60001938

Mining District File Summary Sheet

DISTRICT	Rosebud
DIST_NO	4010
COUNTY If different from written on document	Pershing
TITLE If not obvious	Rosebud URBD 70308 Drill logs and assays; St Joe, 1982
AUTHOR	Bidle H, Demeter E
DATE OF DOC(S)	1982
MULTI_DIST Y / N? Additional Dist_Nos:	
QUAD_NAME	Sulphur 7½'
P_M_C_NAME (mine, claim & company names)	Rosebud Mine; St. Joe American Corp.; Rosebud Project
COMMODITY If not obvious	gold; silver
NOTES	Drill logs; geology; assays; geochemistry; Hole No. 1 - total depth 500'; Hole RDH-2 - total depth 480'; Hole No 3 - total depth 500'; Hole No 4 - total depth 340' 28p.

Keep docs at about 250 pages if no oversized maps attached
(for every 1 oversized page (>11x17) with text reduce
the amount of pages by ~25)

SS: DP 9/11/08
Initials Date

DB:
Initials Date

SCANNED:
Initials Date

Revised: 1/22/08

URBD 70308 DRILL
DRILL LOGS & ASSAYS, ST. JOE, 1982

60001938

4010

51-4

St Joe American Corp.
Southwest District

Project: ROSEBUD 749.08
Co, State: Pershing Co. NV.
Hole: #1 051

Started: 10·21·82
Completed: 10·28·82
Total Depth: 500'

Contractor: EKLUND
Drill Type: reverse circ.
Collar Elev.:

Bearing:
Angle: vertical
Scale: 1" = 10'

Page 1 of 8 60001938 4010
Logged by: H. Bidle
Coord. N. E.

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: G	H	J	total FeO	bulk silic	graphic alt.	calcite	calc.	MnO	fract.	frag. shape	qtz. vning	argillic	graphic min.	Volume % Sulfides	GEOLOGIC DESCRIPTION			Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
			90		10	-	-	35	9				20%	H	SA	55% (carb.)	L-			75% sil. carbonate, chalc. lg. chunks 5% orange, white tuff, sl. sil. 20% white qtz. chips	overburden	85% chips 15% powder	0-5	14001	.01	.73 20' of .5	30	16	2.7		intensity of yellow indicates	
5			90		9	1	-	35	9				15	H	SA→A	35%	-			40% sil. carbonate, beige, gry, chalcedonic 35% sil. bx, limey matrix, qtz. + ls clasts 25% white, pink qtz. chips		90% chips 10% powder	5-10	14002	.02	.42	20	6	2.4		intensity of silicification	
10			95		4 (P)	6	-	60	9				5	H	SA	20%	L-			35% sil. carb. 15% white + pink qtz. 5% ft. bx, sil. 90% FeO stn. (P) 30% gry, beige bx, sil. (as above) 20% white sil. tuff	altered zone chip size mked ↓ to bits hem. sandy clay coating chips	50% chips 50% powder red	10-15	14003	.01	.33	90	42	.44		intensity of red indicates FeOx intensity	
20			90		8 (F,P)	2 (F)	-	70	9				4	M	SA	15%	L			15% white, yellow qtz. chips 40% sil. carb., 80% G dissem. 20% sil. bx 25% white, sil. tuff, 10% is FeO stn.		50% chips 50% powder yellow / red	15-20	14004	.01	1.15	150	30	.78		hematite pyrite	
25			90		9 (P)	1 (F)	-	80	8				2	M	A→SA	5%	L-M			55% sil. carb., G dissem. 25% beige, gry chert chips 10% clear qtz. chips 5% white sil. tuff (?) 5% pink, white tuff, decomposed. ksp→kaol.		65% chips 35% powder yellow / brn.	20-25	14005	<	.70	60	16	.82			
30			95		9 (P)	1 (F)	-	80	6				tr.	M	SA	1%	-			70% sil. carb., G dissem., fine grn. 15% yellow/grn. sil. sls(?) 10% sil. bx, ls + cht clasts 4% dk. gry cht. chips 1% white sil. tuff		70% chips 30% powder dk yellow	25-30	14006	.01	1.59	125	18	1.7			
35			90		8 (F,P)	2 (F)	-	90	4		3%	M	tr.	M	SA	5 (carb)				80% sil. carb., G dissem, fine gr. 3% calcite chips 5% grn. sil. tuff 5% clear qtz. chips 7% lt. gry cht		60% chips 40% powder dk. yellow	30-35	14007	.01	1.43	135	20	3.2			
40			95		6 (P)	4 (F)	-	80	7		10%	M-H	-	H	SA	20				50% sil. bx, white + gry cht clasts in sil. matrix, qtz. vnlets cut thru clasts 3% clear, chalc. qtz. 30% sil/ls 10% calcite chips 7% gry/red chert	lg. chunks of sil. bx end 10·21·82	90% chips 10% powder dk yellow	35-40	14008	.01	1.41	110	22	>5			
45			90		8 (P)	2 (F)	-	75	4		1%	M	-	L	SR→SA	15 (carb)	mod			35% sil. bx, qtz. vnlets 2% gry/red chert 25% white tuff, 60% argill. alt, 40% sil. 3% lt. grn. tuff 1% calcite chips	begin 10·22·82 4% chalc, clear qtz 30% sil. carb	90% chips 10% powder dk. yellow	40-45	14009	.01	1.09	85	18	>5			
50			95		8 (P)	2 (F)	-	80	6		1%	M	-	M	SR→SA	10 (carb)	M			AS ABOVE		90% chips 10% powder brown	45-50	14010	.01	1.23	120	26	4.5			
55			80		8 (P)	2 (F,P)	-	35	4				10	M	SR	-	L			70% white, beige, pink sil. ls, subrd → subx 10% green/gry sls 20% sil. ls tr. ft. bx (100% H + G dissem.)	started foam	wet brown	50-55	14011	<	.54	90	18	1.0			
60			90		6 (F)	4 (F)	-	98	8				1	M	SR→SA	-	L			tr. clear, red/pink qtz. chips 65% sil. ls, FeO stn. lg. chunks 35% white sil. tuff tr. grn. tuff		dk. brn.	55-60	14012	<	.50	85	22	.94			
65			95		7 (F,P)	3 (F)	-	90	7	x			3	M-H	SA	1%	-			35% sil. conglomerate, 20% white sil. tuff 2% white qtz. chips 43% sil. ls, big chunks, fine → med. grn., G dissem.	tr. lt. grn. tuff, sil.	yellow / brn.	60-65	14013	<	.50	80	26	1.1			
70			90		9 (P)	1 (F)	-	90	7	x			25	L	SA→SR	-	L-M		tr.	20- sil. ls, orange, yellow, brn. 15- lt. grn. tuff, sil. 65- gry, white sil. ls, G dissem. tr. jasp./qtz, 20% pyr. dissem.	mked ↑ MnO stn. mked ↓ chip size	dk. yellow/ brn.	65-70	14014	.005	.36	120	26	2.5			

St Joe American Corp.
Southwest District

Project: ROSEBUD 749.08
Co, State: Pershing Co, NV
Hole: #1

Started: 10.21.82
Completed: 10.28.82
Total Depth: 500'

Contractor: EKLUND
Drill Type: reverse circ.
Collar Elev.:

Bearing:
Angle: vertical
Scale: 1" = 10'

Page 2 of 8
Logged by: H. BIDLE
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	G	H	T	Total FeO	Bulk silic	Graphic alt.	Calcite	Calc.	MnO	Fract.	Frag. shape	Qtz. burning			argillic	graphic min.	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	Au oz/t	Ag oz/t	As	Sb	Hg	Cu		
			70		9 (F)	1 (F)		15	9				35%	M-H	SA	5						90% white sil. ls (?) vuggy, min. cht clasts, heavy MnO stn., no FeO stn. 5% clear, pink qtz. xls 5% lt. grn. sil. tuff, FeO stn. dk. brn.	70-75	14015	<	.32	70	8	.18			
75			90		7 (P,F)	3 (F)		60	NA/NA/4/8				2	H	SA (tuff) SA (sil.ls) SR→R	5% vn 25% xls						15% clear, pink, white qtz. xls 30% sil. ls 5% white qtz. vn, min. MnO stn. 20% lt. grn./yellow tuff, n.w. 30% beige silty ls, fine grn., rd → subrd. dk. brn.	75-80	14016	.01	.47	75	16	2.6			
80			90		6	4		45	8/8/NA/NA				10	M-H	SA	20					10% in bx	15% sil. bx, alt. qtz. clasts, pyr., rough text, big chunks, sl. calc. 40% white sil. ls(?), heavy MnO stn. fr. sil. tuff bx, gry, smooth text. 20% pink, red, clear qtz. chips 25% white qtz vn. FAULT dk. brn.	80-85	14017	<	.16	70	12	1.4			
			80		10 (P,F)			20	0/8/7				15	M	SR SA	–						20% white tuff (?), soapy text, soft (alunite) 70% sil. ls, med. gry, white, MnO stn. 10% sil. ls, f.g., grnish gry, heavy FeO stn (F,P) dk. brn.	85-90	14018	<	.16	60	8	1.1			
90			90		10 (P,F)			5	8/0/NA				15	M	SA	10 (ls)						60% lt. gry sil. ls 30% white tuff (?), soapy text. (alunite) 10% clear & pink qtz. chips dk. brn.	90-95	14019	.005	.56	40	6	2.4			
95			85		10 (P)			7	8/0/NA			L	5	M	SA	3						dry again AS ABOVE 85% chips sl. calc. 15% powder	95-100	14020	.005	.36	30	8	2.3			
100			90		10 (P)			15	7/NA		10	H	25	L	SR-SA	–						65% dk gry, beige sil. ls, hi. calc. 10% calcite chips 25% lt. gry sil. ls (?) (as above) 70% chips 30% powder calcareous	100-105	14021	.01	.29	30	6	1.0			
105			90		10 (P,F)			55	8/7/0/NA		tr.	H	10	L	SR-SA	5						55% gry, white banded ls, f.grn., very calc, 60% is lim. 33% gry/grn. sil. tuff 7% white tuff(?), soapy text. (alunite) mked ↑ FeO stn. 5% gry, white, pink qtz. chips 85% chips 15% powder calc.	105-110	14022	.01	.29	255	14	2.4			
110			85		10 (P,F)			45	8/NA/NA/8		4	H	5	L	SA	6						30% grn./gry sil. tuff 6% gry, pink qtz. chips 4% calcite chips 60% sil. ls, limon, hi. calc. 60% chips 40% powder calc.	110-115	14023	.005	.22	130	16	.79	4		
115			85		10 (F)			30	7/6		tr.	L-	–	M	SA	1% tuff						60% grn. sil. tuff 40% gry, white ls, f.g., 50% is lim. tr. calcite chips 60% chips 40% powder calc.	115-120	14024	.01	<	120	14	.45			
120			90		10 (F)			40	7/5		3	M	1	M	SA	2						55% grn. sil. tuff, mod. FeO stn. 40% dk. brn. gry ls, hi. FeO stn. 3% calcite chips 2% qtz. chips 70% chips 30% powder calc.	120-125	14025	.005	.14	145	20	.52			
125			90		10 (F,P)			40	8/5/7		tr.	M	2	M	SA	–						tr. black calcite 10% ls bx, calc. sl. ↑ MnO stn. 45% green sil. tuff 1% clear calcite 44% sil. ls, lim. 70% chips 30% powder calc.	125-130	14026	.01	.15	140	30	1.0			
130			90		10 (F,P)			30	8/8/5		10	M-H	.5	L	SA	–						10% ls bx, clasts of grn. tuff (?) 50% sil. ls, brn., fine grn, lim. ↑ calcite 30% grn. sil. tuff 10% calcite chips 55% powder 45% chips	130-135	14027	.01	<	160	22	.18			
135			95		10 (F,P)			45	5/NA/8/2		15	M	5	L	SA	–						40% grn. sil. tuff wet sample, foam again 15% calcite 40% sil. ls, brn., lim dk. yellow/brn. 5% ls bx, with grn. tuff clasts bearings out (transmission) tr. dk brn. red qtz chips	135-140	14028	.01	.23	105	20	1.2			

