

DEC 13 1999

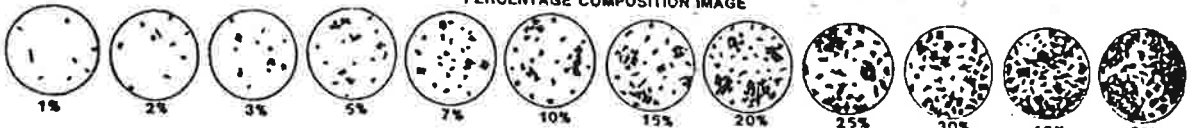
DEC 13 1999

Date 11-5-99 Geologist L. CASEROLT Drilling Co. BAYLES EXPLORATION, INC Hole No. #1
 Property WHITE MESA MIL Project MW-4 PHASE 2 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County SAN JUAN State UTAH Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BARITE ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WE SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMOUNT	NIBIT	ALTER	PYRITE	METALLIC	NON-METALLIC	REACT-10% HCL	AMOUNT	TYPE	REMARKS
0																						
2.5						Sh, siltst	dkrdbn 10R3/4															
5.0						sh, siltst	rdbrn-prdbn															
7.5						Sh, siltst	rdbrn-prdbn															
10.0						Sh, siltst	lt ywgy															Notice color change
12.5						Sh	ywgy															
15.0						Sh	dkrdbrn 10R4 1/2															
17.5						Sh, siltst	dkrdbrn 10R4 1/2															
20.0						Sh, siltst	ywgy brn															Notice selenite (cuprous) crystals
22.5						Sh	dk ywgy															Notice selenite (cuprous) crystals
25.0						Sh	dk ywgy															
27.5						qtz ss	yw brn	M F F SR														
30.0						qtz ss	tn	M F F SR														TOP of BurroCyn Fm
32.5						qtz ss	tn	M F F SR														sparse dark rock fragments
35.0						qtz ss	lt tn	M G R														
37.5						qtz ss	lt tn	M F F SR														
40.0						qtz ss	lt tn	C F P SR														
42.5						qtz ss	lt tn	M F F SR														sparse hematite
45.0						qtz ss	lt tn	M F G R														
47.5						qtz ss	lt tn	M G R														
50.0						qtz ss	lt tn	M G R														
52.5						qtz ss	lt tn	M G R														
55.0						qtz ss	lt tn	C M G WR														Begin Coning @ 55.0'
60.0						qtz ss, sh	lt tn - lt gy	C M G WR														
65.0						qtz ss	lt gy tn	C M G WR														
70.0						qtz ss, Congl	lt gy tn	M F SR														1% dark brown-tn chert & rock fragments
75.0						qtz ss, Congl	tn - lt brn	C M P SR														3% dark brown-tn chert & rock fragments
80.0						Congl	tan, dkgy-blk V C	P SR														large (> 1/4") chert rock fragments & pebbles
85.0						Congl, qtz ss	dkrdbrn - lt tn	C P SR														Congl 60% ss 40%
100.0						qtz ss, Congl	lt tn - lt pe	C P SR														ss 60% Congl 40%
75.0						qtz ss, Congl	lt tn - lt pe	C F SR														ss 75% Congl 25%
100.0						qtz ss	lt yw brn	M F F R														
105.0						qtz ss sh	lt gy tn - lt gy bl	M F R														5% gray blue shale fragments, Base BurroCyn
110.0						qtz ss, sh	tn - lt gy bl	M F P SR														10% gray/blue shale fragments
T.D.																						

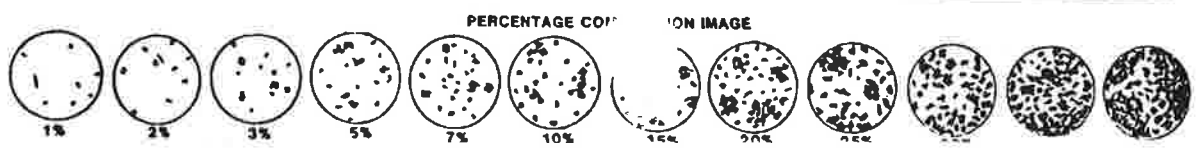
PAGE 1 OF 1
 T.D. PROBE _____
 T.D. DRILL 110.0
 FLUID LEVEL _____

PERCENTAGE COMPOSITION IMAGE



Date 11-02-99 Geologist L. CASEBOLT Drilling Co. BAYLES EXPLORATION, INC. Hole No. #2
 Property WHITE MESA MILL Project MW-4 PHASE 2 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County SAN JUAN State UTAH Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BARITE ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	AMOUNT	HABIT	ALTER.	PYRITE	METALLIC	NON-METALLIC	REACT. TO HCL	AMOUNT	TYPE	CARBON	REMARKS
0																							
2.5						Sh	rdbr-bn										N					Soil	
5.0						Sh	rdbr-										S					Soil	
7.5						Sh	rdbr-lt rdbr										VS						
10.0						Silty sh	rdbr-ywtn										VS					Notable color change silty shale	
12.5						Sh	ywgy										VS					Clean shale	
15.0						Sh	ywgy										VS						
17.5						Sh, siltst	ywgy					H					S					sparse hematite, sparse clear-white qtz grains	
20.0						Sh	ywgy					H					S					Clean shale	
22.5						Sh, siltst	ywgy										S					Silty	
25.0						Sh, siltst	ywgy										VS					Silty, notable selenite crystals	
27.5						Sh, siltst	ywgy					H					m					Shale, siltstone w/ coarse selenite crystals	
30.0						Sh, siltst	ywgy										VS					Silty	
32.5						Sh	yw										S						
35.0						Sh	ywgy										S						
37.5						qtz ss, siltst	ywbn		C	P	R	H					S					Top of Dakota/Burro Cyn Fm	
40.0						qtz ss, siltst	lt tn		C	M	P	R	H				W						
42.5						sh-qtz ss	gy-ywbn		C	W	R	H	SP				VW					Sandstone-shale w/ sparse pyrite	
45.0						qtz ss	vt tn		M	W	R						N						
47.5						qtz ss	lt ywtn										N					Sparse Hematite F-VF	
50.0						qtz ss	lt ywtn		F	V	SE	H					N					Sparse Hematite F-VF	
52.5						qtz ss	lt tn		M	P							N						
57.5						qtz ss	lt tn		M	P							N					Reg. Core at 52.5'	
62.5						qtz ss	lt tn, gy		M	P							N					Color change to gray ss	
67.5						qtz ss	lt ywtn		C	T							W						
72.5						qtz ss	lt tn		M	P	R						N						
77.5						qtz ss	tn		M	V	W						N					1% Dark brown-tan chert fragments plus some conglom	
82.5						Congl, ss	tn		V	M	P	W					N					5% Dark brown-tan chert fragments - first water sh	
87.5						Congl, ss	tn		V	M	P	W					N					3% Dark brown-tan chert fragments - first wet sample	
92.5						Congl, ss	tn		V	M	P	R	SP				N					15% Multi colored chert & rock fragments	
97.5						Congl, ss, Sh	rdbr-gygn-lt, c.m		C	M	P	R					N						
102.5						Ss, Sh	lt tn-gygn		C	M	P	R					N					3% Broken Rec. Fragments	
107.5						Ss, Sh	lt tn-gygn		C	M	P	R					N					Brushy Basin Ch @ 105'	
112.5						Ss, siltst	lt tn-gygn		F	V	P	SR					N						
117.5						Siltst, Sh	lt gygn										N						
120.5						Siltst, Sh	lt gygn										N						
T.D.																							

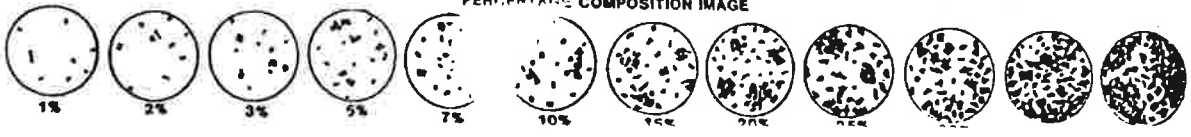


Date 11-16-99 Geologist L. COSEBOLT Drilling Co. BAYLES EXPLORATION, INC. Hole No. #3
 Property WHITE MESA MILL Project MW-4 PHASE 2 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County SAND TOWN State UTAH Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	GAMA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMOUNT	HABIT	ALTER.	METALLIC	NON METALLIC	REACT. TO % HCL	AMOUNT	TYPE	CARBON	REMARKS	
																							AMOUNT
0																							
25						Ss, qtz Ss	lt rdn									S							Soil, frosted qtz grains, vegetation
50						silt, ss	lt rdn-ppk									S							
75						sh	lt rdn									VS							no basic color change
100						sh	lt rdn									VS							
125						sh	lt grn bn									VS							
150						sh	lt wh bn									VS							
175						sh	dk gy bn									VS							silty, sparse manganese dendrites on surfaces
200						sh	dk gy bn									VS							
225						sh	dk gy bn									VS							
250						sh	dk gy bn									VS							1% gypsum (selenite) crystals
275						sh	dk gy bn									VS							2% " " "
300						sh siltst	dk gy bn									VS							1% " " "
325						sh siltst ss	dk gy - dk rdn	VFP	SA							VS							
350						siltst	dk gy bn									W							
375						siltst	dk gy bn			H						N							
400						qtz Ss	lt gy tn		M F	SR	H					N							Top of Burro Cyn Fm.
425						qtz Ss	lt tn		M G	SR	L					N							
450						qtz Ss	lt tn		M G	SR						N							
475						qtz Ss	lt tn		M G	SA	H					N							
500						qtz Ss	bn		m-cr	F SA	H					W							Abundant hematite
525						qtz Ss	tn bn		m-cr	P SA	H					N							" "
550						qtz Ss	tn		m-cr	P SA	H					H							" "
575						qtz Ss	tn		F-m	F SA						H							
600						qtz Ss	lt lgy		M G	SR						N							Dark gray rock fragments 2%
625						qtz Ss	lt tn		F-m	F SR						N							
650						qtz Ss	lt tn		M G	SR						N							
675						qtz Ss	lt tn		F-m	G SR						N							
700						qtz Ss	lt tn		F-m	F SA						N							
725						qtz Ss	lt bn		F-m	F SR						N SP							Sparse carbon from plant fragments
750						qtz Ss	lt bn		F-m	P SA						N							
775						qtz Ss (gl)	lt bn		F-cr	P A						W							Broken rock fragment
800						qtz Ss (gl)	lt bly		F-cr	P A						VS							
825						sh	lt bly									S							contains qtz grains & rock frag. from 775 feet.
850						qtz Ss	lt tn		M G	R						N							
875						qtz Ss	lt tn		M G	R						N							
900						qtz Ss	lt tn		F-m	F SR						N							
925						qtz Ss	lt tn		M G	R						N							
950						qtz Ss	lt tn		m-cr	F SR						N							
975						qtz Ss, sh	lt tn - lt bly		F	F SA						N							Lower contact Burro Cyn Fm.
1000						sh, qtz Ss	lt bly		F-cr	P SA						W							Brushy Basin Mbr. Morrison Fm.
1025						siltst, sh	lt bly									M							
1050						siltst, sh	lt bly-wh									N							
1075						sh	lt bly-wh									N							
1100						sh, qtz Ss	lt bly-wh		F-m	P SA		SP				N							Notable pyrite (<1%)
1125						siltst, qtz Ss	lt bly-wh		F-m	P SA		SP				N							Sparse pyrite
1150						siltst, qtz Ss	bly		F	P SA		SP				N							sparse pyrite
1175						sh, siltst	bly									N							
1200						siltst	bly									N							
1225						siltst, qtz Ss	bly		F-m	P SR		SP				N							Sparse pyrite
125						siltst, qtz Ss	bly-gy		VFP-m	P SR						N							Sparse pyrite, chert fragments Some chert fragments

PAGE 1 OF _____
 T.O. PROBE _____
 T.D. DRILL _____
 FLUID LEVEL _____

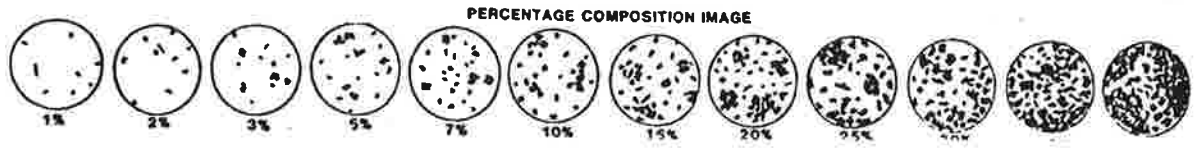
PERCENTAGE COMPOSITION IMAGE



Date 11-17-99 Geologist L. CASEBOLT Drilling Co. BAYLES EXPLORATION, INC. Hole No. #3
 Property WHITE MESA MILL Project MW-4 PHASE 2 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County SAUJUAN State UTAH Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	GAMMA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMOUNT	HABIT	ALTER.	METALLIC	NON-METALLIC	REACT. TO HCL	AMOUNT	TYPE	CARBON	REMARKS
125.0																						
127.5						qtz, Ss, Cgl	Wh - lt blay	m-cl	P	SA		SP					VW					Sparse pyrite, some blk silts. Multi-colored chert
130.0						qtz, Ss, Cgl	Wh	m-cl	P	SA							M					Multi-colored chert & quartz fragments
132.5						qtz, Ss, Cgl	Wh	m-cl	P	SA							VW					" " " "
135.0						qtz, Ss, Sh	Wh-dk opbn	m-cl	P	SA							N					Ss 50%, sh 50%
137.5						Sh	dk opbn										N					
140.0						Sh	dk ppbn										N					
T.D.																						

PAGE _____ OF _____
 T.D. PROBE _____
 T.D. DRILL _____
 FLUID LEVEL _____



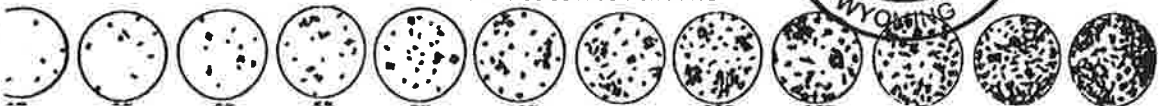
Date 5-11-2000 Geologist L. CASEBOLT Drilling Co. BAYLES EXPLORATION, INC. Hole No. TW4-4
 Property WHITE MESA MILL Project MW-4 PHASE 2 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County SAN JUAN State UTAH Location _____ Elev. _____

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 T.D. PROBE _____
 T.D. DRILL 112.0
 FLUID LEVEL DRY WELL

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BARINA ANOMALY	BREGCIA PIPE	LITHOLOGY	COLOR WET SAMPLE	GRAIN SIZE SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	PYRITE		NON METALLIC	REACT. ION MEL.	AMOUNT	TYPE	REMARKS
												AMOUNT	ALTER.					
0						Siltst/caliche	dk rd bn-wh						VS					Soil/caliche w/ wood & plant frag.
0.5						Siltst/Qtz Ss	lt bn	F	F	SA			VS					
0.5						Qtz Ss	lt bn	F	F	SA			VS					
0.5						Qtz Ss	lt bn	F	F	SA			S					
0.5						Sh	lt gy bn	m	F	P	SA		S					
0.5						Sh	lt gy bn	m	F	P	SA		S					
0.5						Sh	lt gy bn	m	F	P	SA		S					
0.5						Qtz Ss	lt tn	m	F	P	SA		H					Upper Burro Cyn contact @ 17.5' notable color change
0.5						Qtz Ss	vlt tn	m	F	F	SA		N					
0.5						Qtz Ss	lt tn	F	F	SA			N					
0.5						Qtz Ss	lt tn	m	F	P	SA		NW					
0.5						Qtz Ss	lt tn	m	F	P	SA		S					
0.5						Qtz Ss	lt tn	m	F	SA			S					
0.5						Qtz Ss	vlt tn	m	G	SR			N					
0.5						Qtz Ss	vlt tn	m	G	SR			N					notable absence of hematite in this zone.
0.5						Qtz Ss	vlt tn	m	G	SR			N					
0.5						Qtz Ss	lt tn	m	G	SR			N					
0.5						Qtz Ss	lt tn	m	G	SR			N					
0.5						Qtz Ss	lt tn	F	G	SR			N					
0.5						Qtz Ss	lt tn	F	G	SR			N					
0.5						Qtz Ss	lt tn	F	G	SR			N					
0.5						Qtz Ss	lt tn	m	F	G	SR		N					Multicolored chert & rock frag.
0.5						Qtz Ss	lt gy tn	m	G	R			N					
0.5						Qtz Ss	lt gy tn	m	G	SR			N					
0.5						Qtz Ss	lt gy tn	m	G	SR			N					
0.5						Qtz Ss	lt gy tn	m	F	SR			N	SP	P			Sparse carbon frag.
0.5						Qtz Ss	lt gy tn	m	F	SA			N	SP	P			Sparse carbon and wh chert fragments
0.5						Qtz Ss	lt tn	m	F	SA			N					wh-bk chert fragments
0.5						Qtz Ss	lt tn	m	F	SA			N					
0.5						Qtz Ss	tn	m	F	SA			N					
0.5						Qtz Ss	tn	m	F	SA			N					
0.5						Qtz Ss, Cal	lt tn	m	F	A	SP		S					dk gy-bk chert frag.
0.5						Sh	lt bl gy						N					Abund. dk gy-wh chert frag. poss congl. sp hematite
0.5						Qtz Ss	vlt tn	F	G	SR			S					
0.5						Qtz Ss	vlt tn	F	G	SR			N					
0.5						Qtz Ss	vlt tn	F	G	SR			N					
0.5						Qtz Ss	vlt tn	F	G	SR			N					
0.5						Sh, Qtz Ss	bl gy	m	F	P	SA		N					Basal Burro Cyn fm. contact at 90.0 feet.
0.5						Sh	bl gy						N					dk rd bn Qtzite rock fragments/poss egl.
0.5						Qtz Ss, Sh	vlt bl gy	m	F	P	SA		N					sp dk rd bn Qtzite rock fragments.
0.5						Sh	bl gy						N					very sparse chert fragments
0.5						Sh	bl gy						N					
0.5						Sh	bl gy						N					
0.5						Sh, Qtz Ss	lt gy	F	F	SA			N					
0.5						Sh, Qtz Ss	lt gy	F	F	SA			N					
0.5						Sh	lt gy-dk rd bn						N					



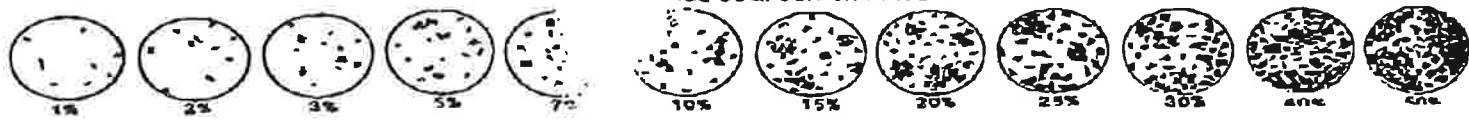
PERCENTAGE COMPOSITION IMAGE



Date 12-15-99 Geologist L. CASEBOLT Drilling Co. BOYLES EXPLORATION, INC Hole No. 99-09-002-M-05
 Property WHITE MESA MILL Project MW-4 PHASE 2 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County SAN JUAN State UTAH Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	DAMAGE ANOMALY	BREGGIA PIPE	LITHOLOGY	COLOR WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	PYRITE		NON-METALLIC	REACT. 10% HCL	AMOUNT	TYPE	REMARKS
													ALTB.	METALLO.					
0						siltst	dk rdbn							VS					Soil (plant fragments)
2.5						siltst	rdbn- ltpk							VS					ltpk fragments calcite
5.0						siltst	lt rdbn							VS					
7.5						siltst	lt rdbn							VS					
10.0						sh	wh- vltpk							VS					
12.5						sh, siltst	wh- vltpk							VS					
15.0						sh, siltst	wh- lttn							VS					
17.5						sh	lt qzbn							VS					selecite crystals, manganese dendrites
20.0						sh	qzbn							VS					
22.5						sh	qz qzbn							VS					selecite crystals
25.0						sh	qzbn							VS					abundant selecite crystals, manganese dendrites
27.5						sh	qzbn							S					" " " "
30.0						sh	qz qzbn				H			S					" " " "
32.5						sh, siltst	qz qzbn							M					
35.0																			Helper missed this sample - No data
37.5																			First show of Burro Cyn Fm. Sandstone @ 38.2 feet
40.0						qtz ss	lt qzbn	F	M	G	SR			VM					
42.5						qtz ss	lt tn	F	M	F	SR			N					
45.0						qtz ss	lt tn	M	G	SR				N					
47.5						qtz ss	lt tn	M	G	SR				N					
50.0						qtz ss	tn	F	M	F	SR			N					
52.5						qtz ss	tn	F	M	F	SR			N					
55.0						qtz ss	tn	F	M	F	SR			N					
57.5						qtz ss	lt qztn	F	F	SA				N					
60.0						qtz ss	lt qztn	VF	F	F	SA			N					
62.5						qtz ss	vlt tn	VF	G	SR				N	T	P			
65.0						qtz ss, siltst	vlt tn	VF	G	SA				N	T	P			trace carbon plant fragments
67.5						qtz ss, siltst	vlt qztn	VF	G	SA				N	A	P			abundant " " "
70.0						qtz ss	qz tn	VF	F	G	SA			N	A	P			" " " "
72.5						qtz ss	qz tn	F	G	SA				N	A	P			" " " "
75.0						qtz ss	tn	M	G	F	SR			N					trace carbon plant fragments, chert frag.
77.5						qtz ss	lt tn	F	M	F	SR			N					
80.0						qtz ss	lt tn	F	M	F	SR			N					
82.5						qtz ss, sh	wh- vlt lqy	VF	F	F	SR			N					
85.0						sh	lt lqy				T			N					
87.5						sh	lt lqy- rdbn				T			N					
90.0						qtz ss	lt tn	F	F	SR				N					
92.5						qtz ss	lt tn	F	M	G	SR			N					
95.0						qtz ss	tn	M	G	R				N					
97.5						qtz ss, cgl	tn	F	R	G	R			N					abundant dkgy chert fragments and pebbles
100.0						qtz ss, cgl	tn- qz	CR	G	R				N					" " " " "
102.5						sh	lt lqy- rdbn							N					Upper Ck. Brushy Basin Fm. @ 102.5 feet
105.0						qtz ss	lt tn	VF	F	P	SR			N					
107.5						qtz ss	lt tn	M	F	SR		T		N					
110.0																			cuttings washed away - no sample
112.5						qtz ss, cgl	lt qztn	F	M	P	SR			N					dkgybn chert fragments and pebbles
115.0						qtz ss, siltst	lt rdbn	VF	F	F	SR			N					
117.5						qtz ss, siltst	lt rdbn	VF	F	F	SR			N					
120.0														N					

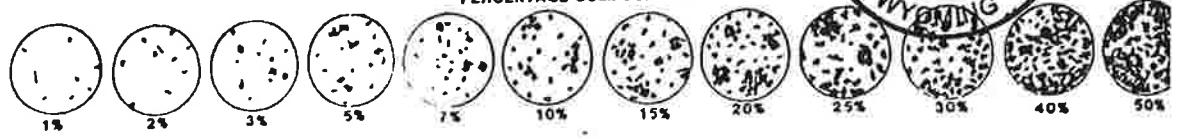
FACE COMPOSITION IMAGE



DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	GAMA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	GENERAL MATRIX	IRON OXIDE	AMOUNT	HABIT	PYRITE ALTER	NON-METALLIC	REACT-10% HCL	AMOUNT	TYPE	REMARKS	
																					TYPE
0																					
2.5						Sh, siltst, ss	dk rd bn	C M VP								S					Soil, very sparse clear qtz grains, plant frag
5.0						Sh, siltst	dk rd bn-lt rd bn								V5						
7.5						Siltst	lt p, tn								V5						
10.0						Sh, qtz ss	lt yugy	C M P R			SP				V5						Noteable color change
12.5						Sh, siltst	lt yugy								V5						
15.0						Sh, qtz ss	lt yugy	C M F SR			SP				V5						Hematite as grains, and clusters, qtz grains
17.5						Sh, qtz ss	lt yugy	C M F SR			SP				S						" some sparse gypsum (selenite xls)
20.0						Sh, siltst	lt yugy								W						
22.5						Sh, siltst	lt yugy								W						Upper Burro Cyn Fm. Contact at 22.5 ft.
25.0						Qtz ss	lt gy tn	G SR		SP					VW						Qtz grains clear, sparse hematite as grains, ch
27.5						Qtz ss	lt gy tn	F P SA		SP					N						Sparse dk gy chert frag, some gy shale.
30.0						Qtz ss	lt tn	L SR		SP					N						
32.5						Qtz ss	lt gy tn	C M SA		A					N						Abund. hematite, abund. wh-dkgy chert frag.
35.0						Qtz ss	tn	C M		S					N						Some hematite abund wh-dkgy chert frag
37.5						Qtz ss	tn	C M		S					VW						" "
40.0						Sh, Qtz ss	gy	C M A		SP					VW						
42.5						Qtz ss	tn	M C R		SP					N						Nice clean sand.
45.0						Qtz ss	tn	M		SP					N						
47.5						Qtz ss, sh	lt gy tn	F M		SP					N						sparse shale frag.
50.0						Qtz ss	lt tn	F G		SP					N						
52.5						Qtz ss	lt tn	F G							N SP P						Sparse carbon (plant fragments)
55.0						Qtz ss, sh	lt gy	F F							N S P						Some carbon (plant fragments) wh chert frag
57.5						Qtz ss	gy	F F							N VA P						Abundant carbon, some wh chert frag.
60.0						Qtz ss	gy	M F P SA							N A P						
62.5						Qtz ss	gy tn	M F F SA							N SP						
65.0						Qtz ss	gy tn	M F F SA							N SP						wh-bk chert fragments
67.5						Qtz ss	lt tn	M F F SA		SP					N						wh-bk chert fragments
70.0						Qtz ss	tn	M F G SA							N						wh-bk chert frag.
72.5						Qtz ss, cal	tn	C F P SA							S						Coarse, multi colored chert & rock fragments possible
75.00						Qtz ss	vlt tn	F F SA							N						very clean sand
77.5						Qtz ss	vlt tn	F F SA							N						" "
80.0						Qtz ss	vlt tn	F F SA							N						" "
82.5						Qtz ss	vlt tn	F F SA		S					W						Some granular pyrite frag.
85.0						Qtz ss	vlt gy tn	F F SA		SP					N						" " " "
87.5						Sh, qtz ss	gy	M P SA		SP					N SP						
90.0						Qtz ss, sh	gy	C M P SA		SP					N SP						Carbon & pyrite frag. with multi colored chert frag
92.5						Qtz ss	lt or tn	M G SE							N						Nice clean sand
95.0						Qtz ss	lt or tn	M G SR							VW						Basal Burro Cyn. Fm Contact @ 95.0 feet
97.5						Sh, cgl	blgy-tn	C VP SA		S					N						Upper Brushy Basin contact, pyrite grains w/ gy chert fragments, noteable color change
T.D.																					



