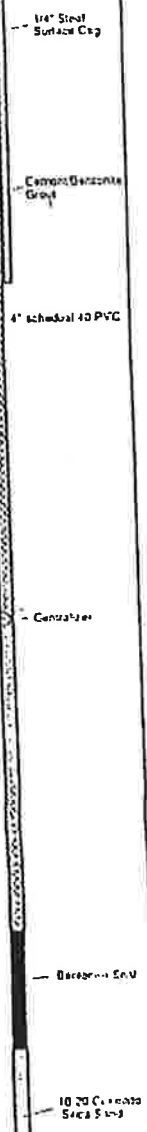
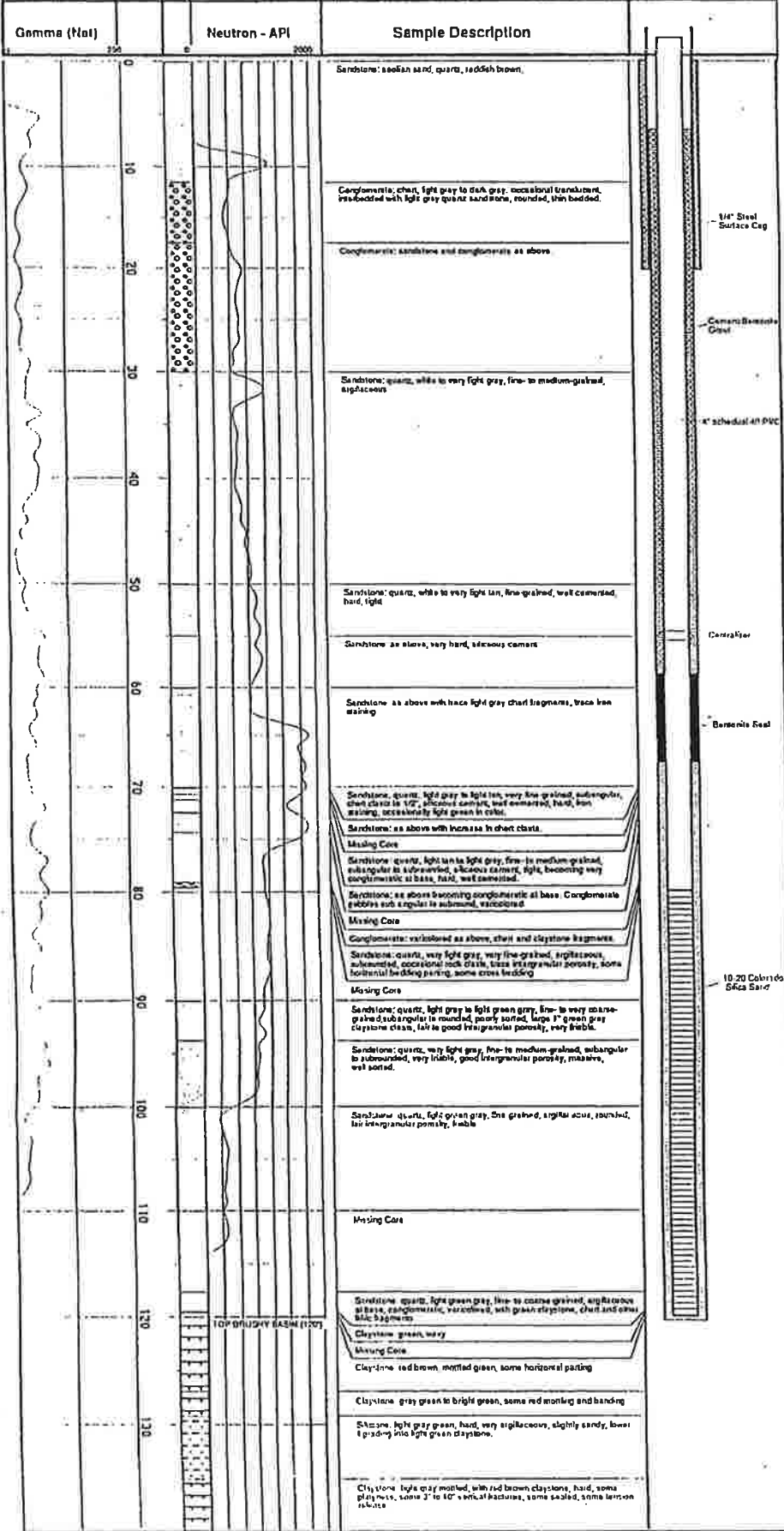