St. Joe American Corp.
Southwest District

Project: ROSEBUD 749.08
Co, State: Pershing Co. NV.
Hole: #1

Started: 10.21.82
Completed: 10.28.82
Total Depth: 500'

Contractor: EKLUND
Drill Type: reverse circ.
Collar Elev.:

Bearing:
Angle: vertical
Scale: 1" = 10'

Page 3 of 8
Logged by: H. Bidle
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: G	H	J	Total FeO	bulk silic	graphic alt.	calcite	calc.	MnO	fract.	frag. shape	qtz. stg. vning			argillic	graphic min.	Volume % Sulfides	GEOLOGIC DESCRIPTION		Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
			90		10	-	-	40	8/1/6		5	L	-	L	SA	5%					1	60% sil. tuff, lt. grn, white 15% qtz. chips, clear, brn. 5% calcite chips 20% sil. ls, lim. begin 10.27.82 wet samples pyr. in qtz.	dk. yellow	140-145	14029	<	<	120	6	.49			
45			90		8	2	-	50	4/-/8/7		10	L-M	2	L	SA	5% tuff					2	15% brn/yellow f.g. ls, hi. calc. 20% qtz. chalc., clear, milky, red, brn. some banded 35% sil. tuff, grn. 10% calcite chips 20% sil. ls, lim. ↑ FeO	dk. yellow	145-150	14030	.01	.03	160	12	.35			
50			90		9	1	-	50	4/1/8/-/7		7	M	1	L-M	SA	4% tuff					2	AS ABOVE	dk. yellow	150-155	14031	.01	.01	150	8	.50			
			85		10	-	-	20	8/-/-/6		5	M	2	L	SA-SR	5 tuff					.5	75% lt. grn. sil. tuff 5% calcite 10% qtz. chips 15% lim. sil. ls	dk yellow	155-160	14032	.01	<	200	6	.29			
60			95		10	-	-	20	8/NA		2	L	7	L-M	SA-SR	7 tuff					1	85% lt. grn. sil. tuff several lg. chunks 10% qtz. chips, vning on tuff, clear, brn., pyr. tr. brn. f.g. ls 5% calcite	dk yellow	160-165	14033	.005	.22	125	10	.60			
65			95		8	2	-	40	8/5		2	L	5	L-M	SA-SR	5 tuff					.5	10% qtz. chips, clear, brn., banded 85% lt. grn. tuff, limon. 3% brn. sil. ls bx 2% calcite ↑ FeO	dk yellow	165-170	14034	.005	.28	120	14	.76			
170			90		10	-	-	15	-/8		-	L	-	L-M	SA	20					1	30% clear, brn. qtz. chips, several lg. pieces 70% grn/gry sil. tuff, ↓ FeO stn. tr. brn. ls ↓ FeO	"	170-175	14035	<	.04	65	6	.36			
75			70		10	-	-	30	-/8		-	L-	-	M	SA	60					1	60% clear, brn. qtz. 40% sil. tuff	"	175-180	14036	<	.24	70	8	.50			
180			65		9	1	-	25	5/8		-	-	2	M	SA	20					.5	70% med. gry tuff 10% grn. sil. tuff 5% white milky qtz. 15% brn. clear qtz.	dk. olive gry	180-185	14037	<	.32	85	4	.70			
185			65		7	3	-	50	5/4		-	-	5	L	SA	5					.5	40% gry tuff, variably sil. 10% f.g. bx, dk gry/white 15% brn. qtz. 15% qtz. clear, red, brn. banded	dk. brn.	185-190	14038	<	.14	150	12	.71			
190			95		10	-	-	30	7		-	-	5	L	SA	15					- &	65% lt. gry tuff 25% milky qtz. 10% gry/white ss, f.g.	"	190-195	14039	<	<	130	10	.73			
195			90		10	-	-	30	8		-	-	2	L	SA	10					-	AS ABOVE	"	195-200	14040	.005	<	155	12	1.00			
200			95		10	-	-	65	9/7		-	L-	5	L	SA	5					.5	30% ft. bx, tuff clasts, ls clasts 40% gry. tuff, mostly lim. 30% yellow milky qtz.	yellow brn.	200-205	14041	<	<	125	8	1.40			
205			95		9	1	-	65	9/7		-	-	2	M	SA	10			tr.		1	AS ABOVE tr. of argillized tuff several lg. chunks of sil. bx	" "	205-210	14042	<	<	85	4	.45			

St Joe American Corp.
Southwest District

Project: ROSEBUD
Co, State: Pershing Co, NV
Hole: 1

Started: 10-21-82
Completed: 10-28-82
Total Depth: 500'

Contractor: EKLUND
Drill Type: reverse air
Collar Elev.:

Bearing:
Angle: vertical
Scale:

Page 4 of 8
Logged by: H. Bidle
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: G	H	I	total FeO	bulk silic	graphic alt.	calcite	calc.	MnO	fract.	frag. shape	qtz. xls vnlg	argillic	graphic min	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu
			30		6	4	-	40	6		-		-	L	SA-SR	1	H	/		40% lt. grn/gry tuff 10% milky yellow qtz. CLAY ZONE 50% clay — med. yellow	210-215	14043	<	<	60	6	.32	
5			40		9	1	-	5	8		-		-	"	SR	-	M	\		80% lt. grn/gry tuff 20% clay — med. yellow	215-220	14044	<	<	40	2	.11	
20			45		7	3	-	15	8		-		-	"	"	-	M-H	/		40% clay 60% lt. gry/grn. tuff — dk yellow	220-225	14045	.005	.28	100	12	.30	
			60		10	-	-	40	8		-		5	L	SR-SA	3	L		.5	20% clay 60% lt. gry/grn. tuff — dk yellow	225-230	14046	.005	<	115	12	.23	
30			65		4	6	-	45	5/8		-		1	L	SA-SR	5%	L	/	-	10% dk. maroon / brn. ls, f.g. 5% qtz. vn. chips 85% lt. gry/grn. tuff tr. clay — brn.	230-235	14047	<	<	100	16	.22	
35			60		6	4	-	50	5/8		-		1	L	SA-SR	1	L	/	-	30% ls, f.g. hi. calc., 30% FeO, 70% un FeO 5% qtz. chips 65% lt. gry tuff — yellow / brn.	235-240	14048	<	<	110	14	.18	
40			60		9	1	-	25	4-8		-		tr.	L	SA SR	5	L	\	-	end 10.27.82 begin 10.28.82 — clear, sunny 100% gry/grn. tuff, sil, variable sil. tr. ls — yellow/brn.	240-245	14049	<	<	70	4	.14	
45			50		10	-	-	30	5				1	L	SR	4	L		-	AS ABOVE, mostly bits — dk yellow	245-250	14050	<	.22	100	12	.36	
50			50		9	1	-	35	6				2	L	SR	3	L		-	AS ABOVE — dk yellow	250-255	14051	<	.04	80	6	.35	
55			50		10	-	-	40	7				5	M	SA-SR	4	L-M		1%	99% tuff 1% clay pyr. — dk yellow	255-260	14052	<	.04	105	6	.28	
60			65		9	1	-	45	6				5	M	SR-SA	3	M		.5	AS ABOVE — "	260-265	14053	.005	.04	70	6	.22	
65			65		10	-	-	50	2				1	L	SR-SA	2	L		-	AS ABOVE, sl. greener, less silicified — "	265-270	14054	.005	.10	105	10	.39	
70			60		10	-	-	40	5				1	L-M	"	3	L		<.5	AS ABOVE, slightly grayer — "	270-275	14055	.005	.08	105	12	.48	
75			65		9	1	-	30	6				1	"	"	4	L-M	/	-	AS ABOVE, ↑ clay — "	275-280	14056	<	<	100	6	.69	

St Joe American Corp.
Southwest District

Project: Rosebud
Co, State: Pershing Co, NEV
Hole: #1

Started: 10-21-82
Completed: 10-28-82
Total Depth: 500'

Contractor: L. Klund
Drill Type: reverse circ.
Collar Elev.:

Bearing:
Angle: vertical
Scale: 1" = 5'