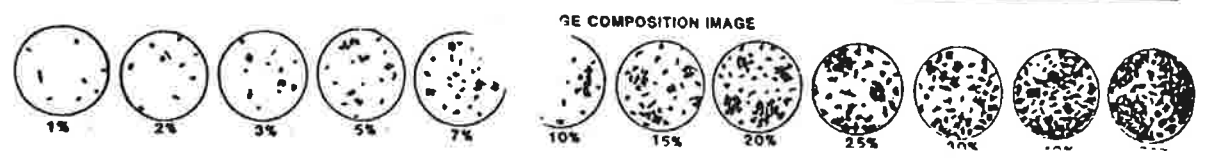
PERCENTAGE COMPOSITION IMAGE



Date 11-17-99 Geologist L Casebolt Drilling Co. BAILES EXPLORATION, INC Hole No. #7
 Property WHITE MESA MILL Project MNH4 PHASE 2 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County SAN JUAN State UTAH Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	GAMMA ANOMALY	BREGGIA PIPE	LITHOLOGY	COLOR WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	AMOUNT	HABIT	PYRITE	ALTER	METALLIC	NON-METALLIC	REACT. 10% HCL	AMOUNT	TYPE	CARBON	REMARKS
0																							
2.5						Siltst Sh	dkrdbn																Soil
5.0						siltst sh	dkrdbn-ltprtn																noteable color change
7.5						siltst sh	ltprtn																
10.0						Sh	ywgy																noteable color change, some manganese dend
12.5						Sh	ywgy																
15.0						Sh	ywgy																
17.5						Sh	ywgy																sparse limonite
20.0						qtz ss, siltst	ywgy	VF P SA															gypsum (selenite) crystals
22.5						siltst sh	ywgy																20% gypsum (selenite) crystals
25.0						siltst sh	ywgy																20% gypsum (selenite) crystals
27.5						siltst sh	ywgy																10% gypsum (selenite) crystals
30.0						qtz ss	lttn	F M F SA															Top of Burro Cyn. Fm.
32.5						qtz ss	lttn	F M F SA															
35.0						qtz ss	lttn	M G SR															Sparse limonite
37.5						qtz ss	lttn	M G SR															Sparse limonite
40.0						qtz ss	lttn	F M F SA															
42.5						qtz ss	tn	F M F SA															
45.0						qtz ss	ltgytn	F F SA															
47.5						qtz ss	lttn	F F SR															
50.0						qtz ss	lttn	F M F SR															
52.5						qtz ss	vlttn	F G SR															
55.0						qtz ss	vlttn	VF F G SA															
57.5						qtz ss	lttn	VF F F SA															
60.0						qtz ss, sh	tnbn-gy	F M F SA															
62.5						qtz ss, sh	dkgybn																
65.0																							
67.5							no cuttings																Lost circulation at this depth - no cuttings
70.0																							" " " " " "
72.5																							" " " " " "
75.0						qtz ss	ltbn	M G SA															Began H2O injection w/ foam
77.5						qtz ss, cal	ltgytn	micr P SA															Sparse carbon as plant frag. chert fragments
80.0						qtz ss, cal	ltgy-wh	m-cr P SA															Chert & quartzite rock fragments sparse hematite
82.5						qtz ss, cal	lttn	m-cr P A															" " " " " "
85.0						qtz ss, cal	tn-rdln	m-cr P A															abundant rd & bk chert fragments
87.5						qtz ss, cal	tn-multicolor	m-cr P A															Very large & abundant chert fragments
90.0						qtz ss, sh	lttn-ltblgy	F M F SA															lt bl shale fragments, 5%
92.5						qtz ss, sh	lttnbn-ltblgy	F M F SA															Sparse pyrite as cement/matrix around qtz grains
95.0						qtz ss	lttn-ltorbn	F M F SA															" " " " " "
97.5						qtz ss	vlttn	F M F SA															Base of Burro Cyn. Fm.
100.0						siltst	wh																
102.5						sh, siltst	ltblgy																
105.0						sh, siltst	dkrdbn-blgy																Shale frag, mottled, reduced from rdln-blgy
107.5						sh, siltst	dkppbn-blgy																
110.0						siltst, cal	ltblgy																Dark gray chert frag. & pebbles
112.5						qtz ss, cal, sh	ltblgy	m-cr P A															coarse, clear qtz grains, large rock fragments, pebbles
115.0						sh, siltst	vtblgy																
117.5						sh	ltblgy																
120.0						sh	ltblgy																

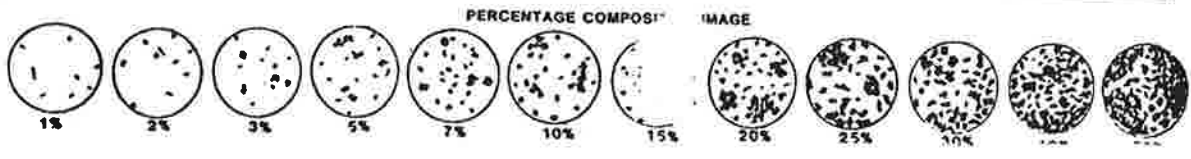
PAGE 1 OF _____
 T.O. PROBE _____
 T.O. DRILL _____
 FLUID LEVEL _____



Date 11-17-99 Geologist L. CASEGOLT Drilling Co. BAYLES EXPLORATION INC. Hole No. #8
 Property WHITE MESA MILL Project MWY PHASE 2 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County SAN JUAN State UTAH Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BARNA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMOUNT	HABIT	ALTER	METALLIC	NON METALLIC	REACT. 10% HCL	AMOUNT	TYPE	CARBON	REMARKS
0																						
2.5						silt-sh	rdbn									S						Soil
5.0						silt-sh	rdbn-ltpktn									S						
7.5						silt-sh	rdbn-ltpktn									VS						
10.0						silt-sh	lttn-rdbn									VS						noteable color change
12.5						Sh	dkywb									S						
15.0						Sh	dkywb									VS						manganese dendrites on surfaces
17.5						Sh	dkywb				L					VS						trace selenite (gypsum) fragments
20.0						Sh	dkywb				L					S						3% selenite fragments
22.5						silt-sh	dkywb				L					S						
25.0						silt-sh	dkywb				L					N						
27.5						silt-sh	ywb				1/4					N						
30.0						qtz ss	ltgn	m-F P SR								N						Top of Burro Cyn Fm. @ 27.5'
32.5						qtz ss	ltgn	F G R								N						
35.0						qtz ss	ltgn	F-VF P SR		H						N						
37.5						qtz ss, Congl	dktn	vc F P A		H						S						
40.0						qtz ss, Congl	dktn	vc F P A		H						VS						Spars. shale fragments
42.5						qtz ss, silt	dkgn	F-VF P SR		L						N						
45.0						qtz ss, silt	dktn	F-VF P SR		L						N						
47.5						qtz ss	ltgn	VF G SR								N						
50.0						qtz ss	ltgn	F G R								N						
52.5						qtz ss	tn	VF F SR								N						
55.0						qtz ss	ltgn	VF F SR		L						N						
57.5						qtz ss	gybn	VF F SR								N	T					
60.0						qtz ss	gybn	VF F SR								N	1%					
62.5						qtz ss	gybn	F-VF P SR								N	T					
65.0						qtz ss	dktn	VF F SR								N	T					
67.5						qtz ss	gytn	F-VF F SR								N						
70.0						qtz ss	gytn	m-VF F SR								N						
72.5						qtz ss	gytn	F-VF F SR								N						
75.0						qtz ss	tn	F W SR								N						
77.5						qtz ss	tn	F W SR								N						Trace dk chert fragments
80.0						qtz ss	tn	m-F P SR		H						S						3% lt blgn shale fragments
82.5						silt	lt blgn									N						
85.0						qtz ss	ltgn	F L SR								N						
87.5						qtz ss	ltgy	F G SR								N						
90.0						qtz ss	ltgy	VF F SR								N						
92.5						silt	lt blgy									N						
95.0						qtz ss silt	lt blgn	m-F F SR								N						
97.5						qtz ss	ltgy-lt blgn	m W R								N						15% blgn shale frag. &
100.0						qtz ss, Congl	gy	vc C P SR								N						50% multi colored rock & chert fragments
102.5						qtz ss	ltgy	vc-m F SR								N						1% dkgy-wh rock fragments, Burro Cyn/Brushy Basin
105.0						silt, Congl	gygn									N						Spars. lttn-rd chert fragments
107.5						silt, Congl	gygn									N						Spars. colored chert fragments, pebble fragments
110.0						silt, Congl	gygn									N						Spars. colored chert fragments
112.5						silt, Congl	gygn									N						
115.0						silt, qtz ss	gygn	VF								R						Spars. ltgy ss fragments
117.5						silt, qtz ss	gygn	VF								N						Spars. ltgy ss fragments
120.0						silt, Congl	ltgygn									N						Silt 75% tn chert fragments 25%
122.5						Sh	dkpard-gygn									N						
125.0						Sh	dkpard									N						

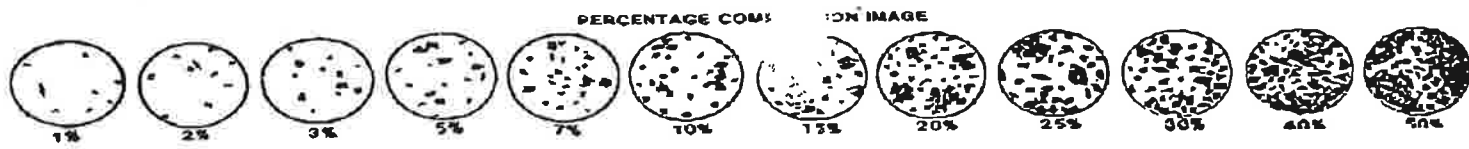
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 T.D. PROBE _____
 T.D. DRILL _____
 FLUID LEVEL _____



Date 12-15-99 Geologist L. CASEBOLT Drilling Co. RAYLES EXPLORATION, INC. Hole No. 99-09-003-M-09
 Property WHITE MESA MHP Project MW-4 PHASE 2 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County SAN JUAN State UTAH Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	OROGRAPHIC LOG	ALTERATION	SAMMA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	MAGNETITE	PYRITE	METALLIC	NON-METALLIC	REACT-10% HCL	AMOUNT	TYPE	CARBON	REMARKS	
																						PAGE
0																						
2.5						Silt	dark bn															soil (plant fragments)
5.0						Silt, Ss	lt pk bn - lt pk	VF	P	A												lt pk fragments caliche
7.5						Silt, Ss	lt pk bn - lt pk	VF	P	A												" " "
10.0						Silt	lt bn															
12.5						Sh	wh															
15.0						Sh Ss	lt bn	F	P	SR												
17.5						Sh	vt wgy															
20.0						Sh	vt wgy-gy															sparse gypsum (selenite crystals)
22.5						Sh	lt wgy-gy															" " "
25.0						Sh	lt wgy-gy															increasing gypsum (selenite crystals)
27.5						Sh	wgy-gy															" " "
30.0						Sh	lt wgy-gy															gypsum (selenite crystals 2%)
32.5						Silt, Sh	lt wgy-gy															selenite 1% sparse manganese dendrites
35.0						Silt, Sh	wgy-gy bn					H										sparse hematite
37.5						Silt, Sh	wgy bn					H										hematite 2%
40.0						Silt, Sh, Ss	wgy bn	F	F	R		H										Upper Ct. Burro Cyn. Fm. @ 38.0 feet
42.5						qtz Ss	lt bn	VF	F	R												
45.0						qtz Ss	lt bn	F	M	F	SR											
47.5						qtz Ss	lt bn	F	M	M	SR											
50.0						qtz Ss	lt bn	VF	F	F	SA											
52.5						qtz Ss	lt bn	VF	F	P	SA											
55.0						qtz Ss	lt bn	VF	F	P	SA	H										sparse hematite
57.5						qtz Ss, Sh	lt bn	VF	F	P												sparse carbon plant fragments
60.0						qtz Ss	vt bn	VF	F	SR												
62.5						qtz Ss	vt wgy-wh	VF	F	SR												
65.0						qtz Ss	vt wgy-wh	VF	F	F	SR											
67.5						qtz Ss	vt wgy	VF	F	F	SR											
70.0						qtz Ss	lt wgy	F	G	SR												sparse carbon plant fragments
72.5						qtz Ss	gy	VF	M	F	SR											2% carbon plant fragments
75.0						qtz Ss	lt wgy	VF	M	P	SR											" " "
77.5						qtz Ss, Cgl	lt wgy	F	CR	P	SA											dkgy - pk chert fragments
80.0						qtz Ss, Cgl	lt bn	F	CR	P	SA											" " "
82.5						qtz Ss, Cgl	lt bn	F	CR	P	SA											" " "
85.0						Sh, Ss, Cgl	vt blkgy	M	CR	P	A											Sh 80% - Ss, Cgl 20% dkgy - tn chert frag.
87.5						Sh	lt blkgy															
90.0						qtz Ss	lt bn	M	F	SR												some dkgy chert fragments
92.5						qtz Ss, Cgl	tn	M	CR	F	SR											" " "
95.0						qtz Ss, Cgl	tn	M	CR	F	SR											" " "
97.5																						No cuttings -
100.0						Cgl, qtz Ss	dkgy, rd, lt bn	CE	P	A												chert fragments
102.5						qtz Ss, Cgl	lt bn	M	CR	F	R											" " "
105.0						qtz Ss, Silt	lt bn - lt blkgy	M	F	SR												Upper Ct. Brushy Basin Fm. @ 104.0 feet
107.5						Silt	lt blkgy															
110.0						Silt	lt blkgy					S	G									sparse pyrite (granular)
112.5						Silt, Cgl	lt blkgy															dkgy chert fragments
115.0						Cgl, qtz Ss	wh - lt blkgy	M	CR	F	R	S	G									Cgl unit in Brushy Basin Fm. - high perm-zone
117.5																						no cuttings
120.0						qtz Ss	lt bn	M	G	R												

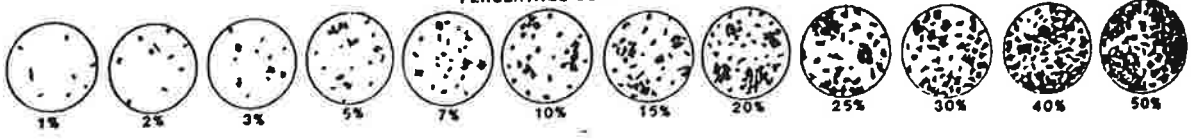
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 T.D. PROBE _____
 T.D. DRILL 120.0
 FLUID LEVEL _____



DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BAMMA AND MALK	BRECCIA PIPE	LITHOLOGY	COLOR WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	AMOUNT	HABIT	PYR FE	METALLIC	NON-METALLIC	REACT. TOB. HCL	AMOUNT	TYPE	CARBON	REMARKS
0																						
2.5						siltst sh	rd bn									S						Soil
5.0						siltst sh	rd bn									S						soil
7.5						sh, qtz ss	vl ttn	cr p sr								VS						
10.0						sh	lt yw ttn									VS						manganese dendrites
12.5						sh	lt yw ttn									VS						" " selenite crystals
15.0						sh	lt yw gy									VS						
17.5						sh	lt yw gy									S						selenite crystals
20.0						sh	lt yw gy									S						
22.5						sh	lt yw gy									VS						
25.0						sh	lt yw gy									S						
27.5						sh	lt yw gy									VS						selenite crystals
30.0						sh	lt yw gy									S						
32.5						sh, siltst	lt yw gy									N						abnt selenite crystals
35.0						sh, siltst	gy gy									NW						
37.5						siltst sh	gy gy									N						
40.0						siltst sh	dk gy - yw gy									N						Upper contact Burro Cyn fm @ 40.0'
42.5						qtz ss	tn	f m m sr								N						
45.0						qtz ss	tn	f m m sr								N						
47.5						qtz ss	tn	f m m sr								N						
50.0						qtz ss	tn	f m m sr								N						
52.5						qtz ss	tn	m f sa								N						
55.0						qtz ss	tn	f m m sa								N						
57.5						qtz ss	tn	f m m sa								N						
60.0						qtz ss	tn	vf f m sr								N						
62.5						qtz ss	lt yw tn	f w sr								N						
65.0						qtz ss	tn	f w sr								N						
67.5						qtz ss	dk gy	f m p sa								N 10%						abnt 10% carbon wood frag. so wh chert frag.
70.0						qtz ss	vd gy	p sa								N 20%						abnt 20% carbon wood frag.
72.5						qtz ss sh	vl ttn	f m f sr								N						moisture first noted @ 72.5'
75.0						qtz ss sh	vl ttn	f m f sr								N						
77.5						qtz ss sh	vl ttn	f m f sr								N						Water injection begin @ 75.0 feet
80.0						ss, cgl	wh-blk	m vc p sr								N						multi-colored chert frag. high perm.
82.5						sh siltst cgl	lt gy	vc p sr								N						" "
85.0						ss	wh	f m m sr								N						clean sand
87.5						ss	wh	f m f sa								N						" "
90.0						ss, cgl	wh	m vc p sr								N						
92.5						ss, cgl	wh-multi colored	vc p sr								N						chert frag. } high perm zone
95.0						ss, cgl	multi colored	vc p sr								N						chert pebble conglomerate
97.5						ss sh cgl	wh-lttn	m vc p sr								N						abnt multi colored chert frag. tr. pyrite
100.0						ss, siltst sh	wh-gy gn	f m f sr								N						chert frags.
102.5						ss	wh	f m f sr								N						
105.0						ss	wh	f w sr								N						trace dk gy-pk chert frag. tr. pyrite
107.5						ss, siltst sh	wh-gy gn	vf f w sr								N						Burro Cyn fm / Brushy Basin fm. Ct. @ 106 feet
110.0						siltst sh	gy gn									N						Total Depth
112.5																						
115.0																						

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 T.D. PROBE _____
 T.D. DRILL 110.0
 FLUID LEVEL _____

PERCENTAGE COMPOSITION IMAGE

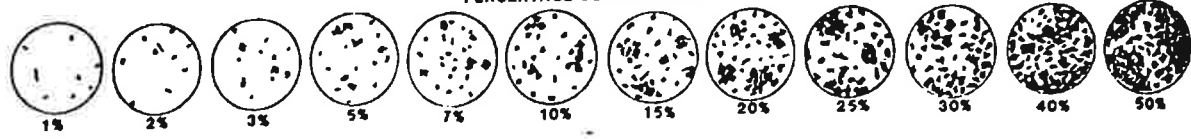


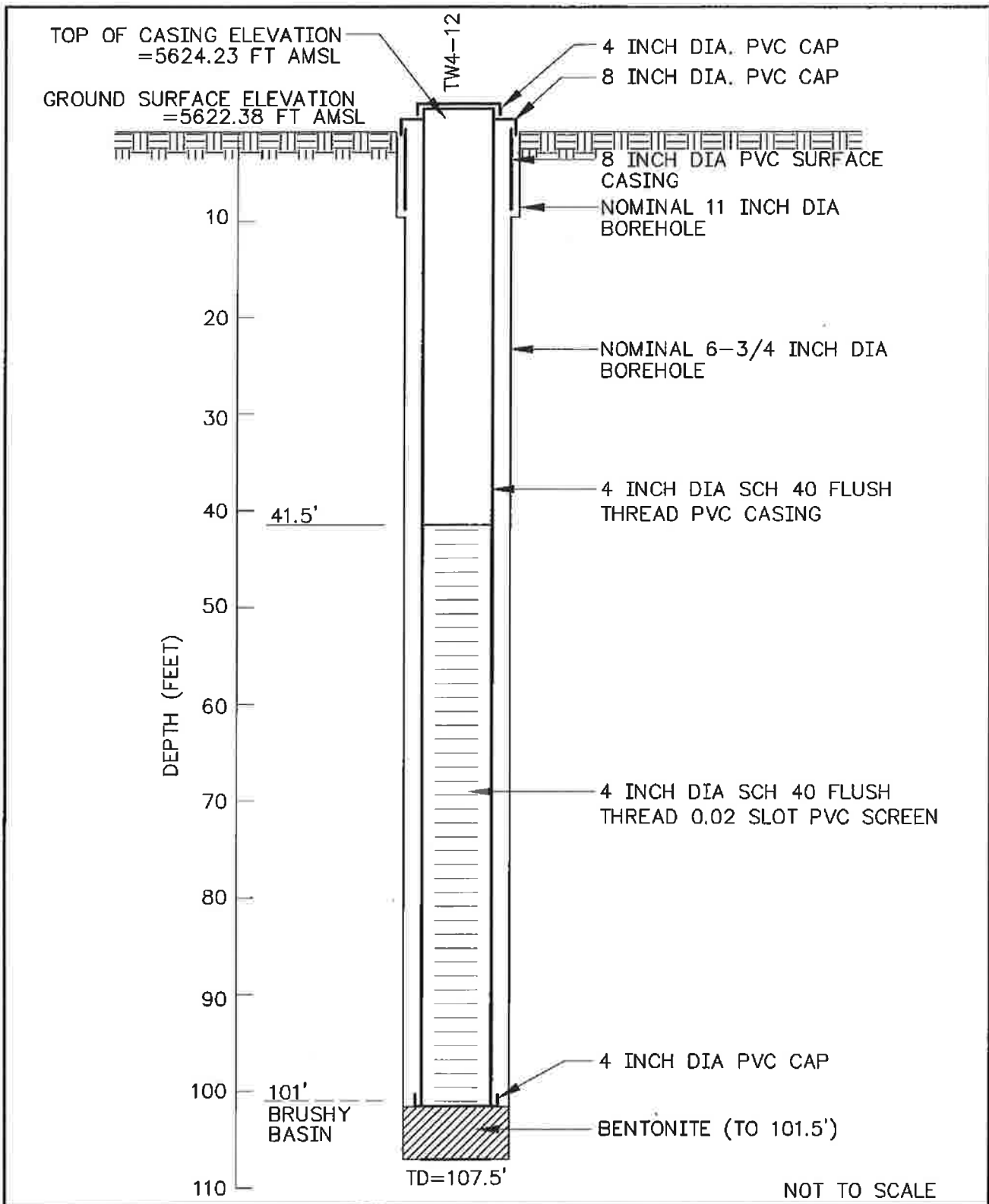
Date 12-19-2001 Geologist L. Casebolt Drilling Co. Bayles Exploration, Inc. Hole No. TW4-11
 Property W Project MW-4 Phase 3 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

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 T.D. DRILL 975
 FLUID LEVEL 90

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	GAMMA ANOMALY	BREGCIA PIPE	LITHOLOGY	COLOR WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	PYRITE		NON-METALLIC	REACT. 10% HCL	AMOUNT TYPE	REMARKS	
													HABIT	ALTER.					
0																			
25						siltst, sh	lt pink								VS			soil	
5.0						sh	lt pink								S				
7.5						sh	lt pink								S				
10.0						sh	lt pink								S			very abnt. selenite crystals	
12.5						sh	lt pink								S				
15.0						sh	lt pink								S				
17.5						sh	lt pink								S				
20.0						sh	lt pink								S			Notable selenite crystals	
22.5						sh, siltst	yellow								F			" " "	
25.0						sh, siltst	yellow								S				
27.5						sh, siltst	yellow								W			Selenite crystals	
30.0						sh, siltst	yellow bn								N				
32.5						sh, siltst	dk yellow								N				
35.0						siltst, sh	dk yellow								N			Dakota/Burro Cyn. Fm. Contact @ 35.0 feet	
37.5						qtz ss	tn	f. m	f	sr					N				
40.0						qtz ss	tn	f. m	f	sr					N				
42.5						qtz ss	tn	f. m	f	sr					N				
45.0						qtz ss	tn	f. m	m	sr					N				
47.5						qtz ss	tn	f. m	m	sr					N				
50.0						qtz ss	lt grey	m	w	r					N				
52.5						qtz ss	lt grey-wh	m	w	r					N				
55.0						qtz ss	lt tn	f. m	f	r					N				
57.5						qtz ss	tn	f. m	f	sr					N				
60.0						qtz ss	tn	vt. f	f	sr					N				
62.5						qtz ss	dk grey	f	m	sr					N 10%			Notable color change, abnt. carbon wood frags.	
65.0						qtz ss	dk grey	f	m	sr					N 3%			some carbon wood fragments	
67.5						qtz ss	grey bn	m	w	r					N				
70.0						qtz ss	lt grey tn	m	m	r					N				
72.5						qtz ss	lt grey tn	f. m	f	r					N				
75.0						qtz ss	lt grey tn-wh	f. m	w	r					N			Moisture first noted	
77.5						qtz ss	wh	m	cr	p	sd				N			no cuttings - begin liq injection	
80.0						qtz ss	wh	m	cr	p	sd				N			chert frag.	
82.5						qtz ss, cgl	wh-multicolor	m	vc	p	sr				N			" "	
85.0						qtz ss, cgl	wh-multicolor	c	vc	p	sd				N			" "	
87.5						cgl, siltst	lt tn, gn								N			Basal Contact Burro Cyn. Fm @ 86.0 feet	
90.0						siltst, cgl	lt gn, multi color								N				
92.5						siltst	pp bn - lt grey								N				
95.0						siltst	lt gn								N				
97.5						siltst, ss cgl	lt gn	f. m							N			Total depth	
100.0																			
102.5																			
105.0																			
107.5																			
110.0																			
112.5																			
115.0																			
117.5																			
120.0																			
122.5																			
125.0																			

PERCENTAGE COMPOSITION IMAGE





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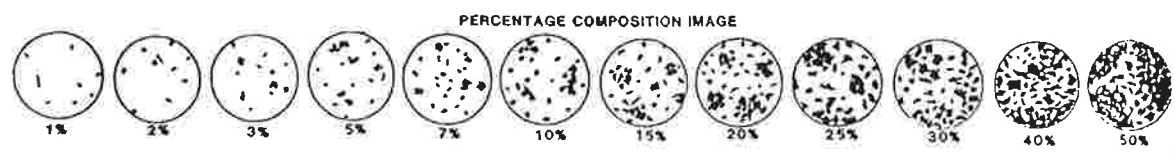
TW4-12
 WELL CONSTRUCTION SCHEMATIC

