

PRUETT INDUSTRIES, INC.
 8905 ROSEDALE HWY. BAKERSFIELD, CA. 93312
 (805) 589-2768 TELEX 4992440 PRUETT INT.

GL04738

SUB-SURFACE PRESSURE SURVEY

CO. CAITHNESS POWER		RUN 2A FIELD STEAMBOAT HILLS WELL 13-5 STRAT
EFF DEPTH		WELL STAT STATIC TOOL HUNG
CASING	-	CASING PRESS ON BOTTOM 9:45
LINER	-	TUBING PRESS OFF BOTTOM 9:55AM
DATE	060889	ELEMENT RANGE 0 - 1004 ZERO POINT MAT
ELEVATION		ZONE SHUT-IN
MAX TEMP		PICK-UP 2402' ON-PROD
PERF	-	CAL SER NO. 25146 MPP
TUBING	-	
UNITS	ENGLISH	PURPOSE STATIC PRESSURE GRADIENT

SURVEY DATA

CO. CAITHNESS POWER				RUN 2A FIELD STEAMBOAT HILLS WELL 13-5 STRAT			
TIME	DEPTH	P/T	GRAD	TIME	DEPTH	P/T	GRAD
1:00	20	0.0	0.000	1:00	1500	293.3	.403
1:00	500	0.0	0.000	1:00	2000	486.6	.387
1:00	780	3.5	.013	1:00	2402	641.4	.385
1:00	1000	91.8	.401	0:00	0	0.0	0.000

RUN BY T DRIVER / J HANEY

PRUETT INDUSTRIES, INC.
 8905 ROSEDALE HWY. BAKERSFIELD, CA. 93312
 (805) 589-2768 TELEX 4992440 PRUETT INT.

SUB-SURFACE TEMPERATURE SURVEY

CO. CAITHNESS POWER		RUN 02 FIELD STEAMBOAT HILLS WELL 13-5 STRAT
EFF DEPTH		WELL STAT STATIC TOOL HUNG
CASING	-	CASING PRESS ON BOTTOM 9:45
LINER	-	TUBING PRESS OFF BOTTOM 9:55AM
DATE	060889	ELEMENT RANGE 29 - 440 ZERO POINT MAT
ELEVATION		ZONE SHUT-IN
MAX TEMP		PICK-UP 2402' ON-PROD
PERF	-	CAL SER NO. 31 MPP
TUBING	-	
UNITS	ENGLISH	PURPOSE STATIC TEMPERATURE TRAVERSE

SURVEY DATA

CO. CAITHNESS POWER				RUN 02 FIELD STEAMBOAT HILLS WELL 13-5 STRAT			
TIME	DEPTH	P/T	GRAD	TIME	DEPTH	P/T	GRAD
1:00	20	57.0	0.000	1:00	620	130.4	0.000
1:00	40	57.0	0.000	1:00	640	133.6	0.000
1:00	60	57.2	0.000	1:00	660	136.9	0.000
1:00	80	57.6	0.000	1:00	680	139.8	0.000
1:00	100	58.2	0.000	1:00	700	142.7	0.000
1:00	120	58.7	0.000	1:00	720	146.3	0.000
1:00	140	59.7	0.000	1:00	740	149.8	0.000
1:00	160	60.5	0.000	1:00	760	153.2	0.000
1:00	180	61.4	0.000	1:00	780	156.5	0.000
1:00	200	62.9	0.000	1:00	800	159.7	0.000
1:00	220	64.6	0.000	1:00	820	162.6	0.000
1:00	240	65.4	0.000	1:00	840	165.6	0.000
1:00	260	67.5	0.000	1:00	860	168.0	0.000
1:00	280	69.4	0.000	1:00	880	170.2	0.000
1:00	300	71.7	0.000	1:00	900	172.8	0.000
1:00	320	74.9	0.000	1:00	920	176.0	0.000
1:00	340	78.3	0.000	1:00	940	179.4	0.000
1:00	360	81.2	0.000	1:00	960	182.4	0.000
1:00	380	84.4	0.000	1:00	980	184.8	0.000
1:00	400	89.3	0.000	1:00	1000	187.2	0.000
1:00	420	92.7	0.000	1:00	1020	189.8	0.000
1:00	440	97.1	0.000	1:00	1040	193.0	0.000
1:00	460	101.1	0.000	1:00	1060	195.0	0.000
1:00	480	105.7	0.000	1:00	1080	197.0	0.000
1:00	500	110.2	0.000	1:00	1100	199.6	0.000
1:00	520	113.2	0.000	1:00	1120	202.8	0.000
1:00	540	116.9	0.000	1:00	1140	205.8	0.000
1:00	560	120.2	0.000	1:00	1160	209.0	0.000
1:00	580	123.7	0.000	1:00	1180	211.6	0.000
1:00	600	127.3	0.000	1:00	1200	213.9	0.000

