WESTBAY MP SYSTEM
CASING INSTALLATION LOG

Project: NASA-WSTF Hole No.: BLM-30 Location: Off-Site

Hole Depth: 670', caved to 620' MP Depth: 605' Hole Diam.: 4 1/2"

Date Installed: 05-15-95 Installed By: ATSC Elev.(BC): 4595.79'

Depth (ft)	Geologic Description	MP Casing Log	Serial No.	Final Packer P/V	Comments	Joint Tests J	Joint Tests P
0	(ground level)	66	94-354				√
					2 feet of stick-up at top of well	√	
	0'-382' ALLUVIUM	65	94-374				
10	(Santa Fe Group)		94-354				√
					Each couple tested to 100 psi for 30 seconds	√	
		64	94-374				
20			94-354				√
						√	
		63	94-374				
					All magnetic collars attached 0.4' above MP couple		
30			94-354				√
						√	
		62	94-374				
40			94-354		Filter fabric around MP couples where indicated		√
						√	
		61	94-374				
50			94-354				√
						√	
		60	94-374				
60			94-354				√
						√	
		59	94-374				
70			94-354				√
						√	
		58	94-374				
80			94-354				√
						√	
		57	94-374				
90			94-354				√
						√	
		56	94-374				
100			94-354				√

LEGEND

Regular MP Casing | MP Packer | Measurement Port Coupling | Pumping Port Coupling | Magnetic Collar

WESTBAY MP SYSTEM
CASING INSTALLATION LOG
(Cont'd)

Hole No.: BLM-30

Depth (ft)	Geologic Description	MP Casing Log	Serial No.	Final Packer P/V	Comments	Joint Tests J	Joint Tests P
100	ALLUVIUM (cont'd)		94-354				√
		55	94-374			√	
110			94-354				√
		54	94-374			√	
120			94-354				√
		53	94-374			√	
130			94-354				√
		52	94-374			√	
140			94-354				√
		51	94-374			√	
150			94-354				√
		50	94-374			√	
160			94-354				√
		49	94-374			√	
170			94-354				√
		48	94-374			√	
180			94-354				√
		47	94-374			√	
190			94-354				√
		46	94-374			√	
200			94-354				√

LEGEND

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WESTBAY MP SYSTEM
CASING INSTALLATION LOG
(Cont'd)

Hole No.: BLM-30

Depth (ft)	Geologic Description	MP Casing Log	Serial No.	Final Packer P/V	Comments	Joint Tests J	Joint Tests P
200			94-354				√
	ANDESITE (cont'd)	45	94-374			√	
210			94-354				√
		44	94-374			√	
220			94-354				√
		43	94-374			√	
230			94-354				√
		42	94-374			√	
240			94-354				√
		41	94-374			√	
250			94-354				√
		40	94-374			√	
260			94-354				√
		39	94-374			√	
270			94-354				√
		38	94-374			√	
280			94-354				√
		37	94-374			√	
290			94-354				√
		36	94-374			√	
300			94-354				√

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CASING INSTALLATION LOG
(Cont'd)

Hole No.: BLM-30

Depth (ft)	Geologic Description	MP Casing Log	Serial No.	Final Packer P/V	Comments	Joint Tests J	Joint Tests P
300	ALLUVIUM (cont'd)		94-354				√
		35	94-374			√	
310			94-354				√
		34	94-374			√	
320			94-354				√
		33	94-374			√	
330			94-354				√
		32	94-374			√	
340			94-354				√
		31	94-374			√	
350			94-354				√
		30	94-374			√	
360			94-354				√
		29	94-374			√	
370			94-354				√
		28	94-374			√	
380	382'-455' Heavily Altered Rhyolitic Ash-Flow Tuff		94-354				√
		27	94-374			√	
390	390' - bottom of 5" steel surface casing		94-354				√
		26	94-374			√	
400			94-354				√

LEGEND

Regular MP Casing | MP Packer | Measurement Port Coupling | Pumping Port Coupling | Magnetic Collar

WESTBAY MP SYSTEM
CASING INSTALLATION LOG
(Cont'd)

Hole No.: BLM-30

Depth (ft)	Geologic Description	MP Casing Log	Serial No.	Final Packer P/V	Comments	Joint Tests J	Joint Tests P
400			94-354	▲			√
	(cont'd)					√	
		25	94-374				
410			94-354				√
						√	
		24	94-374				
420			94-354				√
						√	
		23	94-374				
430			94-354				√
						√	
		22	94-374				
440			94-354				√
						√	
		21	94-374	Zone 5			
450			94-354				√
						√	
	455'-500': Less altered Rhyolite Ash-Flow Tuff	20	94-374				
460		●	9623				√
		19				√	
			94-354	▼			√
		18	8615	145psi/7liters		√	
470			94-354	▲			√
		◄ 17 ►				√	
		●	9631	Zone 4—filter fabric			√
		16				√	
480		O	4207	▼			√
		15	8616	130psi/6.5liters		√	
			94-354	▲			√
						√	
490		14	94-374				
			94-354	Zone 3			√
						√	
500		13	94-374				

LEGEND

Regular MP Casing | MP Packer | Measurement Port Coupling | Pumping Port Coupling | Magnetic Collar

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(Cont'd)

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Depth (ft)	Geologic Description	MP Casing Log	Serial No.	Final Packer P/V	Comments	Joint Tests J	Joint Tests P
500		13	94-374	▲		√	√
	500'-540': Altered Vitrophere		94-354				
510	▼ Static Water ▼ Level	≈≈ 12 ≈≈	94-374			√	√
			94-354				
520		11	94-374			√	√
			94-354				
530		10	94-374			√	√
		●	9771				
540	540'-620': Dense Latite/Trachyte Ash Flow	9	94-374			√	√
			94-354	Zone 3			
550		8	94-374			√	√
			94-354				
560		7	94-374			√	√
			94-354				
570		6	94-374			√	√
			94-354	▼			
		5	8617	214psi/6.75liters			
580			94-354	▲		√	√
		◄ 4 ►	9772		filter fabric	√	√
		● 3		Zone 2		√	
590		O	4197	▼		√	√
		2	8618	264psi/6liters		√	
		●	9653	▲			√
		1	94-374	Zone 1		√	
600							

LEGEND

- Regular MP Casing
- MP Packer
- ● Measurement Port Coupling
- O Pumping Port Coupling
- ◄ ► Magnetic Collar

WESTBAY MP SYSTEM
CASING INSTALLATION LOG
(Cont'd)

Hole No.: BLM-30

Depth (ft)	Geologic Description	MP Casing Log	Serial No.	Final Packer P/V	Comments	Joint Tests J	Joint Tests P
600	ASH-FLOW (cont'd)	1	endcap				
	605' = TD MP Casing						√
610							
620	Borehole collapsed to 620'						
630							
640							
650							
660							
670	670' = TD borehole						
680							
690							
700							

LEGEND

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