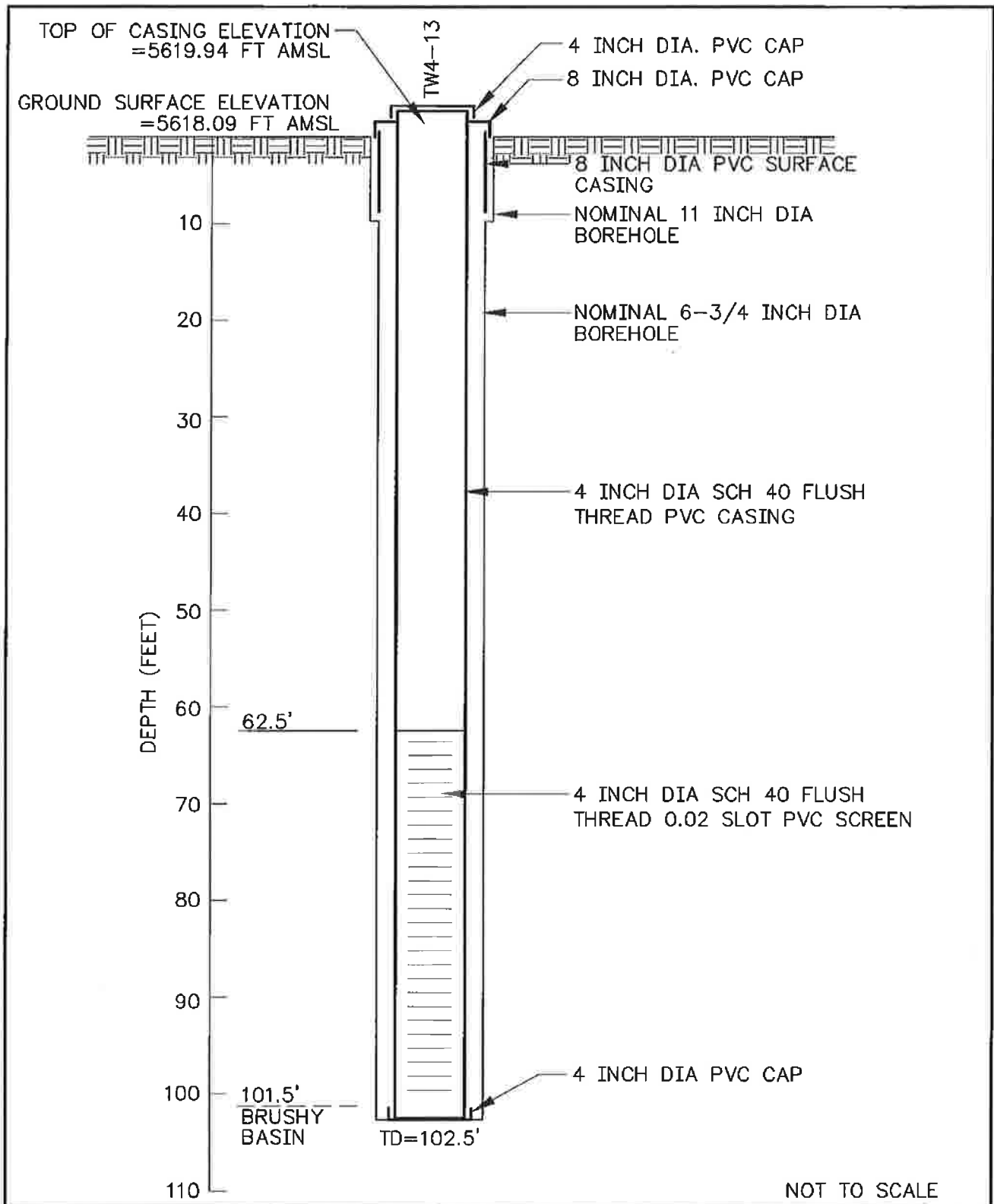
Approved SS	Date 8/30/02	Revised	Date	Reference: 7180203A	FIG. 2
-----------------------	-----------------	---------	------	------------------------	-----------

Date 7-1-2002 Geologist L. Carboff Drilling Co. Bayks Exploration Hole No. TW4-12
 Property White Mesa Mill Project _____ Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	GAMMA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR	WE OF SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	ADJUST	HABIT	ALTER.	METALLIC	NON-METALLIC	REACT. LOG RGT	ADJUST	TYPE	CARBON	REMARKS
0																							
2.5						Siltst	rdbn	vf															Surface Soil
5.0						Siltst	rdbn	vf															
7.5						Siltst	rdbn	vf															
10.0						Siltst	rdbn	vf															
12.5						Qtz	rdbn-ltn	vf															
15.0						Siltst	rdbn	vf															
17.5						Siltst	pktn	vf															
20.0						Siltst Sh	ywgybn	vf															
22.5						Siltst Sh	ywgybn	vf															
25.0						Sandy Siltst	ltn	f m p sa															
27.5						Qtz Ss Siltst	bn	vf f p sa															
30.0						Sandy Siltst	bn	vf f p sa															
32.5						Qtz Ss	tn	vf m p sa															
35.0						Qtz Ss	tn	f m p sa				H											Qt Top of Dakota Fm @ 31.0 feet hematite coating of quartz grains
37.5						Qtz Ss	tn	f m p sa															
40.0						Qtz Ss	pktn	m p sa				H											
42.5						Qtz Ss	tn	f m p sa				H											
45.0						Qtz Ss Sh	gy-pprd	f m p sa				H											
47.5						Qtz Ss	vltgy	f f sa															
50.0						Qtz Ss	vltgy	f f sa															
52.5						Qtz Ss	vltgy	f f sa															
55.0						Qtz Ss	vltgy	f f sa															
57.5						Qtz Ss	Hgy-vdkgy	vf f sa															
60.0						Qtz Ss	vltgy-ltn	vf m p sa				L											carbonaceous material
62.5						Qtz Ss	Hgy-blk	vf m p sa															" "
65.0						Qtz Ss Cgl	dkgy-blk	vf m p a															abund. white to dk gray chert frag.
67.5						Qtz Ss	vltgy-blk	vf m f sa				Tr											
70.0						Qtz Ss	dkgy-blk	vf m f sa				Tr											disseminated pyrite
72.5						Cgl Qtz Ss	gy	m ver p a				1%											" " multi-colored chert frags.
75.0						Cgl Qtz Ss	gy	m ver p a				Tr											" " " "
77.5						Cgl Qtz Ss	gy	m ver p a															chert frag.
80.0						Qtz Ss Cgl	gy	m ver p sa															chert frag.
82.5						Cgl Qtz Ss	gy	m ver p sa				Tr											chert frag.
85.0						Cgl Qtz Ss	gy	m ver p a															" "
87.5						Cgl Qtz Ss	gy	m ver p a															" "
90.0						Cgl Qtz Ss	gy	m ver p a				Tr											" "
92.5						Qtz Ss Cgl	vltgy	vf ver p a				Tr											" "
95.0						Qtz Ss	vltgy-wh	vf ver f sa				1%											disseminated & massive pyrite, chert frags.
97.5						Qtz Ss Cgl	wh	vf ver f sa															
100.0						Qtz Ss	wh	vf f m sa				Tr											
102.5						Qtz Ss Siltst	ywbn-ppbr	vf f f sa															Upper Bonshy Basin Fm. contact @ 101.0 feet.
105.0						Qtz Ss Sh	wh-Hgn	vf f f sa															
107.5						Qtz Ss Sh	wh-Hgn ppbr	vf p sa				Tr											

PAGE 1 OF 1
 T.D. PROBE _____
 T.D. DRILL 1075
 FLUID LEVEL 133 below casing





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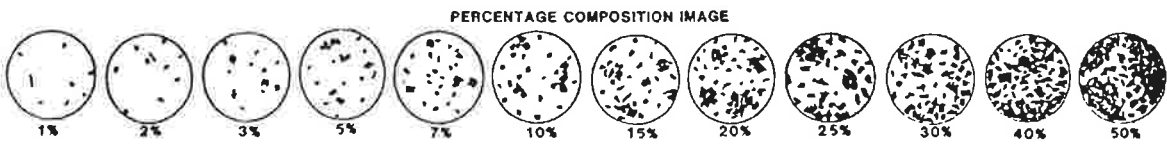
**TW4-13
WELL CONSTRUCTION SCHEMATIC**

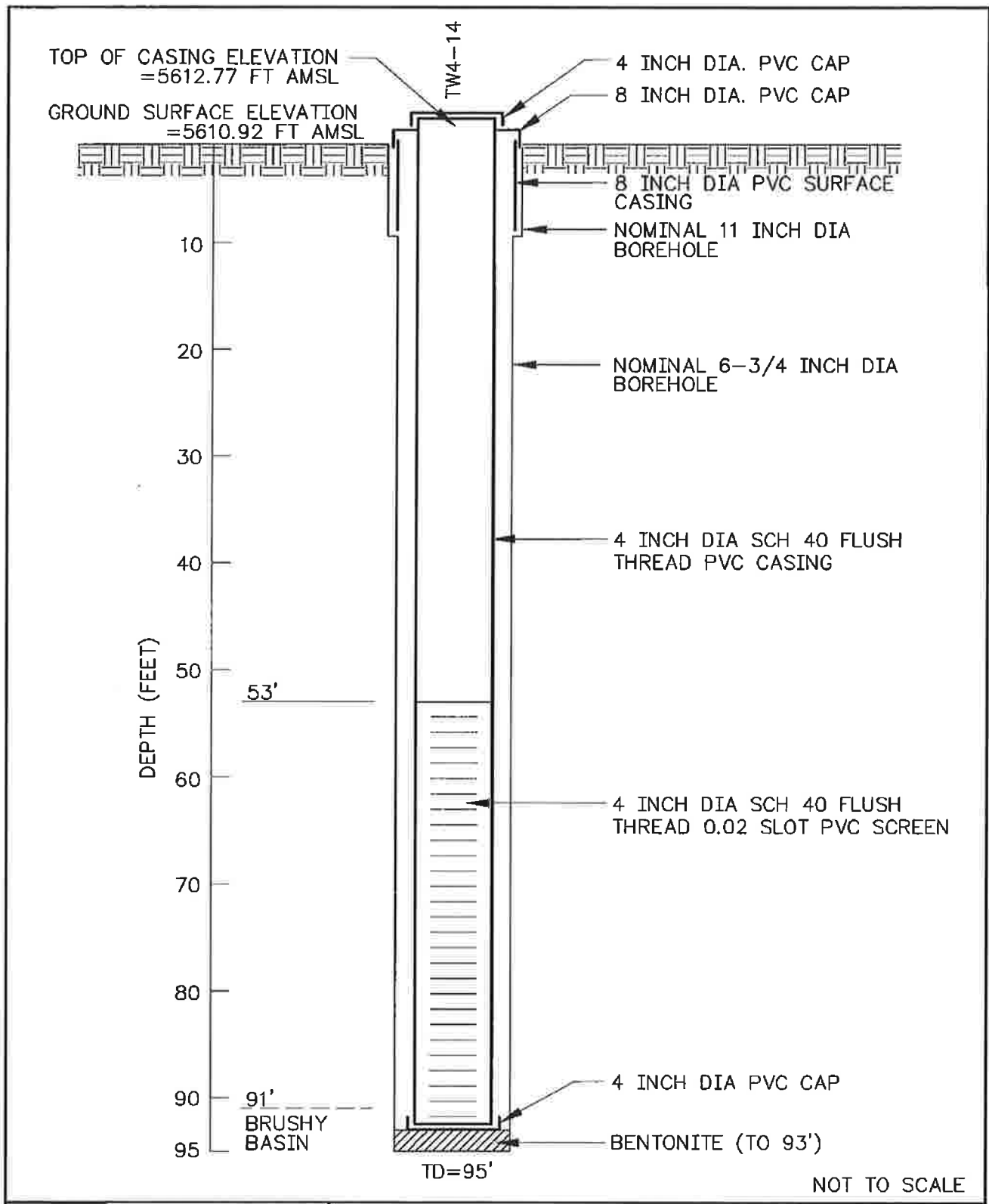
Approved SS	Date 8/30/02	Revised	Date	Reference: 7180202A	FIG. 3
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Date 7-1-02 Geologist E. Casebolt Drilling Co. Bayles Exploration Co Hole No. TW4-13
 Property White Mesa Mill Project MW4 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

PAGE 1 OF 1
 T.D. PROBE 102.5
 T.D. DRILL 102.5
 FLUID LEVEL _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BARNA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WEI SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	PYRITE	HABIT	ALTER.	METALLIC	NON-METALLIC	REACT. TO HCL	AMOUNT	TYPE	CARBON	REMARKS
0																						
2.5						Silty Sh	dk rd bn	vf														Soil
5.0						Silty Sh	rd bn-pk	vf														
7.5						Silty Sh	rd bn-pk	vf														
10.0						Silty Sh	rd bn	vf														
12.5						Silty Sh	rd bn-yw bn	vf														
15.0						Sh	yw gy bn	vf			tr											
17.5						Sh, Qtz Ss	yw gy bn	f p sa														Notable color change sparse hematite
20.0						Sh, Qtz Ss	yw gy bn	f m p sa														
22.5						Sh, Qtz Ss	yw gy bn	f m p sa														
25.0						Silty Sh	yw gy bn	vf														
27.5						Silty Sh	yw gy bn	vf														
30.0						Silty Sh	yw gy bn	vf														
32.5						Qtz Ss	ortn	f m m sa		tr												
35.0						Qtz Ss	ortn	f m p sa		tr												Upper Dakota Fm. contact @ 30.6' limonite coating
37.5						Qtz Ss	tn	f m f sa		tr												
40.0						Qtz Ss	lt tn	f f sa														
42.5						Qtz Ss	tn	m f sa														
45.0						Qtz Ss	tn	f f sa														
47.5						Qtz Ss, Sh	tn-gy	vf f p sa														
50.0						Qtz Ss	wh	vf f m sr														Clean sandstone
52.5						Qtz Ss	lt tn	vf f m sr														
55.0						Qtz Ss	lt tn	vf f m sr														
57.5						Qtz Ss	yp tn	vf f f sa														
60.0						Sh, siltst	dk gy-blk	vf														abund. carbonaceous material
62.5						Qtz Ss	lt gy	f m m sr		tr												sparse carbon material, trace pyrite
65.0						Qtz Ss	lt gy	m w r														
67.5						Qtz Ss	lt gy	f m m r														
70.0						Qtz Ss, Sh	lt gy	m r														
72.5						Qtz Ss	lt tn	vf f m r														
75.0						Qtz Ss.	lt tn-lt gn	f m m sr														some gray chert fragments
77.5						Qtz Ss	lt tn	m cr f sa														multi colored chert frag.
80.0						Sh, Qtz Ss	lt gy gn	f ver p sa		1%												pyrite, multi colored chert frag.
82.5						Siltst	lt gy gn-wh	vf														some chert fragments
85.0						Siltst	lt gy gn-wh	vf														
87.5						Siltst	lt gy gn	vf														
90.0						Siltst	lt gy gn	vf														
92.5						Siltst	lt gy gn	vf														
95.0						Siltst	lt gy gn	vf														
97.5						Qtz Ss	lt gy-wh	m f sr		3%												abund. pyrite fragments
100.0						Qtz Ss	lt gy-wh	m f sr		1%												Some pyrite fragments
102.5						Sh, Qtz Ss	gn-wh	m f sr		1%												Upper contact Brushy Basin Fm. @ 101.5'; some pyrite, occurs as cubes and granular





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**TW4-14
 WELL CONSTRUCTION SCHEMATIC**

Approved SS	Date 8/30/02	Revised	Date	Reference: 7180201A	FIG. 4
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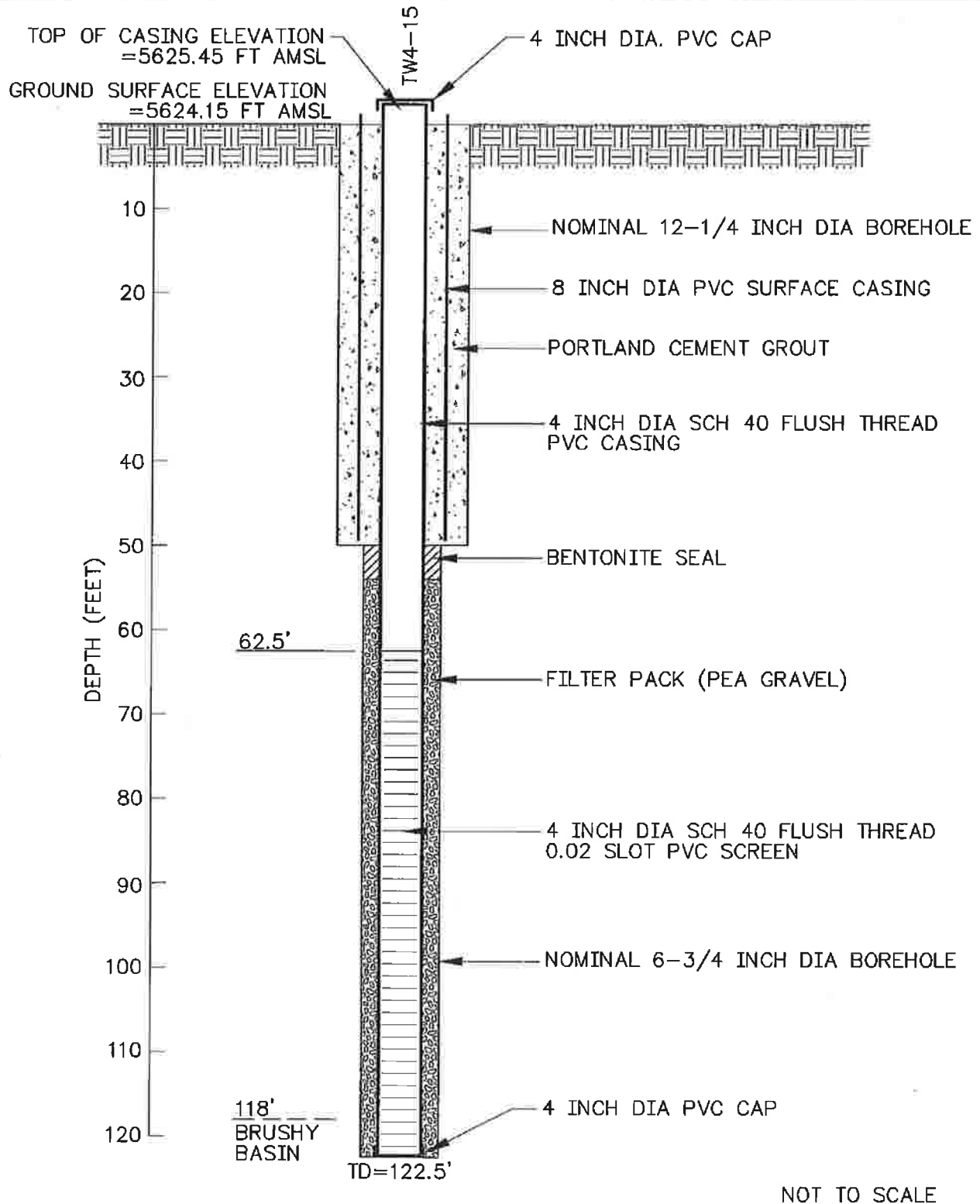
Date 7-2-2002 Geologist L. Casbolt Drilling Co. Bayles Exploration Hole No. TW4-14
 Property White Mesa Mill Project MW4 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BARNA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	AMOUNT	HA BIT	PYRITE	ALTER	METALLIC	NON-METALLIC	REACT. TO % HCL	AMOUNT	TYPE	CARBON	REMARKS
0																							
2.5						Sndy Silt. qtz	H rd br-or	vf	p	sa								S					Surface soil
5.0						sndy Sh. qtz	H pk-wh	vf	p	sa							YS						trace of plant fragments
7.5						Sh-silt sh	wh-pk	vf	p	sa							YS						
10.0						Sndy Sh	ywgybn	vf	f	p	a	tr					VS						limonite/hematite coating on qtz grains
2.5						Silt Sh	ywgybn	vf	p	sa	tr						S						
5.0						Silt Sh	ywgybn	vf	p	sa	tr						W						hematite coating on qtz
7.5						Silt Sh	ywgybn	vf	p	sa							N						
20.0						silt Sh-qtz S	ltgy-or bn	vf	f	p	sa	tr					N						Contact upper Dakota Fm @ approx. 18.0 feet
22.5						Qtz Ss	tn	f	m	f	sr	tr					N						Clean sandstone
15.0						Qtz Ss	tn	m	g	sr	tr						N						
27.5						Qtz Ss	H tn	m	g	sr	tr						N						
2.0						Qtz Ss	H tn	m	cr	f	sr						N						
2.5						Qtz Ss	H tn	f	cr	f	sr						N						
35.0						Qtz Ss	H tn	m	cr	f	sr	tr					N						
37.5						Qtz Ss	tn	m	cr	p	sa						N						hematite coating on sand grains, white chert frag.
40.0						Qtz Ss-cgl	vH tn	vf	cr	p	sa	3%					N						H-dkgy quartz fragments
42.5						Qtz Ss	H tn	f	cr	f	sa	1%					N						
50						Qtz Ss	vH tn	f	w	sr							N						very clean sandstone
17.5						Qtz Ss	H tn	f	w	sr							N						" " "
50.0						Qtz Ss	H pk tn	vf	m	f	sr						N						
2.5						Qtz Ss	H pk tn	m	cr	f	sr						N						spars chert frag.
5.0						Qtz Ss	H tn	m	f	r							N						
57.5						Qtz Ss	H tn	m	w	r							N						very clean sandstone
20.0						Qtz Ss-cgl	H tn	vf	m	p	sa						N						dkgy to wh chert & qtz frag.
2.5						Qtz Ss	H pk tn	f	m	f	sa						N						
5.0						Qtz Ss	H pk tn	f	w	sr							N						
7.5						Qtz Ss	H tn	f	w	sr							N						
20.0						Qtz Ss	H gytn	f	m	f	sa						N						
2.5						Qtz Ss-cgl	gytn-wh	f	vf	p	sa						N						20% chert quartz fragments - multi color
15.0						Qtz Ss-cgl	gytn-wh	m	cr	p	sa						N						20% chert quartz fragments
17.5						Qtz Ss-cgl	tn	m	cr	p	sr						N						
30.0						Qtz Ss-cgl	multicolor	m	vf	p	sa						N						50% grit (wh-rd-blk chert frag.)
2.5						Qtz Ss	H tn	m	w	r							N						clean sandstone
5.0						Qtz Ss	H tn	m	f	sr							N						2% dkgy quartz frag.
7.5						Qtz Ss	H tn	f	m	f	r						N						
10.0						Qtz Ss-cgl	H gytn	f	vf	p	sr						S						tr. Hgn shale
2.5						Sh-Qtz Ss	H gytn	vf	f	p	sa						N						Upper cont. Brushy Basin Fm @ 91.0 feet
5.0						Silt Sh	H gn	vf									N						
2.0																							

PAGE 1 OF 1
 T.D. PROBE _____
 T.D. DRILL 95.0
 FLUID LEVEL _____

PERCENTAGE COMPOSITION IMAGE





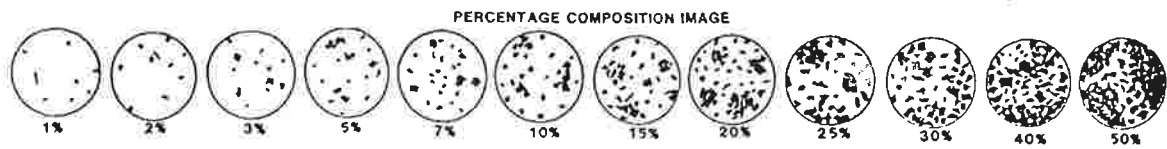
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GEO
CHEM, INC.**

**TW4-15
WELL CONSTRUCTION SCHEMATIC**

Approved	Date	Revised	Date	Reference:	FIG.
SS	8/30/02			7180204A	5

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	DAMA ANOMALY	DRECCIA PIPE	LITHOLOGY	COLOR	WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	PYRITE		NON-METALLIC	REACT-10% HCL	AMOUNT CARBON	TYPE	REMARKS	
														AMOUNT	ALTER.						
0																					
2.5						Qtz ss	tn bn	vf f	f sa							S					Surface Soil
5.0						Sh, Qtz ss	dk bn	vf m	f sa							VS					
7.5						Silty Sh	lt rd bn	vf p								S					
10.0						Silty Sh	lt rd bn									S					
12.5						Silty Sh	lt rd bn									S					
15.0						Silty Sh	yr wgy bn									VS					
17.5						Silty Sh	yr wgy bn									VS					
20.0						Silty Sh	yr wgy bn									S					
22.5						Sh	yr wgy bn									N					
25.0						Sh	yr wgy bn									N					
27.5						Sandy Sh	yr wgy bn	vf m	p sa							N					
30.0						Qtz ss, Sh	or bn	f m	f sa							N					
32.5						Qtz ss	or bn	m	cr p a			L				N					Upper contact Dakota Fm @ 28.0 feet.
35.0						Qtz ss	or bn	m	cr p a							N					limonite, chert frags
37.5						Qtz ss, Sh	gy	m	cr p a							N					
40.0						Qtz ss	tn	f m	f sa							N					
42.5						Qtz ss, Sh	yr wta-ltgy	f m	f sa							N					
45.0						Qtz ss	tn	f	f sa							N					
47.5						Qtz ss	tn	f	f sa							N					
50.0						Qtz ss	tn-ltgy	f	f sa							N					
52.5						Qtz ss	tn-dkgy	vf	f p sa							N					
55.0						Qtz ss, Cgl	tn	vf	cr p sa							N					multicolored chert frags
57.5						Qtz ss, Cgl	lt p ktn	m	cr p sa							N					" " " "
60.0						Qtz ss	lt p ktn	m	cr p sa							N					
62.5						Qtz ss	lt tn	f m	f sa							N					
65.0						Qtz ss	lt tn	m	cr f sa							N					
67.5						Qtz ss	lt tn	m	w r							N					
70.0						Qtz ss	lt tn	f	w r							N					
72.5						Qtz ss	lt tn	f m	w r							N					
75.0						Qtz ss	lt tn	vf m	p sa							N					
77.5						Qtz ss, Cgl	lt tn	vf m	p sa							N					brown chert fragments.
80.0						Qtz ss, Cgl	wh tr	f m	m sr							N					
82.5						Qtz ss, Cgl	lt tn-ltgy	f m	m sr			TR				N					disseminated pyrite
85.0						Qtz ss, Sh	vt lgy-ltgn	vf	f sa							N					
87.5						Qtz ss, Sh	vt lgy-ltgn	vf	f sa			TR				N					
90.0						Qtz ss, Sh	vt lgy-ltgn	vf	f sa			TR				N					
92.5						Qtz ss, Sh	vt lgy-ltgn	vf	f sa			TR				N					
95.0						Qtz ss, Sh	wh-ltgn	vf	f sa			TR				N					
97.5						Qtz ss, Sh	wh-ltgn	vf	f sa			TR				N					
100.0						Qtz ss, Sh	wh-ltgn	vf m	f sa			TR				N					
102.5						Qtz ss, Sh	wh-ltgn	f m	f sa							N					
105.0						Qtz ss	wh	f m	f sa							N					
107.5						Qtz ss	wh	f m	f sa							N					
110.0						Qtz ss, Cgl	vt lgn	f	cr p sa							N					gray-brown chert fragments.
112.5						Qtz ss	wh-ltgn	vf	f sa							N					
115.0						Qtz ss	wh-ltgn	vf	f sa							N					
117.5						Qtz ss, Sh	wh-ltgn	vf m	p sa			TR				N					
120.0						Sh, Qtz ss	gn-wh	vf m	p sa							N					Upper contact Brushy Basin Fm @ 118.0 feet
122.5						Sh	gn-pb bn									N					

PAGE 1 OF 1
 T.O. PROBE _____
 T.D. DRILL 122.5
 FLUID LEVEL _____
 REMARKS 12 1/4" bit to 50.0 ft.
6 3/4" bit 50 to TD.