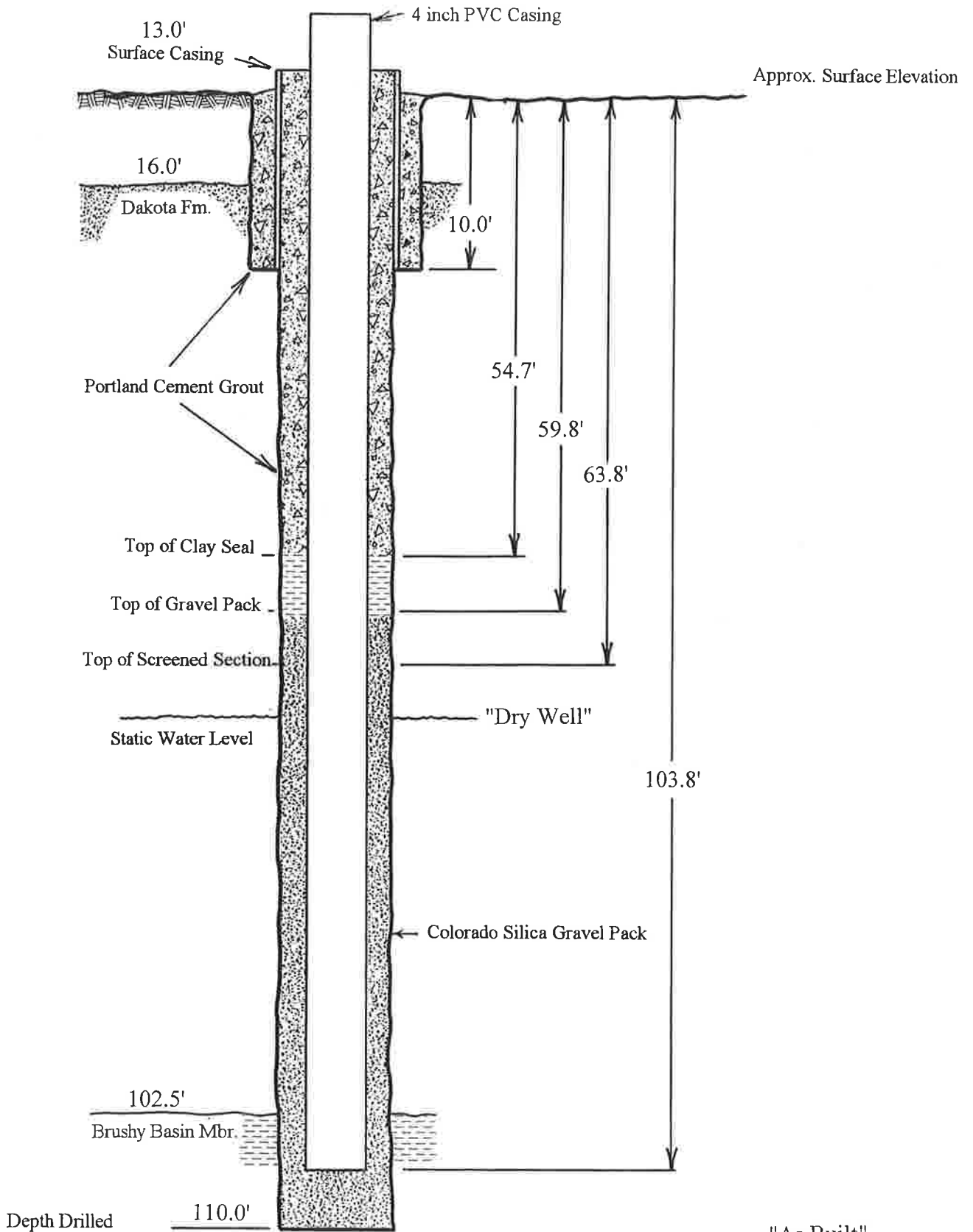
Project: **White Mesa** Surface Elev. **5538 Est** T.D. = **114.5** PBTD = **90'**  
 Date: **8/4/94** Depth to Water: **86.4** Geologist: **C. Bligood**

Gamma (Nat)	Neutron - API	Sample Description
250	0	Sand: quartz, reddish brown, silty, argillaceous, section. 16" Steel Surface Cap
	TOP DAKOTA (12.5)	Sandstone: quartz, light gray to buff, very fine to fine grained, argillaceous, subangular, soft. Cemented Basal Zone Gray
		Sandstone: quartz, light gray, fine to medium grained, argillaceous, soft, trace iron staining, trace phosphate porosity. 4" scheduled 40 PVC
		Sandstone: as above, conglomeratic in part with dark gray chert clasts. Cementation
		Sandstone: quartz, light gray, argillaceous, fine to medium grained, firm. Cementation
		Sandstone: as above, conglomeratic in part, dark gray and white chert clasts. Cementation
		Sandstone: as above, becoming less argillaceous, light brown gray, medium grained, well sorted, fair intergranular porosity. Cementation
		Sandstone: quartz, light gray, medium grained, occasionally coarse grained, subangular to subrounded becoming very argillaceous, shale clasts from 72.0 to 72.5'. Conglomerate: lithic, pebbles, shale and chert clasts, very sandy, poorly sorted, subrounded. Shale: olive green, waxy, soft, top 0.2' blocky, sandy. Missing Core
		Sandstone: quartz, dark reddish green to gray, fine grained, very argillaceous, subrounded, scattered iron staining, massive, hard, light, becoming dark reddish gray, thin bedded and platy at base. Missing Core
	Colling break (001) TOP BRUSLEY BASIN (100)	Siltstone: dark reddish brown, sandy in part, argillaceous, thin stringers of dark red brown silty shale at top. Siltstone: green, waxy, brittle, occasional vertical laminar joints, silty in part, iron staining along 2" or so vertical fractures. Missing Core
		Claystone: dark greenish gray with reddish cast, poorly developed horizontal platting, waxy, filled vertical joints, becoming lighter in color at base. Claystone: light green gray, silty to sandy, hard to very hard. Claystone: red, silty to sandy, hard, mottled green top and bottom, poorly developed horizontal platting. Claystone: dark reddish purple with occasional green fringes, blocky, 2" vertical fracture at base filled with white clay. Claystone: earthy red, poorly developed horizontal platting, some thin vertical 2" to 4" hairline fractures filled and altered to light green in color.
		Sandstone: quartz, light gray green, very fine to medium grained, very argillaceous, subangular, silty, poorly sorted in part grading downward into light green gray siltstone and light green gray shale, very hard and light, very argillaceous and sandy. Claystone: dark red brown, massive, hard. Claystone: light gray green, poorly developed horizontal platting, hard, sharp contact with overlying red shale.