Logged by: H. BIDLE
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: G	H	J	total FeO	brdrk silic.	graphic alt.	calcite	calc.	MnO	fract.	frag. shape	qtz. xls vning	kspars	argillic	graphic min.	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
					9	–	1	70	5			L→M	–	H	SA	?	5%	H		tr.	80% powder - yellow 20% chips	280-285	14057	<.005	.08	95	12	1.00			
					7	–	3	20	5			M	–	H	SA	?	5%	H		tr.	70% powder - gray 30% chips contact, conformable.	285-290	14058	<	.22	115	8	.29			
					7	2	1	3	6			M⁻	1%	H-M	SR SR SA	1%	3%	L		.5	75% gray/green andesitic tuff, microveinlets of quartz, non FeO stned, soft. 5% hematitic stained tuff 20% white/lt. gray tuff lt. green/gry	290-295	14059	<	<	100	2	.05			
					4	4	2	3	7			M⁻	1%	H-M	SA	2%	1%	M		.5	AS ABOVE, 1% pink feldspars ↑ clay lt. green/gray	295-300	14060	<	<	55	<	.08			
					—	—	—		4			L⁺	–	M	SA-SR	tr.	tr.	M		tr.	100% med. gray/green andesitic tuff ↓ MnO no FeO stn.	300-305	14061	<	<	15	<	.05			
					—	—	—		3			L	–	M	SA-SR	–	tr.	L		–	100% med. gray/green andesitic tuff no FeO stn.	305-310	14062	<	<	20	<	.05			
					—	—	—		"		1%	M	tr.	M	"	–	–	L		tr.	99% lt. gray/green andesitic tuff 1% white calcite coating on surfaces	310-315	14063	<	<	10	<	.03			
					—	—	—		"		1%	L	.5%	M	"	–	–	M		tr.	AS ABOVE	315-320	14064	<	.10	10	<	.01			
					—	—	—		"		tr.	L	.5%	"	"	–	–	M⁺		tr.	95% lt. gray/green and. tuff 5% lt. green clay	320-325	14065	<	<	15	<	<			
					—	—	—		"		tr	L⁺	.5%	"	"	–	–	L		<.5	97% lt. green/gray tuff ↓ clay (3%)	325-330	14066	<	<	20	<	.03			
					—	—	—		"		tr.	M	1%	"	"	–	–	L		.5	lt. green/gray tuff ↑ MnO lt. green clay	330-335	14067	<	<	20	<	.01			
					—	—	—		"		4%	M⁺	tr	"	"	–	–			<.5	96% med. gray/green tuff mked ↑ calcite. 4% calcite rhombs + coating on surfaces	335-340	14068	<	<	10	<	.01			
					—	—	—		"		3%	M	tr	"	"	–	–			<.5	100% dk. greenish gray and. tuff calcite coating + rhombs	340-345	14069	<	<	10	<	<			
					—	—	—		"		2%	M	tr	"	"	–	–			<.5	100% dk. greenish gray and. tuff calcite coating tr. of qtz. veining	345-350	14070	<	<	10	<	.01			

St Joe American Corp.
Southwest District

Project: Rosebud
Co, State: Pershing Co, NEVADA
Hole: #1

Started: 10-21-82
Completed: 10-28-82
Total Depth: 500'

Contractor: Enfund
Drill Type: reverse circ
Collar Elev.:

Angle: vertical
Scale: 1" = 10'

Logged by: H. BIDLE
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: G	H	J	total FeO	bedrk silic.	graphic alt.	calcite	calc.	MnO	fract.	frag. shape	qtz. xls. vning	kspars	argillic	graphic min.	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As	Sb	Hg	Cu		
					—				4		3%	M+	—	M	SA-SR	—	—	L	□/	1%	92% med. greenish gray andesitic tuff 3% white calcite rhombs + coatings soft, white kaolin (5%) ↑ pyr.	350-355	14071	<	.06	20	<	.03			
					—				4		1%	M-	—	"	"			"	□	1%	93% darker greenish gray andesitic tuff 6% soft white kaolin 1% white calcite (↓)	355-360	14072	<	<	15	<	.03			
					—				5		tr.	L		"	"			L-		tr.	100% darker greenish gray and. tuff tr. white calcite sl. ↑ silicification	360-365	14073	<	<	10	<	.01			
					—	10	—	tr.	4		1%	L+		M	"			M		tr.	94% med. greenish gray and. tuff, smaller pieces than the darker tuff 2% soft white kaolin 3% pink/purple tuff 1% white calcite rhombs	365-370	14074	<	<	15	<	.07			
					—				4		2%	M		M	SR			L		tr	95% lt. grayish green tuff, smaller pieces than the darker tuff, not as angular 3% pink feldspars in tuff 2% clear + white calcite	370-375	14075	<	<	20	<	.14			
					—				4		1%	L		"	SR-SA			L		—	97% med. grayish green tuff, more angular than # 14075 1% clear calcite 2% white, soft kaolin	375-380	14076	<	<	15	<	.04			
					—				2		1%	L		"	SA			L+		—	99% lt. green tuff, soft 1% clear + white calcite	380-385	14077	<	<	10	<	.03			
					—				2		1%	L+		"	SA			L+		—	99% lt. green tuff 1% clear calcite rhombs	385-390	14078	<	<	10	<	.03			
					—				2		1%	L		"	SA			"		tr.	97% darker greenish/gray andesitic tuff 1% white kaolin 2% clear + white calcite rhombs	390-395	14079	<	<	5	<	.03			
					—				2		1%	L		"	SA-SR			"		tr.	AS ABOVE	395-400	14080	<	<	10	<	.01			
					—				3		-	L-		M	"			L-		tr.	100% med. grayish green and. tuff with some lighter green tuff	400-405	14081	<	<	10	<	.03			
					—				2		-	L-		"	"			L		—	100% lighter greenish gray tuff	405-410	14082	<	.12	10	<	.01			
					—				4		tr.	L		"	SA			L-		tr.	99% dk. greenish gray/black andesitic tuff, small bits, sl. ↑ in silicification 1% white kaolin tr. calcite	410-415	14083	<	<	45	<	.03			
					10	—		tr.			4%	M		"	SA			L-		—	96% dk. greenish gray/black, small bits, 1st show of FeO stn. 4% clear + white calcite rhombs	415-420	14084	<	<	30	<	.03			

St Joe American Corp.
Southwest District 7/3

Project: Rosebud
Co, State: Pershing Co. NV
Hole: #
Started: 10-21-82
Completed: 10-28-82
Total Depth: 500'
Drill Type: reverse air
Collar Elev.:
Bearing:
Angle: vertical
Scale:
Logged by: H. Bidle
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Total FeO	H	J	G	MnO	Graphic min.	calcareous	fract.	frag. shape	calcite	silic.	qtz xls, vining	graphic alt.		Kspar	argillic	% Volume Sulfides	GEOLOGIC DESCRIPTION			Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
			90		2%	–	–	10	–		L	M	SR-SA	10	4	3%				L	1	89% dk grn/gry and. tuff 10% white calcite 1% lim. clay	FeO stn.	dk grn/gry	420-425	14085	<	<	15	<	.05			
5			"		2			"	–		"	"	"	"	"	"				L	.5	AS ABOVE		dk grn/gry	425-430	14086			10	<	.03			
10			"		1%	—		10	–		"	"	"	"	"	"				"	"	AS ABOVE		"	430-435	14087			10	<	.03			
15			"		.5	—		10			L⁻	"	"	4	5-8	1%				"	.5	AS ABOVE		"	435-440	14088			10	<	.03			
20			"		5	—		10	–		L⁻	"	"	4	"	"				"	>.5	91% grn. gry and. tuff 4% calcite 5% lim. clay		"	440-445	14089			15	<	.03			
25			"		3	—		"			"	"		"	"	"				"	"	AS ABOVE.	Sl. ↓ FeO	"	445-450	14090			10	<	.01			
30			"		1	—		"			"	"	"	"	"	"				"	"	AS ABOVE	sl. ↓ FeO	dk. blue/grn.	450-455	14091			5	<	.03			
35			"		1	—		10			"	"	"	"	"	"				"	"	AS ABOVE		"	455-460	14092			20	<	.04			
40			"		3	—		10			"	"	"	"	"	"				"	1	AS ABOVE,	↑ pyr.	dk gry	460-465	14093			50	2	.15			
			"		5	—		10			L⁺	"	"	8	"	"				"	7	AS ABOVE grayer	mkd ↑ pyr.	"	465-470	14094			50	<	.08			
70			"		1	—		10			tr.	"	"	2	"	"				"	2	AS ABOVE	↓ pyr.	"	470-475	14095			30	<	.07			
75			"		—	—		—			tr	"	"	tr.	"	"				"	.5	dk. gry.	↓ pyr.	"	475-480	14096			35	<	.07			
80			"		4	—		10			tr	"	"	tr.	"	"				"	<.5	dk. gry.	↕ pyr.	"	480-485	14097			30	2.	.05			
85			"		7	—		10			"	"	"	"	"	1				"	<.5	dk gry	↓ pyr.	"	485-490	14098			80	<	.05			
90																																		

St Joe American Corp.
Southwest District

Project: KOSEBUD 749.08
Co, State: Pershing Co. NV
Hole: #1

Started: 10-21-82
Completed: 10.28.82
Total Depth: 500'

Contractor: Ekfund
Drill Type: reverse circ.
Collar Elev.:

Bearing:
Angle: vertical
Scale:

Logged by: H. Bidle
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Total FeO	Hem	Jar	Goe	MnO	graphic min	Calcar	fract	frag shape	calcite	silic	qtz vns/vning	graphic att		Kspar	argillic	% Volume Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au OZ/T	Ag OZ/T	As	Sb	Hg	Cu		
					4	–	–	10	–		L	M	SA	1	2	1					<.5	AS ABOVE dk gry tuff	490–495	14099	<	<	25	<	.06			
5					tr.			tr.			"	"	SA	tr.								50% dk gry tuff 30% dk grn. 20% black volc.	495–500	14100	<	.08	20	<	.15			
10				TD. 500'																		TD. = 500'										