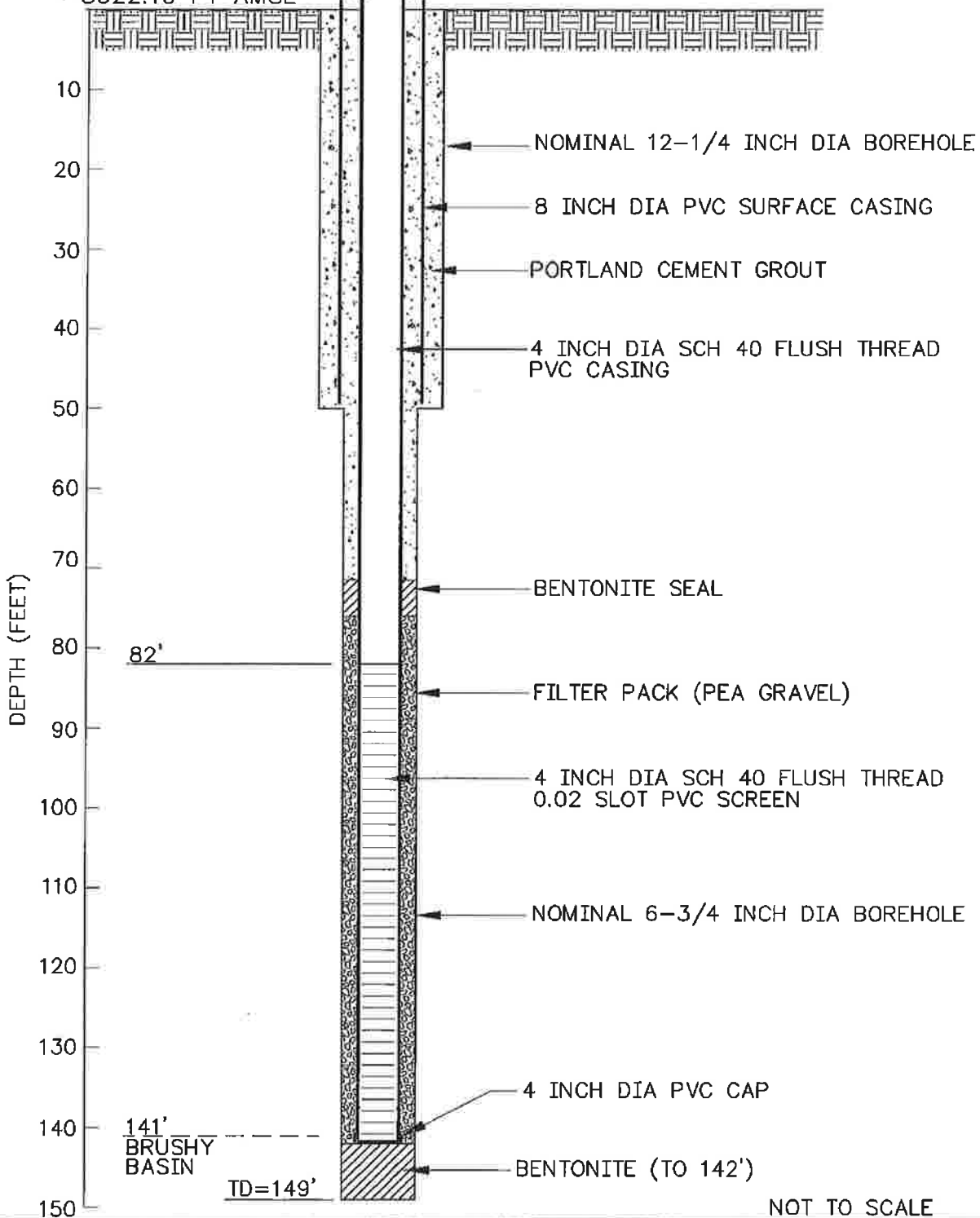


TOP OF CASING ELEVATION
=5624.02 FT AMSL

GROUND SURFACE ELEVATION
=5622.19 FT AMSL

TW4-16

4 INCH DIA. PVC CAP



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GEO
CHEM, INC.**

**TW4-16
WELL CONSTRUCTION SCHEMATIC**

Approved
SS

Date
8/30/02

Revised

Date

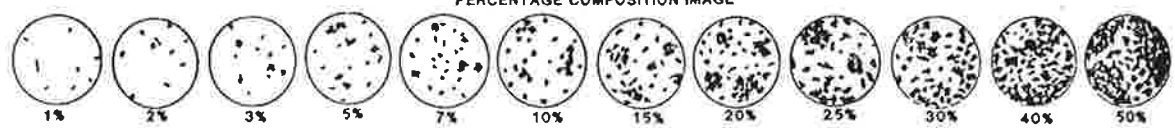
Reference:
7180205A

FIG. **6**

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	GRAIN ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR	WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMOUNT	HABIT	ALTER.	METALLIC	NON-METALLIC	REACT-LOG	AMOUNT	TYPE	REMARKS
0																						
2.5						Sh, Sltst	uvgybn										VS					Surface soil.
5.0						Qtz ss	ltpkor	vf	f	p	sa						S					
7.5						Sltst sh	lt rdbn										S					
10.0						Sh, Sltst	uvgybn										VS					some chert frag.
12.5						Sh	uvgybn										VS					
15.0						Sh	ltgytn										VS					
17.5						Sandy Sh	ltgytn	vf	f	p	sa						VS					
20.0						Sh	uvgybn										VS					
22.5						Sh	uvgybn										VS					gypsum crystals (selenite)
25.0						Sh	uvgybn										VS					very abund gyp xls.
27.5						Sh	uvgybn										S					" " " "
30.0						Sh	uvgybn										M					" " " "
32.5						Sh	uvgybn										M					" " " "
35.0						Qtz ss, Sh	uvgybn	vf	f	f	sa						S					Upper contact Dakota fm @ 33.0 feet
37.5						Qtz ss	ltuvbn	vf	f	f	sa						W					
40.0						Qtz ss	ltbn	vf	p	sa							W					
42.5						Qtz ss	ltuvbn	f	m	p	sa						N					
45.0						Qtz ss	lt rdbn	f	m	e	sr	L					N					some limonite coating.
47.5						Qtz ss	tn	m	m	sr	L						N					
50.0						Qtz ss	tn	f	m	f	sr						W					
52.5						Qtz ss	tn	f	f	sa							N					
55.0						Qtz ss	tn	f	f	sa							N					
57.5						Qtz ss	tn	f	f	sa							N					
60.0						Qtz ss	tn	vf	f	p	sa						W					
62.5						Sandy Sh	gybn	f	m	p	sa						W					gypsum crystals as selenite
65.0						Qtz ss	gybn	f	m	f	sa						N					some chert frag. as sand grains
67.5						Qtz ss, Sh	ltgytn	vf	f	m	sr						N					
70.0						Qtz ss	tn	f	w	r							N					
72.5						Qtz ss	gy	vf	f	m	sr						N 1/2 I					
75.0						Qtz ss, Cgl	ltbn	f	kr	p	sa						N					white to dk gray chert fragments
77.5						Qtz ss, Cgl	ltgytn	f	kr	p	sa						N					" " " " " "
80.0						Qtz ss, Sh, Cgl	ltgytn	f	m	p	sa						N					
82.5						Qtz ss, Cgl	tn	m	kr	p	a						N					chert fragments, white to bn to rd
85.0						Qtz ss, Cgl	tn	m	kr	p	a						N					multi-colored chert frags
87.5						Qtz ss, Cgl	tn	m	kr	p	sa						N					multi-colored chert frags wh-or-blk
90.0						Qtz ss, Cgl	vlttn	vf	m	p	sr						N					
92.5						Qtz ss	vlttn	vf	f	f	sr						N					clean sandstone
95.0						Qtz ss	vlttn-wh	vf	f	w	sa						N					
97.5						Qtz ss, Cgl	multi color	m	kr	p	a	2%					N					pyrite disseminated around sand grains, chert frag.
100.0						Qtz ss, Sh, Cgl	multi color	vf	kr	p	a						N					
102.5						Qtz ss	wh	f	m	m	sr						N					clean white sandstone
105.0						Qtz ss	wh-vltgn	f	m	m	sr						N					
107.5						Qtz ss	wh-vltgn	f	m	m	sr						N					
110.0						Qtz ss	wh-vltgn	f	m	f	sr	tr					N					
112.5						Qtz ss, Cgl	wh-vltgn	f	m	f	sr	tr					N					
115.0						Qtz ss, Sh, Cgl	wh-vltgn	f	m	f	sr	tr					N					
117.5						Qtz ss, Sh, Cgl	wh-vltgn	vf	kr	p	sr						N					
120.0						Qtz ss, Sh	wh-vltgn	f	f	f	sr						N					
122.5						Qtz ss, Sh	wh-vltgn	f	f	f	sr						N					
125.0						Qtz ss, Cgl	wh-gy	f	kr	p	sr						N					

PAGE 1 OF 2
 T.D. PROBE 149.0
 T.D. DRILL 147.5
 FLUID LEVEL 97.5
 12 3/4" bit to 50'
 6 3/4" bit 50'-147.5'
 REMARKS

PERCENTAGE COMPOSITION IMAGE

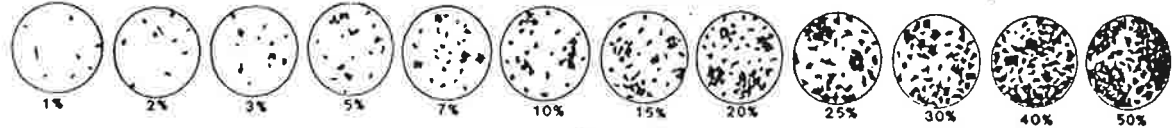


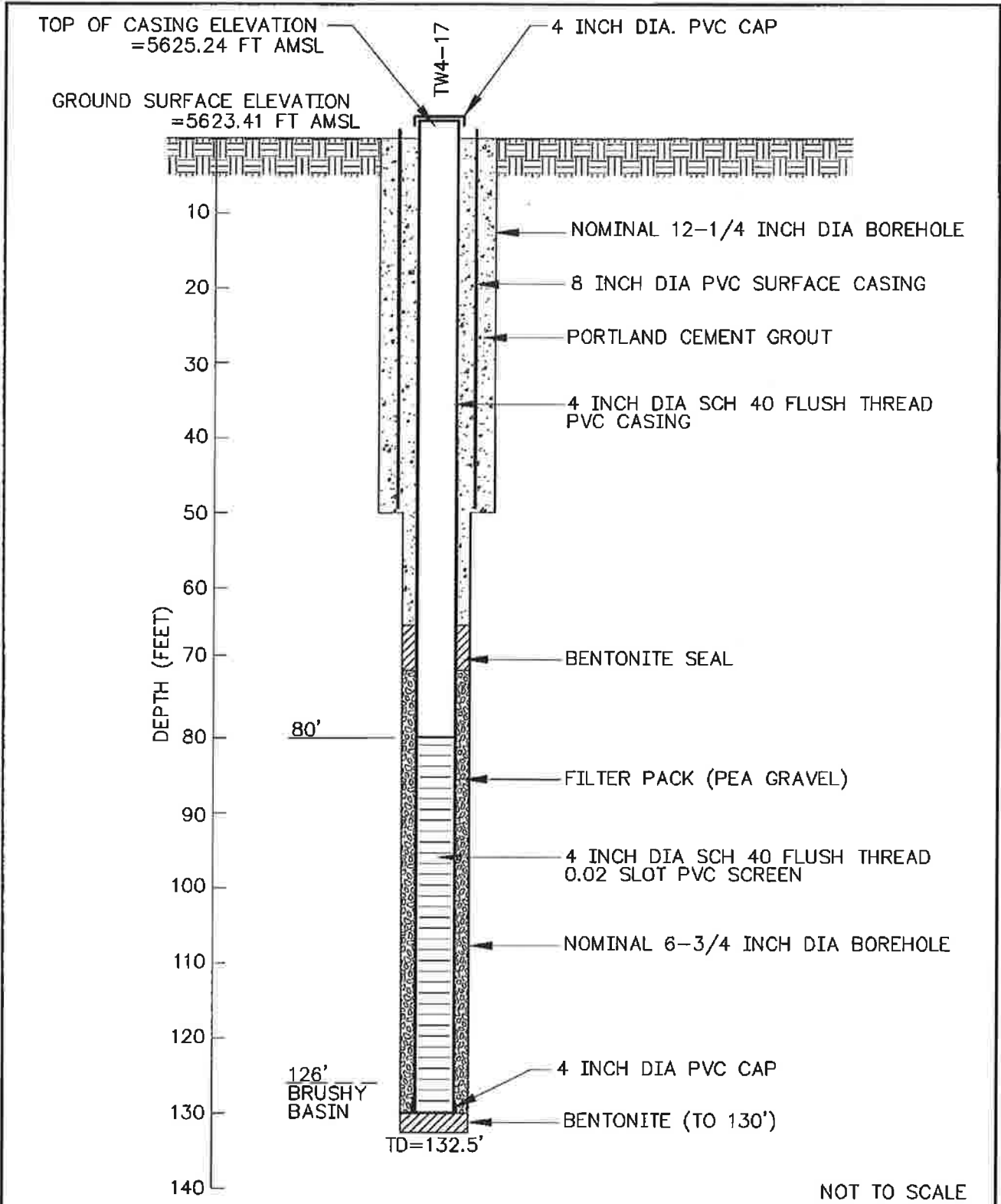
Date 7-2-2002 Geologist L. Casebolt Drilling Co. Bayles Exploration Hole No. TW4-16
 Property White mesa Mt Project AW4 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

PAGE 2 OF 2
 T.D. PROBE 149.0
 T.D. DRILL 147.5
 FLUID LEVEL _____

DEPTH	SAMPLE TAKEN	DRIPPING LOG	ALTERATION	GAMMA ANOMALY	BREGGIA PIRE	LITHOLOGY	COLOR	WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	AMOUNT	PYRITE		NON-METALLIC	REACT. ION & MOL	AMOUNT	TYPE	CARBON	REMARKS
															HABIT	ALTER						
125.0																						
127.5						Qtz Ss, Cgl	wh-multi color	f	f	sa						N						multi color chert fragments
130.0						Qtz Ss, Cgl	wh-multi color	m	p	sa						N						" " " "
132.5						Qtz Ss, Cgl	wh-multi color	m	p	sa						N						" " " "
135.6						Qtz Ss, Cgl	wh	f	nc	p	sa					N						" " " "
137.5						Qtz Ss	wh	vf	f	f	sr					N						
140.0						Qtz Ss	wh	f	f	sr						N						
142.5						Sh, Qtz Ss	wh-gn	f	f	sr						N						Upper Contact Brush Basin Fm @ 141.0 feet
145.0						Sh	gn									N						clean shale
147.5						Sh	gn-rdgn									N						clean shale
T.D.																						

PERCENTAGE COMPOSITION IMAGE





**HYDRO
GEO
CHEM, INC.**

**TW4-17
WELL CONSTRUCTION SCHEMATIC**

Approved
SS

Date
8/30/02

Revised

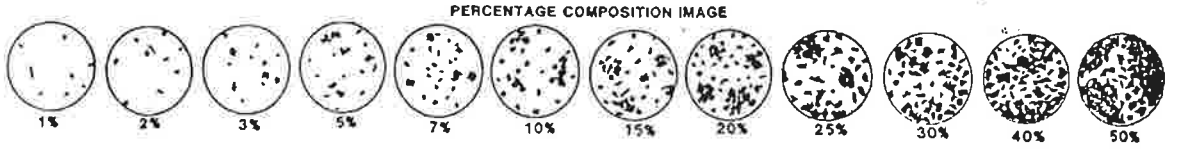
Date

Reference:
7180206A

FIG. **7**

Date 7-2-02 Geologist L. Carebolt Drilling Co. Bayles Exploration Hole No. TW4-17
 Property White Mesa M. Project RAM4 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAINIC LOG	ALTERATION	GAMMA ANOMALY	BREGGIA PIPE	LITHOLOGY	COLOR MET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMOUNT	HABIT	PYRITE	METALLIC	NON-METALLIC	REACT-10% HCL	AMOUNT	TYPE	CARBON	REMARKS	
																							PAGE 1 OF 7
2.5						Qtz Ss, Caliche	wh-ta bn	f	cr	p	sa					VS						caliche, surface soil	
5.0						Qtz Ss, Caliche	wh-ta	f	m	p	sa					VS						caliche, surface soil	
7.5						Siltst, Sh	lt rd bn	vf	f	p	sa					VS							
10.0						Siltst	lt rd bn	vf	f	f	sa					S							
12.5						Siltst	lt rd bn									S							
15.0						Silty Sh	lt rd bn									S							
17.5						Silty Sh	lt rd bn - lt gy									VS							
20.0						Sh	gy gy bn									VS							
22.5						Sh	gy gy bn									VS							
25.0						Sh	gy gy bn									S							
27.5						Sh	gy gy bn									S						gypsum crystals as selenite	
30.0						Sh	gy gy bn									S						abund. gypsum crystals	
32.5						Sh	gy gy bn									W						" "	
35.0						Sh	gy gy bn									W						" "	
37.5						Sh	gy gy bn									W						" "	
40.0						Silty Sh	gy gy bn									VM						Limonite	
42.5						Silty Sh, Qtz Ss	gy gy bn	vf	f	p	sr					VM						Contact Dakota fm approx 42.0 ft.	
45.0						Qtz Ss, Sh	lt rd bn	f	m	p	sr					N							
47.5						Qtz Ss	lt rd bn	f	m	p	sa					N							
50.0						Qtz Ss	lt rd bn	f	m	p	sa					L							
52.5						ab Ss	tn	f	m	f	sr					N							
55.0						Qtz Ss	tn	f	f	sr						N							
57.5						Qtz Ss	tn	vf	f	f	sr					N							
60.0						ab Ss	tn	vf	f	p	sa					N							
62.5						Qtz Ss	tn	f	m	f	sr					N							
65.0						Qtz Ss	vlt tn	f	m	f	sa					N							
67.5						Qtz Ss	vlt tn	f	m	f	sr					N							
70.0						Qtz Ss, Sh	vlt tn-vlt gy	f	m	f	sr					M							
72.5						Qtz Ss	lt tn	m	cr	f	sr					N						some Hgy chert grains	
75.0						Qtz Ss	vlt tn	f	m	m	sr					N							
77.5						Qtz Ss	lt tn	f	m	m	sr					N						gray to tn chert fragments	
80.0						Qtz Ss, Cgl	lt tn	m	vr	m	sr					N						multi chert fragments	
82.5						Qtz Ss	lt tn	f	m	f	sr					N							
85.0						Qtz Ss, Cgl	lt tn	f	vr	f	sr					S						multi color chert fragments	
87.5						Sh	lt gn									N							
90.0						Qtz Ss	lt tn	f	m	sr						N						clean sandstone	
92.5						Qtz Ss	lt tn	vf	f	m	sr					N							
95.0						Qtz Ss	wh	vf	f	sr						N							
97.5						Sh, Qtz Ss	wh-vlt gy	vf	m	sr						N							
100.0						Qtz Ss, Sh	vlt gy	vf	m	sr						N							
102.5						Qtz Ss	wh	f	m	m	sr					N						clean sandstone	
105.0						Qtz Ss, Cgl	wh-gy	f	m	m	sr					N						chert fragments	
107.5						Qtz Ss, Cgl	wh-gy bn	m	cr	f	sr					N						" "	
110.0						Qtz Ss	wh	m	w	r						N							
112.5						Qtz Ss, Cgl	wh-lt gy	f	cr	p	sr					N							
115.0						Qtz Ss, Cgl	wh-multi color	cr	p	sr						N						multi color chert frag.	
117.5						Qtz Ss, Cgl	lt gy-multi	m	cr	f	sr					N						" " " "	
120.0						Qtz Ss, Cgl	lt gy	m	cr	f	sr					N						" " " "	
122.5						Qtz Ss, Cgl	lt gy-wh	m	cr	f	sr					N						" " " "	
125.0						Qtz Ss, Cgl	wh	f	m	f	sr					N							" " " "

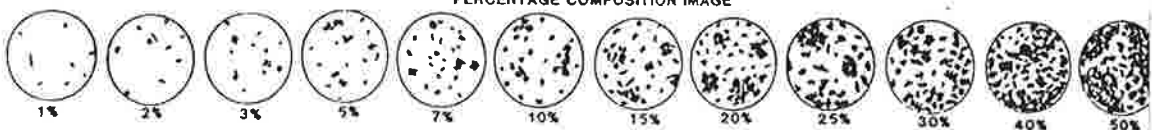


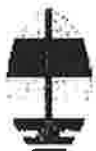
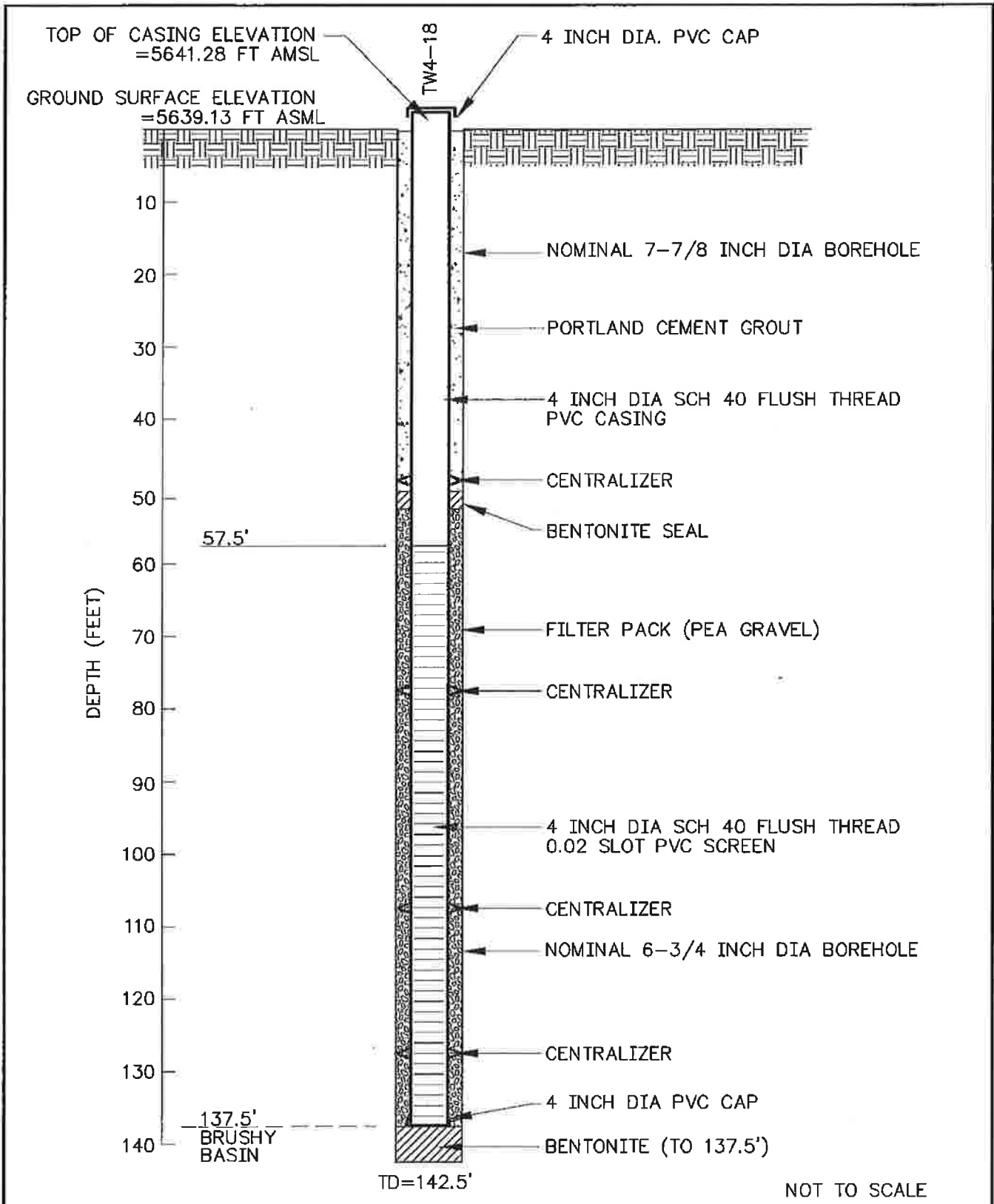
Date 7-2-2002 Geologist L. Casebolt Drilling Co. Dawles Exploration Hole No. TW4-17
 Property White Mesa Mill Project MW4 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

PAGE 2 OF 2
 T.D. PROBE 132.9
 T.D. DRILL 132.5
 FLUID LEVEL 115.5

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	GAMMA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR	WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	GEMENT MARIX	IRON OXIDE	AMOUNT	HABIT	ALTER	PYRITE	METALLIC	NON-METALLIC	REACT-10% HCL	AMOUNT	TYPE	CARBON	REMARKS
125.0						Sh, Qtz, Ss, Cyl	gn-wh	m	v	p	sr													Upper Brushy Basin Cl. 126.0 feet
127.5						Sh	gn-bp bn																	Clean shale
130.0						Sh	gn-pp bn																	Clean shale
132.5																								
T.D.																								

