STATE OF NEVADA
DIVISION OF WATER RESOURCES
WELL DRILLER'S REPORT

OFFICE USE ONLY
Log No. 111992
Permit No.
Basin Ø28 1/17

PRINT OR TYPE ONLY
DO NOT WRITE ON BACK

Please complete this form it its entirety in accordance with NRS 534.170 and NAC 534.340

NOTICE OF INTENT NO. 64634 (E)

1. OWNER Allied Nevada gold corp
MAILING ADDRESS 9790 Gateway Drive Suite 200 Reno NV 89521

ADDRESS AT WELL LOCATION 55 Miles North of Winnemucca on Jungo RD

2. LOCATION NE ¼ SE ¼ Sec 24 T 35 N/S R 29 E
PERMIT/WAIVER No M/O-1639 | 160110
Issued by Water Resources | Parcel No.

Latitude
Longitude
Subdivision Name:
UTM E 358898.5 ☐ NAD 27
N 4527931.5 ☒ NAD 83/WGS 84
County: Humboldt

3. WORKED PERFORMED
☒ New Well ☐ Replace ☐ Recondition
☐ Deepen ☐ Other...

4. PROPOSED USE
☐ Domestic ☐ Irrigation ☐ Test
☐ Municipal/Industrial ☒ Monitor ☐ Stock

5. WELL TYPE
☐ Cable ☐ Rotary ☐ RVC
☒ Air ☐ Other...

6. LITHOLOGIC LOG

Material	Water Strata	From	To	Thickness
40.890414°N NAD27 D.D.				
118.673948°W				

Date started 8-16, 20 10
Date completed 8-23, 20 10

7. WELL TEST DATA
TEST METHOD: ☐ Bailer ☐ Pump ☐ Air Lift

G.P.M.	Draw Down (Feet Below Static)	Time (Hours)

8. WELL CONSTRUCTION
Depth Drilled 1580 Feet Depth Cased 1580 Feet

HOLE DIAMETER (BIT SIZE)

	From	To
15 Inches	0 Feet	20 Feet
~~[illegible]~~ 8 3/4 Inches	20 Feet	1580 Feet
Inches	Feet	Feet

CASING SCHEDULE

Size O.D. (Inches)	Weight/Ft. (Pounds)	Wall Thickness (Inches)	From (Feet)	To (Feet)
10.3/4	28.04	.250	0	20
2"	Well #1	SCH 80 PVC	~~[illegible]~~	~~1411~~ 1511
2"	Well #2	SCH 80 PCV	0	235

Perforations:
Type of perforation Slot
Size of perforation 0.010
From Well #1 1411 feet to 1511 feet
From Well #2 235 feet to 435 feet
From feet to feet
From feet to feet
From feet to feet

Surface Seal: ☒ Yes ☐ No
Depth of Seal 207 Ft
Placement Method: ☒ Pumped ☐ Poured
Gravel Packed: ☒ Yes ☐ No
From feet to feet

Seal Type:
☒ Neat Cement
☐ Cement Grout
☐ Concrete Grout

9. WATER LEVEL
Static water level 431.9 feet below land surface
Artesian flow G.P.M P.S.I
Water temperature 101.2 °F Quality

10. DRILLER'S CERTIFICATION
This well was drilled under my supervision and the report is true to the best of my knowledge.
Name Layne Christensen
Contractor
Address 11001 Etiwanda Fontana CA 92337
Contractor

Nevada contractor's license number issued by the *State Contractor's Board* 0019101
Nevada driller's license number issued by the Division of Water Resources, the *on-site driller* 1470

Signed [signature]
By driller performing actual drilling on site or contractor
Date 8-30

(Rev. 06/10)