St Joe American Corp.
Southwest District

Project: ROSEBUD
Co, State: PERSHING Co NEVADA
Hole: RDH-2 (PROJ-749-08)
Started: 10/20/0—
Completed: 11/1/82
Total Depth: 480
Contractor: HUDSON
Drill Type: Reverse Circ
Collar Elev.:
Angle: 90°
Scale: 1" : 10'
Logged by: E.J. Demeter
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Hem	Goe	Jar	% Total FeOx	Grnd Min	/	/	Frag Shape	—	Fract			Grnd Alt	Silic	Argill	K-Spar	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu
0			30		5 diss	10 diss frac	2	17				sub Rd		Conch				str	mod			Tuff?-buff to lt tan/w white rhyolitic frags Bx calcedonic qtz, (black= phyllite contamination)	0-5	1251	<	<	80	28	.46	
5			80		3 diss	7 frac	2	12				sub Rd		Conch				str	mod			as above J-coatings	5-10	1252	<	<	30	20	.08	
10			80		1	2	1	4				sub Rd						mod	str			more white	10-15	1253	<	<	35	6	.05	
15			80		1	2	1	4				sub Rd						wk	mod			a/a less argillic	15-20	1254	<	<	50	10	.04	
20			85		1	5	2	8											mod			a/a more clay	20-25	1255	<	<	40	2	.04	
25			85		1	5	2	8											mod			a/a	25-30	1256	<	<	65	14	.05	
30			90		1	3	1	5											str			Sticky Clay with silic Tuff frags Flesh color (Fault Gouge?) Possibly zeolite clay	30-35	1257	.01	.05	85	30	.50	
35			90																			a/a Fault Gouge?	35-40	1258	.01	<	85	28	.26	
40			90																			a/a more clay. less frags	40-45	1259	<	<	70	32	.04	
			90		1 diss	2 frac	tr					sub Rd						v. str				80% White Qtz - Vein? milky qtz, G-fracs chalcedony	45-50	1260	<	<	70	16	.04	
50			90		1	3	-	4										str				70% white Qtz - Vein?	50-55	1261	.01	<	55	60	.70	
55					-	3	-												str			Sticky clay gouge?/w qtz frags Lt Tan Color	55-60	1262	.005	.22	65	110	>5	
60					20	2	3	25										str				Silic tuff? white milky Qtz Red + white color	60-65	1263	<	.06	60	40	.30	
65																						Au - .01 oz/t — Hg - 1 ppm Ag - .5 oz/t — As - >100 ppm — Sb - > 70 ppm —								

P = PERVASIVE
F = FRACTURE
a/a = as above

Ang = ANGULAR
R = ROUND

WK = WEAK
MOD = MODERATE
STR = STRONG

St Joe American Corp.
Southwest District

Project ROSEBUD # 77100 | Started 10/28/82 | Contractor AVDECH | Bearing | Angle 90° | Logged by E.J. Demaster
Co, State PERSHING Co NEVADA | Completed 11/1/82 | Drill Type Rev Circ | Scale 1" : 10'
Hole RDH - 2 | Total Depth 480' | Collar Elev. | Coord. N. | E.

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Hem	Goe	Jar	% Total FeOx	Graph Min		Frag Shape	Fract			Graph Alt	Silic	Argill	K-spar	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
65			70		–	–	–	–			Sub Rd					Str			OX	white Qtz, milky white Alunite?	65-70	1264	<	<	70	30	.15			
70			90		–	–	10	10								Str				white Qtz /w Jarosite coatings white Alunite?	70-75	1265	<	<	50	24	.22			
75			90		–	–	–				clay						X			sticky clay gauge? Lt tan color	75-80	1266	<	<	70	48	.10			
80			90		–	–	–				clay clay									white clay gauge? Creamy Lt. Tan color	80-85	1267	.005	.34	45	140	3.60			
85			90		–	5	5	10			Sub Rd					Str	mod			Silic Tuff-Bx - volcaniclastic white Alunite? 20% (or Zeolite? clay)	85-90	1268	.01	.23	90	170	3.00			
90			90		–	5	5	10			sub Rd					Str	mod			" white Alunite? 10%	90-95	1269	.01	.17	110	150	.51			
95			90		–	5	5	10			Sub Rd					Str				" /w Calcedonic qtz	95-100	1270	.005	.16	130	105	.30			
100			90		2	5	5	12			sub ang					Str				" " FeOx on fracs + diss 1% Smoky (pyritic?) quartz	100-105	1271	.005	.38	125	85	1.40			
105			90		tr	10	2	12			sub ang					Str				silic - qtz Feox on fracs + diss Rhyolitic frags Tr. MnOx, Sl. Greenish	105-110	1272	<	.04	140	115	1.1			
110			95		1	5	1	7			sub ang					Str				Silic qtz + Rhyolitic frags FeOx on fracs chlorite? green, hard drilling	110-115	1273	<	<	120	70	.55			
115			95		1	5	1	7			Ang					Str				silic (lost green color) FeOx (G+J) diss Tuff?	115-120	1274	<	<	155	80	.61			
120			95		2	5	1	8			1					Str			tr	Silic Tuff-Bx Py diss. in Bx-matrix v.f. grained	120-125	1275	.005	<	130	70	1.5			
125			95		2	5	tr	7			1					Str			tr	a/a Py	125-130	1276	.015	.21	70	32	1.0			
130																														

St Joe American Corp.
Southwest District

Project: Rosebud # 17400 | Started: 10/20/82 | Contractor: Hudson | Angle: 90° | Logged by: EJ Demeter
Co, State: Pershing Co Nevada | Completed: 11/1/82 | Drill Type: Reverse-Circ | Scale: 1" : 10' | Coord. N. ____ E. ____
Hole: RDH-2 | Total Depth: 480' | Collar Elev. ____

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: HEM	GOE	JAR	% Total FeOx	GRAPH MIN			FRTG Shape	Fract			GRAPH ALT	Silic	Argill	K-spar	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
30			100		2	4	-	6				Ang					str			tr	silic Tuff-Bx as above slightly more greenish v.f. diss. py in matrix of Bx - smoky grey	130-135	1277	.01	.13	80	75	1.8			
35			100		2	5	-	7				Ang					str			tr	a/a more green color	135-140	1278	.01	.17	110	130	.90			
40			100		1	1		2				Ang					str			tr	a/a "	140-145	1279	.01	.13	160	200	1.9	45 / 75	.0067 Au / .15 Au	
45			100		1	1		2				Ang					str			Tr	a/a "	145-150	1280	.01	.05	145	125	.5			
50			100		-	71	-	1				Rd					str	wk		tr	minor clay gouge?, Alunite(?) + qtz " Px v.f. diss, white to pale greenish white color	150-155	1281	.005	.32	85	80	5.0			
55			100									Sub Rd					mod	wk		-	Alunite? + qtz altered Tuff as above "	155-160	1282	<	<	110	20	1.3			
60			100									Sub Rd					mod			-	a/a "	160-165	1283	<	<	115	24	.34			
65			100		2	3	-	5				Ang					str			-	increase in Hematite " minor sticky clay gouge (Loosing air into open fracs)	165-170	1284	<	<	55	20	.26			
70			100		2	5	1	8				Ang					str			-	increase in FeOx	170-175	1285	<	<	55	26	.63			
			100		1	1	-	2				Sub Rd					wk	wk		-	decrease in FeOx	175-180	1286	<	<	95	60	.26			
80			100			tr		tr				Sub Rd					wk	str			a/a increase in Alunite?, clay	180-185	1287	<	<	105	40	.16			
85			100		2	2	-	4				Sub Ang					mod				sl. increase in FeOx	185-190	1288	<	<	90	34	.24			
90			100		3	3	1	7				sub Ang					str			tr	tuff-Bx silic ± Red jasper ~ 2% py	190-195	1289	.01	.17	95	42	3.9			
95																															

St Joe American Corp.
Southwest District

Project: ROSEBUD # 179-60
Co, State: PERSHING NEVADA
Hole: RDH-2

Started: 10/20/82
Completed: 11/1/82
Total Depth: 460'

Contractor: Hardsoe
Drill Type: Reverse Circ
Collar Elev.:

Bearing:
Angle: 90°
Scale: 1" : 10'

Logged by: E J Demeter
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: HEM	GOE	JAR	% Total Ox	Graph MIN		FRAG SHAPE	FRACT			GRAD ALT	Silic	Argill	K-spar	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au OZ/T	Ag OZ/T	As ppm	Sb ppm	Hg ppm	Cu		
195			100		3	3	1	7			Ang					str			tr	a/a silic tuff-Bx with ~2% jasper chips v.f.g. diss py in qtz matrix, calcedonic qtz	195-200	1290	.01	<	85	38	1.1			
200			100		2	2	-	4			Ang					mod	mod			a/a, mod. Alunite? - clay	200-205	1291	.01	<	70	40	2.7			
205			100		1	2	-	3			Ang					mod	mod			a/a "	205-210	1292	.005	<	80	44	1.9			
210			100		1	3	-	4			Ang					mod				a/a	210-215	1293	.01	<	90	34	1.5			
215			100		1	1	-	2			sub Rd					str				a/a	215-220	1294	.01	<	95	40	1.8			
220			100		1	1	-	2			sub Rd					str				a/a silic tuff-Bx lw jasper chips	220-225	1295	.01	<	105	24	.61			
225			100		1	1		2			sub Ang					wk	wk		tr	a/a mod. Alunite py v.f. diss	225-230	1296	.005	<	90	44	.47			
230			100		1	1		2			↓					wk	wk			a/a mod. Alunite	230-235	1297	.005	<	70	38	1.6			
235			100		1	2	-	3			↓					mod	mod			a/a mod. Alunite	235-240	1298	.005	<	95	42	1.3			
			100		1	2	1	4			↓					str				a/a	240-245	1299	<	.02	90	34	1.8			
245			100		1	2	-	3			↓					str	mod			a/a	245-250	1300	.005	.02	100	30	.84			
250			100		1	2	-	3			↓					str				a/a	250-255	1301	.005	.10	100	24	1.3			
255			100		1	2	1	4			↓					str	mod			a/a	255-260	1302	.005	.10	110	34	1.2			
260																				Drilling difficult; large frags falling on top of hammer, Rods close to getting stuck with clay										

St Joe American Corp.
Southwest District

Project: ROSEBUD # 144-08
Co, State: PERSHING Co, NEVADA
Hole: RDH-2

Started: 10/26/82
Completed: 11/1/82
Total Depth: 480'

Contractor:
Drill Type: Rev - Circ
Collar Elev.:

Bearing:
Angle: 90°
Scale: 1" : 10'