PERCENTAGE COMPOSITION IMAGE





**HYDRO
GEO
CHEM, INC.**

**TW4-18
WELL CONSTRUCTION SCHEMATIC**

Approved SS	Date 8/30/02	Revised	Date	Reference: 7180207A	FIG. 8
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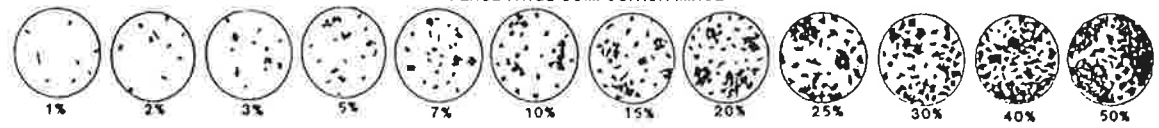
Date 7-8-2002 Geologist L. Casavolt Drilling Co. Ray's Exploration Hole No. TW4-18
 Property White Mesa Mill Project new Uni. No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	DRAMA ANOMALY	PRECIP. PIPE	LITHOLOGY	COLOR	WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT. MATT.	IRON OXIDE	AMOUNT	HABIT	PYRITE	METALLIC	NON-METALLIC	REACT-10% HCL	AMOUNT	TYPE	CARBON	REMARKS
0																							
2.5						Siltst	rd bn	vf									S						Surface soils
5.0						Siltst	rd bn	vf									VS						
7.5						siltst	rd bn - lt, rk bn	vf									VS						
12.0						Sh	lt pkn										VS						
12.5						Sh	lt pkn										S						
15.0						Sh	gray										S						
17.5						silty Sh	gray	vf									S						
20.0						silty Sh	gray	vf									VS						
22.5						silty Sh	gray	vf									M						
25.0						silty Sh	gray	vf									VS						
27.5						silty Sh	gray	vf									VS						
30.0						Qtz Ss, Siltst	gray bn	vf f p sa									VS						gypsum as selenic crystals
32.5						Siltst	or bn					L					VS						limonite
35.0						Siltst	or bn					L					S						limonite
37.5						Siltst	or bn					L					N						limonite
40.0						Siltst, Qtz Ss	or bn	m cr p sa			L/H						N						limonite/hematite, Upper Dakota Fm contact @ 39.5'
42.5						Qtz Ss	or bn	m cr f sa			L						N						limonite coating qtz grains
45.0						Qtz Ss	or bn	m cr f sa									N						" " " "
47.5						Qtz Ss	or bn	m cr f sa									N						" " " "
50.0						Qtz Ss	or bn	f m f sa									N						" " " "
52.5						Qtz Ss	tn	m f sr									N						" " " "
55.0						Qtz Ss	tn	m m sr									VM						" " " "
57.5						Qtz Ss	tn	f m f sr									M						" " " "
60.0						Qtz Ss, Sh	tn, lt gy	f m f sa									N						" " " "
62.5						Qtz Ss	tn	vf f f sa									N						" " " "
65.0						Qtz Ss	tn	vf f f sa									U						" " " "
67.5						Siltst	dk gy-blk	vf f p sa									N 20% I						abund carbon frag.
70.0						Siltst, Qtz Ss	dk gy-blk	f m p sa									N 30% I						" " "
72.5						Qtz Ss	dk gy-blk	m m sr									N 20% I						" " "
75.0						Qtz Ss, Cgl	dk gy bn	vf p sr									N						chert, quartz frags & pebbles
77.5						Qtz Ss	dk tn	f m m sr									N						" " " "
80.0						Qtz Ss	dk tn	f m m r									N						" " " "
82.5						Qtz Ss, Sh	tn, lt gy	f m f sr									N						" " " "
85.0						Sh	lt gy										N						" " " "
87.5						Sh	lt gy										N						" " " "
90.0						Sh, Qtz Ss	lt gy - lt tn	vf m sr									N						" " " "
92.5						Qtz Ss	lt tn	vf f m sr									N						" " " "
95.0						Qtz Ss, Cgl	lt tn - gy bn	f m p sa									N						" " " "
97.5						Siltst	lt gy	vf									N						" " " "
100.0						Siltst, Qtz Ss	lt gy	vf f m sa									N						" " " "
102.5						Siltst, Qtz Ss	lt gy - lt tn	f f sa									N						" " " "
105.0						Qtz Ss	lt tn	f m sa									N						" " " "
107.5						Qtz Ss	lt tn	f f sa									N						" " " "
110.0						Qtz Ss	lt tn	f f sa									N						" " " "
112.5						Qtz Ss	lt tn	f m f sr									N						" " " "
115.0						Qtz Ss	lt tn	f m f sr									N						" " " "
117.5																							" " " "
120.0																							no cuttings from this interval
122.5																							" " " "
125.0						Qtz Ss	lt tn	m m sa									N						" " " "

PAGE 1 OF 2
 T.O. PROBE _____
 T.D. DRILL 142.5
 FLUID LEVEL 62 Feet

REMARKS 7 3/8" bit collar to TD

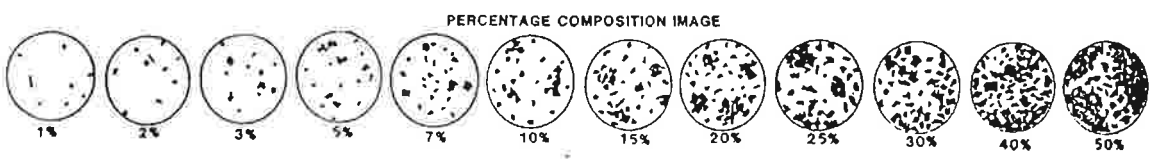
PERCENTAGE COMPOSITION IMAGE

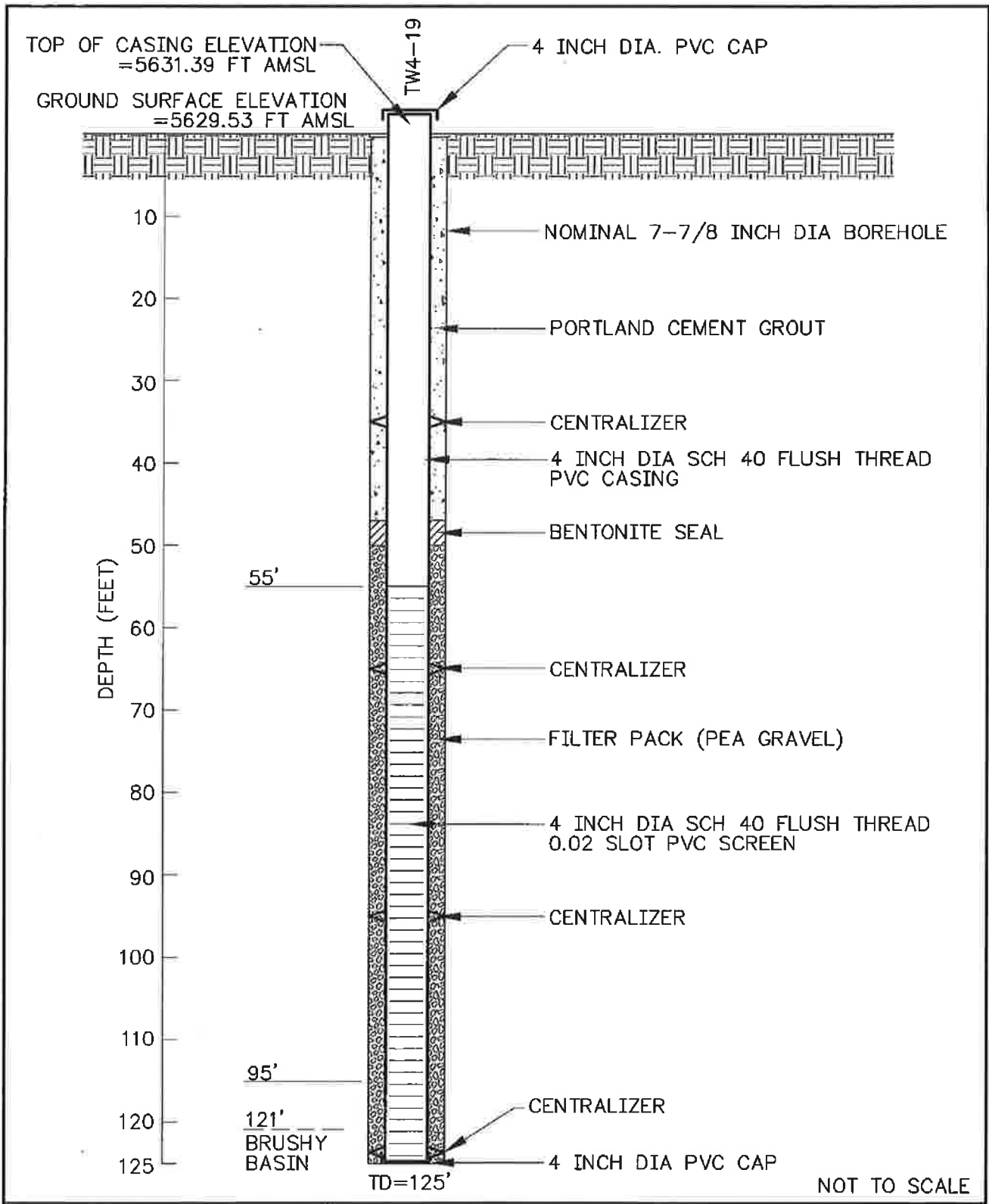


Date 7-8-2002 Geologist L. C. Isebolt Drilling Co. Bayles Exploration Co. Hole No. 7W4-18
 Property White Mesa Mill Project A1W4 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Ut. Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BIOMYX ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR	WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMOUNT	HABIT	ALTER	PYRITE		NON-METALLIC	REACT-10% HCL	AMOUNT	TYPE	CARBON	REMARKS
																	AMOUNT	TYPE						
125.0																								
127.5						Qtz Ss, Sstst	Hh - Hg	f m f sr										N						
130.0						Qtz Ss	Hl	f m p sr										N						
132.5						Qtz Ss	Ht	f m f sr										N						
135.0						Qtz Ss	Htr	f m p sr										N						
137.5						Qtz Ss Sh	Htr - ppbn	f m p sr										N						Upper Brushy Basin Fm. contact @ 137.5'
140.0						Sh	ppbn-ga											N						
142.5						Sh	ppbn.											N						
T.D.																								

PAGE 1 OF 2
 T.O. PROBE _____
 T.D. DRILL 142.5
 FLUID LEVEL 62 FCS





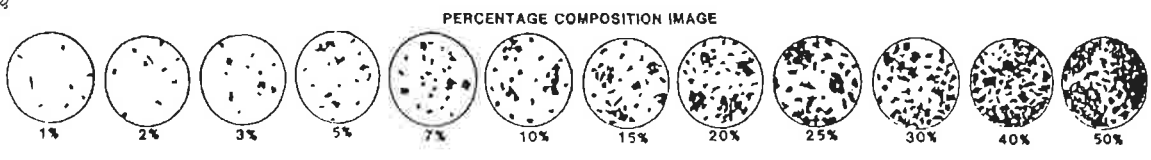
**HYDRO
GEO
CHEM, INC.**

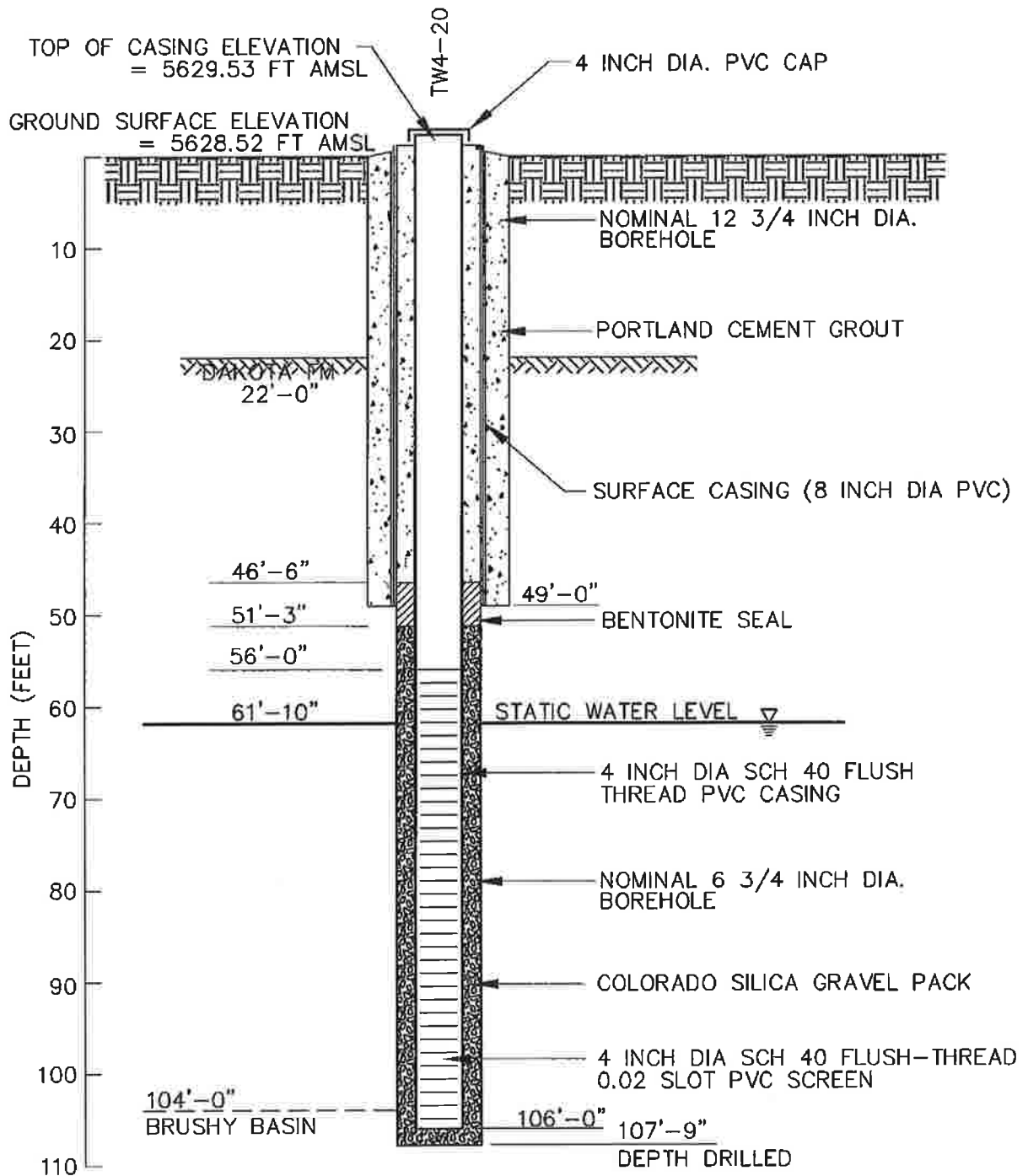
**TW4-19
WELL CONSTRUCTION SCHEMATIC**

Approved SS	Date 8/30/02	Revised	Date	Reference: 7180208A	FIG. 9
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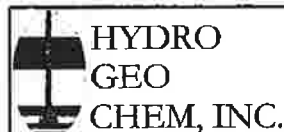
Date 7-9-02 Geologist L. R. K. Boit Drilling Co. Bayles export, inc Hole No. TW4-19
 Property White Mesa Mill Project 1114 Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location West of office sample Elev. _____

DEPTH	SAMPLE TAKEN	ALTERATION	LITHOLOGY	COLOR	WEF SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	PYRITE	METALLIC	NON-METALLIC	REACT-IOB	AMOUNT	TYPE	CARBON	REMARKS	
																			HAZARD
0.0																			PAGE 1 OF 1
2.5			Slt Sh	lt br	vf							S						Soil	T.O. PROBE
5.0			Slt Sh	lt pk tn	vf							VS							T.O. DRILL 12S.0
7.5			Sh	lt pk tn	vf							VS							FLUID LEVEL
10.0			Sh	lt tn	vf							S							
12.5			Slt Sh	lt gn	vf							S							
15.0			Qtz Ss-Slt	gn-grn	f p sa	tr						S						sparse qtz grains	
17.5			Slt Sh	gn br	vf							N							limonite and hematite coating on qtz grains
20.0			Slt Sh	gn br	vf							N							
22.5			Qtz Ss Slt	Horln	f-m f sa	1/2						N							Upper Dakota Fm. Lt approx 21.0 ft. limonite coating
25.0			Qtz Ss	Horln	m f sa	1/2						N							limonite coating on qtz grains
27.5			Qtz Ss	Horln	m f sa	1/2						N							
30.0			Qtz Ss	lt tn	m cr f sa							N							
32.5			Qtz Ss	lt tn	f m f sa							N							
35.0			Qtz Ss	lt tn	f f sa							N							
37.5			Qtz Ss	lt pk tn	f m sa							N							
40.0			Qtz Ss	lt tn	vf f p sa							N							
42.5			Qtz Ss	lt pk tn	vf f m sa							N							clean sandstone
45.0			Qtz Ss	lt pk tn	vf f m sa							N							
47.5			Qtz Ss-Sh	tn-wh	m cr p sa							N							
50.0			Qtz Ss-Sh	lt tn lt gn	f cr p sa							N							
52.5			Qtz Ss	lt pk tn	f m w sa							N							clean sandstone
55.0			Qtz Ss	lt pk tn	f m m sa							N							
57.5			Qtz Ss	lt pk tn	m w sa							N							
60.0			Qtz Ss	vltpk tn	f m m sa							N							
62.5			Qtz Ss	vltpk wh	f m m sa							N							
65.0			Qtz Ss	vltpk wh	f m m sa							N							
67.5			Qtz Ss	wh	f m f sa							N							
70.0			Qtz Ss-Cgl	lt tn	f ver p sa	tr						W							multi-color chert & qtz frags.
72.5			Qtz Ss-Cgl	tn	f ver p sa	tr						W							hematite coating on qtz & chert frags.
75.0			Qtz Ss-Cgl	tn	f ver p sa	tr						W							
77.5			Sh	lt blgy								N							
80.0			Qtz Ss	vltn	vf f f sa							N							
82.5			Qtz Ss-Sh	vltn-ltgn	vf f sa							N							
85.0			Sh-Qtz Ss	lt blgy-lt tn	f f sa							N							
87.5			Sh	lt gn-lt pk tn	vf							N							mottled shale frags.
90.0			Sh	lt gn-lt pk tn	vf							N							" " "
92.5			Qtz Ss	vltn	vf f f sa							N							
95.0			Qtz Ss-Sh	lt tn-lt gn	vf f sa							N							
97.5			Qtz Ss-Sh	lt tn-lt gn	vf f sa							N							
100.0			Qtz Ss-Cgl	lt gn-wh	f cr p sa	tr						N							
102.5			Qtz Ss-Cgl	lt gn	m cr f sa	tr						N							
105.0			Qtz Ss-Cgl	vltn-orbn	m cr f sa	tr						N							
107.5			Qtz Ss	lt pk tn	m m sa	tr						N							
110.0			Qtz Ss-Slt	lt tn-lt gn	m m sa							N							
112.5			Qtz Ss	lt gn	f f sa							N							
115.0			Qtz Ss	wh-lt gn	vf f sa							N							
117.5			Qtz Ss-Sh	wh-lt gn	vf f sa							N							
120.0			Qtz Ss-Cgl	wh-lt gn-or	f cr p sa							N							
122.5			Sh-Qtz Ss	pprdn-gy-wh	m f sa							N							Upper Brushy Basin Fm. Ctl. approx 121.0 feet
125.0			Sh	pprdn-gy-wh								N							





NOT TO SCALE



TW4-20
AS-BUILT WELL CONSTRUCTION SCHEMATIC

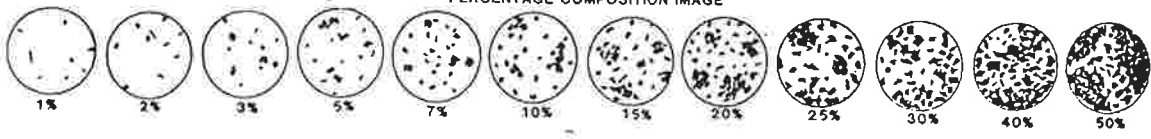
Approved	Date	Author	Date	File Name	Figure
SS	8/01/05			7180219A	11

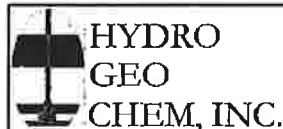
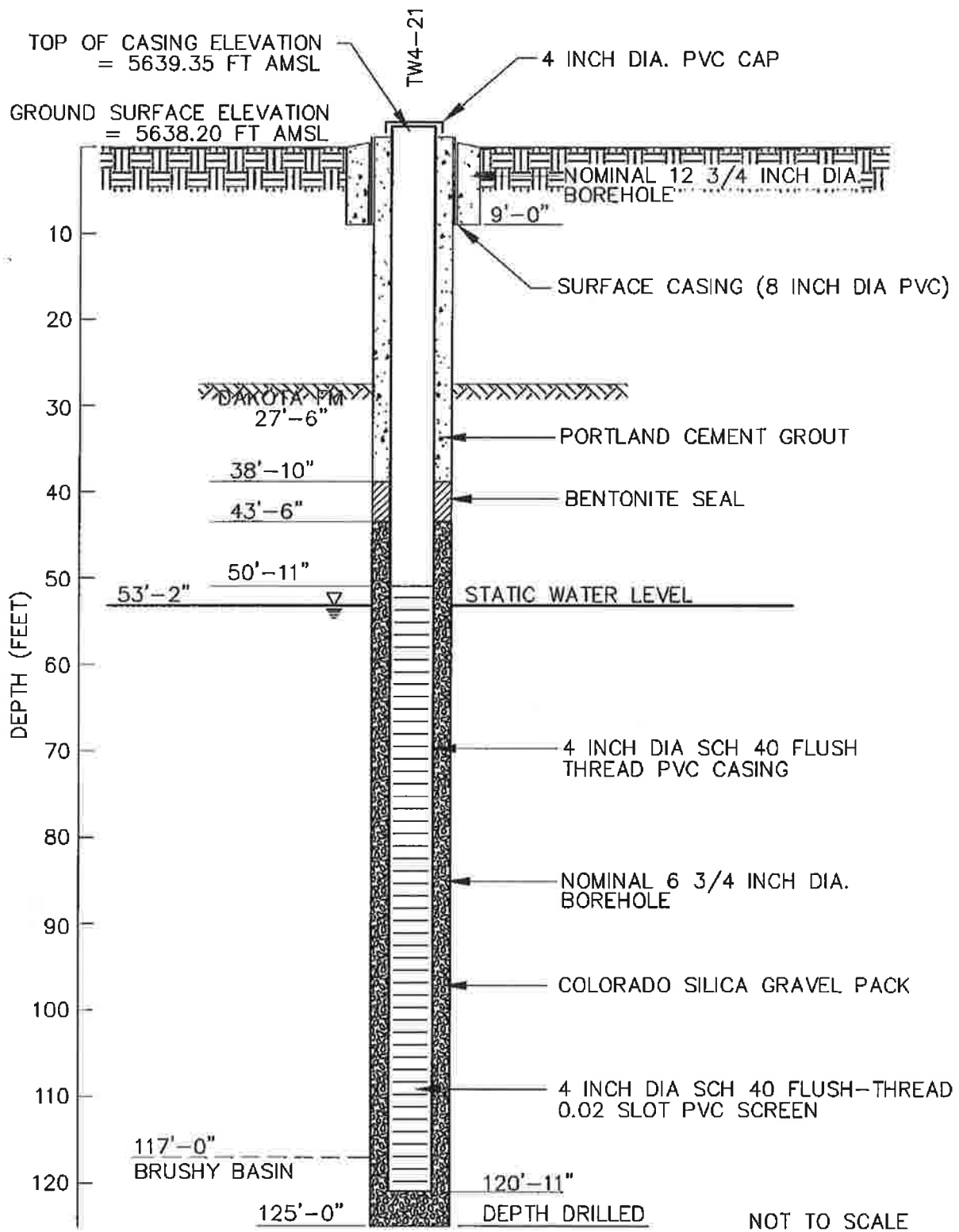
Date 4-9-05 Geologist L. Casebolt Drilling Co. Boyles Exploration Co. Hole No. TW4-20
 Property White Mesa Mill Project _____ Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. # 5627

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	GAMMA RADIALLY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	ABUNDANT	PYRITE	ALTERATION	METALLIC	NON-METALLIC	REACT-10% HCL	ABUNDANT	CARBON	REMARKS
0																					
2.5						sltysh	ywbn									S					Surface soil
5.0						sltysh	dkrdbn									m					
7.5						sltysh	dkrdbn-rdbn									VS					
10.0						sh	ywtn									VS					
12.5						sh	ywbn									VS					
15.0						sh	ywbn									vw					
17.5						slt	ywbn									vw					
20.0						Sandy slt	gybn			vf	m	sr				m					
22.5						Sandy slt	dkbn-dkgybn			vf	p	sr				N					Upper Dakota fm ct @ approx 22.0ft.
25.0						qtz ss	ltptn			vf	m	p	sr			N					
27.5						qtz ss	ywtn			vf	f	sr				N					
30.0						qtz ss	lttn			vf	f	sr				N					
35.0						qtz ss	lttn			f	cr	p	sr			N					
37.5						qtz ss	lttn			m	cr	m	sr			N					
40.0						qtz ss	ltptn			m	m	r	sp			N					Source Hematite, clay cement?
42.5						qtz ss	lttn			f	m	m	r			N					
45.0						qtz ss	vlttn			vf	f	m	r			N					
47.5						qtz ss	vlttn			vf	f	m	sr			N					
50.0						qtz ss, sh	lttn-ltgy			vf	f	p	sr			N					
52.5						qtz ss	vltgy			vf	f	p	sa			N					
55.0						qtz ss	vlttn			f	cr	w	sr			N					dk chert frags.
57.5						qtz ss	vlttn-wh			m	cr	w	r			N					" " "
60.0						qtz ss	vlttn-wh			m	cr	p	a			N					
62.5						qtz ss	vlttn-wh			m	cr	p	a			N					30% dk multi colored chert frags
65.0						qtz ss	wh-vlttn			m	cr	p	a			N					
67.5						qtz ss	wh-vlttn			m	cr	p	sa			N					
70.0						qtz ss, cgl	lttn-gy			m	cr	p	a			N					100% multi colored chert frags & pebb
72.5						qtz ss, cgl	ortn-gy			cr	p	sr				N					80% " " " " "
75.0						cgl, qtz ss	or-gy			cr	p	sa				N					80% " " " " "
77.5						cgl, qtz ss	or-gy			cr	p	sa				N					80% " " " " "
80.0						qtz ss	vlttn-wh			vf	f	m	sr			N					
82.5						qtz ss	vlttn-wh			vf	f	m	sr			N					
85.0						sh, qtz ss	wh-ltbl			vf	f	p	sr			N					
87.5						sh, slt	wh-ltbl			vf	f	p	sr			N					
90.0						sh, slt	wh-ltbl			vf	f	p	sr			N					
92.5						qtz ss	vlttn-wh			vf	w	r				N					
95.0						qtz ss	vlttn-wh			vf	w	r				N					
97.5						qtz ss	vlttn-wh			vf	w	r				N					
100.0						qtz ss	vlttn-wh			vf	w	r				N					
102.5						qtz ss	wh-vlttn			f	m	w	sr			N					
105.0						qtz ss, sh	wh-gn			vf	m	p	sr			N					Upper Brushy Basin CR 1040
107.5						Sandy sh	gn-dkgygn			vf	p	sa				N					Brushy Basin Mbr

PAGE 1 OF 1
 T.D. PROBE _____
 T.D. DRILL 107.5
 FLUID LEVEL _____

PERCENTAGE COMPOSITION IMAGE





TW4-21
 AS-BUILT WELL CONSTRUCTION SCHEMATIC

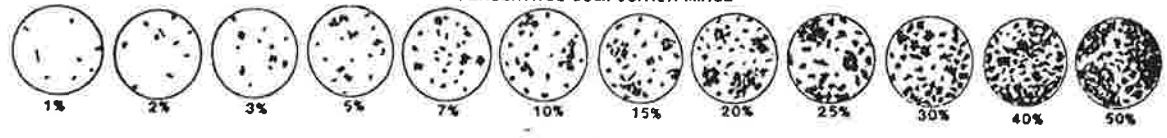
Approved	Date	Author	Date	File Name	Figure
SS	8/01/05			7180220A	12