**Project:** White Mesa    **Surface Elev.** 5516 Est    **T.D. =** 140'    **PRTD =** 120'  
**Date:** 8/4/94    **Depth to Water:** 76    **Geologist:** C. Bilgoad





"As Built"

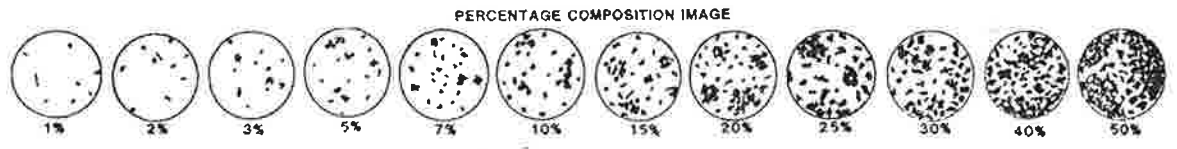
Well Construction Schematic

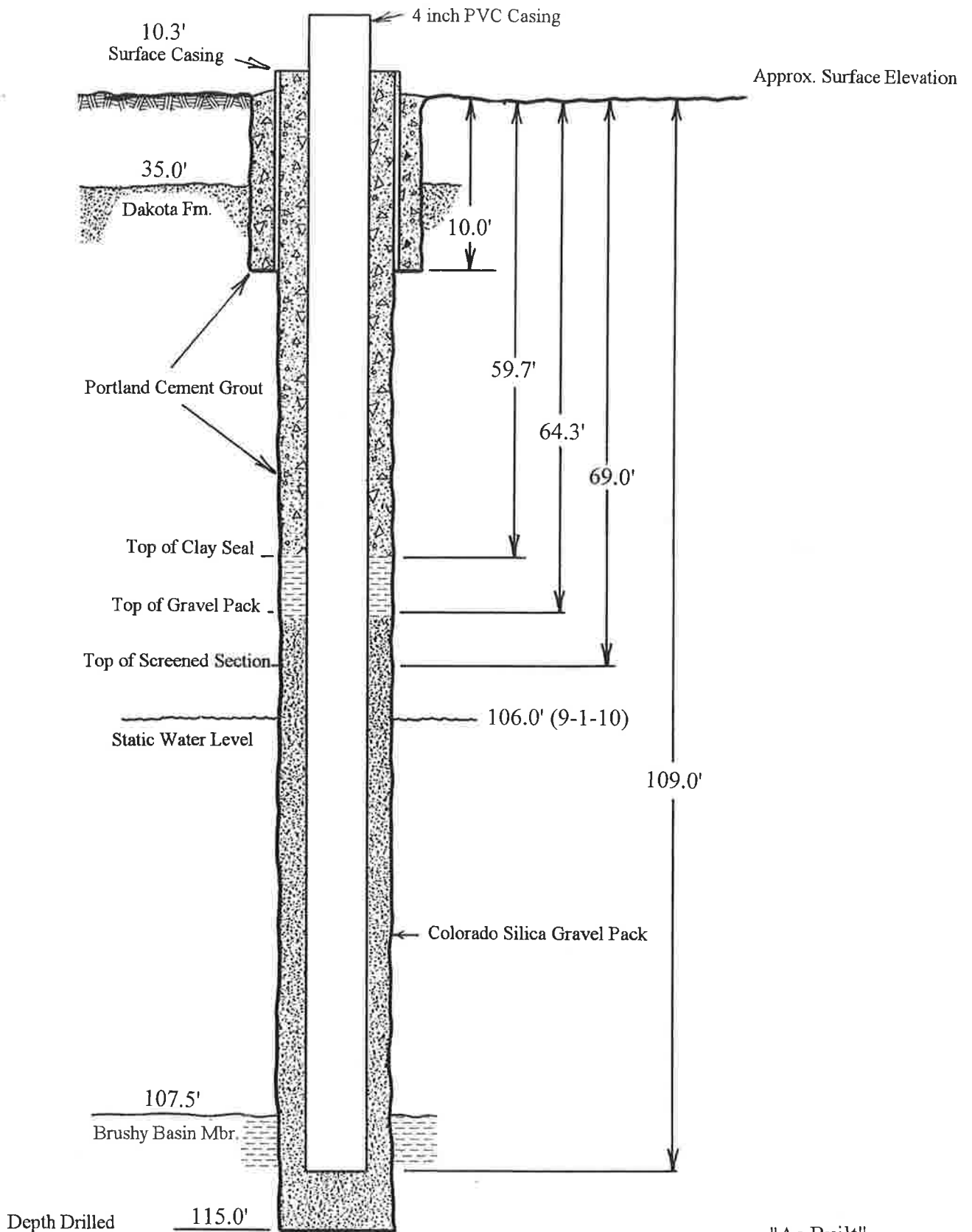
Not to Scale

Date 8-31-10 Geologist L. Casadoff Drilling Co. Bayles Exploration Co. Hole No. 11W-33  
 Property White Mesa Mill - Great Salt Lake Unit No. \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rge. \_\_\_\_\_  
 County San Juan State Utah Location \_\_\_\_\_ Elev. \_\_\_\_\_

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BAMMA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	ALUMIN	PYRITE	METALLIC	NON-METALLIC	REACT. IOR. REL.	ALUMIN. TYPE	CARBON	REMARKS		
																					GRAIN SIZE	GRAIN SIZE
0																						
2.5						mdst	rdbn								S						Surface Soil	
5.0						mdst	rdbn-ltpk								VS						Manos shak. fm.	
7.5						sndy mdst	rdbn-ltpk	m	m	a					VS							
10.0						sndy mdst	rdbn	m	m	a					VS							
12.5						mdst	rdbn								S							
15.0						sh	vltpk								VS							
17.5						sh, qz ss	ltpk	m	m	a					VS						Dolomite fm. Contains 10.0 Gr.	
20.0						qz ss	tn	m	m	a					S							
22.5						qz ss	rdbn-tn	m	m	r					M							
25.0						qz ss	ltpk	m	w	r					M							
27.5						qz ss	ltpk	m	m	a	L				N							
30.0						qz ss	qubn	m	cr	p	a	L			W							
32.5						qz ss	qubn	f	gr	p	a				W							
35.0						qz ss	qubn	m	cr	p	a				N							
37.5						qz ss	qubn	m	cr	p	a				N							
40.0						qz ss	qubn	m	cr	p	a				N							
42.5						mdy qz ss	ltpk	f	gr	p	a				S						most is inferred to be material from 12.5' above	
45.0						qz ss	tn	f	gr	p	a				S						mu. chert grains and frag.	
47.5						qz ss sh	tn	f	gr	p	a				M						some chert grains and fragments	
50.0						qz ss sh	tn-ltpk	f	gr	p	a				W						some chert grains and fragments	
52.5						qz ss sh	tn-ltpk	f	gr	p	a				W						about chert grains	
55.0						qz ss sh	tn-ltpk	f	gr	p	a				W						" " "	
57.5						sh									W							
60.0						sh									W							
62.5						sndy sh	ltpk	f	m	m	a				N							
65.0						sndy sh	ltpk	f	m	m	a				N							
67.5						sh	ltpk								N							
70.0						qz ss sh	ltpk-ltpk	f	m	m	a				S							
72.5						sh	ltpk								W							
75.0						sh	bigy-uvor				L				W							
77.5						sh	bigy								N							
80.0						slt ss	tn	v	f	m	r				N							
82.5						qz ss sh	qubn-uvor	m	w	r	L				N							
85.0						qz ss	vlight	m	cr	m	a				W						qz ss	
87.5						qz ss sh	vlight-ltpk	m	cr	m	a				N							
90.0						qz ss	ltpk	m	cr	m	a				W							
92.5						qz ss	ltpk	m	cr	m	a				M							
95.0						qz ss sh	ltpk-ltpk	m	cr	p	a				N							
97.5						qz ss	ltpk	m	cr	p	a				N							spare chert grains
100.0						qz ss	tn	m	cr	p	a				W							" " " some combination from up hole cuttings
102.5						qz ss	tn	m	cr	m	a	L			M							
105.0						sh	qubn-uvor								N							Bassey Barn (S&W)
107.5						sh	qubn-uvor								W							
110.0						sh	qubn-uvor								N							T.D. well bore was only to T.D.