Logged by: EJ Demeter
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: HEM	GOE	JAR	Total FeOx	Graphic MIN			Frag Shape		Fract			GRAPH ALT	Silic	Argill	K-spar	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au OZ/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
60		100			2 P	7 P	-	9				sub Ang						str			-	Tuff - fragmental lw Red jasper chips, calcedonic matrix pale greenish color WET SAMPLE = WATER TABLE @ 263'	260-265	1303	<	<	105	48	1.30			
65		100			↕			↕													tr	a/a Py	265-270	1304	.005	<	75	30	.93			
70		100																				a/a moist sample	270-275	1305	.005	<	100	38	1.40			
75		100												Ce								a/a	275-280	1306	.005	.84	110	34	.80	.95	.006	
80		100																				a/a	280-285	1307	.005	<	110	34	2.40			
85		100																				a/a	285-290	1308	<	<	95	32	.90			
90		70																Mod	str			30% sticky clay - Goethite color a/a	290-295	1309	.005	<	95	36	.38			
95	HAMMER	70			1	5	1	7														a/a Loss of clay	295-300	1310	<	<	105	36	.90			
100	RISQUE	70			1	5	1	7														a/a hammer plugs up with clay, use TRICONE BIT Drilling difficult: using mud to pack hole walls, foam	300-305	1311	<	<	65	22	1.00			
		70			1	5	1	7														a/a	305-310	1312	.005	<	70	24	1.10			
310		65			1	5	1	7														a/a	310-315	1313	<	<	60	18	.33			
315		70			2	5	1	8				sub Ang										a/a 15-25% White Clay	315-320	1314	<	.04	50	12	.80			
320		65			1	2	-	3				sub Rd						v. STR				80% white to Goethite stained Qtz, Vuggy 20% tuff with clay as above	320-325	1315	<	<	35	8	.16			
325																																

St Joe American Corp.
Southwest District

Project: KOSEDUV # 147-00
Co, State: PERSHING Co NEVADA
Hole: RDH-2

Started: 10/20/82
Completed: 10/1/82
Total Depth: 480'

Contractor: HUDSON
Drill Type: Reverse - Circ
Collar Elev.:

Bearing:
Angle: 90°
Scale: 1" = 10'

Logged by: EJ Demeter
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: HEM	GOE	JAR	Total RDX GRAPH ALT			FRAG SHATE		FRACT			GRAPH ALT	Silic	Argill	Kspar	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au OZ/T	Ag OZ/T	As PPM	Sb PPM	Hg PPM	Cu
25			50		2	5	-	7										str		-	Tuff fragmental as above 10-20% white sticky clay - zeolite?	325-330	1316	.01	<	80	20	1.30	
30			30		1	1 F	=	2										str			Loss of fines (clay?) in drill water overflow	330-335	1317	<	<	40	10	.19	
35			50		tr	tr	-	tr									str	str			White Vuggy, milky Quartz	335-340	1318	.005	<	40	10	.38	
40			60		tr	tr		tr									str				a/a	340-345	1319	<	<	40	8	.19	
45			60		tr	tr	-	tr									str				a/a 25% white sticky clay	345-350	1320	<	<	50	10	.21	
50			60		tr	1	1	2									str			-	Dirty white silic. Tuff fragmental	350-355	1321	<	<	65	10	1.70	
55			60		1	5	-	6												2	GREY-BROWN Tuff silic fragmental v.f.g. diss PY / partly oxidized	355-360	1322	<	.58	110	16	1.40	
60			60		1	4		5												2	a/a	360-365	1323	<	.28	125	18	1.60	
65			60		1	4		5												2	" "	365-370	1324	<	.38	135	18	.80	
70			60		1	4		5												2	"	370-375	1325	<	.58	115	16	.91	
75			60		1	4		5												2	"	375-380	1326	<	.58	130	16	1.90	
80			60		1	4		5												1	" 5% White Milky Quartz	380-385	1327	.005	.64	140	18	1.40	
85			60		1	4		5												1	"	385-390	1328	.005	.66	135	16	2.00	
90																													

15 values.

St Joe American Corp.
Southwest District

Project: ROSE DDH # 177-00
Co, State: PERSHING Co NEVADA
Hole: RDH-2

Started: 10/26/82
Completed: 11/1/82
Total Depth: 480'

Contractor: [illegible]
Drill Type: Rev - Circ
Collar Elev.:

Bearing:
Angle: 90°
Scale: 1" = 10'

Logged by: E J Demeter
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov.	Graphic Geology	ALTERATION and MINERALIZATION: HEM	GOE	JAR	Total FeOx	GRAPH MIN		FRAG SHAPE		FRACT			GRAPH ALT	Silic	Argill	K-Spar	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au OZ/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
390			60		1	4	-	5									str			1	as above: Tuff fragmental, silic, partly oxidized with 0-5% white clay, v.f. grained disseminated py in siliceous matrix	390-395	1329	.01	.45	130	18	2.20			
395			60		1	4	-	5									str			1	a/a	395-400	1330	.005	.32	125	20	2.20			
400			50		tr	1 F/P											v. str			tr	Intense silicification (of Tuff?) slightly vuggy with white clay (alunite?) 5-10%	400-405	1331	<	<	75	12	.80			
405			60														v. str			tr	a/a	405-410	1332		.20	100	14	1.80			
410			60		1	2 P		3									str			1	Tuff-fragmental silic, partly oxidized, with 0-5% white clay	410-415	1333		.42	150	22	1.20			
415			50		1 P	2 P		3									1			1	"	415-420	1334		.4	140	20	1.50			
420			45		1	2		3									1			1	"	420-425	1335		.52	140	22	1.10			
425			40		1	2		3									1			1	"	425-430	1336		.30	150	24	1.50			
430			40		1	2		3									1			1	" "	430-435	1337		.58	145	24	2.10			
[illegible]			35		1	2		3									1			1	"	435-440	1338	.005	.46	120	34	2.60			
440			30		1	2		3									1			1	" Loss of chip size - DRILL BIT MALFUNCTIONING?	440-445	1339	<	.22	130	24	2.00			
445			30		1	2		3									1			1	"	445-450	1340		.14	125	30	1.70			
450			30		1	2		3									1			1	"	450-455	1341		.26	135	24	2.20			
455																															

St Joe American Corp.
Southwest District

Project: ROSE DAW
Co, State: PERSHING Co NEVADA
Hole: RDH-2

Started: 10/20/82
Completed: 11/1/82
Total Depth: 480'

Contractor: HUDSON
Drill Type: Reverse Circ
Collar Elev.:

Bearing:
Angle: 90°
Scale: 1" : 10'

Logged by: EJ Demeter
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: HEM	GOE	JAR	Total FeOx	GRAPH MIN			FRAG SHAPE	Fract			GRAPH ALT	Silic	Argil	Ky-spar	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
55			30		1	2		3				Ang					Str			1	as above Tuff-fragmental interbedded with zeolite? clays, partly oxidized	455-460	1342	<	.3	150	28	1.80			
60			35		1	2		3				1								1	"	460-465	1343	<	.06	110	22	.90			
65			30		1	2		3				1								1	"	465-470	1344	<	.3	150	26	1.00			
70			30		1	2		3				1								1	"	470-475	1345	<	.32	145	28	.53			
75			30		1	2		3				Ang					Str			1	"	475-480	1346	<	.20	105	24	1.80			
80																					T.D. - 480' Stopped hole TRICONE DESTROYED PART Left in hole										

t Joe American Corp.
Southwest District

Project: Rosebud [illegible]
Co, State: Pershing Co. NV
Hole: 3
Started: [illegible]
Completed:
Total Depth: 500'
Contractor:
Drill Type: reverse air
Collar Elev.:
Angle: Vertical
Scale:
Logged by: H. Bidle
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Tomk% FeOx	GoE	JAR	HEM	MnO	Graphic Pin	Calcar	Calcite	fract	frag shape	silic.	qtz veining	graphic calc		Kspar	argillic	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
			60																			overburden med. gry sil. tuff ? qtz vn. beige chert	0-5	14101	<	<	150	38	.08			
			70		25	6	–	4	–		–	–	M	SA	8/8	5				M	.1	25% sil. ls(?) 20% clay 40% sil. gry. tuff ? bx ? 15% clear qtz. vn, pyr.	5-10	14102			980	20	.07			
			90		20	7	1	2	–		–		"	"	3/–/8	10				M	.5	20% beige tuff, unsil. broken to bits dk. beige 40% qtz. vn, gry, clear 20% sil. tuff, gry. 20% clay	10-15	14103			220	14	.04			
			85		40	8	2	–					"	"	8/0/–	10					—	35 gry sil. rk tuff(?), microvnlts, qtz ↑ FeO 30 silty tuff, limonitic beige 20 qtz. vn. 15 clay	15-20	14104			240	20	.03			
			90		60	10	—						"	"	6/–/8	5	–				.5	50 - limonitic, sl. silicified tuff ? FT. ZONE brn. 30 - gry qr. 20 gry sil. tuff ?	20-25	14105			300	32	.03			
			90		25	10	—				–		"	"	–/7/4	7	–				—	30% white/gry qtz. chips ↓ FeO 50% gry sil. tuff (ls?) lt. gry 10% limonitic tuff (100%) 10% clay	25-30	14106			340	18	.14			
			80		30	9	—	1					"	SA. → SR	4/7/–/6	3					—	50% f.g. silty ss ? tuff ? beige 15% pink/white tuff beige 20% qtz. chips 15% limonitic (100%)	30-35	14107			310	75	.05			
			90		60	10	—						"	SA	6/–/3	–					—	60% dk. brn. mod. welded and. tuff 15% white qtz. chips brown 10% beige tuff, nonsil. 15% clay	35-40	14108			325	80	.11			
			80		50	8	–	2					"	"	"						—	75% dk brn. mod. weld. tuff 10% white qtz. brn. 5% beige tuff 10% clay	40-45	14109			120	36	.05			
			85		60	"	–	2					"	"	"						–	AS ABOVE "	45-50	14110			150	36	.05			
			85		10	10	—						"	"	4	2%					–	100% dk brn. tuff tr. gry tuff dk. brn.	50-55	14111			115	38	.04			
			90		10	10	—						"	"	"						–	AS ABOVE "	55-60	14112			85	60	.07			
			95		25	10	—		10%				"	"	"	—					–	AS ABOVE ↑ FeO "	60-65	14113			70	24	.05			
			90		20	10	—		20				"								–	AS ABOVE 100% dk. brn. tuff, and. "	65-70	14114			90	28	.05			