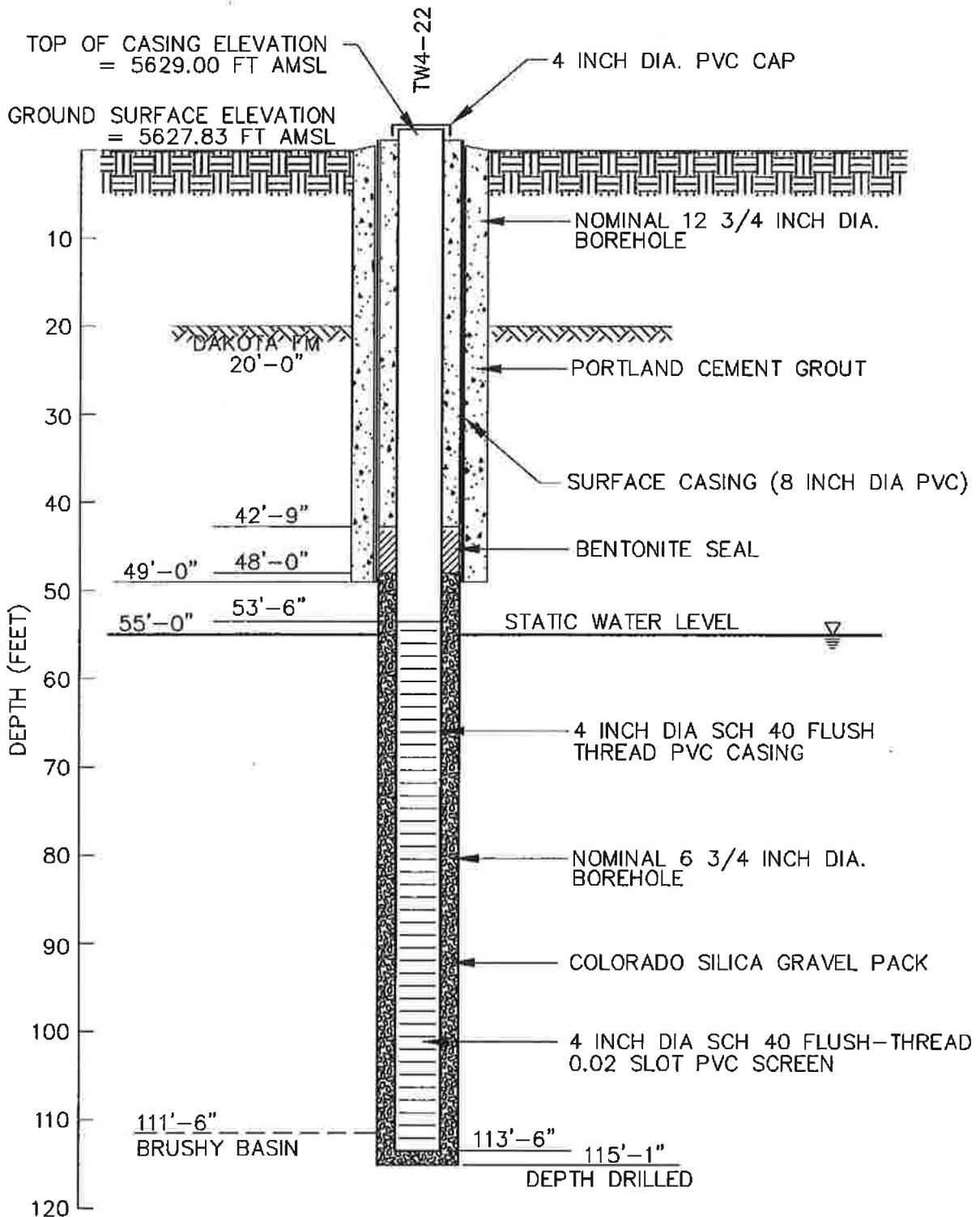
Date 4-19-05 Geologist L. Casabart Drilling Co. Bayles Exploration Co. Hole No. TW4-21
 Property White Mesa Mill Project _____ Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BARREN ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR	WE % SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE	AMOUNT	HABIT	ALTER.	PYRITE	METALLIC	NON-METALLIC	REACT. TO % HCL	AMOUNT	HCL TYPE	CARBON	REMARKS
0																								
2.5						Sndy siltst	rd bn	vf-f	P	sa								VS						Surface soil (mill yard - near change room)
5.0						Sndy siltst	rd bn-ltn	vf-f	P	sa								VS						manages sh.
7.5						siltst	lt aktn											VS						
10.0						sh	vw gy											VS						
12.5						sh	vw gy											S						
15.0						sh	vw gy											S						abnt. selenite xls. (gy)
17.5						sh	vw gy											M						" " " "
20.0						Sh siltst	vw gy											W						
22.5						siltst sh	vw gy											N						abnt. selenite xls.
25.0						siltst sh	vw gy											N						
27.5						siltst sh	vw gy											N						
30.0						qtz ss	tn	f-m	W	sa								N						Upper Cr Dakota Fm @ 27.5'
32.5						qtz ss	or tn	f-m	W	sr	L	M						N						chert frags.
35.0						qtz ss	or tn	m	W	sa								N						
37.5						qtz ss	tn bn	m	W	sa								N						abnt. chert grains
40.0						qtz ss	tn bn	m-cr	W	sr								N						
42.5						qtz ss	tn	m-cr	W	sr								N						
45.0						qtz ss	tn	m-cr	W	sr								N						Moisture first noticed in casing
47.5						qtz ss	tn	f-m	W	sr								N						
50.0						qtz ss-sh	tn-gy	f-m	W	sr								N						
52.5						qtz ss-siltst	vdkggy-ltgy	vf-f	f	sa								N						
55.0						siltst sh-ss	vdkggy-ltgy	vf-m	f	sa								N						
57.5						qtz ss	lt pxtn	m	W	sr								N						
60.0						sndy siltst	ltgybn	f-ver	f	sa								N						
62.5						qtz ss-grit	ltgy	m-ver	P	sr								N						abnt. light colored chert frags.
65.0						qtz ss	ltgytn	m-cr	f	sr								N						
67.5						qtz ss	ltgytn	m	W	r								N						
70.0						qtz ss	ltgytn	m	W	r								N						
72.5						qtz ss-grit	ltgytn	m-ver	W	r								N						
75.0						qtz ss-grit	ltgytn	m-ver	W	r								N						
77.5						qtz ss-cgl	gy bn	m-peg	P	sr								N						cgl. zone, abnt chert frag. & pebbles
80.0						qtz ss-grit	gytn	m-ver	P	sa								N						
82.5						qtz ss-cgl	dkgytn	f-peg	P	sa								N						
85.0						qtz ss-siltst	dkgy	vf-cr	P	sa								N						Silt, fg ss @ 84.0 ft.
87.5						qtz ss	gy	vf-f	f	sa								N						
90.0						qtz ss	gy	vf-f	f	sa								N						
92.5						qtz ss	gy	vf-f	f	sa								N						
95.0						qtz ss	gy-wh	vf-f	f	sa								N						
97.5						qtz ss	wh	f-m	f	sa								N						
100.0						qtz ss	wh	f-m	W	sr								N						
102.5						qtz ss	vlttn-wh	f-m	W	sr								N						
105.0						qtz ss	wh	f-m	W	sr								N						
107.5						qtz ss	wh-ltgn	m-ver	f	r								N						sparse dk. gy chert frag.
110.0						qtz ss	wh	f-m	W	sr								N						
112.5						qtz ss	wh	f-m	W	sr								N						
115.0						qtz ss-sh	wh-ltgn	f-m	W	sr								N						sparse gn sh frag.
117.5						qtz ss-sh	wh-gn	f-m	W	sr								N						Upper Brushy Basin Ct @ approx 117.0 ft. (112 v. den)
120.0						sh	pd-gygn											N						
122.5						sh	pd-gygn											N						
125.0						sh	ppbn-dkgygn											N						TD

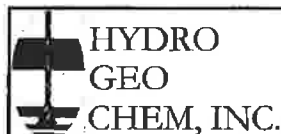
PAGE 1 OF 1
 T.D. PROBE _____
 T.D. DRILL 125.0
 FLUID LEVEL _____

PERCENTAGE COMPOSITION IMAGE





NOT TO SCALE



TW4-22
AS-BUILT WELL CONSTRUCTION SCHEMATIC

Approved	Date	Author	Date	File Name	Figure
SS	8/01/05			7180221A	13

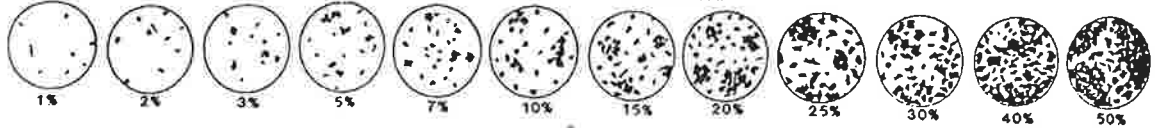
Date 4-9-75 Geologist L. Casbolt Drilling Co. Boyies Exploration Co. Hole No. TW4-22
 Property White Mesa Mill Project _____ Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County Son-Town State Utah Location _____ Elev. _____

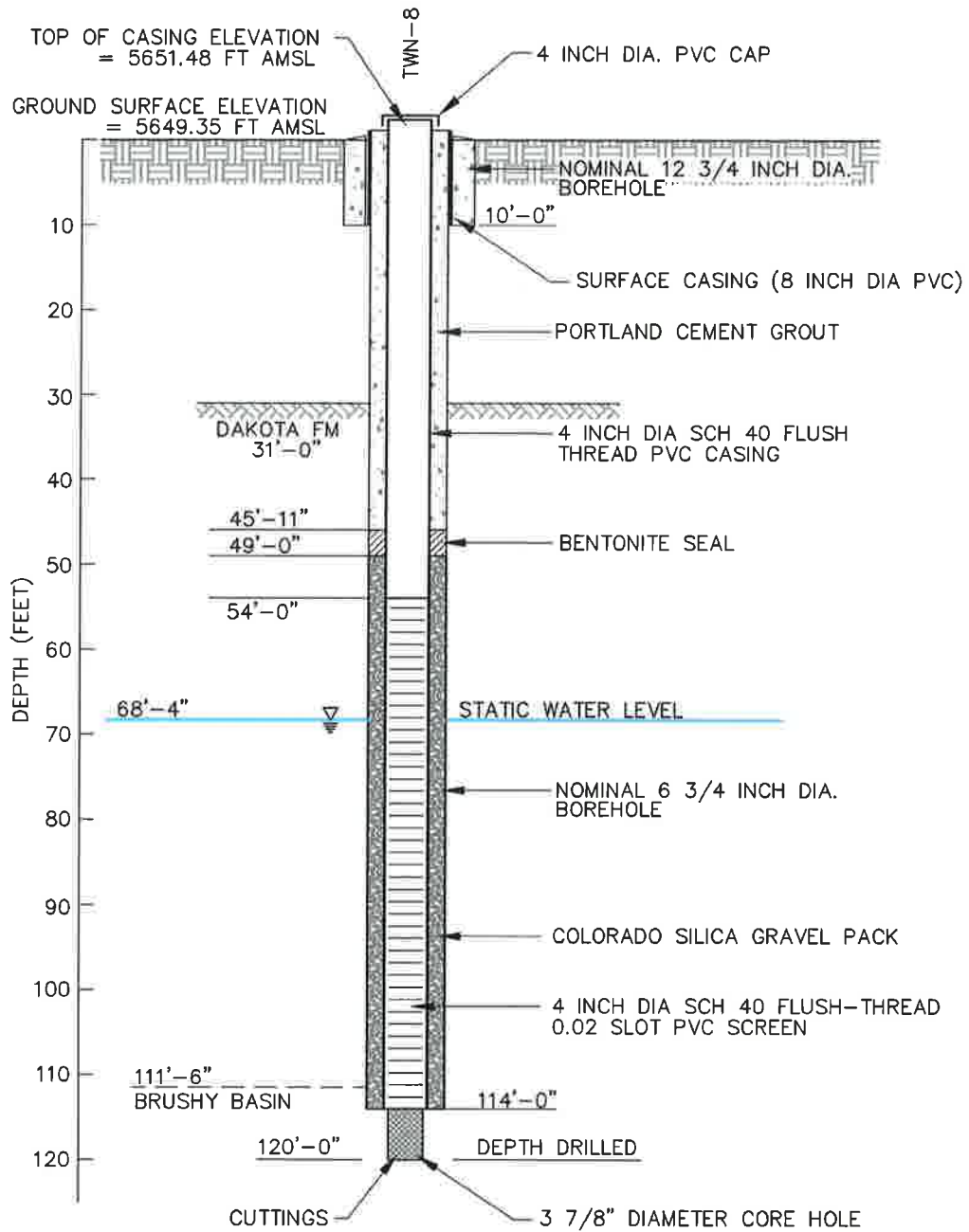
DEPTH	SAMPLE TAKEN	GRAINIC LOG	ALTERATION	BARRETT ANOMALY	BEECHER PIPE	LITHOLOGY	COLOR OF WET SAMPLE			GRAIN SIZE	SORTING	ANGLARITY	CEMENT MATRIX	IRON OXIDE	AMOUNT	PYRITE	ALTER.	METALLIC	NON-METALLIC	REACT. TO HCL	AMOUNT	TYPE	CARBON	REMARKS
							F	M	P															
0																								
2.5						sandy silt	or	bn	f	m	p	sa												Surface soil
5.0						qtz ss	or	bn	vf	or	p	sa												
7.5						qtz ss, silt	tn	bn	vf	m	f	sa												
10.0						silt, qtz ss	vl	rd	bn	vf	p	sa												
12.5						silt, qtz ss	vl	rd	bn	vf	f													
15.0						silt, sh	vl	rd	bn															
17.5						silt, sh	vl	rd	bn															
20.0						sandy silt	lt	or	tn	vf	f	f	sa											
22.5						qtz ss	vl	tn		p	m	f	sa											
25.0						qtz ss	vl	tn		p	m	f	sr											Upper Dakota Fm. at approx 20.0 ft.
27.5						qtz ss	tn			m	w	sr												
30.0						qtz ss	tn			f	m	f	sr											
32.5						qtz ss	lt	tn		f	m	w	sa											
35.0						qtz ss	lt	tn		f	m	f	sa											
37.5																								
40.0						qtz ss	tn			f	m	f	sa											No Cuttings
42.5						qtz ss	tn			f	m	f	sr											
45.0						qtz ss	tn			m	w	sa												
47.5						qtz ss	tn			f	m	f	sa											
50.0						qtz ss	tn			m	w	sr												
52.5						qtz ss	vl	tn		m	f	sr												
55.0						qtz ss	tn			m	f	sr												
57.5						qtz ss	qtz	tn		m	cr	f	sa											
60.0						qtz ss	qtz	tn		f	w	sr												
62.5						qtz ss	lt	bn		m	vr	p	sa											
65.0						qtz ss	qtz	tn		f	f	sa												
67.5						qtz ss	lt	bn		m	w	sr												
70.0						qtz ss	lt	qtz	bn	m	cr	f	sr											
72.5						qtz ss	or	bn		m	cr	p	sa											
75.0						qtz ss, cgl	tn			m	vr	p	a											
77.5						qtz ss, cgl	tn			m	vr	p	sa											
80.0						qtz ss	tn			f	cr	p	sr											
82.5						qtz ss	tn			f	m	f	sr											
85.0						qtz ss	lt	tn		f	m	f	sr											
87.5						qtz ss	lt	tn		f	m	f	sr											
90.0						qtz ss	lt	tn		f	m	f	sr											
92.5						qtz ss, sh	tn	gyl		f	m	f	sr											
95.0						qtz ss	tn			f	m	f	sr											
97.5						qtz ss	tn			f	m	w	sr											
100.0						qtz ss	vl	tn	wh	f	vr	p	sa											
102.5						qtz ss, cgl	vl	tn	wh	f	vr	p	sa											
105.0						qtz ss, cgl	tn			f	vr	p	sa											
107.5						qtz ss, cgl	dk	qtz	tn	m	vr	p	sa											
110.0						qtz ss, cgl	dk	qtz	tn	m	vr													
112.5						sandy silt	lt	qtz	rd	bn	or													
115.0						sandy sh	vl	qtz		m	p	sa												

PAGE 1 OF 1
 T.D. PROBE _____
 T.D. DRILL 115.0
 FLUID LEVEL _____

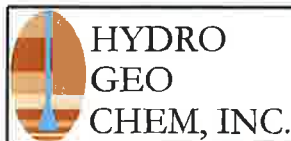
REMARKS cored from 20'-115.0'

PERCENTAGE COMPOSITION IMAGE





NOT TO SCALE



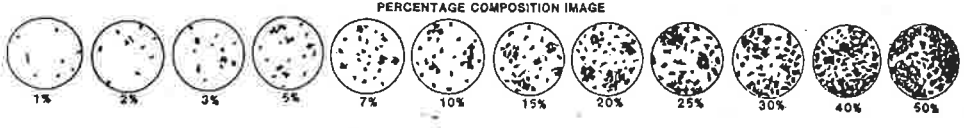
**TW4-23
AS-BUILT WELL CONSTRUCTION SCHEMATIC**

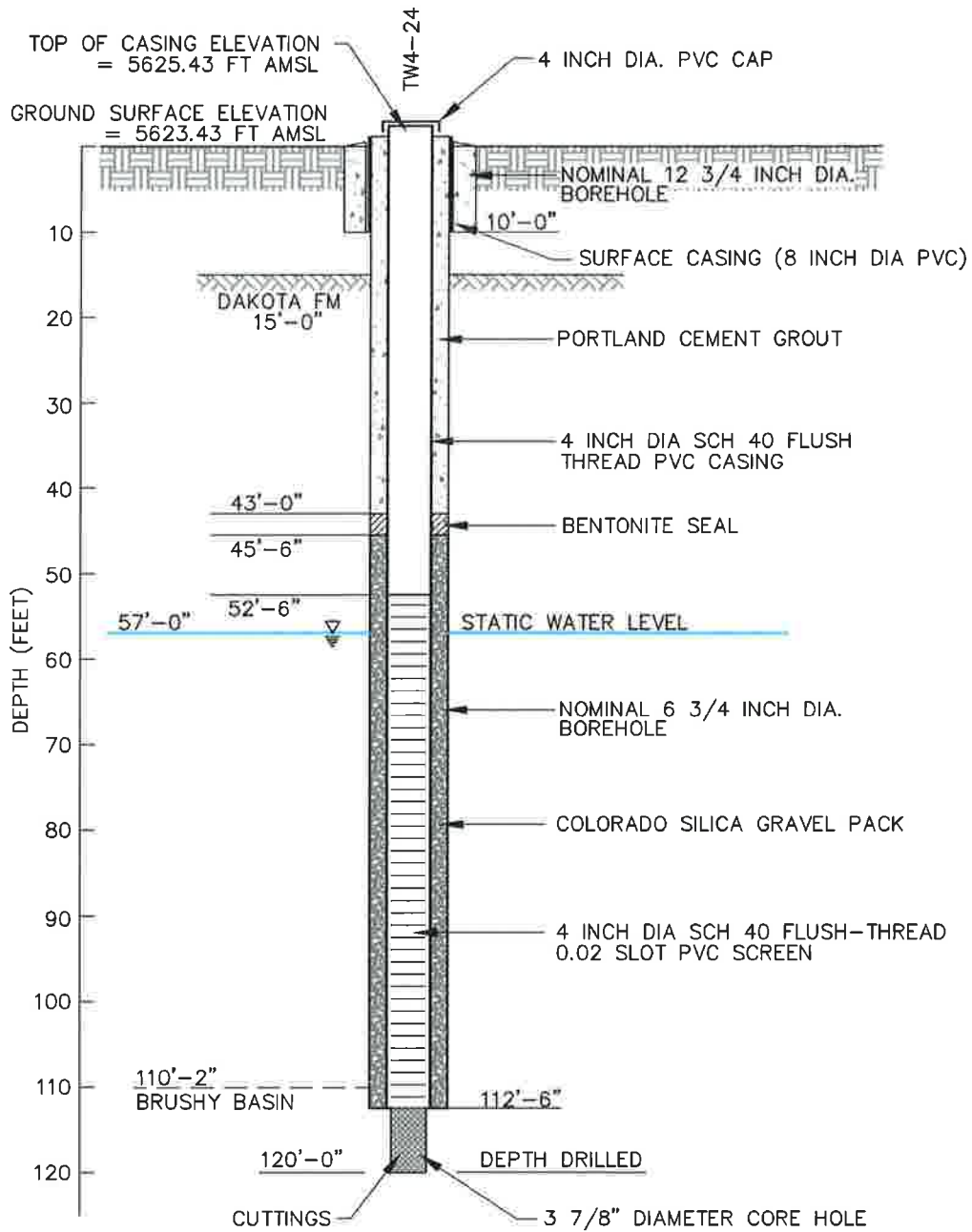
Approved	Date	Author	Date	File Name	Figure
SS	03/17/10	AMC	03/17/10	7180244A	2

Date 5-1-07 Geologist Casebolt Drilling Co. Boyles Exploration Hole No. TW4-23
 Property White Mesa Project _____ Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

PAGE 1 OF 1
 T.D. PROBE _____
 T.D. DRILL 120.0
 FLUID LEVEL _____
 REMARKS CORE ZONE 100-120

DEPTH	SAMPLE TAKEN	ALTERATION	LITHOLOGY	COLOR	WT SAMPLE	GRAIN SIZE	ABUNDANCE	CEMENTATION	FROST DAMAGE	ABUNDANCE	PYRITE	METALLIC	NON-METALLIC	ABUNDANCE	REMARKS
0															
2.5			Sndy siltst	lt drbr	f p							S			Surface soil
5.0			Sh	lt drbr								VS			Manganese sh
7.5			Sh	lt blk sh								VS			
10.0			Sh	lt blk sh								VS			
12.5			Sh	lt wgy								VS			
15.0			Sh	lt wgy-gy								VS			abund selenite xls
17.5			Sh	lt wgy								VS			some selenite xls
20.0			sndy sh	lt wgy	vf p							S			very abund selenite xls
22.5			Sh	lt wgy								M			spars selenite xls
25.0			sndy sh	lt wgy	vf p							W			very large & abund selenite frags
27.5			sndy sh	lt wgy-gy	vf p							N			abund selenite
30.0			sndy sh	lt wgy	vf p							N			some selenite
32.5			qtz ss/sh	lt blk	f-m p r							N			Upper Dakota Fm contact approx 31.0ft
35.0			qtz ss	lt blk	f-m p r							N			
37.5			Sh	gy								N			shale lens
40.0			qtz ss	lt blk	vf w r							N			
42.5			qtz ss	lt blk	vf w r							N			
45.0			qtz ss	lt blk	vf w r							N			
47.5			qtz ss	lt blk	vf w r							N			
50.0			qtz ss	lt blk	vf w r							N			
52.5			qtz ss	lt blk	vf w r							N			
55.0			qtz ss	lt blk	vf w r							N			
57.5			Silt sh	lt blk								N	S		carbon plant frags
60.0			qtz ss/gy	lt blk	f-m p r							N			chert pebb/ frags
62.5															No sample
65.0			qtz ss	lt blk	f-m p r							N			
67.5			qtz ss/gy	lt blk	f-m p r							N			abund multi-colored chert frag & pebb
70.0			qtz ss/gy	lt blk	f-m p r							N			Some multi-colored chert frags
72.5			qtz ss	lt blk	f-m p r							N			
75.0			sndy siltst	lt blk	vf p							N			
77.5			siltst/sh	lt blk								N			
80.0			siltst	lt blk								N			
82.5			siltst	lt blk								N			
85.0			qtz ss	lt blk	f-m p r							N			minerals first noted
87.5			qtz ss	lt blk	f-m p r							N			
90.0			qtz ss	lt blk	f-m p r							N			
92.5			qtz ss	lt blk	f-m p r							N			
95.0			qtz ss	lt blk	f-m p r							N			
97.5			qtz ss	lt blk	f-m p r							N			Trace blk sh, sparse chert grains
100.0			qtz ss	lt blk/sh	f-m p r							N			Begin core run
102.5															No sample
105.0			qtz ss	lt blk	f-m p r							N			
107.5			qtz ss	lt blk	f-m p r							N			
110.0			qtz ss/sh	lt blk-vlt blk	f-m p r							N			
112.5			qtz ss/sh	lt blk-vlt blk	f-m p r							N			Upper Brushy Basin Ct @ 111.5, from core
115.0			Sh-siltst	lt blk								N			
117.5			Sh-qtz ss	lt blk	f-m p r							N			
120.0			Sh-qtz ss	lt blk	f-m p r							N			Bottom in Brushy Basin T.D. 120.0





NOT TO SCALE

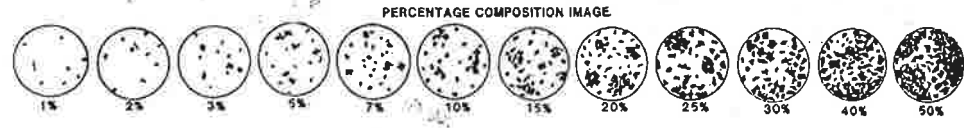


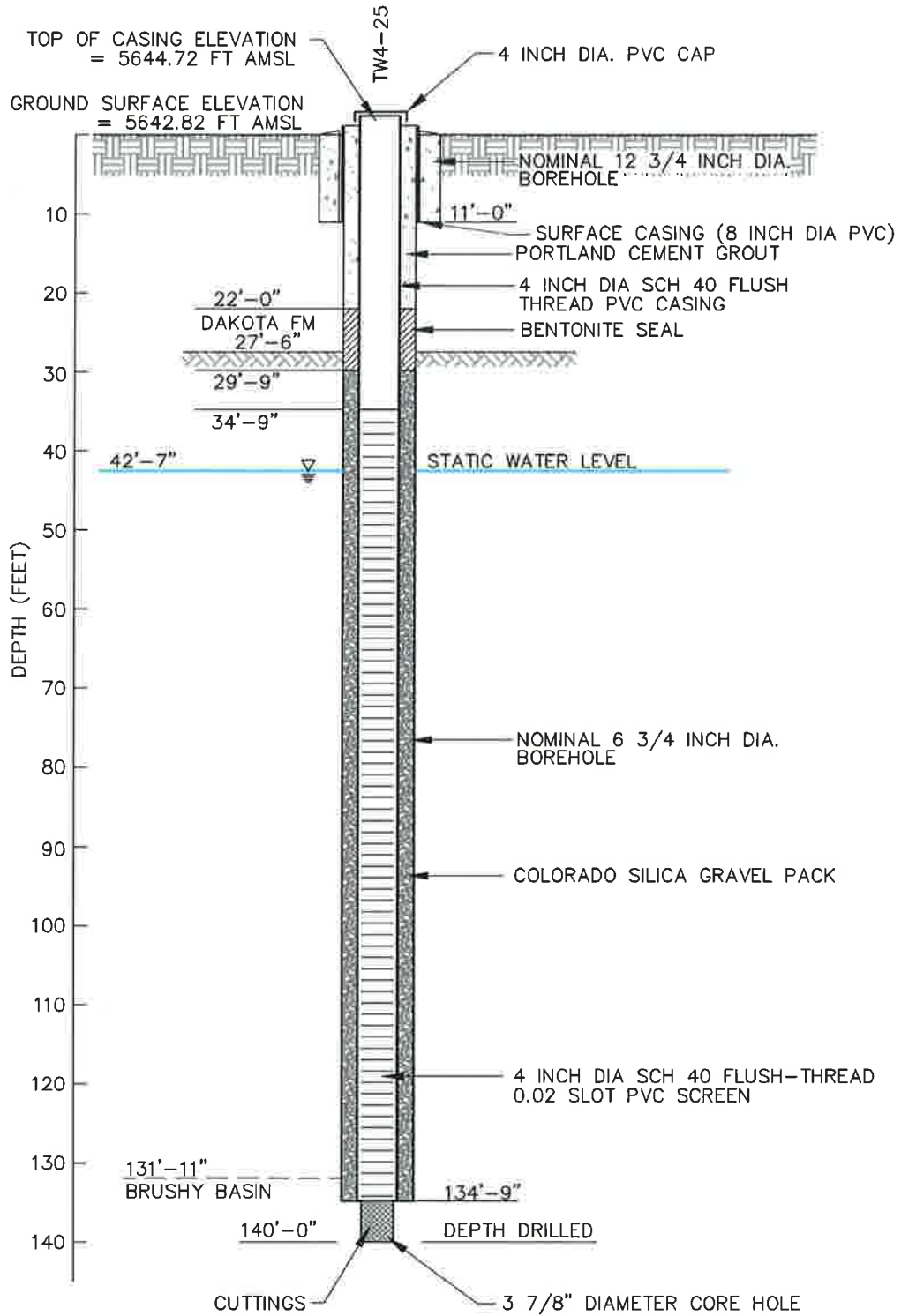
**TW4-24
AS-BUILT WELL CONSTRUCTION SCHEMATIC**