SURVEY_DATA

CO. CAITHNESS POWER

RUN 02 FIELD STEAMBOAT HILLS WELL 13-5 STRAT

TIME	DEPTH	P/T	GRAD	TIME	DEPTH	P/T	GRAD
1:00	1220	216.3	0.000	1:00	1820	310.5	0.000
1:00	1240	218.9	0.000	1:00	1840	313.9	0.000
1:00	1260	221.7	0.000	1:00	1860	317.6	0.000
1:00	1280	224.5	0.000	1:00	1880	320.8	0.000
1:00	1300	227.3	0.000	1:00	1900	323.9	0.000
1:00	1320	230.3	0.000	1:00	1920	326.5	0.000
1:00	1340	232.7	0.000	1:00	1940	330.2	0.000
1:00	1360	235.8	0.000	1:00	1960	334.0	0.000
1:00	1380	238.8	0.000	1:00	1980	338.3	0.000
1:00	1400	241.8	0.000	1:00	2000	342.4	0.000
1:00	1420	244.6	0.000	1:00	2020	346.2	0.000
1:00	1440	247.8	0.000	1:00	2040	349.9	0.000
1:00	1460	251.0	0.000	1:00	2060	353.2	0.000
1:00	1480	253.2	0.000	1:00	2080	356.7	0.000
1:00	1500	256.4	0.000	1:00	2100	359.3	0.000
1:00	1520	258.2	0.000	1:00	2120	362.4	0.000
1:00	1540	261.4	0.000	1:00	2140	365.3	0.000
1:00	1560	264.2	0.000	1:00	2160	368.3	0.000
1:00	1580	267.6	0.000	1:00	2180	370.8	0.000
1:00	1600	271.8	0.000	1:00	2200	373.3	0.000
1:00	1620	275.0	0.000	1:00	2220	376.8	0.000
1:00	1640	278.6	0.000	1:00	2240	380.5	0.000
1:00	1660	282.0	0.000	1:00	2260	384.2	0.000
1:00	1680	285.7	0.000	1:00	2280	386.9	0.000
1:00	1700	289.3	0.000	1:00	2300	389.8	0.000
1:00	1720	292.9	0.000	1:00	2320	393.2	0.000
1:00	1740	296.8	0.000	1:00	2340	396.1	0.000
1:00	1760	300.4	0.000	1:00	2360	399.2	0.000
1:00	1780	304.0	0.000	1:00	2380	401.5	0.000
1:00	1800	307.3	0.000	1:00	2402	405.6	0.000

RUN BY T DRIVER / J HANEY



CAITHNESS POWER
STEAMBOAT HILLS
13-5 STRAT
6/8/89
STATIC TEMPERATURE TRAVERSE

2402'

TEMPERATURE (F)

