TRIPLICATE (PLEASE PRINT OR TYPE)

#### NEVADA STATE HEALTH LABORATORY University of Nevada School of Medicine/385 Reno, Nevada 89557 (775) 688-1335

150034

WATER CHEMISTRY	Y ANALYSIS:	.1	<ul> <li>All of the information below must be illed in or the analysis will not be performed.</li> </ul>						
Attn: Fees may apply to some	types of samples.				or the analy	212 MNI UC		_	
TYPE OF ANALYSIS:		0117313	12 PH 12: 05	State Nev	zada	Co		shoe	
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	<b></b>	111.	The second CIA	i Source Add	ress	7.778××××××	<u> </u>	H.CIN	
SAMPLING INSTRUCTION  The sample submitted must be		e source. So	ning and sur-	REASON	FOR ANALYS	IS:	USE OF	WATE	R:
face water samples should be as	free of dirt and debri	s as possible.	Wells should	Loan			Domes		
be pumped thoroughly before,	sampling, changing	the water in	the casing at	Personal	health reasons		Geothe	rmal	
least three times. Product water			•		of the property		Industr		oing .
for about ten (10) minutes.	ht _	5-29	1-01	_	r sale of property		Imigati		
Sampled by John Hules	Ev Di	ne			levorqqe noi		-		
Owner Washoe Coun Address P.O. Box 1	EYPho 1130			U CARET					
City Reno		Nevad	la	SOURCE	OF WATER:	KIT	05	J-70	- \
•				Filter 🔾	Yes 🔲 No		Туре		***************************************
REPORT TO:	tich (Wac)	hoe Cou	intel:	Public 🚨	Yes 🔲 No				TV8 \$708248 684 684 1777 - 777
Name Terri Sve	11130				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		• • • • • • • • • • • • • • • • • • • •		
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City Reno State Nevada	Zip	89520-0	0027		☐ Yes    No		- Carring -	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
	The results below	are repres	entative only of	the sample	submitted to th	is labora	lory.		
	FOR	LARORAT	ORY USE ONLY						DESIRED
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Nevada State Health Laborator 1660 N. Virginia St./MS 385 Reno, Nevada 89503-1783 (775) 688-1335 FAX: (775) 688-1460

6/15/01

. 150034 Lab ID: Sample Type: SDWA

OWNER:

WCWRD

PO BOX 11130

RENO

NV, 89520

REPORT TO:

COMPTROLLER

WCWRD

PO BOX 11130

RENO

NV, 89520

COMMENTS: VOC

Date Sampled: 5/29/01 Date Received: 5/29/01

SAMPLE INFORMATION

Range: 19 Section: 11 Township: 17 General Location: CALLAHAN RANCH RD Source Address: CALLAMONT NORTH WELL

Customer ID: (SOC #150035)

ANALYSES PERFORMED

SOCs Routine VOCs : 1 Tr. Metals - 2:

A/B Tr. Metals - 5: Partial:

MBAS

Nitrite

The results below are representative only of the sample submitted to this laboratory.

# Regulated Volatile Organic Compound Laboratory Data

Vinyl chloride:	< .0005 ppm.	1,2-Dichloropropane:	<	.0005	<b>bba</b>
	< .0005 ppm	Ethylbenzene:	<	.0005	ppm
Benzene:	. = -			.0005	
Carbon tetrachloride:	< .0005 ppm	Honochlorobenzene:			
1,2-Dichloroethane:	< .0005 ppm	1,2,-Dichlorobenzene:		,0005	
Trichloroethylene:	< .0005 ppm	Styrene:		.0005	
	< .0005 ppm	Tetrachlorcethylene:	<	Owi	125,712
1,4-Dichlorobenzene:	· · ·	•	-	.0005	תוכניכו
1,1-Dichloroethylene:	< .0005 ppm	Toluene:		.0005	
1,1,1-Trichloroethane:	< .0005 ppm	Trans-1,2-Dichlorethyl .:			
Cis-1,2-Dichlorethylene:	< .0005 ppm	<pre>Xylenes (total):</pre>		.0005	
District Dictional	< .0005 ppm	1,2,4-Trichlorobenzene:	<	,0005	<u>mada</u>
Dichloromethane:		21011 20-0-0-0			
1,1,2-Trichloroethane:	. < .0005 ppm	•			

# Trihalomethane Laboratory Dat

mag 2000. > Dibromochloromethane: .0005 ppm Chloroform: < .0005 ppm Bromoform: < .0005 ppm Bromodichloromethane:

ppm = parts per million, milligrams per liter

Detce ted Remarks

P.O. Box 18793 Reno, NV 89511
Phone (775) 250-9700
Email: DavidECarlson@email.msn.com