PAGE 1 OF 1  
 T.D. PROBE \_\_\_\_\_  
 T.D. DRILL 110.0  
 FLUID LEVEL Dry Hole





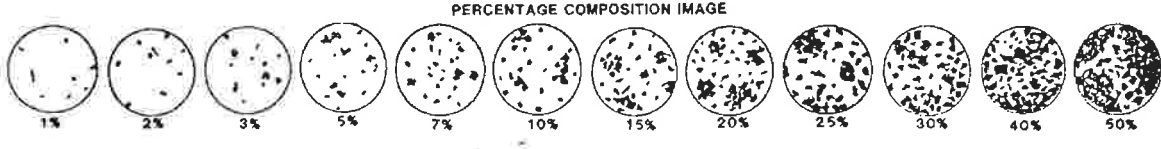
"As Built"

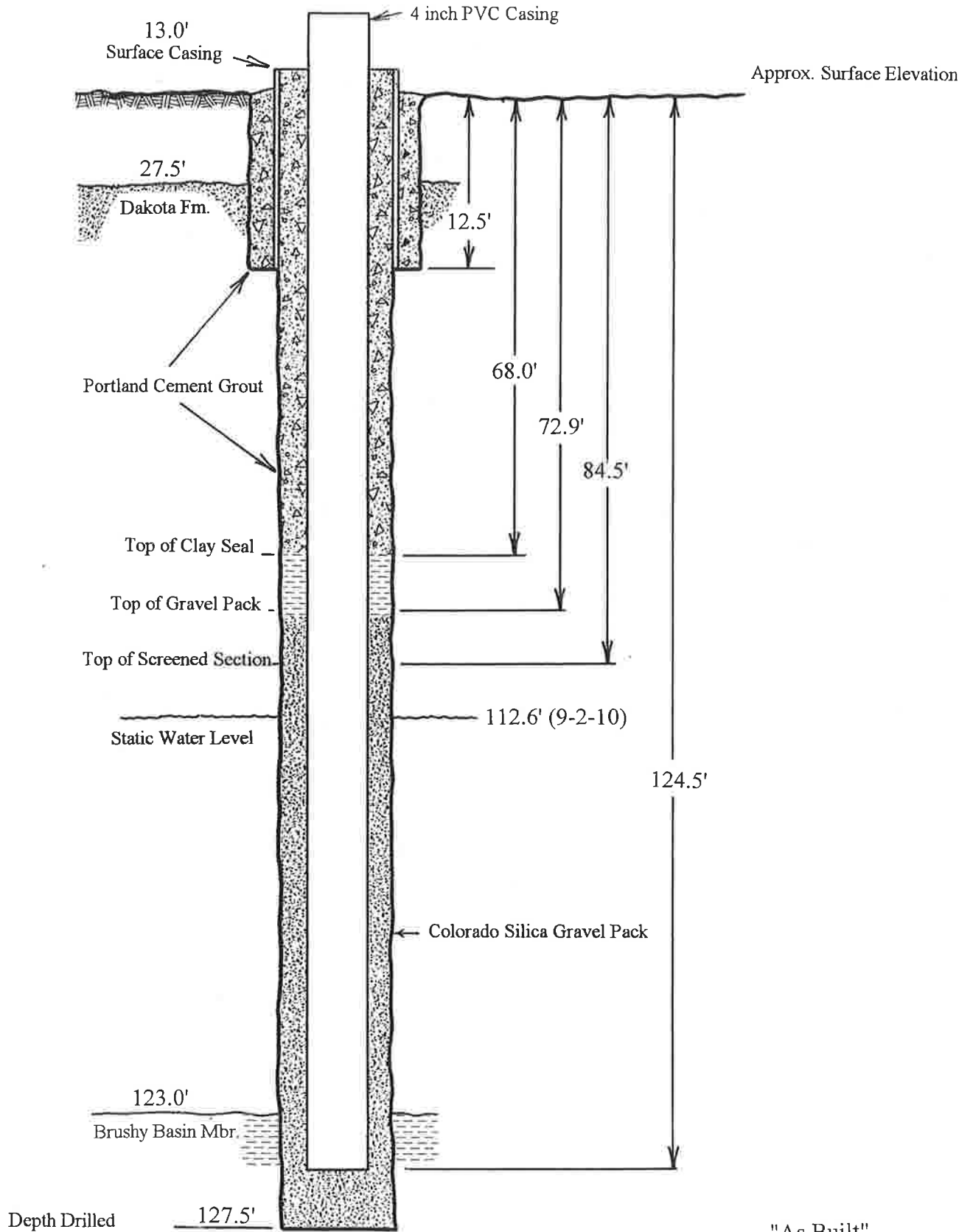
Well Construction Schematic

Not to Scale

Date B-31-16 Geologist L. Casabelli Drilling Co. Bayles Exploration Co. Hole No. MW-34  
 Property White Mesa Project Tailings Cell Unit No. \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rge. \_\_\_\_\_  
 County San Juan State Utah Location TAILINGS CELL DIKE Elev. \_\_\_\_\_