USE ADDITIONAL SHEETS IF NECESSARY

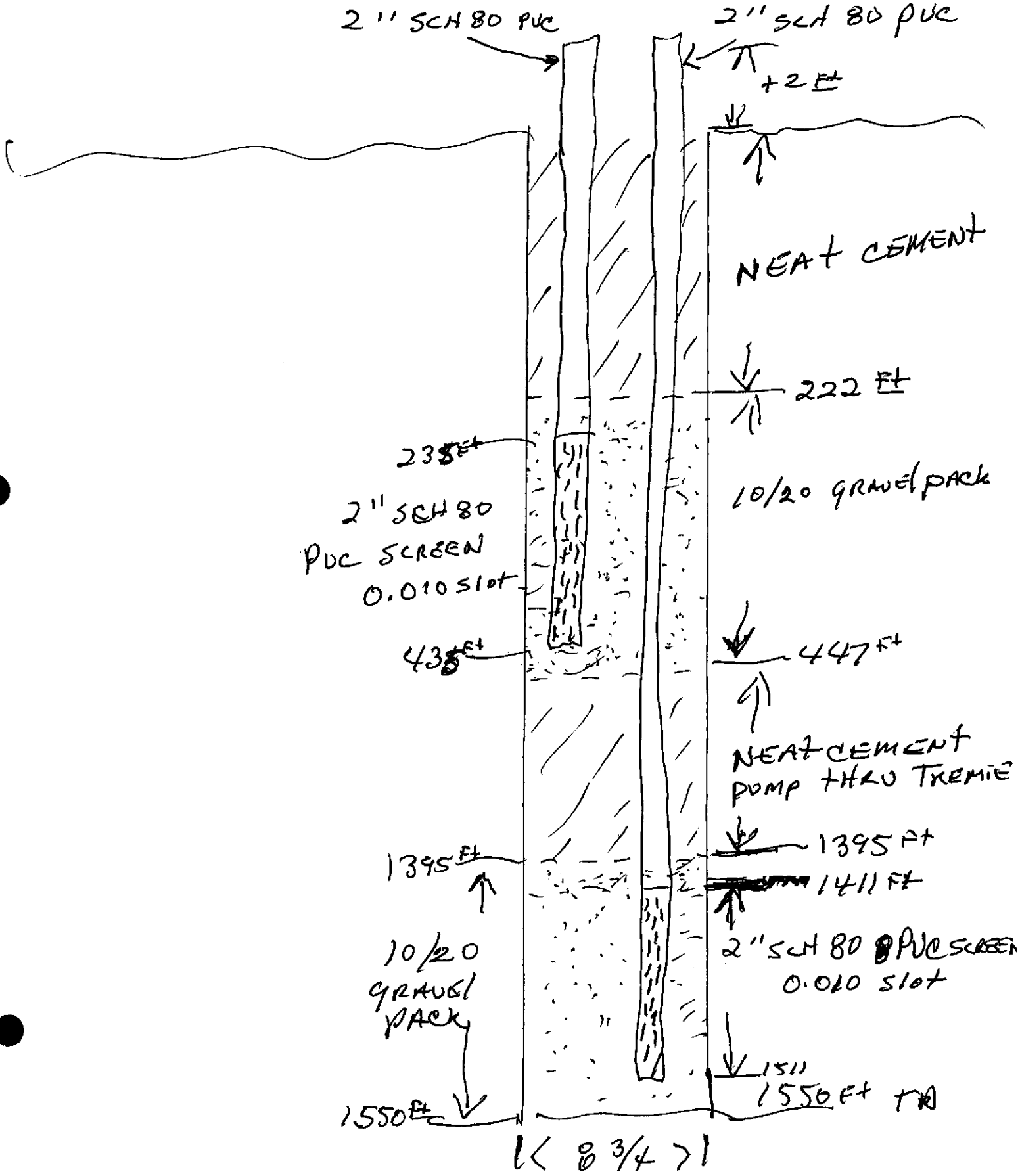
MMH-(F)