Approved	Date	Author	Date	File Name	Figure
SS	03/17/10	AMC	03/17/10	7180245A	3

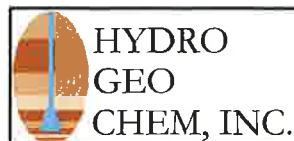
Date 5-2-07 Geologist L. Casabon Drilling Co. Bayles Exploration Co. Hole No. TW4-24
 Property White Mesa Project _____ Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. 5

DEPTH	SAMPLE NUMBER	GRAPHIC LOG	ALTERNATION	BANDA ANALYSIS	BUEGLI TYPE	LITHOLOGY	COLOR	WET SAMPLE	GRAIN SIZE	SORTING	ABUNDANCE	PERCENTAGE	IRON OXIDE	PYRITE	METALLIC	NON-METALLIC	REACT. TO HCl	REACT. TO H ₂ O	CARBON	REMARKS
2.5						Sandy Siltst	rdbr	vf. cr. p	A	h				S						Surface silt - some w/ chert frags.
5.0						Sandy Siltst	rdbr	vf. f. cr. SA	h					VS						" " fr. selenite xlt
7.5						siltst	rdbr							N						
10.0						Sandy siltst	lt br	vf. f. m. SA	h					VS						
12.5						Siltst	lt br							S						
15.0						Shale	lt gray							S						Mancos Shale
17.5						qtz ss	tn	f. m. m. SR						N						Upper Dakota fm contact at approx 15.0'
20.0						qtz ss	lt gray	m. cr. m. SA						N						same w/ chert frags.
22.5						qtz ss	tn	m. cr. m. SA						N						
25.0						qtz ss	lt tn	f. m. m. SA						N						
27.5						qtz ss	lt tn	f. m. m. SA						N						
30.0						qtz ss, sh	lt tn-gy	f. m. m. SA						N						some lt gy shale frags. (2%)
32.5						qtz ss, sh	lt tn-gy	f. m. m. SA						N						" " " " (10%)
35.0						qtz ss, sh	lt tn-gy	f. m. SA						N						ss/sh 50%/50%
37.5						qtz ss, sh	wh-tn gy	f. m. SA						N						ss/sh 50%/50%
40.0						qtz ss, sh	wh-tn gy	f. m. m. SA						N						ss/sh 80%/20%
42.5						qtz ss, sh	wh-tn gy	f. m. m. SA						N						ss/sh 90%/10%
45.0						qtz ss	tn	vf. m. P. SA						N						clean ss, sparse w/ chert grains
47.5						qtz ss	wh	vf. m. P. SA						N						some white chert grains
50.0						qtz ss	wh	f. m. m. SR						N						some white chert grains, surface many pits
52.5						qtz ss, cgl	lt tn	m. cr. P. SA						S						white chert frags, conglomerate zone
55.0						qtz ss, cgl	tn	m. cr. P. SA						N						white to gray chert frags
57.5						qtz ss	tn	m. cr. P. R						N						multi colored chert grains
60.0						qtz ss, cgl	tn	m. cr. P. SR						N						" " " "
62.5						qtz ss	tn	f. m. P. SA						N						" " " "
65.0						qtz ss	tn	f. m. m. SR						N						" " " "
67.5						qtz ss	tn	m. cr. P. R						N						" " " "
70.0						qtz ss	tn	m. cr. P. SR						N						chert pebble frags. w/ fr limonite after pyrite
72.5						qtz ss	lt tn	m. cr. m. SR						N						
75.0						qtz ss	vt tn	m. cr. m. SR						N						
77.5						qtz ss	wh	m. cr. m. SR						N						
80.0						qtz ss, sh	wh-lt gray	m. cr. m. SR						N						ss/sh 60%/40%
82.5						silty sh	tn-gy							N						
85.0						qtz ss	wh-lt gy	f. m. m. SA						N						
87.5						qtz ss, silt	wh-lt tn	f. m. m. SA						VS						
90.0						qtz ss, silt	lt tn-lt gy	f. m. m. SA						N						
92.5						qtz ss	vt tn	f. m. m. SR						N						
95.0						qtz ss	vt tn	f. m. m. SA						N						
97.5						qtz ss	vt tn	f. m. m. SA						N						
100.0						qtz ss	vt tn	m. cr. R						N						some rounded chert grains - begin coring
102.5																				no cutting recovered below 100.0'
105.0																				
107.5																				
110.0																				
112.5																				
115.0																				





NOT TO SCALE



TW4-25
AS-BUILT WELL CONSTRUCTION SCHEMATIC

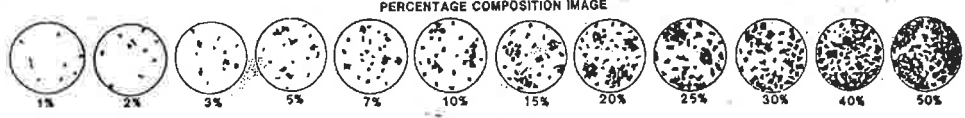
Approved	Date	Author	Date	File Name	Figure
SS	03/17/10	AMC	03/17/10	7180246A	4

Date 4-30-07 Geologist L. Casabolt Drilling Co. Boyles Exploration Co. Hole No. TW4-25
 Property White Mesa Mill Project _____ Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. ≈

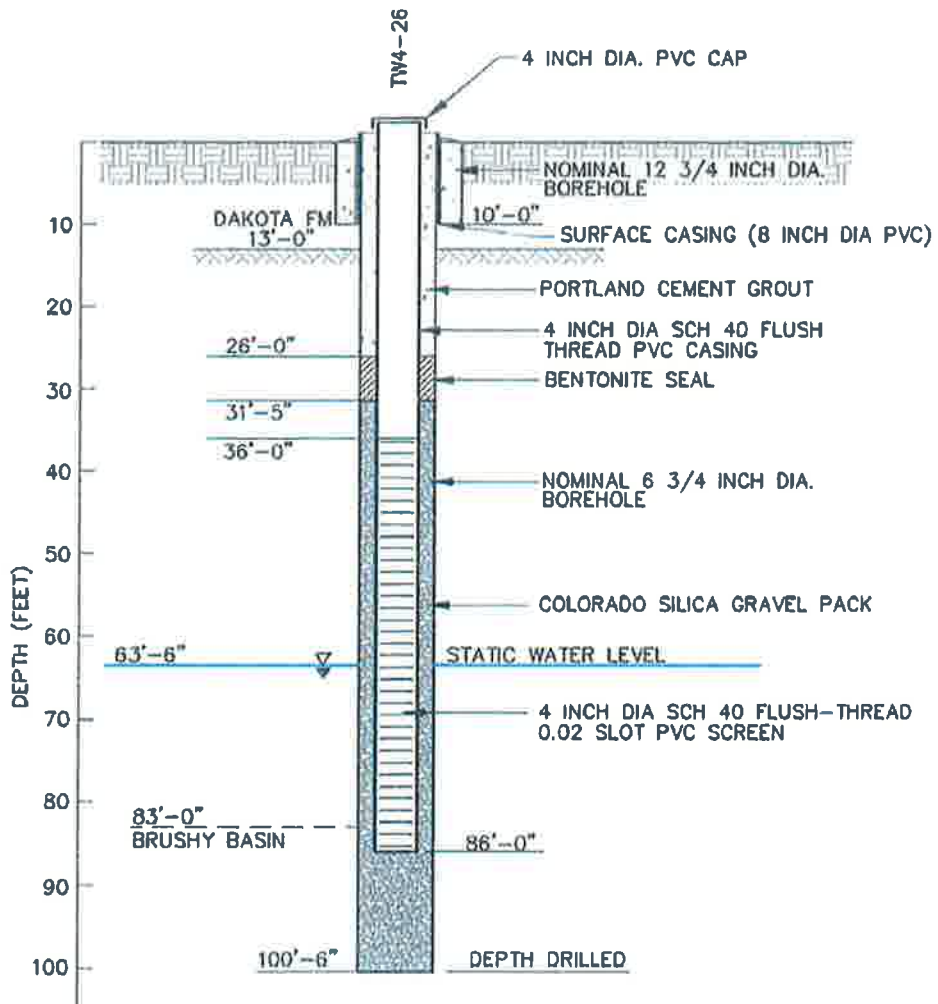
DEPTH	SAMPLE NUMBER	ORGANIC LOG	ALTERATION	DRAMA ANALYSIS	PERCENT FINE	LITHOLOGY	COLOR	WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMOUNT	HABIT	PYRITE	METALLIC	NON-METALLIC	AMOUNT 10% MIN	TYPE	REMARKS	
																						DEPTH
0																					Surface Soil.	
2.5						Sandy silt	rdbr	vf	P	SA	h											
5.0						sandy silt	rdbr	vf	P	SA	h											
7.5						Siltsh	lt br														Managers Shale, Fin	
10.0						Silt sh	lt br															
12.5						Shale	lt br-Hwygn															
15.0						Shale	lt br-Hwygn															
17.5						Shale	lt br-Hwygn															
20.0						Sandy sh	lt gy br	vf														
22.5						Sandy sh	lt gy br	vf														
25.0						Sandy sh	lt gy br	vf														
27.5						Sandy sh	lt gy br	vf													Upper Dakota fm contact at approx 27.5 ft	
30.0						qtz ss	lt tn	f	m	SR	h											
32.5						qtz ss	lt tn-Hgy	f	m	SR	h											
35.0						qtz ss	lt tn	f	m	SR	h											
37.5						qtz ss	lt tn	f	m	SR	h											
40.0						qtz ss	lt tn	f	m	SR	h											
42.5						qtz ss	vlt tn	f	m	SR	h										trace diss. pyrite	
45.0						qtz ss	vlt tn	f	m	SR	h											
47.5						qtz ss	vlt tn	f	m	SR	h											
50.0						qtz ss	vlt tn-vlt gy	f	m	SR	h											
52.5						qtz ss	lt gy tn	f	m	SR	h											
55.0						qtz ss	wh-lt gy	f	m	SR	h										Some multi-colored chert frags.	
57.5						qtz ss	vlt tn	f	m	SR	h										Some gy chert frags.	
60.0						qtz ss	vlt tn	f	m	SR	h										dk gy chert frags.	
62.5						qtz ss	wh	f	m	SR	h										clean ss.	
65.0						qtz ss	wh	f	m	SR	h										abnt dk chert frags	
67.5						qtz ss	wh-lt tn	vf	m	SR	h										" lt chert frags	
70.0						qtz ss	vlt tn	vf	m	SR	h											
72.5						qtz ss-chert	wh-tn	m	SR	SR	h											
75.0						qtz ss-chert	wh-tn	m	SR	SR	h										abnt multi-colored angular chert frags	
77.5						qtz ss-Cgl	tn	vcr	cl	P	A										" " " " " "	
80.0						qtz ss-Cgl	qtz tn	vcr	cl	P	A											" " " " " "
82.5						qtz ss-Cgl	qtz tn	vcr	cl	P	A											" " " " " "
85.0						qtz ss-Cgl	qtz tn	vcr	cl	P	A											" " " " " "
87.5						qtz ss-Cgl	qtz tn	vcr	cl	P	A											" " " " " "
90.0						qtz ss-Cgl	lt tn	vcr	cl	P	SA											Some multi-colored angular chert frags.
92.5						qtz ss	vlt tn	m	SR	SR	h											" " " " " "
95.0						qtz ss	vlt tn	f	m	SR	h											" " " " " "
97.5						qtz ss-sh	vlt tn-vlt gn	vf	m	SR	h											Sparse shale frags
100.0						Siltsh	vlt gn															
102.5						qtz ss-sh	lt tn-lt gn	vf	m	SR	h											sparse shale frags.
105.0						lt ss	lt tn	f	m	SR	h											sand size chert grains
107.5						qtz ss-sh	lt tn-lt gn	vf	f													some lt gn shale frags.
110.0						qtz ss-sh	lt tn-lt gn	vf	f													" " " " " " Begin coring @ 110.0'
112.5						qtz ss	lt tn	vf	m													
115.0						qtz ss	lt tn	vf	m													
117.5																						No Partings recovered below 115.0'
120.0																						
122.5																						
125.0																						

PAGE 1 OF 2
 T.O. PROBE _____
 T.D. DRILL 1400
 FLUID LEVEL _____

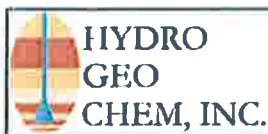
REMARKS CORRECTION ZONE 110.8'-140'



2742

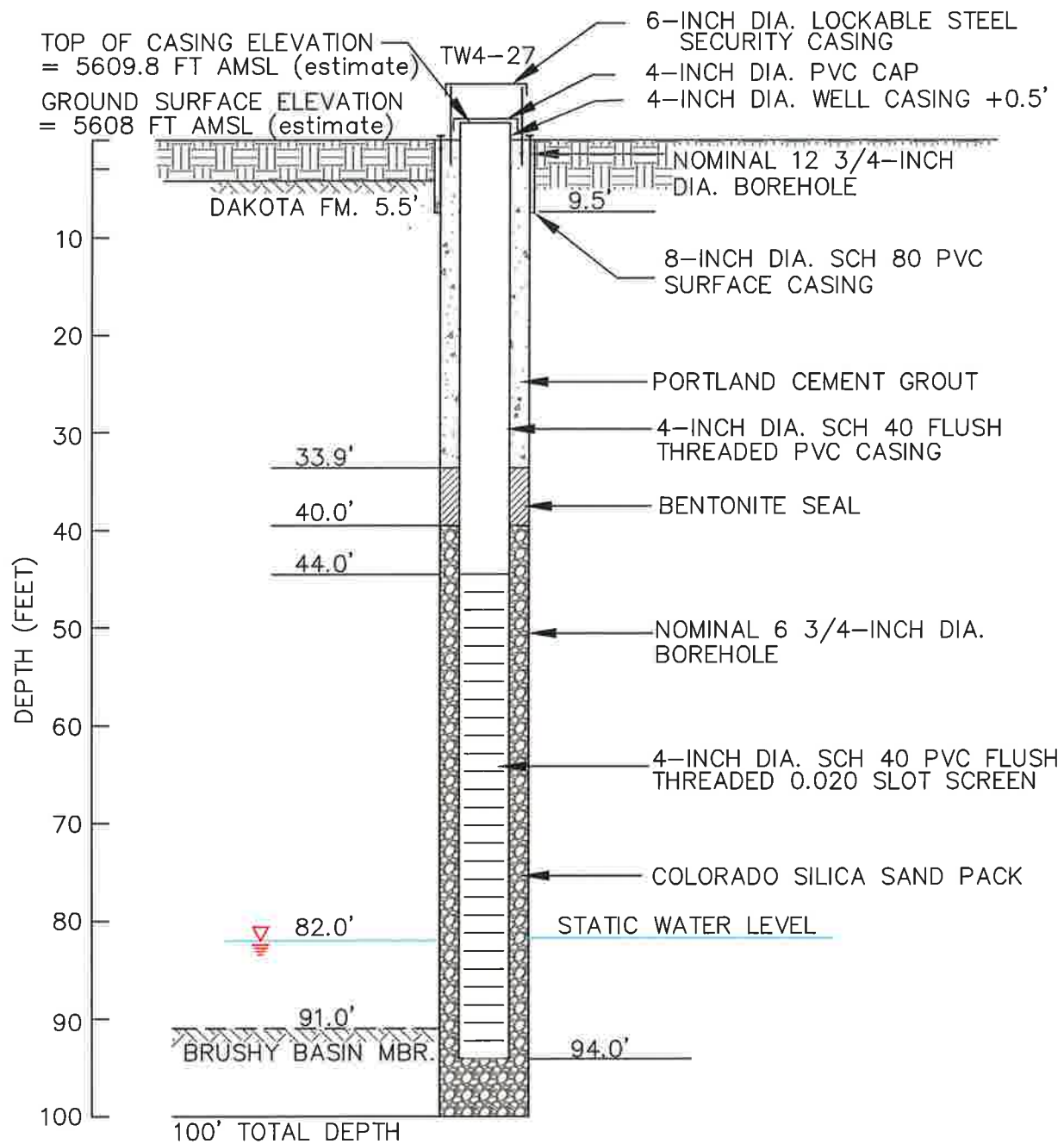


NOT TO SCALE

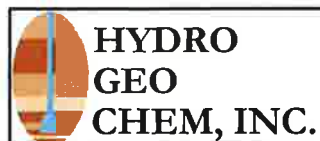


**TW4-26
AS-BUILT WELL CONSTRUCTION SCHEMATIC**

Approved	Date	Author	Date	File Name	Figure
SS	07/21/10	AMC	07/21/10	7180247A	2



NOT TO SCALE



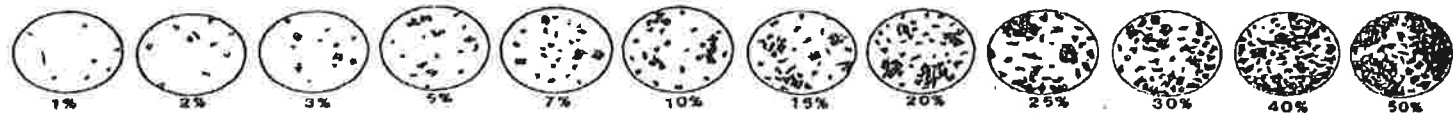
TW4-27 AS-BUILT WELL CONSTRUCTION SCHEMATIC			
Approved SJS	Date 10/25/11	Reference K:\7180272A Well Construction Diagram	Figure 2

Date 10-18-11 Geologist L. Casebolt Drilling Co. Bayles Exploration Inc Hole No. TW4-27
 Property White Mesa Mill Project chloroform investigation Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

PAGE 1 OF 1
 T.D. PROBE 100.0
 T.D. DRILL 100.0
 FLUID LEVEL _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	SANDIA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR OF WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMOUNT	HABIT	PYRITE	ALTER.	METALLIC	NON-METALLIC	REACT-10% HCL	AMOUNT	TYPE	CARBON	REMARKS
0																							
2.5						CL w/sand	rd bn	slt	vs	m	a							S					Surface soil CL (Lean clay) sand
5.0						CL w/sand	lt pk bn	slt	vs	m	a							S					Mancos Sh fm @ 6.0' CL
7.5						slty sh	lt gy bn											VS					
10.0						slty sh	lt gy bn											VS					
12.5						Snd sh	gy bn	vs	f	m	a							VS					
15.0						slty ss	gy bn	vs	f	m	a							S					
17.5						Sndy sh-qtz	gy bn	f	m	a								W					Dakota Ct. @ 17.0'
20.0						qtz ss	lt tn	m	w	r								N					
22.5						qtz ss	lt tn	m	w	r		lim						N					
25.0						qtz ss	lt gy tn	m	w	r		hem						N					tr hem. as cement
27.5						qtz ss, sh	lt gy tn	m	cr	m	r							N					
30.0						qtz ss	lt tn	m	w	r								N					
32.5						qtz ss	lt tn	m	w	r								N					
35.0						qtz ss	tn	f	m	m	r							N					moisture noted @ 35.0 ft.
37.5						qtz ss, sh	tn-gy-pk	f	cr	m	r							N					some bright pink red clay min as cement
40.0						qtz ss	vlt gy	f	m	w	r							N					
42.5						qtz ss, sh	vlt gy	m	cr	m	r							N					
45.0						qtz ss	tn	m	cr	m	r							N					
47.5						qtz ss	tn	m	w	r								N					
50.0						qtz ss	tn	m	cr	m	r		lim					N					
52.5						qtz ss	Hortn	m	w	r								N					
55.0						qtz ss	lt gy bn	m	cr	m	r							N					some light colored chert frags and grains
57.5						qtz ss	lt gy bn	m	cr	m	r							N					abund. light colored chert frags.
60.0						qtz ss	tn	m	w	r								N					
62.5						qtz ss	tn	f	m	m	r							N					
65.0						qtz ss	tn	f	m	m	r							N					
67.5						qtz ss	tn	f	m	m	r							N					light and dark chert frags.
70.0						qtz ss	tn	m	w	r								N					sparse dk gray chert frags.
72.5						qtz ss	or tn	m	m	r								N					some multi colored chert frag.
75.0						qtz ss, cgl	tn-gy bn	m	cr	m	r							N					abund. chert frags and pebbles. moisture noted
77.5						qtz ss	tn	m	cr	m	r							N					
80.0						qtz ss	tn	f	w	r								N					
82.5						qtz ss	tn	f	w	r								N					
85.0						qtz ss	yw tn	m	cr	m	r							N					abund chert frags.
87.5						qtz ss	yw tn	m	cr	m	r							N					
90.0						qtz ss	yw tn	m	cr	m	r							S					some chert pebbles
92.5						qtz ss, cgl, sh	or tn-bl gn	m	cr	m	r							vw					Brushy Basin Ct @ 91.0 ft. sparse sulfides
95.0						sndy sh	bl gn	m	m	r		LT						N					sparse chert pbb.
97.5						sndy sh	bl gn	m	m	r								N					
100.0						sh	lt bl gn-vlt bn											N					T.P. no free water observed
102.5																							
105.0																							
107.5																							
110.0																							
112.5																							
115.0																							
117.5																							
120.0																							
122.5																							
125.0																							

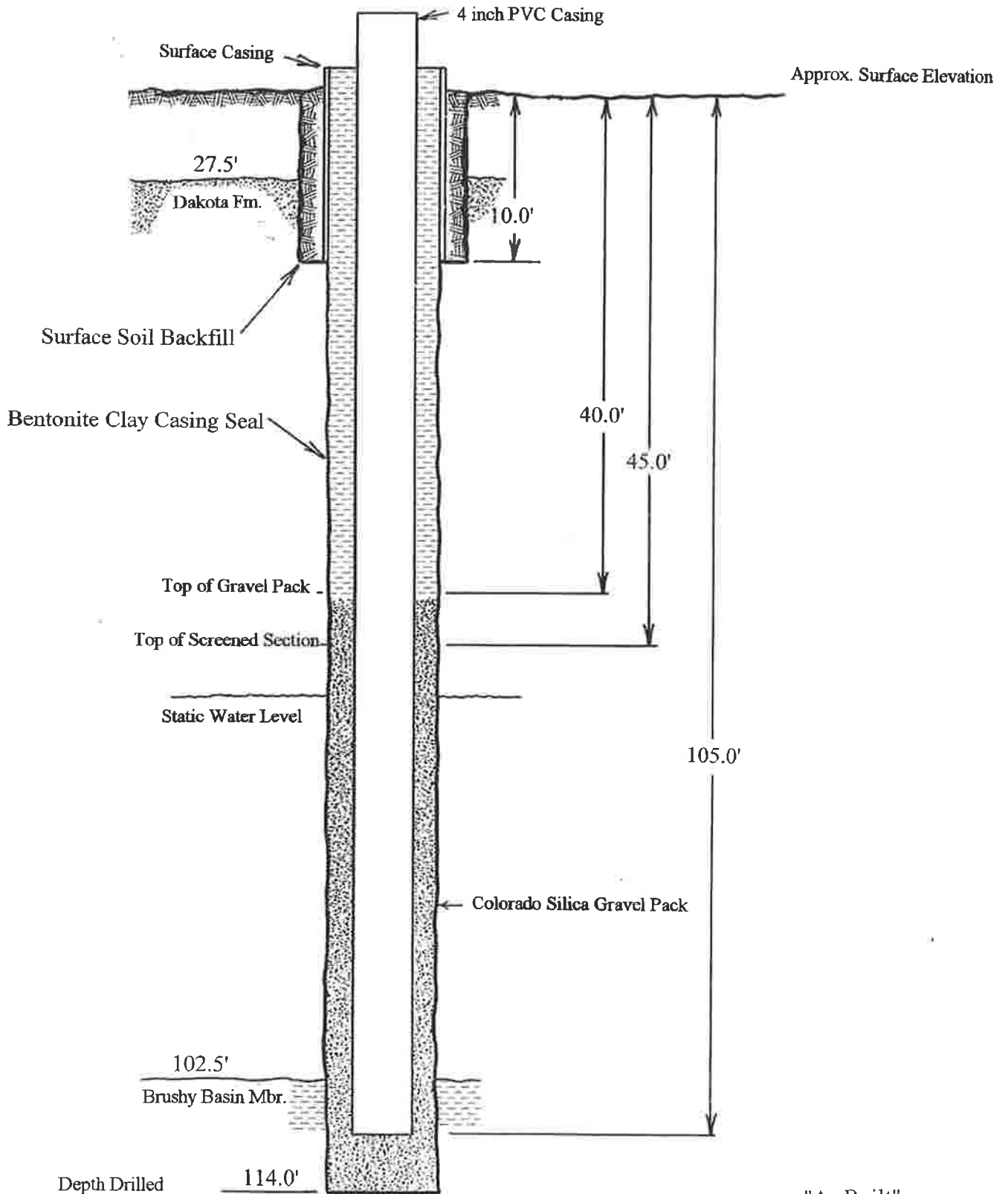
PERCENTAGE COMPOSITION IMAGE



Well No.
TW4-28

Energy Fuels Resources (USA) Inc.