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BIOTITE ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	PYRITE	ALTER.	METALLIC	NON-METALLIC	REACT. TOX. HEL.	AMOUNT	TYPE	REMARKS	
																					PAGE 1 OF 1
0																					
2.5						mdst	rd bn								VS						Compacted fill material for cell dike
5.0						mdst	rd bn-vwbn								VS						
7.5						mdst	rd bn								VS						
10.0						mdst	rd bn								VS						
12.5						mdst	rd bn								VS						
15.0						mdst	rd bn								VS						
17.5						mdst	pk bn								VS						
20.0						sndy mdst	uwgubn f.m p.a								VS						
22.5						sndy mdst	rd bn f.m p.a								VS						
25.0						sndy mdst	lt rd bn f.m m.a								VS						
27.5						sndy mdst	lt rd bn f.m m.a								VS						
30.0						sndy ss	lt pk m f.m p.a								VS						
32.5						qtz ss	tn m.m.a			L					VS						mands show fm.
35.0						sndy ss	uwgubn m-cr m.a								N						
37.5						qtz ss	tn m-cr m.a			L					N						Dakota fm contact @ 35.0 ft.
40.0						qtz ss	lt gcn f-cr p.a								N						poss. tr of hydrocarbon
42.5						qtz ss	vlt tn-wh f-ver p.a								N						Very hard drilling
45.0						qtz ss	vlt tn f.m m.a								N						
47.5						qtz ss	wh m-ver p.a								N						sparse chert grains
50.0						qtz ss	wh m-gr p.a								N						chert grains
52.5						qtz ss	vlt tn f-ver p.a								N						
55.0						qtz ss	tn m-w r								N						
57.5						qtz ss	tn f.m m.a								N						
60.0						qtz ss sh	lt tn-vltan m-ver p.a								N						
62.5						qtz ss sh	lt tn-lt gcn m-gr p.a								N						around multi colored chert grains & frags.
65.0						qtz ss sh	lt tn-lt gcn m-gr p.a								N						
67.5						sh, cal	dkau-lt gcn p.a								N						
70.0						qtz ss sh	wt tn-gcn f-cr p.a			tr					N						dissem. pyrite
72.5						qtz ss	dk tn f-cr p.a			L					N						sparse chert grains
75.0						qtz ss	tn f-cr p.a								S						sparse chert grains
77.5						qtz ss sh	tn-lt gcn f-cr p.a			L					S						
80.0						qtz ss	tn m-cr p.a								S						
82.5						qtz ss	tn f.m m.r								N						
85.0						qtz ss	tn f-w r								S						sparse chert grains
87.5						qtz ss	tn f-w r								N						
90.0						qtz ss sh	vlt gcn f-w r								N						
92.5						qtz ss	vlt tn f.m m.r								N						
95.0						qtz ss	vlt tn m-m r								N						
97.5						qtz ss	vlt tn m-w r								N						
100.0						qtz ss	vlt tn m-w a								N						
102.5						qtz ss sh	vlt tn-wh f-m m.r								S						
105.0						qtz ss	gcn m-ver p.a								S	tr					
107.5						qtz ss	gcn m-ver								M						Moisture first noted @ 107.5
110.0						sh, qtz ss	gcn v-ver								M						Brushy Basin fm contact @ 110.0
112.5						sh	lt gcn								N						
115.0						sh	gcn-pk bn								N						mottled frags.