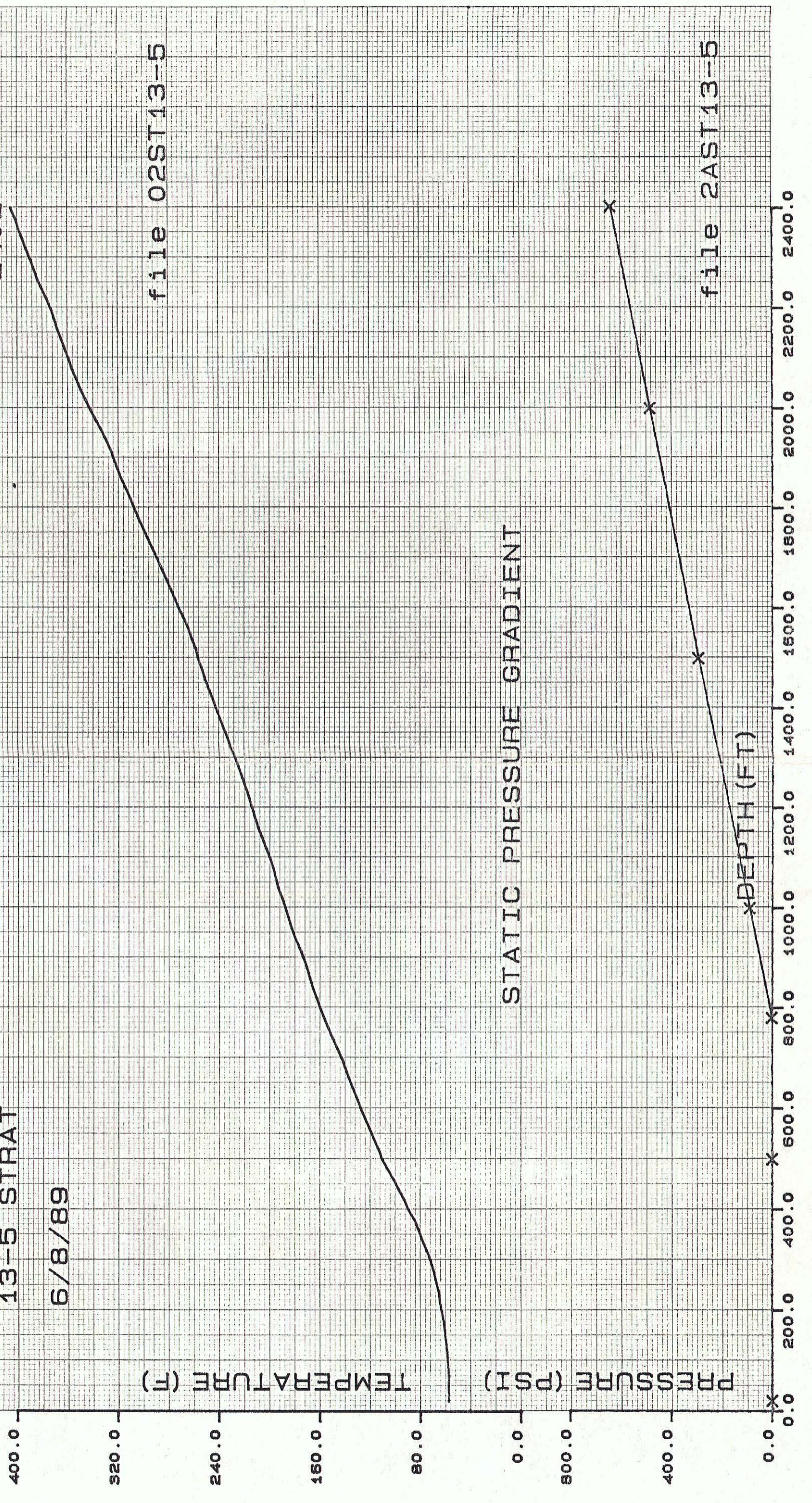
file 02ST13-5

PRESSURE (PSI)

STATIC PRESSURE GRADIENT

file 2AST13-5

*DEPTH (FT)