St Joe American Corp.
Southwest District

Project: Rosebud
Co, State: Pershing Co, NV
Hole: 3
Started:
Completed:
Total Depth: 500'
Drill Type: reverse air
Collar Elev.:
Angle: vertical
Scale:
Logged by:
Coord. N: E.:

Depth	Rotary / Core: Size	Recovery	% Recov.	Graphic Geology	ALTERATION and MINERALIZATION: TOTAL % FeO	GOE	JAR	HEM	MnO	Graphic Min.	Calcar.	Calcite	Fract.	Frag Shape	silic.	ftz.vls. vrning	graphic dtc.		Kspar	argillic	Volume % Sulfides	GEOLOGIC DESCRIPTION		Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
			90		30 (F)	9	–	1	20		–	–	M	SA	3	–						100% dk. brn. tuff, and.	dk. brn.	70–75	14115	<	<	165	22	.04			
75			90		"	"	–	"	"				"	"	"				–			AS ABOVE	"	75–80	14116			55	14	.03			
80			90		40 (F)	7	–	3	15				"	"	"							AS ABOVE sl. ↑ FeO	"	80–85	14117			90	28	.08			
85			85		"	"	–	"	"				"	"	3-6							AS ABOVE, variably silicified	"	85–90	14118			140	60	.07			
90			90		35 (F)	8	–	2	20				"	"	3-6	tr.						AS ABOVE trace of white qtz. chips	"	90–95	14119			340	70	.07			
95			"		"	"	–	"	"				"	"	"	"						AS ABOVE	"	95–100	14120			1600	115	.12			
100			95		45 (F)	6	–	4	10				"	"	3-7	–						AS ABOVE ↑ FeO	"	100–105	14121			100	55	.09			
105			90		60 (F)	7	–	3	5				M	SA-SR	3-7 / 2	–						70% dk. brn. tuff 30% white/beige tuff ↑ FeO	lt. brn.	105–110	14122			190	80	.08			
110			90		70 (F)	8	–	2	–				M	SA-SR	3-7 / 2	–						30% dk. brn. tuff 70% white/beige tuff	lt. brn.	110–115	14123			250	75	.16			
			90		20 (beige) (P)	10	—	—					L	SR	0	0					3%	95% dk gry tuff, pyr., 1% chunks of pyr. 5% beige tuff	dk. gry	115–120	14124			320	30	.05			
120			85		5 (dk (P) brn tuff)	10	—	—					"	"	"	"					2%	90% dk gry tuff, pyr. 10% dk brn. tuff	"	120–125	14125			60	30	.04			
125			90		30 (F)	9	–	1	15				L	SA	2	–					–	3% dk gry tuff 96% dk brown tuff (as above) 1% white qtz. chips	brn.	125–130	14126			120	16	.04			
130			80		40 (F)	9	–	1	10				"	"	"	3%					—	100% dk. olive brown tuff, min. qtz. vnlets	dk brn.	130–135	14127			45	8	.05			
135			85		30 F	"	–	"	"				"	"	"	2						AS ABOVE	"	135–140	14128			40	6	.03			

St Joe American Corp.
Southwest District

Project: [illegible] | Started: | Completed: | Drill Type: reverse circ. | Angle: vertical | Logged by: H. Bidle
Co, State: Pershing Co. NV. | Total Depth: 500' | Collar Elev.: | Scale: | Coord. N.: | E.:
Hole: 3

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Total % FeO	GoE	JAR	HEM	MnO	graphic min.	Calcar	calcite	fract	frag shape	silic	qtz xls. vn.	graphic alt		K spar	argillic	Volume % Sulfides	GEOLOGIC DESCRIPTION		Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
			85		5	10							L	SA	3/4	–	Δ				.5	20% dk brn. tuff 80% dk gry tuff, soft dk. gry coating on fracts, pyr. tr. gypsum	gry	140-145	14129	<	<	95	28	.20			
5			85		20 (brn)	10							L	SA	7/4/6	–	Δ				3	50% dk gry, f.g. volc.? } pyr. 40% med. gry tuff 10% dk. brn. tuff	↑ pyr. "	145-150	14130			135	28	.14			
50			85		20 (brn)	10							L	"	"		Δ				4	50% dk. gry tuff } pyrite 45% lt. gry tuff 5% dk. brn. tuff	med. gry	150-155	14131			25	8	.01			
55			70		0	—					–	tr.	L	"	7	–					.5	100% dk. gry tuff, sl. platy tr. calcite vn. on fracts.	↓ pyr. "	155-160	14132			20	4	.01			
60			70		5	10					L	1%	M	SA	7		<				.5	AS ABOVE 1% calcite chips	"	160-165	14133			15	2.	< .01			
65			65		5	10					L	"	M	"	"		7				"	AS ABOVE f.g. pyr.	"	165-170	14134			15	2	<			
70			70		5	10					L	"	"	"	"		<				"	AS ABOVE	"	170-175	14135			15	2	.01			
75			65		10	10	tr.				L-	1%	"	"	8						<.5	AS ABOVE	"	175-180	14136			10	2	<			
80			60		15	9	–	1			L	tr.	"	"	7						1	AS ABOVE ↑ pyr.	"	180-185	14137			20	8	.01			
85			40		25	10	—				L	tr.	"	"	7		<				1.5	AS ABOVE pyr. is fine grained tr. blk. volc., f.g. pyr.	"	185-190	14138			20	14	.03			
190			50		10 (brn)	8	–	2			L	tr.	"	"	7		<				.5	AS ABOVE sl. ↓ pyr. slow drilling 7% dk. brn. tuff, FeO stn.	"	190-195	14139			10	4	.01			
195			40		15	10	—				L-	tr.	"	"	8/7						<.5	70% dk gry tuff, FeO stn. 30% dk. brn. tuff, FeO stn.	"	195-200	14140			20	12	.03			
200			45		10	10	—				—	—	"	"	8/7/8	–	<				.5	45% dk. gry tuff 30% dk. brn. tuff 25% limonitic (100% G) tuff, sil.	dk beige	200-205	14141			210	24	.03			
205			45		10	10	—				L-	tr.	"	"	7/7						.5	65% dk. gry 35% dk. brn. tr. calcite	dk. gry.	205-210	14142			20	8	.01			
210																																	

St Joe American Corp.
Southwest District

Project [illegible] | Started [illegible] | Contractor [illegible]

Co, State: Pershing Co. NV. | Completed: | Drill Type: reverse air | Angle: vertical | Logged by: H. Bidle

Hole: 3 | Total Depth: 500' | Collar Elev.: | Scale: | Coord. N: | E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: TOTAL % FeO	GoE	JAR	HEM	MnO	graphic min.	Calcar	calcite	fract	frag. sulfide	silic.	qtz xls. & inlets	graphic clay		Kspar	argillic	Volume % Sulfides	GEOLOGIC DESCRIPTION		Interval	Sample Number	ANALYSES: Au OZ/T	Ag OZ/T	As ppm	Sb ppm	Hg ppm	Cu		
			50		5	10	—		tr.		L	1	L	SA	8	—					.5	dk gry tuff, sil. 1% calcite	dk. gry	210-215	14143	<	<	15	2	.06			
215			45		3	10	—		—		L	"	"	"	"						<.5	AS ABOVE 2% calcite	"	215-220	14144			15	2	.05			
220			50		1	10	—		—		L	"	"	"	"						"	AS ABOVE	"	220-225	14145			20	2	.04			
225			50		5	10	—		—		L-	tr.	"	"	8	tr.					4%	AS ABOVE mked. ↑ pyr. tr. epidote, tr. white qtz.	"	225-230	14146			240	12	.05			
230			60		10	10	—		—		L	tr.	"	"	"	1					6	AS ABOVE 1% qtz.	"	230-235	14147			950	22	.14			
235			65		15	10	—		—		L	tr.	"	"	"	2					6	AS ABOVE		235-240	14148			510	16	.08			
240			55		20	10	—		—		L-	—	"	"	"	3					4	AS ABOVE end 10.29.82 begin 10.30.80		240-245	14149			640	12	.09			
245			50		5	8	—	2	—		M	tr.	M-H	SA-SR	8/4	tr.					1	50% dk gry tuff 50% med. gry tuff, nonstl., calcareous, pyr. latite? ↓ pyr.	lt. gry	245-260	14150			100	4	.15			
250			50		10	9	—	1	—		M-L	tr.	"	"	"	—					1	60% dk. gry tuff 40% med. gry. latite? tr. calcite chips	med. gry.	250-255	14151			30	4	.08			
			45		15	9	—	1	—		"	"	"	"	"	"					1	AS ABOVE	"	255-260	14152			30	6	.10			
260			50		5	10	—		—		L-	"	"	"	"	"					1	med. gry. latite?	"	260-265	14153			35	6	.17			
265			55		1	10	—		—		L	"	"	"	"	"					.5	" AS ABOVE	"	265-270	14154		.02	30	2	.05			
270			55		"	10	—		—		L	"	"	"	"	"					.5	AS ABOVE	"	270-275	14155		<.01	25	2	.09			
275			60		—	—	—		—		L-M	tr.	"	"	"	—					1	AS ABOVE tr. dk. gry ↑ calcar.	"	275-280	14156			20	2	.06			
280																																	

St Joe American Corp.
Southwest District

Project: Rossetta Hills
Co, State: Pershing Co., NV.
Hole: #3
Completed:
Total Depth: 500'
Drill Type: reverse circ.
Collar Elev.:
Angle: vertical
Scale:
Logged by: H. Bidle
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: TOTAL %FeO	GOE	JAR	HEM	MnO	graphic min.	Color	Calcite	fract	fract shape	silic.	qtz. x/b vning	graphic alt.			argillic	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
280			70		1	10	—				L+	tr.	L-M	SA	5	—	-				tr.	100% dk. gry latite? med. gry tr. black unit, calcite stringers calc. powder	280-285	14157	<	<	20	4	.04			
285			65		—						M	tr.	"	"	"	—	-				tr.	AS ABOVE "	285-290	14158			15	4	.03			
290			65		—						M	tr.	"	"	"	—	△				1	100% dk gry latite? " tr. calcite	290-295	14159			20	2	.05			
295			55		—						M	tr.	"	"	"	—	△ v				2	AS ABOVE. " slightly green	295-300	14160			15	<	.05			
300			50		—						L	tr.	"	"	"	—	v △				2	AS ABOVE "	300-305	14161			20	4	.09			
305					3	8	—	2			L	—	"	"	"	—	△				1	AS ABOVE "	305-310	14162			15	2	.09			
310					—						L-	—	"	"	7	—	^				.5	not green anymore " dk. gry	310-315	14163			15	2	.10			
315					—						"	—	"	"	"	—	v				.5	AS ABOVE " tr. calcite	315-320	14164			10	2	.02			
320					—						"	—	"	"	"	—	^				.5	AS ABOVE " less calcite	320-325	14165			15	2	.05			
[illegible]					—						—	—	"	"	5	—	'				<.5	AS ABOVE " no calcite	325-330	14166			15	2	.02			
330					—						—		"	"	"	—	'				tr	AS ABOVE "	330-335	14167			10	2	.01			
335					—						L-	tr.	"	"	"	—	△				1	AS ABOVE ↑ pyr. "	335-340	14168			20	2	.02			
340					—						L	tr.	"	"	"	—	△ <				1.5	80% dk.gry latite, pyr. " 20% blk. volc. pyr. tr. calcite	340-345	14169			10	4	.02			
345					—						L	tr.	"	"	"	—	>				.5	100% dk. gry latite ↓ pyr. "	345-350	14170			20	2	.01			
350																																