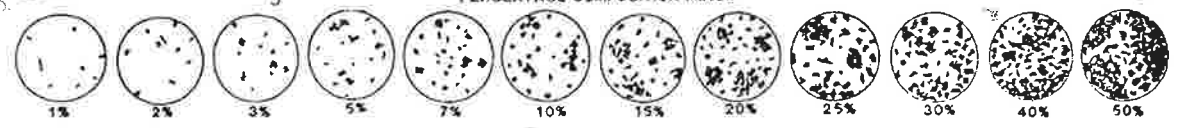
Well Construction Schematic

Not to Scale

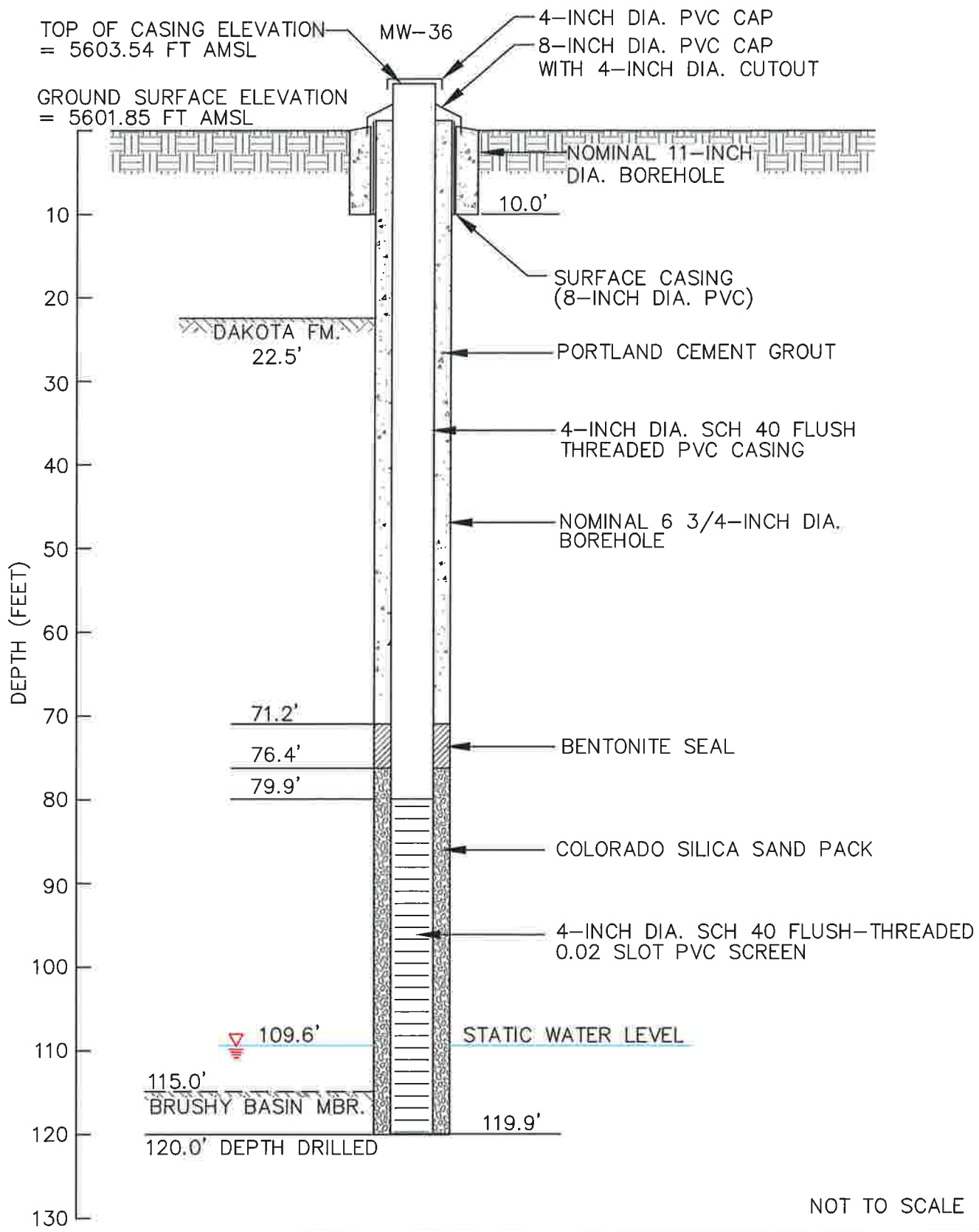
Date 9-1-10 Geologist L. Casabari Drilling Co. Bayles Exploration Co. Hole No. MW-35  
 Property White Mesa Project Tribbles Cr. Unif No. \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ Rge. \_\_\_\_\_  
 County Sdn Twp State Utah Location \_\_\_\_\_ Elev. \_\_\_\_\_

PAGE 1 OF 1  
 T.D. PROBE 1270  
 T.D. DRILL 1275  
 FLUID LEVEL 112.6 (9-2-10)

DEPTH	SAMPLE TAKEN			LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	PYRITE	METALLIC	NON-METALLIC	REACT. 10% HCL	RANDOM TYPE	CARBON	REMARKS
	GRAPHIC LOG	ALTERATION	BAMM ANALYSIS														
0																	
2.5				mdst	rdbr												Surface soil
5.0				Sndy mdst	rdbr	f p a											Manice Strain fm.
7.5				Sndy mdst	lt rdbr	f m p a											
10.0				qtz ss	lt rdbr	vf m p a											
12.5				mdst	rdbr												
15.0				mdst-sh	rdbr-ltgn												
17.5				shale	wh												
20.0				Sndy sn	lt pkn	f m p a											
22.5				Sndy sn	lt pkn	f m p a											
25.0				Sndy sn	wh-gygn	f m p a		L									
27.5				Sndy sn	wh-gygn	f m p a		L									
30.0				qtz ss	tn	m m a		L									Dakota chert frags
32.5				qtz ss	lt tn	m m a											
35.0				qtz ss	lt tn	m m a											
37.5				qtz ss	vt tn	m m p a											
40.0				qtz ss	vt tn	m m p a											
42.5				qtz ss	tn	f m m a											
45.0				qtz ss	tn	f w r											
47.5				qtz ss	gubn	f m w r											
50.0				qtz ss	vt tn	f w r											
52.5				qtz ss	vt tn	f w r											
55.0				qtz ss	tn	f m m a											
57.5				qtz ss	tn	m-cr p a											abund wh-ck chert grains
60.0				qtz ss	tn	f-m m r											some wh-ck chert grains
62.5				qtz ss	tn	f-m m r											
65.0				qtz ss	gubn	m w r											some wh-ck chert frags.
67.5				qtz ss	gubn	m-v-cr p a											abund wh-ck chert frags.
70.0				Sndy sn	lt-gygn	vf f p a		L									thin shale lens
72.5				qtz ss	tn	f m m a											
75.0				qtz ss	tn	m w r											
77.5				qtz ss	tn	f m m r											
80.0				qtz ss	tn	m m r											
82.5				qtz ss	tn	m w r											
85.0				qtz ss	tn	m w r											
87.5				qtz ss-sh	lt-gygn	m m r											
90.0				Sndy sn	lt-gygn	f m r											
92.5				sh	lt-gn												
95.0				sh	lt-gn												
97.5				sh	lt-gygn												
100.0				qtz ss	lt-pkn	f-m m a											
102.5				qtz ss	lt-gy	m w r											
105.0				qtz ss	lt-gy	m w r											
107.5				qtz ss	lt-gy	m-cr m r											
110.0				qtz ss	lt-gy	f-m m r											
112.5				qtz ss	lt-gygn	m-cr m r											Manice Strain mtd 112.5
115.0				qtz ss	lt-gygn	m-cr m r											lt hydrocarbon
117.5				qtz ss	dk-gygn	m-cr p r											abund dk chert frags & grains
120.0				qtz ss	wh-dkgy	v-cr p a											" " " " "
122.5				qtz ss	wh-dkgy	v-cr p a											" " " " "
125.0				col-sh	gy-gn	v-cr p a											Brassy Iron Containing ss
127.5				sh	gn												