NOI # 64634

Hole # H10HR-004 A/B

Static water 431.9

LOS# 111992 2/17



Log# 111992

3/17

LAYNE CHRISTENSEN COMPANY
FORMATION REPORT

Date:	8-16-10	Start Date:	8-16-10
Customer:	Hycroft	Completion Date:	
Job Number:	1025-0107	Diameter of Hole:	8 3/4"
Well Number:	4051	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION
0-5	Over Burden
5-10	" "
10-15	" "
20	Med. Gravel colored - multi
25'	Small Gravel multi colored
30'	Small-med Gravel multi colored
35'	Small gravel muti colored
40'	med. Large gravel multi colored
45'	Small-med. gravel multi colored
50'	Small-med gravel multi colored
55'	med-large gravel multi colored
60'	Small-med gravel multi colored
65'	Med-Gravel multi colored
70'	med-large Gravel multicolored
75'	Small-med Gravel multicolored
80'	Small gravel multicolored
85'	Small-med gravel multicolored
90'	Small gravel multicolored
95'	Small-med gravel multi colored
100'	Small Gravel multicolored
105'	Small Gravel multicolored

Log# 111992
4/17

LAYNE CHRISTENSEN COMPANY
FORMATION REPORT

Date:		Start Date:	8-15-10
Customer:	Hycroft	Completion Date:	
Job Number:	1025-0107	Diameter of Hole:	8 3/4"
Well Number:	H10HR-004-A/B 4051	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION
110	Clay / large Gravel - grey
115	Large Grey Gravel
120	med Grey Gravel
125	med gravel - Grey
130	med - Large gravel Grey
135	Small gravel - Black - Some clay
140	Small / Large Gravel - Black
145	Small / Large Gravel - Black
150	Large gravel - Black / Some clay
155	Large gravel - Black / some Clay
160	Small gravel - Black & grey
165	Large gravel - Black & Grey
170	Clay - Some Small gravel
175	Large Gravel - Black Some clay
180	Large Gravel - Grey Some clay
185	Small - med Gravel Grey
190	med - Large Gravel Grey
195	Small gravel - Grey
200	Large gravel - Grey & Black
205	Small gravel - Grey - Some clay
210	med gravel - Grey - lil clay

Log# 111992
5/17

LAYNE CHRISTENSEN COMPANY
FORMATION REPORT

Date:		Start Date:	8-16-10
Customer:	HyCroft	Completion Date:	
Job Number:	1025-0107	Diameter of Hole:	8 3/4"
Well Number:	4051-A/B	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION
215	med Gravel - multicolored
220	Small - Large Gravel multicolored
225	Small Gravel - Grey & Tan
230	Large Gravel - Grey
235	med Gravel - Grey
240	med Gravel - Grey
245	small - med - Gravel Grey
250	Small Gravel - Grey
255	Small Gravel - Grey
260	Small Gravel - Grey
265	Small - med Gravel Grey
270	Small - med Gravel Grey
275	Small Gravel Grey
280	Small Gravel Grey
285	med Gravel Grey
290	med Gravel Grey
295	med Gravel Grey
300	Small - med Gravel Grey
305	Small - med - Grave Grey
310	med gravel - Grey
315	med Gravel - Grey

LAYNE CHRISTENSEN COMPANY

Log# 111992
6/17

FORMATION REPORT

Date:		Start Date:	8-16-2010
Customer:	HyCROP	Completion Date:	
Job Number:	1025 - 0107	Diameter of Hole:	8 3/4"
Well Number:	4051 - A-13	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION	
320	Gravel	Gray
325	Gravel	Gray
330	Gravel	Gray
335	Gravel	Gray
340	Gravel	Gray
345	Gravel	Gray
350	Gravel	Gray
355	Gravel	Gray
360	Gravel	Gray
365	Gravel	Gray
370	Gravel	Gray
375	Gravel	Gray
380	Gravel	Gray
385	Clay / Gravel	Gray
390	Clay / Gravel	Gray
395	Clay / Some Gravel	Gray
400	Clay / Gravel	Gray
405	Gravel	Gray
410	Large Gravel	Gray
415	Gravel / some clay	Gray
420	Clay / Gravel	Gray