St Joe American Corp.
Southwest District

Project: Rose Bud 141.08
Co, State: Pershing Co. NV.
Hole: #3
Started:
Completed: 11.30.82
Total Depth: 500'
Contractor:
Drill Type: reverse circ. air
Collar Elev.:
Bearing:
Angle: vertical
Scale:
Logged by: H. BIDLE
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Total % FeO	GOE	JAR	HEM	MnO	Graphic min.	calcar	calcite	fract.	frag. shape	silic.	qtz. x's vn	graphic alt	argillic	% Volume Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu
350											L⁻	tr.	L-M-	SA	5	–			.5	90% dk gry latite 10% blk. volc. tr. gry + blk. banded rk. gray	350-355	14171	<	<	25	4	.02	
355											"	"	"	"	"	–			<.5	lighter gray	355-360	14172			20	6	.02	
360											"	"	"	SA	7	–			1	dker gray, ↑ pyr. ↑ sil.	360-365	14173			30	10	.02	
											M	4%	"	SA	7				2	dker gray, ↑ pyr. ↑ calcite	365-370	14174			25	2	.04	
370											L	tr.	L⁻	BL	8				4	blk. volc? blocky, smooth surf. dk gry	370-375	14175			30	10	.04	
375											"	"	"	BL	8				6	AS ABOVE	375-380	14176			30	2	.02	
380											"	"	"	"	8				5	DITTO broken to bits	380-385	14177			60	14	.04	
385											"	"	"	"	"				5	DITTO bits tr. calcite	385-390	14178			40	4	.04	
390											"	"	"	"	"				4	DITTO	390-395	14179			30	46	.09	
											"	"	"	"	"				4	DITTO	395-400	14180			35	32	.08	
400											L	tr.	M	SA	6	tr.			1	lt. to med. gry latite ↓ pyr. med. gry. 1% calcite tr. lt. green tuff(?), silicified HIT WATER	400-405	14181			25	20	.04	
405											"	"	"	"	6	"			.5	med. gry latite 5% blk volc. calc. powder	405-410	14182			35	24	.05	
410											"	"	"	"	6	"			<.5	DITTO	410-415	14183			40	30	.08	
415											"	"	"	"	6	"			<.5	DITTO	415-420	14184			40	50	.09	

St Joe American Corp.
Southwest District

Project: [illegible]
Co, State: Pershing Co. NV
Hole: #3
Started: [illegible]
Completed:
Total Depth: 500'
Drill Type: reverse circ. air
Collar Elev.:
Angle: vertical
Scale:
Logged by: H. Bidle
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Total % FeO	GoE	JAR	HEM	MnO	graphic min	calcar.	calcite	fract.	frag shape	silic	qtz. vns vn	graphic dat.	argillic	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu
20					—						L⁻	tr.	M	SA	8/5	tr.	<		.5	60% blk. volc. (as before, pyr.) 40% med. gry lat. med. gry	420-425	14185	<	<	30	26	.08	
425					—						L	tr.	"	"	"	—			1	90% med. gry lat. 10% blk. volc.	425-430	14186			70	38	.10	
430					—						L⁺	tr.	M	"	6	2%			2	99% med. gry. lat. 1% lt. to med. grn. qtz. chips ↑ pyr.	430-435	14187			410	32	.21	
435					—						L⁻	tr.	M	"	6/6	—			1	25% med. gry lat. 75% green/gry lat.	435-440	14188			70	2	.03	
440					—						L	tr.	M	"	"	—	<		.5	90% gry/grn. 10% blk. volc. (as before, pyr.)	440-445	14189			50	6	.06	
445					—						"	tr.	"	"	"	—			tr.	100% gry/grn. lat. tr. blk. volc.	445-450	14190			20	<	.06	
450					—						"	"	"	"	"	—			.5	100% med. gry latite	450-455	14191			30	<	.04	
455					—						"	"	"	"	"	—			tr.	DITTO tr. calcite	455-460	14192			20	<	.05	
460					—						"	"	"	"	"	—			tr.	DITTO	460-465	14193			15	<	.03	
					—						"	"	"	"	"	—			tr.	DITTO 5% dk. gry.	465-470	14194			15	<	.04	
470					—						"	"	"	"	"	—			tr.	DITTO	470-475	14195			20	<	.03	
475					—						"	"	"	"	"	—			tr.	DITTO tr. calcite	475-480	14196			10	<	.06	
480					—						"	"	"	"	7	—			—	DITTO	480-485	14197			20	2	.04	
485					—						"	"	"	"	6	—	<		.5	5% blk. volc.	485-490	14198			20	4	.04	
490																												

St Joe American Corp.
Southwest District

Project: Rosebud [illegible]
Co, State: Pershing Co. NV
Hole: 3
Completed: 10.30.82
Total Depth: 500'
Drill Type: reverse air
Collar Elev.:
Angle: vertical
Scale:
Logged by: H. Bidle
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Topaz % FeO	GOE	JAR	HEM	MnO	graphic min.	calcite	calcite	fract.	frag shape	silic.	qtz-xls vning	graphic alt			argillic	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
10					—						L	tr	M	SA	6	—					.5	100% gry latite tr. calcite	490-495	14199	<	<	20	2	.02			
495					—						L	tr	M	SA	6	—					.5	DITTO	495-500	14200	<	<	390	2	.05			
500																																

St Joe American Corp.
Southwest District

Project: RDSCDD 141.00 | Started: 10.31.82 | Contractor: [illegible]
Co, State: Pershing Co, NV | Completed: 11.2.82 | Drill Type: reverse circ. | Angle: vertical | Logged by: H. Bidle
Hole: #4 | Total Depth: 340' | Collar Elev.: | Scale: | Coord. N.: | E.:

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: TOTAL FeO	G	J	H	MnO	graphic min.	calcar.	calcite	fract.	frag. shape	silic.	qtz x ls. vns.	graphic alt.	epidote	Kspar	argillic	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
			80		35	2	-	8	-		M	L	NA	A.	7/4	-				L		over burden, QAL 70% dk. maroon water-lain tuff 5% white volc. 10% green tuff 15% brn. clay red/brn. mod. calc. powder	0-5'	14201	<	<	15	<	.02			
5			75		15	7	-	3	20% qtz.		M	15% vns.	NA	A/SR/SA	8/6	tr.		3 of grn. tuff		-		86% dk. maroon tuff, sil., calcite vning on surfaces 10% dk/med. grn. tuff bx, epidote (3%) 4% orange qtz. chips, MnO coating surfs. QAL	5-10	14202	<	<	10	<	.04			
10			80		10	6	-	4	-		M-L	5%	NA	A/SA	8	-				-		80% maroon/brn. tuff (as above) tr. lt. grn. tuff 20% red/brn. clay QAL red/brn. mod. calc.	10-15	14203	<	<	10	<	.05			
15			70		5	8	-	2	-		-	-	NA	A	8/8	-		2		-		75% maroon H_2O-lain tuff several lg. chunks 20% clay, red/brn. coating fract. surfs. 5% dk grn/gry tuff, min. epidote QAL red/brn. non-calc.	15-20	14204			10	<	.02			
20			65		7	8	-	2	-		-	-		A/SR	8/7	tr.		-		-		65% maroon tuff (as above) 15% blue/grn. tuff bx. tr. orange qtz. MnO stn. 20% clay lt. red/brn. non calc.	20-25	14205			10	<	.02			
25			75		3	10	—					—		"	"	2		-		M		73% maroon tuff 25% clay 2% orange qtz. chips tr. blue/grn. tuff bx QAL red/brn.	25-30	14206			10	<	.02			
30			80		tr.	10	—					—		"	8	tr.				M		70% maroon tuff tr. orange qtz. chips tr. blue/grn. tuff 30% clay rod stopped up with gravel chips, are too big " QAL	30-35	14207			10	<	.02			
35			60		3	10	—					—		A	"	2		-		M		5% lt. purple tuff 2% white qtz. chips 1% dk. grn. tuff tr. rounded dk green shale? 34% maroon tuff 2% limonitic tuff 1% blk. volc. 30% clay QAL "	35-40	14208			15	<	.03			
40			60		5	7	-	3			-			"	"	"				M		30% asst. tuffs, shales, qtz chips 40% maroon tuff 30% clay QAL 50/50 chips/powder	40-45	14209			25		.03			
			80		7	2	-	8	—		L	—	H	A	7	-				L		95% dk maroon/brn. tuf, sil. 5% clay red/brn. 95% chips 5% powder	45-50	14210			15		.03			
50			50		25	10	—		20%			—	L	A/SR/SA	7/5/6	tr.		-				20% dk maroon/brn tuff, clay on surfaces CONTACT 40% white rhy? 40% gray, grn tuff } FeO stned MnO dendrites tr. white qtz. chip med. gry 95% chips	50-55	14211			10		.03			
55			60		10	9	-	1	15%			—		"	"	"	tr.					5% dk maroon tuff 50% gray grn. tuff 45% white rhy? } broken to bits med. gry 95% chips	55-60	14212			10		.01			
60			50		10	10	—		25			—		"	A/SA/SR	8/6/5						60% grn. gry blue rhy? smooth surf. FeO stn. CONTACT 20% gray green tuff 20% white rhy? } MnO dendrites lt. gry/blue 90% chips	60-65	14213			<		.05			
65			50		10	8	-	2	20			—		"	A/SA/A/SA/SR	8/6/8/5	5%					20% dk. maroon tuff 50% gray green tuff - MnO dendrites 5% grn. gry blue rhy. 5% white qtz chips, FeO stn. 20% white rhy. - MnO dendrites lt. gry. 95% chips	65-70	14214			10		.04			
70																																

St Joe American Corp.
Southwest District

Project [illegible] | Started [illegible] | Contractor [illegible]

Co, State: Pershing Co. NV. | Completed: 11-2-82 | Drill Type: reverse circ | Angle: vertical | Logged by: H. Bidle

Hole: #4 | Total Depth: 340' | Collar Elev. | Scale | Coord. N. | E.