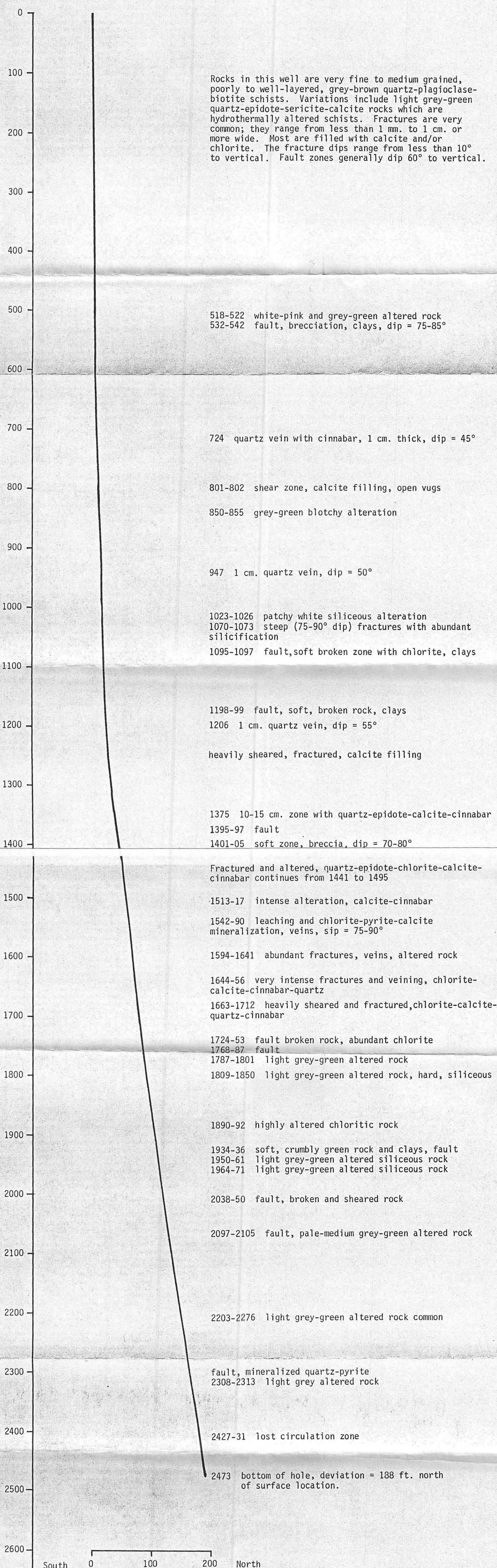


STRATIGRAPHIC TEST # 13 - 5

STEAMBOAT HILLS, NEVADA

Sec. 5, T17N, R20E

Elevation 5660'



ST-13-5

Nov. 28, 1988.

Cores 304-314' Grey-brown mafic rock -
appears altered - commonly soft w/ Fe-staining - due
to weathering?

fractures common, dips = 50° , $2-85^\circ$,

323-325' Dark brown - grey metamorphic rock
heavily sheared / fractured, 40° , 50° ,

Calcite common in these fractures, a few small vugs
(1-2 mm oval openings (eyes)). Most filled fractures
are $< 0.1 - 2$ or 3 mm. wide.

$40-50^\circ$ dips may follow compositional layering (foliation).

CORE 518-542'

518-22 Hard, lt. grey-green, white + pink siliceous rock - likely was sheared and permeated with silica-rich fluid

522-542' Hard, dark grey-brown, v. f. grained metamorphic schist -

depths are approximate

518-519' - firm, tight rock - low angle and v. steep fractures
 519-520' Core broken into angular pieces - calcite on fractures (<1-3 mm thick (ct. filling in fracs.) - One core piece - mostly calcite, min thickness = 5 cm.

520-521' - firm, tight rock. 520.3', low angle (15-15°) fracture w/ ct + brown cinnabar(?)^{alt} vertical frac. w/ ct.

521' - 521.5' - Broken rock, major fracture w/ 40-60° dip, chlorite in fracture

521.5-532' - Generally, tight, firm rock - broken along flat fracture planes, fracture dips = 40, 50°, 45°, 20°
 50°, 70°, 60°, 85°, 87°, at least 2 sets which intersect (joints/fractures)
 87° w/ chlorite, slickensides, 60°, 35°, 83°, 55° w/ Red-brown clays

All fractures (joints) appear to be <1 mm wide - little void space. Near-vertical fractures follow core for 20' ±

ST 13-5

NOV. 28, 1988

532 - 542 ±

Steep fractures w/ calcite filling dominate this interval. Entire system of fractures has been cemented with calcite.

Steep fractures dip $75-85^\circ$, 88°

2nd set dips 35° , $7-8^\circ$

Fracture widths $< 0.1 - 5$ mm, most 1-2 mm or less

Rusty Fe-stain common in fractures, minor cinnabar-dk brown-red.