Log# 111992
7/17

LAYNE CHRISTENSEN COMPANY
FORMATION REPORT

Date:		Start Date:	8-16-2010
Customer:	HYCROFT	Completion Date:	
Job Number:	1025 - 0107	Diameter of Hole:	8 3/4"
Well Number:	4051 - A/B	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION	
425	Gravel / Some clay	Gray
430	Large Gravel	Gray
435	Med-Large Gravel	Gray
440	Large Gravel	Gray
445	Gravel	Gray
450	Gravel	Gray
455	Gravel / Clay	Gray
460	Gravel / Some clay	Gray
465	Gravel / Some Clay	Gray
470	Gravel	Gray
475	Large Gravel	Gray
480	Gravel	Gray
485	Gravel	Gray
490	Clay / Some gravel	Gray
495	Gravel / Some Clay	Gray
500	Large Gravel	Gray
505	Large Gravel	Gray
510	Large Gravel	Gray
515	Gravel	Gray
520	Gravel	Gray
525	Small - Large Gravel	Gray

LAYNE CHRISTENSEN COMPANY
FORMATION REPORT

Log# 111992
8/17

Date:	8/16/2010	Start Date:	8-16-10
Customer:	HYCROFT	Completion Date:	
Job Number:	1025-0107	Diameter of Hole:	8 3/4"
Well Number:	H10HR-001 (4051) -A-B	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION
530	med-large Gravel - Gray
535	Small-med Gravel - Gray
540	Clay / Gravel - Brown/ Gray
545	[redacted] SMALL GRAVEL - GREY
550	MEDIUM GRAVEL - GREY
555	SMALL GRAVEL - GREY
560	SMALL GRAVEL - MULTICOLORED
565	MEDIUM GRAVEL GRAY SOME CLAY
570	SMALL GRAVEL GRAY
575	SMALL GRAVEL GRAY
580	SMALL GRAVEL GRAY
585	SMALL GRAVEL MULTICOLORED
590	FINE GRAVEL MULTICORED
595	SMALL GRAVEL MOSTLY REDISH BROWN
600	SMALL GRAVEL MULTICORED
605	MEDIUM GRAVEL MULTICOLORED
610	MEDIUM GRAVEL MULTICOLORED
615	MEDIUM GRAVEL MULTICOLORED SOME CLAY
620	MEDIUM GRAVEL MOSTLY RED
625	SMALL GRAVEL - MULTICOLORED
630	SMALL GRAVEL - MULTICOLORED

LAYNE CHRISTENSEN COMPANY
FORMATION REPORT

Log # 111992
9/17

Date:	8-16-2010	Start Date:	8/15/2010
Customer:	HYCROFT	Completion Date:	
Job Number:	1025-0107	Diameter of Hole:	8 3/4"
Well Number:	H10HR-001-A-B (4051)	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION
635	SMALL MULTICOLORED GRAVEL
640	MEDIUM MULTICOLORED GRAVEL
645	MEDIUM MULTICOLORED GRAVEL
650	SMALL MULTICOLORED GRAVEL
655	SMALL MULTICOLORED GRAVEL
660	SMALL MULTICOLORED GRAVEL
665	SMALL MULTICOLORED GRAVEL
670	SMALL MULTICOLORED GRAVEL
675	SMALL MULTICOLORED GRAVEL
680	MEDIUM MULTICOLORED GRAVEL
685	MEDIUM MULTICOLORD GRAVEL
690	FINE MULTICOLORED GRAVEL
695	SMALL GRAVEL MOSTLY GRAY
700	SMALL GRAVEL MOSTLY GRAY
705	SMALL GRAVEL MOSTLY GRAY
710	SMALL GRAVEL MOSTLY GREY
715	SMALL GRAVEL MOSTLY GRAY
720	SMALL GRAVEL SOME GRAY SILT
725	SMALL GRAVEL MULTICOLORED
730	SMALL GRAVEL GRAY
735	SMALL GRAVEL GRAY