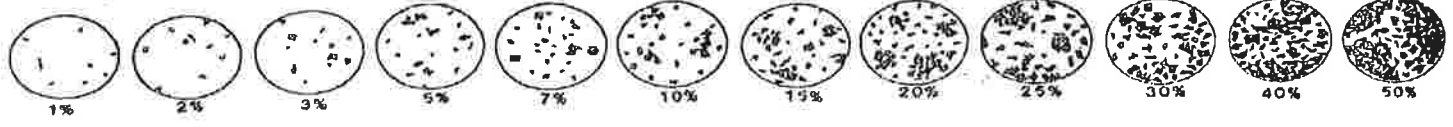


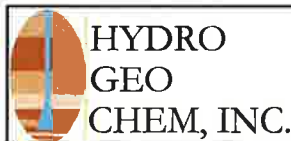
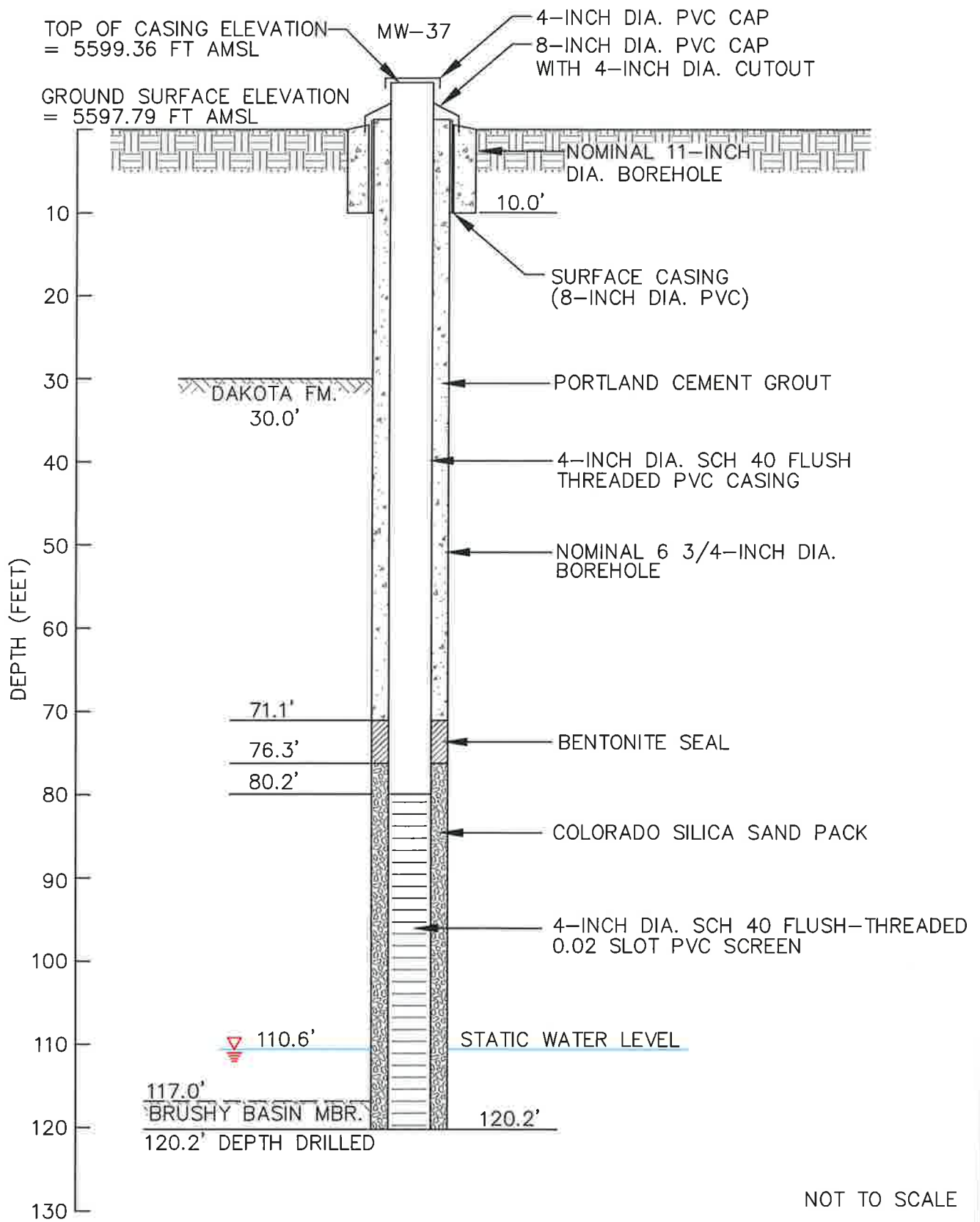
<b>MW-36</b>					
<b>AS-BUILT WELL CONSTRUCTION SCHEMATIC</b>					
Approved SJS	Date 6/21/11	Author JAA	Date 6/21/11	File Name 7180249A	Figure 2