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Total FeOx	Goe	JAR	HEM	MnO	Graphic Min	calcan	fend	frag. shape	jaspe silic.	qtz vn, xlz.	graphic alt	epidote	calcite	kspar	argillic	Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
			70		5	10	—		25		L	L	SA	5	—		—					100% gry grn rhy? ↑ MnO; sl. calc. beige/gry 90% chips	70-75	14215	<	<	10	<	.03			
75			70		"	"			35		L	L	"	"	3%							DITTO qtz. vnlets; mod. calc. beige/gry 95% chips	75-80	14216			10		.02			
80			30		"	"			30		"	"			.5%							DITTO; hit water	80-85	14217			10		.04			
85			50		"	"			35		"	"	"	"	.5							DITTO 30% of sample is lighter green	85-90	14218			<		.04			
90			40		2	9	-	1	30		"	"	"	"	1							DITTO	90-95	14219			5		.02			
95			50		6	7	-	3	35		"	"	"	"	.5							DITTO	95-100	14220			10		.03			
100			60		2	10	-	-	30		"	"	"	"	—							100% gry green rhy? tr. white rhy?	100-105	14221			10		.02			
105			70		5	10	-		30		"	"	"	"	—							100% gry/grn. ↳ 20% is lighter green	105-110	14222			10		.03			
110			70		8	10	-		25		"	"	"	"								DITTO 30% lighter grn.	110-115	14223			10		.04			
			70		5	10	-		"		"	"	"	"								DITTO	115-120	14224			10		.04			
120			70		6	10	—		15		"	"	"	"								DITTO ↓ MnO	120-125	14225			5		.03			
125			60		8	10	—		5	—	"	"	"	6/4								85% gry/grn 15% white/beige, MnO, FeOxtn.	125-130	14226			10		.02			
130			65		7	10	—		10		"	"	"	"								30% lt. pink/pur. rhy 70% grn./gry rhy.	130-135	14227			10		.03			
135			65		10	8	—	2	10		—	L	SA	7/7	—							30% lt. pink/purple rhy. 60% grn/gry rhy. 10% pink/pur. rhy.	135-140	14228			10		.02			
140																																

St Joe American Corp.
Southwest District

Project: [illegible] | Started: [illegible] | Co, State: Pershing Co, NEV. | Completed: 11-2-82 | Drill Type: reverse circ | Angle: vertical | Logged by: H Bidle
Hole: #4 | Total Depth: 340' | Collar Elev.: | Scale: | Coord. N. | E.

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: Total FeOx	GoE	JAR	HEM	MnO	graphic min	calc	fract.	frag shape	bedrock slic	qtz. vn	graphic alt	epidote	calcite			Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au oz/t	Ag oz/t	As ppm	Sb ppm	Hg ppm	Cu		
			65		8	10	—		8	—	—	L	A/SA	8/7	—							15 med. gry rhy 10 gry grn. rhy 75 pink/purp. rhy	140-145	14229	<	<	10	<	.02			
45			60		7	10	—		10	—	—	L	A/SA	8/8	—							80% blue/gry rhy CONTACT 20% gry/grn. rhy, FeO stn.	145-150	14230			10		.03			
150			70		5	9	—	1	1		L	"	A/SA	8/8	—							85% blue/gry rhy. pink banding 15% gry/grn rhy, FeO stn.	150-155	14231			5		.04			
155			60		2	10	—		2	—	L	"	"	"	—			tr.				DITTO	155-160	14232			10		.06			
160			50		8	10	—		—		L	"	"	"	—							DITTO blue/gry has green stn. on surf. 98% blue/gry rhy 2% asst. other (pink, white, grn)	160-165	14233			10		.06			
165			60		3	"			2		L	"	"	"	—							DITTO	165-170	14234			<		.04			
170			70		"	"			2		"	"	"	"	—							DITTO 4% asst. other	170-175	14235					.04			
175			65		3	10			2		"	"	"	"	—							DITTO 3% asst. other	175-180	14236					.05			
180			60		3	10			2		"	"	"	"	—							greener blue/gry rhy 3% asst. other	180-185	14237					.07			
			75		3	10			2		"	"	"	"	—							more gray DITTO	185-190	14238					.06			
190			70		3	10			2		"	"	"	"	—							DITTO 1% other asst. (FeO, MnO stn.)	190-195	14239					.06			
195			65		—				—		L	L	A	7	—							DITTO Slow drilling	195-200	14240					.02			
200			60		—				—		"	"	"	"	—							DITTO	200-205	14241					.02			
205			60		—				—		"	"	"	"	—							DITTO	205-210	14242					.05			
210																																

St Joe American Corp.
Southwest District

Project: [illegible] | Started: [illegible]
Co, State: Pershing | Completed: 11-2-82 | Drill Type: reverse circ. | Angle: vertical | Logged by: H. Bidle
Hole: 4 | Total Depth: 340' | Collar Elev. | Scale | Coord. N. | E.

Depth	Rotary / Core: Size	Recovery	% Recov	Graphic Geology	ALTERATION and MINERALIZATION: TOTAL FeOx	GOE	JAR	HEM	MnO	graphic min	calcar.	calcite	fract.	frag shape	bedrk silic	qtz vn	graphic qtz.	epidote			Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au OZ/t	Ag OZ/t	As PPM	Sb PPM	Hg PPM	Cu		
			65		–				–		r	–	L	A	T	–						100% dk grn/blue/gray	210-215	14243	<	<	<	<	.02			
215			70					tr.			"	"	"	"	"							not very blue, mostly greenish gray tr. bright red Hem. stn., vnlets	215-220	14244					.03			
220			60								"	"	"	"	"							100% grn. gry rhy	220-225	14245					.06			
225			70					tr.			"	"	"	"	"							DITTO tr. hem. stn.	225-230	14246					.05			
230			70																			DITTO	230-235	14247					.04			
235			75																			DITTO	235-240	14248			<	<	.04			
240			70																			DITTO	240-245	14249			10	2	.04			
245			70																			DITTO	245-250	14250			<	<	.04			
250			75		7	8	–	2	2							–						25% purple/gry rhy. 75% grn./gry/blue rhy. minor FeO stn., MnO	250-255	14251			5		.07			
			75		5	9	–	1	1													15% purp/gry rhy 85% grn/gry/blue	255-260	14252			<	<	.07			
260			75		10	10	—		10													darker gry tr. purp/gry.	260-265	14253			10	2	.04			
265			75		3	10	—		3													back to blue/grn/gry 1% asst. other	265-270	14254			5	<	.01			
270			80		4	10	—		—													DITTO	270-275	14255			5	<	.04			
275			75		2	10	—		—													DITTO	275-280	14256	<.005	<.01	10	<	.01			
280																																

St Joe American Corp.
Southwest District

Co, State: Pershing Co. NV
Hole: # 4
Completed: 11·2·82
Total Depth: 340'
Drill Type: reverse circ.
Collar Elev.:
Angle: vertical
Scale:
Logged by: H. Bidle
Coord. N.: E.:

Depth	Rotary / Core: Size	Recovery	% Recov.	Graphic Geology	ALTERATION and MINERALIZATION: TOTAL FeOx	GOE	JAR	HEM	MnO	graphic min.	calcan.	calcite	fract	frag shape	bedrk slic.	qtz. vn	graphic alt.	epidote			Volume % Sulfides	GEOLOGIC DESCRIPTION	Interval	Sample Number	ANALYSES: Au OZ/t	Ag OZ/t	As	Sb	Hg	Cu		
			80		3	10	—	~			L⁻	—	L	A	7	—						dk gry/grn/blue rhy? minor FeO stn.	280-285	14257	<	<	10	<	.04			
285			75		1	10	—	—			L⁻	—	"	"	"							10% pink/pur. sil. tuff 90% dk gry/grn/blue rhy?	285-290	14258	<	<	10	<	.01			
290			75		tr	"	—	~			L⁻	—	"	"	"							DITTO	290-295	14259	<	<	10	2	.04			
295			80		tr.	10	—	—			L	—	"	"	"							DITTO	295-300	14260	<	<	10	<	.01			
300			75		2	10	—	—			L⁻	—	"	"	"							DITTO	300-305	14261	<	<	10	<	.05			
305			70		10	6	—	4			L⁻	—	L-M	A/SA	B/7	tr.						END OF 11·1·82 START 11·2·82 80% blue/gry rhy(?) 20% olive/grn gry tuff, pur/pink tuff tr. clear qtz. CONTACT	305-310	14262	<	<	10	<	.02			
310			75		15	10	—	3			L⁺	—	L	A	7				tr.			30% blue/gry 60% olive gry 10% asst. other } rhy(?) (pink/pur, pur, beige) ↑ FeO, MnO tr. epidote?	310-315	14263	<	<	10	<	.06			
315			80		17	10	—	8			L⁺	tr	L	A	7				1%			99% olive gry 1% blue/gry tr. white calcite broken to bits	315-320	14264	<	<	10	<	.02			
320			80		20	9	—	1	5		L⁺	tr.	"						1%			100% olive gry	320-325	14265	<	<	10	<	.06			
			80		16	10	—		5		L⁺	tr.										DITTO	325-330	14266	<	<	10	<	.01			
330			60		20	10	—		10		L⁺	tr.										DITTO tr. dk blue rhy. severe water problems	330-335	14267	<	<	10	<	.05			
335			60		15	10	—		5		L⁺	tr.										80% blue gry 20% olive gry T.D. = 340' water pressure too great.	335-340	14268	<	<	10	<	.01			
340				T.D.																													
345																																	
350																																	