Log# 111992
10/17

LAYNE CHRISTENSEN COMPANY
FORMATION REPORT

Date:	8/16/2010	Start Date:	8/15/10
Customer:	HYCROFT	Completion Date:	
Job Number:	1025-0107	Diameter of Hole:	8 3/4"
Well Number:	H70HR-004-A-B	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION
740	SMALL GRAVEL MULTICOLORED
745	SMALL GRAVEL MULTICOLORED
750	MEDIUM GRAVEL MULTICOLORED
755	SMALL GRAVEL GREY
760	SMALL GRAVEL MULTICOLORED
765	SMALL GRAVEL MULTICOLORED
770	SMALL GRAVEL MULTICOLORED
775	MEDIUM GRAVEL MULTICOLORED GRAY
780	SMALL GRAVEL RED/BROWN
785	SMALL GRAVEL RED/BROWN
790	SMALL GRAVEL RED/BROWN
795	MEDIUM GRAVEL GRAYISH
800	SMALL GRAVEL RED/BROWN
805	MEDIUM GRAVEL MULTICOLORED
810	SMALL GRAVEL MULTICOLORED
815	SMALL GRAVEL MULTICOLORED
820	SMALL GRAVEL MULTICOLORED
825	SMALL GRAVEL MULTICOLORED
830	MEDIUM GRAVEL MULTICOLORED
835	MEDIUM GRAVEL MULTICOLORED
840	SMALL GRAVEL MULTICOLORED

LAYNE CHRISTENSEN COMPANY

Log# 111992
11/17

FORMATION REPORT

Date:	8/16	Start Date:	8/15
Customer:	HycRoft	Completion Date:	
Job Number:	4025 - 0107	Diameter of Hole:	8 3/4"
Well Number:	H10HR-004-A+B 4051	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION
845	SMALL MULTICOLORED GRAVEL
850	Sandy Clay, Gravel- Brown and Gray
855	Gravel, little Bit of Clay Multicolored
860	Gravel, Multicolored
865	Gravel, Multicolored
870	Gravel Multicolored
875	Gravel, Sandy Clay Multicolored
880	Gravel, Sandy Clay Multicolored
885	Sandy, Clay Gray
890	Gravel Multicolored
895	Gravel, Sandy Clay Gray
900	Gravel, Sandy Clay Gray
905	Gravel, Sandy Clay Multicolored
910	Gravel, Multicolored
915	Gravel, Sandy Clay Gray
920	Sandy Clay, Gravel, Gray
925	Sandy Clay, Gravel Gray
930	Gravel, Multicolored
935	Gravel Multicolored
940	Gravel Gray
945	Gray Gray

LAYNE CHRISTENSEN COMPANY

Log# 111992
12/17

FORMATION REPORT

Date:		Start Date:	8-16-2010
Customer:	Hycroft	Completion Date:	
Job Number:	1025-0107	Diameter of Hole:	8 3/4"
Well Number:	4051-A/B	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION	
950	Gravel,	Multicolored
955	Sandy Clay	Gray
960	Gravel, Sandy Clay	Gray
965	Gravel, Sandy Clay	Gray
970	Gravel,	Multicolored
975	Gravel	Dark Gray,
980	Gravel	Gray
985	Gravel	Gray
990	Gravel	Gray
995	Gravel, Sandy Clay	Gray
1000	Gravel	Gray
1005	Gravel	Gray
1010	Gravel	Gray and Red
1015	Gravel	Gray
1020	Gravel	Gray
1025	Gravel	Gray
1030	Gravel	Gray
1035	Gravel	Gray
1040	Gravel	Gray
1045	Gravel	Gray
1050	Small Gravel	Gray

LAYNE CHRISTENSEN COMPANY

Log# 111992

B/17

FORMATION REPORT

Date:		Start Date:	8-16-2010
Customer:	HycRofT	Completion Date:	
Job Number:	1025-0107	Diameter of Hole:	8 3/4"
Well Number:	4051-A/B	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION	
1055	Gravel	GRAY
1060	Gravel	Gray
1065	Gravel	Gray
1070	Gravel	Gray
1075	Gravel	Gray
1080	Gravel	Gray
1085	Gravel	Gray
1090	Gravel	Gray
1095	Gravel	Gray
1100	Gravel / sandy clay	Gray
1105	Gravel / sandy clay	Gray
1110	Gravel /	Gray
1115	Gravel	Gray
1120	Lrg Gravel	Gray
1125	Gravel	Gray
1130	Gravel	Gray
1135	Small-Large Gravel	Gray
1140	Gravel / clay	Gray
1145	Gravel / clay	Gray
1150	Gravel	Gray
1155	Gravel	Gray