PAGE 1 OF 1  
 T.O. PROBE \_\_\_\_\_  
 T.O. DRILL 120.0  
 FLUID LEVEL \_\_\_\_\_

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	SAMMA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	AMOUNT	PYRITE		NON-METALLIC	REACT-10% HCL	AMOUNT	TYPE	CARBON	REMARKS		
														HABIT	ALTER.								
0						mdst	rdbn								S						Surface soil - unconsolidated	CL	
2.5						mdst, sh	rdbn-ltpk								VS							Manaca sh	CL
5.0							rdbn								VS								CL
7.5							rdbn								S								
10.0							rdbn								S								
12.5							rdbn								S								
15.0							rdbn-ltpk								VS								
17.5							ltpk								VS								
20.0							lywtn								VS								
22.5						siltst	ltpkn								S								
25.0						qtz ss	ywtn		m	w	r				N							Upper Dakota Cl @ 22.5 ft.	
27.5						qtz ss	tn		m	w	r				N								
30.0						qtz ss	tn		m	w	r	L			N								
32.5						qtz ss	tn		m	w	d	L			N								
35.0						qtz ss	tn		m	w	d				N								
37.5						qtz ss	tn		m	w	d				N								
40.0						qtz ss	tn		m	c	m	d			N								
42.5						qtz ss, sh	tn-gy		m	c	m	d			N								
45.0						qtz ss	tn		m	w	r				N								
47.5						qtz ss	tn		f	m	m	r			N								
50.0						qtz ss	tn		m	w	r				N								
52.5						qtz ss	tn		m	c	m	r			N								
55.0						qtz ss	tn		m	w	r				N								
57.5						qtz ss	tn		m	w	r				N								
60.0						qtz ss	ltpk		m	c	m	r			N							Some wh-gy chert grains and frags.	
62.5						qtz ss	tn		m	vc	f	r			N							"	
65.0						sh, siltst	gy-ltpk								N							CL	
67.5						sh	ltpk								N							CH	
70.0						qtz ss	vltgy		vf	f	m	r			N								
72.5						qtz ss	ltpk		m	w	r	L			N								
75.0						qtz ss	ltpk-lywtn		m	w	r	L			S								
77.5						qtz ss	wh-ltpk		m	w	r	L			N							CH	
80.0						sh	ltpk								N								
82.5						sh	pprdbn								N							mottled coatings	
85.0						sh	pprdbn								N								
87.5						sh	ltpk, pprdbn								N								
90.0						sh	ltpk								N								
92.5						qtz ss	vlttn		vf	w	r				N								
95.0						qtz ss	vlttn		vf	w	r				N								
97.5						qtz ss	vlttn		f	m	m	r	L		N								
100.0						qtz ss	vlttn		f	m	m	r			N								
102.5						qtz ss	vlttn		m	w	r				N								
105.0						qtz ss	vlttn		m	w	r	L			N								
107.5						qtz ss	vlttn		m	w	r				N								
110.0						qtz ss	vlttn		m	w	r				N								
112.5						qtz ss	vlttn		f	m	m	d			N							mostly fine vlttn	
115.0						qtz ss	vlttn		f	m	m	r			S							Brushy Basin Ct. @ 115.0	
117.5						sh	blgn								N								
120.0						sh	blgn								N							T.D.	

PERCENTAGE COMPOSITION IMAGE





MW-37					
AS-BUILT WELL CONSTRUCTION SCHEMATIC					
Approved	Date	Author	Date	File Name	Figure
SJS	6/21/11	JAA	6/21/11	7180249A	3

DEPTH	SAMPLE TAKEN	DIAGENIC LOG	ALTERATION	BARITE ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE AMOUNT	PYRITE		NON-METALLIC REACT-10% HCL	AMOUNT	TYPE	REMARKS	
													HABIT	ALTER.					
0																			
2.5						mdst	rdbn								VS				Compacted Tailings Cell Dike Material
5.0						mdst	rdbn								VS				"
7.5						mdst	rdbn								VS				"
10.0						mdst	rdbn								VS				"
12.5						mdst	rdbn								VS				"
15.0						mdst	rdbn								VS				"
17.5						mdst	rdbn								VS				"
20.0						mdst	rdbn								VS				"
22.5						mdst	rdbn								VS				"
25.0						mdst	rdbn								VS				"
27.5						sh	ywbn								VS				Manganese Sh
30.0						sh-mdst	rdbn-ltpk								VS				Manganese Sh
32.5						qtzss, sh	tn	f	m	m	r				VS				Upper Dakota @ R. 300'
35.0						qtzss	tn	f	m	m	r				VW				
37.5						qtz ss sh	tn	f	m	m	r				N				
40.0						qtz ss sh	gybn								N				
42.5						qtz ss, sh	wh-ltorbn-dkgy	m	m	r					N				
45.0						qtz ss	wh-ltorbn	f	m	m	r		L		N				
47.5						qtz ss	vlttn						L		VW				
50.0						qtz ss, qtzite	wh								N				Very hard drilling
52.5						qtz ss, qtzite	wh	f	m	m	r				N				extremely hard drilling
55.0						qtz ss, qtzite	wh-lttn	f	m	m	r				N				moisture first noted @ 54'
57.5						qtz ss	tn	f	m	m	r				N				abund chert grains
60.0						qtz ss, cgl	lttn	m	peb	p	a				N				very abund chert grains and pebbles.
62.5						cgl-sh	ltwgy gn								N				some chert pebble frags.
65.0						sh-cgl	ltgn-tn								N				" " " "
67.5						siltst, qtz ss	lttn	vf	peb	p	a				N				
70.0						qtz ss	lttn	vf	peb	p	t				N				
72.5						qtz ss	lttn	f	peb	p	r				VW				
75.0						qtz ss	lttn	m	peb	p	r				S				
77.5						qtz ss	vlttn	m	peb	p	r				VW				abund chert frags.
80.0						qtz ss	vltbn	m	m	r		L			N				
82.5						qtz ss, cgl	wh-volkgy	m	peb	p	r	L			N				Abund water @ 80.0' abund chert frags & pebbles.
85.0						sh, qtz ss, cgl	lttn-gn	f	peb	p	r	L			N				abund chert frags and pebble.
87.5						sh, qtz ss	gn-wh	f	peb	p	r				N				
90.0						qtz ss	wh	m	peb	m	r				N				
92.5						qtz ss	ltgy bn	m	peb	m	r	L			N				
95.0						qtz ss	vlttn					L			N				
97.5						qtz ss	vlttn	m	peb	p	r				N				
100.0						qtz ss	lttn	m	c	f	r				N				
102.5						qtz ss	lttn	f	m	m	r				W				
105.0						qtz ss	lttn	f	m	m	r				N				
107.5						qtz ss, sh	lttn-gn	f	peb	p	r				N				
110.0						qtz ss	wh-tn	m	w	r		1% C			N				
112.5						qtz ss	vlttn	m	w	r		3% C			W				
115.0						qtz ss	wh-blgn	f	m	m	r	18% C			W				
117.5						qtz ss, sh	wh-blgn								N				Brushy Area @ 117.0' (good contact)
120.0						sh	blgn-pbn								N				120.0 T.D.

PERCENTAGE COMPOSITION IMAGE