White Mesa Mill



"As Built"

Well Construction Schematic

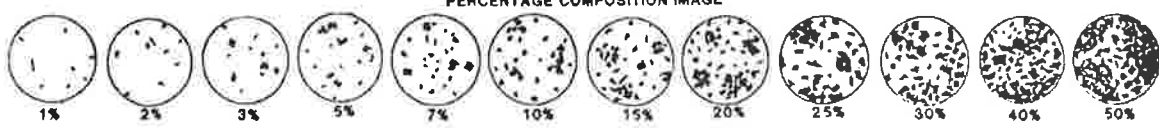
Not to Scale

Date 3-4-2013 Geologist L. Casbolt Drilling Co. Bowler Exploration Hole No. TW4-78
 Property White Mesa Mill Project White Study Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location White Mesa mill Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BIOMINERALIZATION	LITHOLOGY	COLOR	WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMOUNT	HABIT	ALTER	PYRITE	METALLIC	NON-METALLIC	REACT. TO 10% HCL	AMOUNT	TYPE	REMARKS
2.5					Clayw sand	rd bn	slt. w	m d									S					Surface Soil
5.0					Clayw sand	rd bn-lt rd bn	slt. w	m d									S					Surface Soil
7.5					Clayw sand	lt rd bn	slt. w	m d									VS					Surface Soil
10.0					Clayw sand	lt rd bn	slt. w	m d									VS					Surface Soil
12.5					Sh	pk-lt yw bn											VS					Monard Sh. Ct. @ 11.0'
15.0					Sh	yw bn											S					
17.5					Sndy sh	yw bn	f-m	m r									N					
20.0					Sndy sh	yw bn	f-m	m r									W					
22.5					Sndy sh	yw bn	f-m	m r									VI					
25.0					Sndy sh	yw bn	f-m	m r									N					
27.5					Sndy sh	yw bn	f-m	m r									N					Dakota sm. sh. @ 27.5'
30.0					qtz ss	lt bn	m-cr	m r									N					
32.5					qtz ss	lt bn	m	w d									N					
35.0					qtz ss	lt bn	m	w d									N					
37.5					qtz ss	lt bn	m	w d									W					
40.0					Sh	brk											N	Tr				
42.5					Sh	vd kgly											N					massive first noted @ 41.0'
45.0					Sndy sh	lt gy	f-m	m d									S					
47.5					Sh-sndy sh	lt gy-dk gy	f-m	m r									N					near 110 impaction @ 45.0'
50.0					qtz ss	dk gy	f-m	m r									N					
52.5					qtz ss	dk gy	f-m	m r									N					
55.0					Sndy sh	vd kb	vf	m p d									N					
57.5					qtz ss	dk gy	f-m	m d									N					
60.0					Sh-sndy sh	gy-blk	f-m	m d									N	10%				intergranular along fmg; abundant
62.5					Sh-sndy sh	dk gy	m	vd d A									N	10%				Some along veins and fmg.
65.0					Clayw ss	dk gy-vd kgly	m	vd d A									N	10%				
67.5					Clayw ss	dk gy	m	vd p A									N	10%				abundant clay chert pebbles and fmg.
70.0					Clayw ss	vd kgly	m	vd d A									N	10%				" " " " " " " "
72.5					Clayw ss	vd kgly	m	vd p A									N					" " " " " " " "
75.0					Clayw ss	vd kgly	cr	vd p A									N					
77.5					Clayw ss	vd kgly	cr	vd p A									N					
80.0					Clayw ss	vd kgly	cr	vd p A									N					
82.5					Clayw ss	vd kgly	cr	vd p A									N					
85.0					Clayw ss	vd kgly	cr	vd p A									N					
87.5					Sh	lt bn											N					
90.0					Sh	lt bn											N					
92.5					Sh	lt bn											N					
95.0					Sh	lt bn											N					
97.5					Sh	lt bn											N					
100.0					Sh	lt bn											N					
102.5					Sh	lt bn											N					
105.0					Sh	lt bn											N					
107.5					Sh	lt bn											N					
110.0					Sh	lt bn											N					
112.5					Sh	lt bn											N					
115.0					Sh	lt bn											N					
117.5					Sh	lt bn											N					
120.0					Sh	lt bn											N					
122.5					Sh	lt bn											N					
125.0					Sh	lt bn											N					
127.5					Sh	lt bn											N					
130.0					Sh	lt bn											N					

PAGE 1 OF 1
 T.D. PROBE 114.0
 T.D. DRILL 112.5
 FLUID LEVEL _____

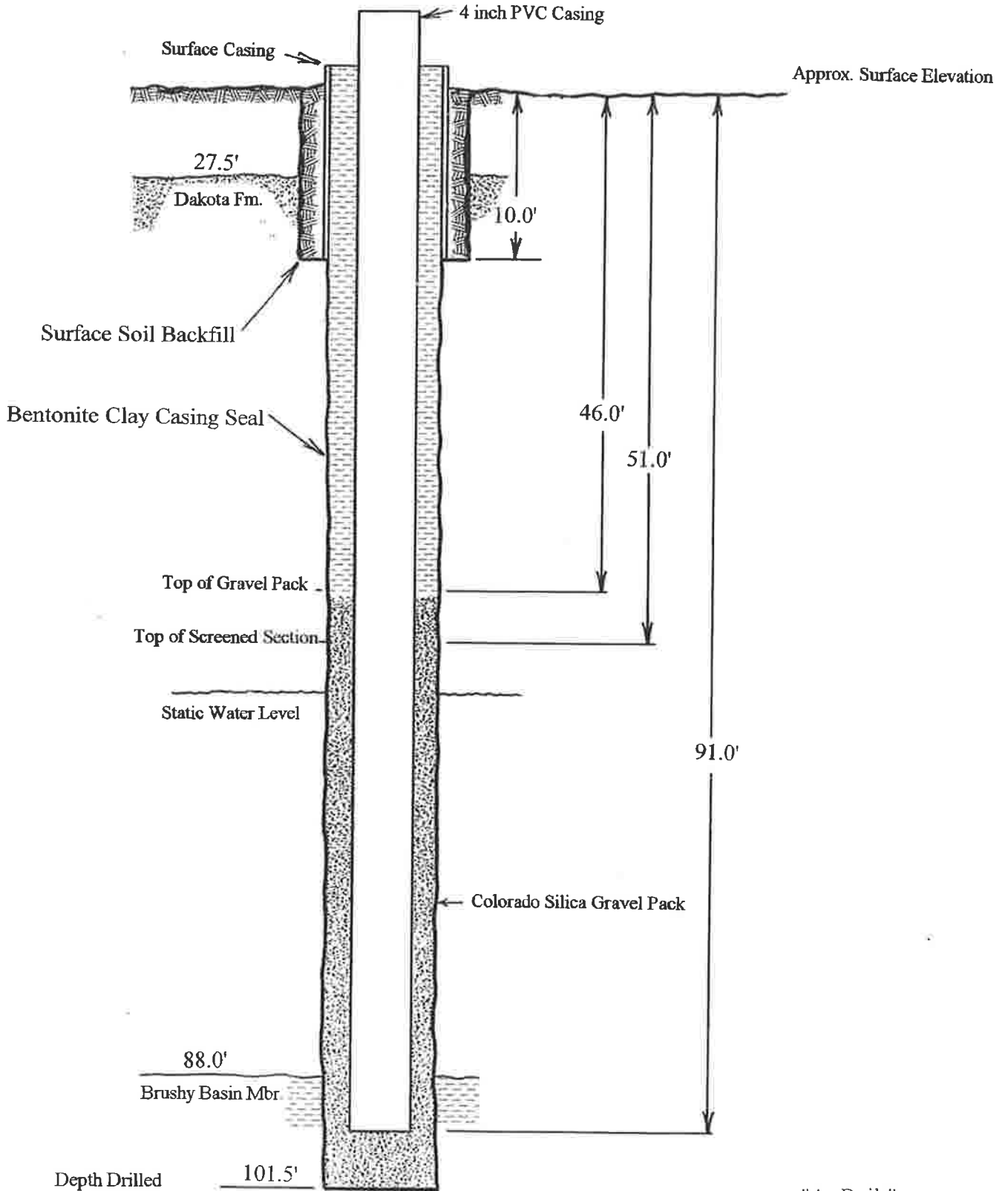
PERCENTAGE COMPOSITION IMAGE



Well No.
TW4-29

Energy Fuels Resources (USA) Inc.

White Mesa Mill



"As Built"

Well Construction Schematic

Not to Scale

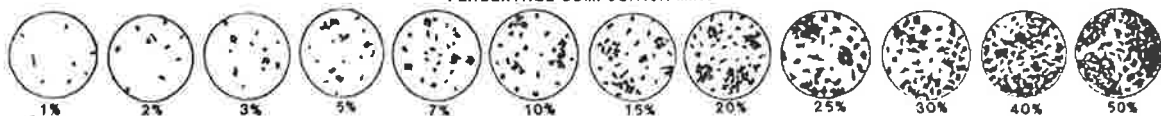
Date 3-4-13 Geologist L. CASEBOLT Drilling Co. Payles Exploration, Inc. Hole No. JW4-29
 Property White Mesa M.H. Project Nitrate Study Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County Sonoran State Utah Location _____ Elev. ≈ 5605

PAGE 1 OF 1
 T.D. PROBE 101.5'
 T.D. DRILL 100.0'
 FLUID LEVEL _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	BARREN ANOMALY	BRECCIA TYPE	LITHOLOGY	COLOR OF WE SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENT MATRIX	IRON OXIDE AMOUNT	HABIT	PYRITE		NON-METALLIC REACT. TO HCL	AMOUNT	TYPE	REMARKS
														ALTER.	METALLIC				
2.5						clay/silt	rdbn												Surface Soil
5.0						clay/silt	rdbn-fsptn												Surface Soil
7.5						clay/silt	fsptn												Surface Soil
10.0						sn	clay												Mudstone in-dip @ 75°
12.5						sn	claybn												
15.0						sn/silt ss	claybn	f-cr	p	A									
17.5						qtz ss/silt	claybn	f-m	m	Δ									
20.0						qtz ss/silt	claybn	f-m	m	Δ									
22.5						qtz ss/silt	claybn	f-m	m	Δ									
25.0						sn/silt	claybn	f-w	Δ										
27.5						sn/silt	claybn	f-m	Δ										
30.0						sn/silt	claybn	f-m	Δ										
32.5						sn/silt	claybn	f-cr	p	A									
35.0						sh	liq												Upper Danok in-dip @ 275°
37.5						qtz ss	claybn-rdclay	f-m	p	Δ									
40.0						qtz ss	claybn	m-cr	m	A									
42.5						qtz ss	claybn	m-w	r										
45.0						qtz ss	claybn	m-w	r										
47.5						qtz ss	claybn	m-w	r										Moisture not needed @ 47.5'
50.0						qtz ss	claybn	m-w	r										
52.5						qtz ss	claybn	m-w	r										
55.0						qtz ss	claybn	m-w	r										some light-colored chert frags.
57.5						qtz ss	claybn	f-m	m	Δ									
60.0						qtz ss/clay	claybn-w	m-w	p	A									abundant chert pebbles and frags.
62.5						cal/qtz ss	claybn	m-w	p	A									
65.0						cal/qtz ss	claybn	m-w	p	A									
67.5						cal/qtz ss	claybn	m-w	p	A									
70.0						cal/qtz ss	claybn	m-w	p	A									
72.5						cal/qtz ss	claybn	m-w	p	A									
75.0						cal/qtz ss	claybn	m-w	p	A									
77.5						cal/qtz ss	claybn	m-w	p	A									
80.0						qtz ss	claybn	m-w	p	A									
82.5						qtz ss	claybn	m-w	p	A									Below 410 injection
85.0						cal/qtz ss	claybn	m-w	p	A									Immobile after prod. test, some pyrite visible in shale frags.
87.5						cal/qtz ss	claybn	m-w	p	A									
90.0						sh/qtz ss/clay	claybn	m-w	p	A									Benning Basin at 4100 ft.
92.5						sn/silt	claybn	f-m	m	Δ									Some red chert pebbles
95.0						sn/silt	claybn	f-m	m	Δ									Some red chert pebbles
97.5						sn/silt	claybn	f-m	m	Δ									
100.0						sn/silt	claybn	f-m	m	Δ									T.D. @ 101.5' small (<1mm) red chert pebbles and qtz grains in matrix of clay sn.
102.5																			

General Note: The fractured and fragmented condition of the chert and quartz pebbles may have resulted from the crushing action of carbide bits of the tri-cone roller bit used to drill these wells.

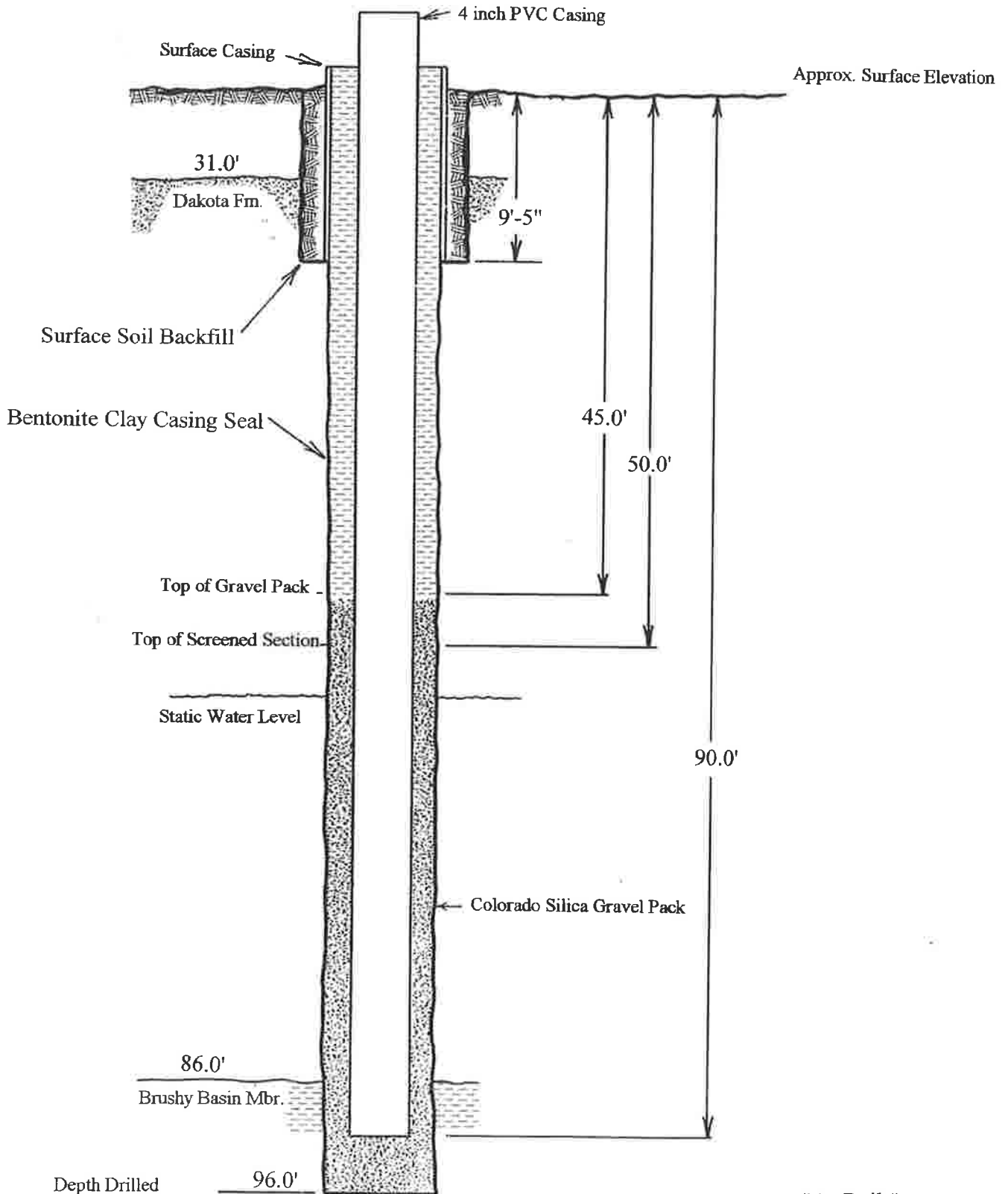
PERCENTAGE COMPOSITION IMAGE



Well No.
TW4-30

Energy Fuels Resources (USA) Inc.

White Mesa Mill



"As Built"

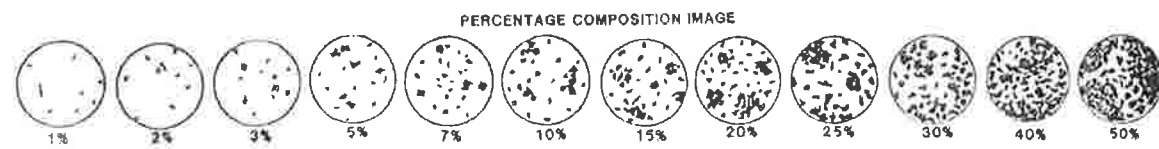
Well Construction Schematic

Not to Scale

Date 3-5-13 Geologist L. Casper Drilling Co. Bayle Exploration Inc. Hole No. TW4-30
 Property White Mesa Hill Project Nitrate Study Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

DEPTH	SAMPLE TAKEN	GRAPHIC LOG	ALTERATION	GAMMA ANOMALY	BRECCIA PIPE	LITHOLOGY	COLOR	WET SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	AMBIENT	HABIT	PYRITE		NON-METALLIC	REACT. TO HCL	AMBIENT	TYPE	CARBON	REMARKS
																ALTER	METALLIC						
0																							
25						cl w/ sand	rdbn	sit	f	m	a						W						Surface soil
50						cl w/ sand	rdbn-lt m	sit	vf	m	a						W						Surface soil
75						silty ss	rdbn-lt wbn	sit	vf	m	a						VS						Mucus on face @ 5.0'
100						sn d/s	lt wbn	sit	vf	m	a						VS						
125						sn d/s	lt wbn	f	m	r							VS						abund. selenite (eggs etc.)
150						sn d/s	lt wbn	f	m	r							N						some selenite etc.
175						qtz ss w/ sn	lt wbn	f	m	r							N						
200						qtz ss w/ sn	lt wbn	f	m	r							W						
225						qtz ss w/ sn	lt wbn	f	m	r							W						
250						sn	lt wbn-gt										W						
275						sn d/s	lt wbn	f	m	r			tr				W						
300						sn d/s	lt wbn	f	m	a							N						
325						qtz ss/sh	lt artn	f	m	a							N						Upper boundary @ 312'
350						qtz ss	lt artn	f	m	r							N						
375						qtz ss	gt-artn	f	m	r		L					N						
400						ltz ss	tn										N						massive, 1st noted @ 375'
425						qtz ss	lt artn	m	cr	p	a						VS						
450						qtz ss	tn										W						Peas @ 4.0' noted @ 450'
475						qtz ss	lt artn	m	cr	p	a						N						
500						qtz ss/sh	lt artn-gt	m	cr	p	a						N						
525						qtz ss	lt artn-gt	f	m	a							N						
550						qtz ss/cgl	lt artn-gt	m	cr	p	a						N						abund carbon as plant frags / chert frags
575						qtz ss/cgl	lt artn-gt	m	cr	p	a						N						abund chert / qtz pebble frags.
600						qtz ss/cgl	lt artn-gt	m	cr	p	a						N						" " " " "
625						cgl / qtz ss	gt-artn	cr	pe	p	a						N						approx 80% chert frags.
650						qtz ss / cgl	tn										W						
675						qtz ss / cgl	tn										W						abund chert pebble frags
700						lt artn-gt	tn-gt	m	cr	p	a						N						
725						lt artn-gt	tn-gt	m	cr	p	a						N						abund multi-colored chert frags.
750						lt artn-gt	tn-gt	cr	pe	p	a						N						" " " " "
775						cgl / qtz ss	tn-gt	m	cr	p	a						N						
800						cgl / qtz ss	tn-gt	cr	pe	p	a						N						mostly chert pebbles and frags.
825						qtz ss / cgl	tn-gt	f	m	p	a						N						
850						qtz ss / cgl	tn										N						
875						qtz ss / cgl	lt artn-gt	m	cr	p	a						N						Brachiopod @ 86.0'
900						qtz ss / cgl	blgn						tr				N						tail tail red chert grains
925						sn / qtz ss	blgn						tr				N						
950						sn / qtz ss	blgn-lt artn	f	m	a			tr				N						T.D. @ 46.0'
975																							
1000																							
1025																							
1050																							
1075																							
1100																							
1125																							
1150																							
1175																							
1200																							
1225																							
1250																							

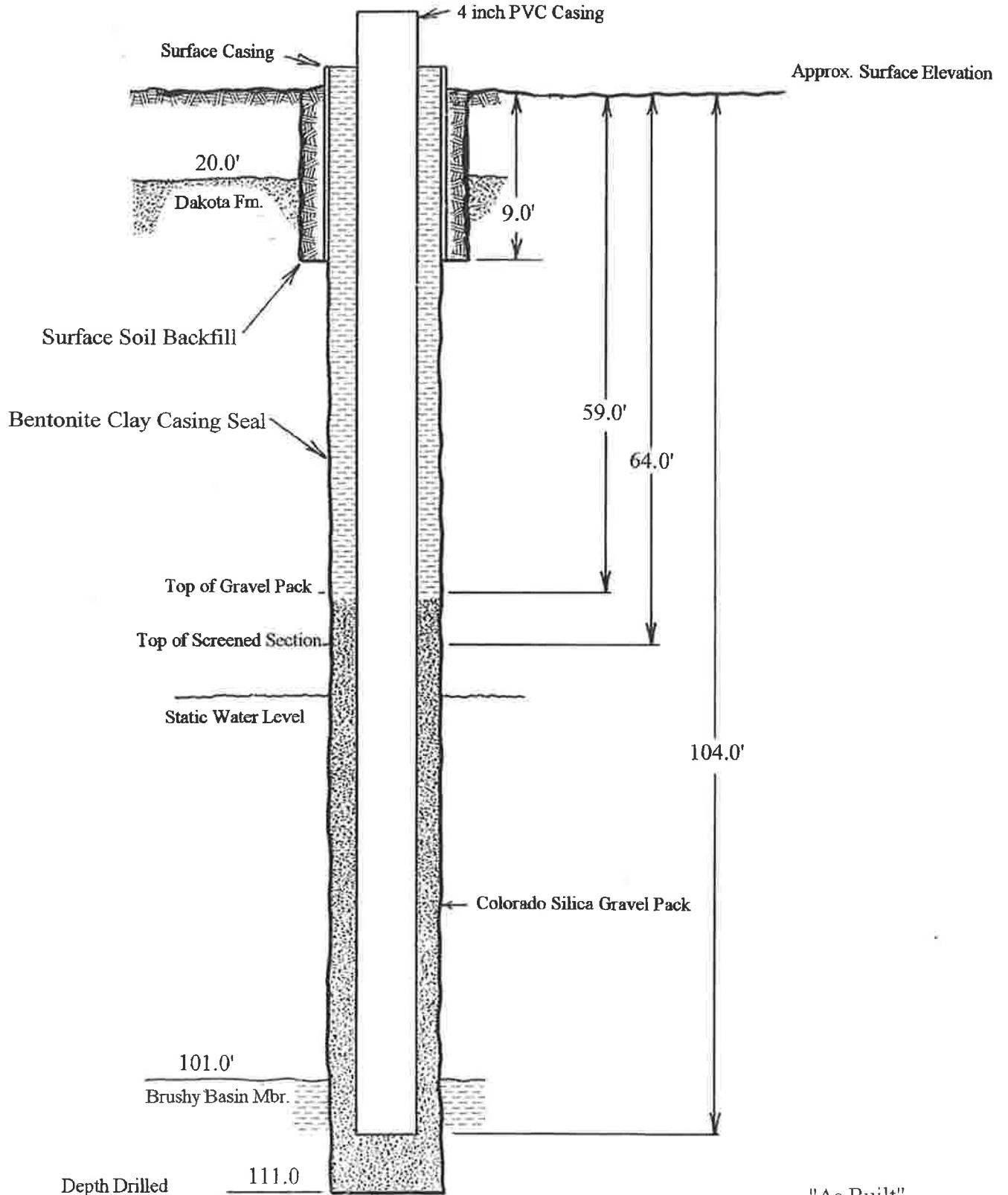
PAGE 1 OF 1
 T.O. PROBE 96.0'
 T.O. DRILL 95.0'
 FLUID LEVEL _____



Well No.
TW4-31

Energy Fuels Resources (USA) Inc.

White Mesa Mill



"As Built"

Well Construction Schematic

Not to Scale

Date 3-5-13 Geologist L. Co. 1030 Drilling Co. Boyle's Environmental Inc Hole No. TW4-31
 Property Wh. 2 Mass Mill Project Nitrate Study Unit No. _____ Sec. _____ Twp. _____ Rge. _____
 County San Juan State Utah Location _____ Elev. _____

PAGE 1 OF 1
 T.O. PROBE 111.0
 T.O. DRILL 110.0
 FLUID LEVEL _____

DEPTH	SAMPLE TAKEN	ALTERATION	LITHOLOGY	COLOR	WE SAMPLE	GRAIN SIZE	SORTING	ANGULARITY	CEMENTATION	IRON OXIDE	HABIT	PYRITE		NON-FERROUS	REACT. IONIC	AMOUNT	TYPE	REMARKS
												METALLIC	ALTER.					
0			CL w/ sand	rd bn	sif	m d							VS					Surface Soil CL (lean clay w/ sand)
25			CL w/ sand	vltn-wh	sif	m d							VS					Surface Soil CL (lean clay w/ sand)
50			Silt ss	lt bn	sif	m d							VS					Managers Sockets 5.0'
75			Sand sh	lt bn	f-m	m d							S					
100			Sand sh	lt bn	vf	m d							VS					
125			qtz ss w/ sand	lt bn	f-m	m d							S					
150			qtz ss w/ sand	lt bn	f-m	m d							N					
175			qtz ss w/ sand	lt bn	f-m	m d							N					
200			qtz ss	lt bn	f-w	r							W					Upper Dakota (c.a. 700')
225			lt bn	lt bn	f-w	r							N					
250			lt bn	lt bn	f-m	r							S					
275			lt bn	lt bn	f-m	r							S					
300			sh	lt bn	f-m	r							N	CR I				some muscovite sheets as accessory minerals
325			sh	lt bn	f-m	r							N	CR I				spars carbon material
350			sh-qtz ss	or bn-gy	f-m	r		L					N	CR I				abund. limonite as cementation agent.
375			qtz ss-sh	lt bn-gy	f-m	r							N					
400			qtz ss	lt bn	f-m	r							N					
425			qtz ss	lt bn	m-cr	r							N					
450			qtz ss	lt bn	m-cr	r							N					
475			qtz ss	lt bn	f-m	r							N					
500			qtz ss-sh	lt bn-dk gy	m-cr	r							N	CR I				some carbon fragments
525			qtz ss	bn	m-w	r							N	CR I				some carbonaceous material, sparse chert frags
550			qtz ss	bn	m-w	r							N					some chert frags
575			qtz ss	bn	m-w	r							N					
600			qtz ss	bn	m-cr	r							N					Moisture in area @ 600'
625			qtz ss	lt bn	f-m	r							N					
650			qtz ss	lt bn	f-m	r							N					
675			qtz ss	lt bn	f-m	r							N					abund. light colored chert frags
700			qtz ss	lt bn	m-cr	r							N					abund. multi colored chert frags.
725			qtz ss	lt bn	m-cr	r							N					
750			qtz ss/cgl	lt bn-dk gy	m-cr	r							N					pebble cal w/ abundant chert pebbles and frags.
775			qtz ss/cgl	lt bn-dk gy	m-cr	r							N					" " " " " " " "
800			qtz ss	lt bn	m-cr	r							N					
825			qtz ss	lt bn	m-cr	r							N					
850			qtz ss	lt bn	m-cr	r							N					abund. multi colored chert frags
875			qtz ss	lt bn	m-w	r							N					
900			qtz ss/cgl	lt bn	m-cr	r							N					Some chert pebbles and frags.
925			qtz ss/cgl	lt bn	m-cr	r							N					abund chert and qtz pebbles and frags.
950			qtz ss	lt bn	m-cr	r							N					" " " " " " " "
975			qtz ss	lt bn	m-w	r							N					clean sand
1000			qtz ss/cgl	lt bn	m-cr	r							N					clean sand (microscopic view)
1025			qtz ss-sh	gy-blgn									N					Abund. chert and qtz pebbles and frags
1050			sh	gy-blgn									N					shale frag. mottled gray w/ gy blgn, some chert
1075			sh/cgl	gy-blgn									N					large chert frags.
1100			sh	pebn-blgn									N					
1125													N					T.D. @ 111.0

PERCENTAGE COMPOSITION IMAGE