LAYNE CHRISTENSEN COMPANY
FORMATION REPORT

Log# 111992
14/17

Date:	8/17/10	Start Date:	8-15-10
Customer:	HYCROFT	Completion Date:	
Job Number:	1025-0107	Diameter of Hole:	8 3/4"
Well Number:	H10HR-004-A-B (4051)	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION	
1160	Gravel	Gray ~~[illegible]~~
1165	Gravel	Gray
1170	Gravel	Gray
1175	Gravel	Gray
1180	Gravel	Gray
1185	Gravel	Gray
1190	Gravel	Gray
1195	Gravel	Gray
1200	Gravel / Some clay	Gray
1205	Gravel / Some clay	Gray
1210	Large Gravel	Gray
1215	Gravel	Gray
1220	Gravel	Gray
1225	Gravel	Gray
1230	Small-Gravel ~~[illegible]~~	Gray
1235	Small - Large Gravel	Gray
1240	Small - Large Gravel	Gray
1245	Fine Gravel	Gray
1250	Gravel	Gray
1255	Fine Gravel	Gray
1260	Gravel	Gray

LAYNE CHRISTENSEN COMPANY

Log # 111992
15/17

FORMATION REPORT

Date:		Start Date:	08-16-2010
Customer:	Hycroft	Completion Date:	
Job Number:	1025-0107	Diameter of Hole:	8 3/4"
Well Number:	4051 - A/B	Depth of Well:	

FOOTAGE	DESCRIPTION OF FORMATION
1265	fine Gravel Gray
1270	fine Gravel Gray
1275	fine Gravel Gray
1280	fine gravel multicolored
1285	med gravel some clay brown
1290	med gravel gray
1300	fine gravel some clay gray
1305	fine gravel multicolored
1310	fine gravel multicolored
1315	fine gravel multicolored
1320	fine gravel multicolored
1325	fine gravel multicolored
1330	fine gravel multicolored
1335	med gravel gray
1340	fine gravel multicolored
1345	fine gravel multicolored
1350	med gravel gray
1355	fine gravel multicolored
1360	fine gravel multicolored
1365	fine gravel multicolored
1370	med gravel gray

LAYNE CHRISTENSEN COMPANY
FORMATION REPORT

Log# 111992
16/17

Date: _____ Start Date: _____

Customer: _____ Completion Date: _____

Job Number: _____ Diameter of Hole: _____

Well Number: _____ Depth of Well: _____

FOOTAGE	DESCRIPTION OF FORMATION
1375	fine gravel multicol.
1380	fine gravel multicol.
1385	fine gravel multicol.
1390	fine gravel multicol.
1395	fine gravel multicol / some gray
1400	fine gravel multicol.
1405	fine gravel multicol.
1410	fine gravel multicol.
1415	fine gravel multicol.
1420	fine gravel grey some clay
1425	fine gravel grey some clay
1430	fine gravel multicol.
1435	fine gravel multicol.
1440	fine/med gravel multicol.
1445	fine/med gravel multicol.
1450	fine gravel multicol.
1455	fine gravel multicol.
1460	fine gravel multicol.
1465	med gravel grey/multicolered.
1470	fine gravel multicol.
1475	fine gravel multicol.

LAYNE CHRISTENSEN COMPANY

Log# 111992

17/17

FORMATION REPORT

Date: _____ Start Date: _____

Customer: _____ Completion Date: _____

Job Number: _____ Diameter of Hole: _____

Well Number: _____ Depth of Well: _____

FOOTAGE	DESCRIPTION OF FORMATION		
1480	fine	gravel	multicol.
1485	fine	gravel	multicol
1490	fine	gravel	multicol.
1495	fine	gravel	multicol.
1500	fine	gravel	multicol.
1505	fine/med	gravel	multicol.
1510	fine	gravel	multicol.
1515	fine	gravel	multicol.
1520	fine/med	gravel	multicol.
1525	med	gravel	multicol.
1530	fine/med	gravel	multicol.
1535	fine	gravel	multicol.
1540	fine	gravel	multicol.
1545	fine/med	gravel	multicol.
1550	fine	gravel	multicol