Part of this interval is badly broken due to intense fracturing and clay set'n - (fault zone?). Much of rock appears mylonitic

T.S.
6745

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DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
646-712	Brownish-gray f-med gr. metamorphic rocks.	chl, ct	<1mm - 2mm	35, 35, 20, 80, 10,
	Earlier episode of steep-moderate angle fracturing with qtz-ct-ep.			25, 30, 5 30, 45, 85
	filling cut by later. 45-90° fracs. w/ calcite filling. Clay in some cracks			90, 10, 5, 35
712-719	Rocks as above but broken extensively. Clay in fractures.	fault zone?		
724	Quartz vein	qtz, ct cinn	1cm.	45°
719-752'	Gray-Brown mmplics as above 1-4' competent, then 1-3' broken rocks.	chl, ct	<1-3mm	10, 30, 25, 80 55, 55, 90, 25,
752'-775	Brownish-gray f-med gr. mmplic rock - abt. alteration along fractures (now tight) and in matrix. minor Fe stain = pyrite?	qtz, chl ct ± py?		55, 10, 25, 50, 5, 85, 90 80, 75,
	Later veining with calcite & chl along high angle shears, fracs.	chl, ct.	4-5mm	55, 20
775-800'	Brownish-gray f-med gr. mmplic rocks. Rare early siliceous alt'n. Most fractures have ct-chl fillings. 1-3' zones heavily broken. 2-4" sections competent w/ fractures spaced 2-20 cm.	ct, chl	<1-1cm mm	5, 15, 85 35, 65, 0, 10, 90, 40, 50,
	801-802 = shear zone dip = 65-70°. open vngs.	ct.		

DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
877-955'	Gray-brownish gray ms/mv. 880-882 - lt. gray zone - prob. altered (leached)	ct, chl. (generally v. little or no chl)	<1-5mm	vert. ± 5, 20, 80 55, 45, 85, 55
				70, 50
	Quartz vein @ 947'		1cm	50°
955-960	As above, moderate fracturing	ct	<1-3mm	5, 15, 85 15, 65
960±-990'	Rock similar to above, but common vertical fracturing. Also low angle fractures v. difficult to find compositional layering in these rocks.	ct	1-5mm	85-90° dominant 10, 8°, 25 12°
990-1023	Normal dk gray to gray-brown metamorphic rock, variably fractured - generally v. hard and tight.	ct	<1-2mm	80, 35, 40 85-90° 35, 40, 60, 70
1023-1026	patchy white silicified rock, calcite in vein / fractures	ct	1-8mm	
1026-1058'	similar to 990-1023', tight fracture. c. gr. biotite-rich rock 1045-1053' = mylonitic (or steep comp. layering w/ dip = 60-75°)	ct	4-3mm	82, 25° 20, 10 75, 55
1058-1070'	As above			85, 50, 15
1070-1073'	Steep fractures w/ abt silicification (tight)	ct, silica cp, chl, cp,	5-20mm	75-90°
1073-1111'	c. gr. meta volc. med grey, fractured frags 2-20cm apart in vertical dimension	ct, chl	<1-5mm	70-90° 10, 20, 50, 35, 20, 30, 85°
	1095-97 soft, broken zone, chl, clays			

Dec, 14, 1988

DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
1111- 1165	med - c. grz gray to dk grey-brown meta-tuff (?)	ct, chl.	<1-4mm	85-90° 50, 10, 35 25
1165 -1249	med - dark grey-brown metamorphic rock f-m. grz. 1205-11, lighter zone = 40-50° dip layers, 12106 - 1cm qtz. vein 1198-99 - broken zone, soft, ct, clays	ct, chl	4-5mm	50°, 40° 20, 20, 80° 30°, 65, 10, 55°
1249- 1285	metamorphics as above but heavily sheared, fractured, & filled with ct, qtz, ep, cinn.	ct,	<1-5mm	60°, 90° 5°, 35°, 25° 45, 75, 55
	1274-75 - extensive chl & ct in close spaced fractures		20-30cm zone	75°
1285-95'	Less fractured than above, med-dk grey-brown mmphic rocks.			44, 55, 75, 80-90° 10° 70°

DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
1296-1348	"Normal" grey-brown metabole-metased. fractures at 2-40 cm intervals.	ct/chl.	4-3mm	25, 15, 75 35, 75, 50° 35, 70, 40, 45, 20, 75°
1348.5-1372	"Normal" grey-brown metased-mv. with common fractures - these are 1-2 to 30 cm apart	ct/chl	<1-7mm	50, 70, 25, 30, 70, 70, 85-90
1372-74	Tan c. gr. biotite bearing rock may be a felsic tuff (meta) or felsic like	ct/chl.	1-5mm	75, 45
1374-1393	grey-brown mv. w/ few fractures	ct/chl	<1-4mm	
* 1375'	10-15 cm zone w/ sifep-ct-cinn. host rock bleached on either side			

DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
1507	grey-brown mv 1-2 mm bio or frac. surf.	ct, chl	2-3 mm	67°
1507 1/2	" "	ct, chl	2-4 mm	45°
1508	grey-brown mv.	ct, chl.	2 mm	50°
1509	" "	ct, chl.	2-3 mm	55°
1510'	" " 0.5-1 cm. wide zone of fractures	ct, chl.	1-3 mm	73°
1510-11'	" "	ct.	1-2 mm	85°
1512-13'	" " slickens @ 22° above horizon steep fracture w/ red cinn.	ct, chl	3-10 mm	85°
1513-17'	Zone of intense alt'n - lt. grey silicified(?) rock w/ ct-cinn. no sulfides noted			
1519'-20	grey-brown mv. fractures common	ct, chl	1-3 mm	80°/55°/68°
1521-22	" "	"	1-3 mm	80°/45°/75°
1517-18	mv " " 65° offset by 40° which is offset by 80°	"	1-2 mm	
1523'-25'	mv-grey-brown qtz, c. musc @ vf sp. 1524 ±	ct, chl	1-2 mm	72°/60°/85° 50°
1526 ±	mv w/ c. qtz. vein or lens. @ 1526			
1528-29	grey-brown mv. (1529' T.S.)	ct-chl	1-5 mm	85°/35° 55°

DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
1533-1542	vf-f.gr. metamorphic rock as above hard, tight. few fractures	ct, chl	<1-2mm	
1542-1590	Rocks as above with leaching - patchy and chl-py-ct alt'n (mineralization) in patches along shears, some rusty Fe staining. 1966 slickensides @ 60-70° from horizontal	ct, chl, py (si?)	<1-4.5mm	45°, 35° 60°, 55°, 75° 85°, 10, 20, 75°, 60°, 5°
1593-4	large ct vein w/ open vugs - dense lining. Dips 75° other fractures also mineralized	ct, chl.	2-15mm	75°, 5, 60 85-90°, 45 10, 25,
1590-94	Lightly fractured metamorphic rock, no alteration patches	ct, chl.	4-3mm	
1594-1641	Similar to 1542-90 interval w/ steep fractures + joints w/ leached, mineralized patches + veins. 1625- slickensides w/ cinnabar	ct, chl cinn.	2/1-2cm mm	80°, 80°, 50° 40, 85, 40 25 85
1641-1656	as above but more intense mineralization (more mafic host rock?)	chl, ct, cinn, py	<1-2cm mm	85°, 20, 30, 75,
1656-1663	less altered and mineralized than above, similar to 1650-41 interval with fractures and patchy alt'n	ct, chl si, cinn	<1-0.5cm mm	11
1663-1712	Heavily sheared + fractured rock, very chloritic, Intense mineralization.	ct, cinn, si, chl,	<1-2cm mm	75-90, 10° 15, 20, 80 35°, 90°
1712-1718t	Much less altered rock than above interval, still fractured and common chloritic alteration.	ct, chl. si, minor cinn.	<1-5mm	5, 60°, 40 87°, 20, 35° 25°

35
*

15
75

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DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
1718- 1724'	lt-med grey altered felsic (?) meta sed with tight healed fractures, abt. mineralization. v. chloritic intervals with horiz. + steep slickensides.	ct, chl, cinn.	< - 10 mm	75, 40, 90° 60°
1724- 1753'	more mafic meta-rock - v. chloritic heavily sheared, some badly broken 6-12' intervals - fractures as above	ct, chl,	< - 3 mm	--- " -
1753- 1768'	s. slightly less mafic dk grey-brown vf-f.gr. meta volc/meta sed. - chlorite on fractures + shears common. 75 dips Altered zone 1754-55, bleached. slightly maggy, mineralized. minor Hg. min. on a few fractures	ct, chl (cinn.) ct, chl. qtz.	< - 5 mm	30°, 50°, 70° 60, 85, 90 30° 70°
1768- 1787	similar to 1753-68', fairly mafic rock w/ abt chlorite + serp (?) alt'n on fractures slickensides = horizontal to steep dips sparse v.f. py. in matrix	chl, serp, ct.	< - 8 mm	45°, 75° 20°, 80°, 40° 20°, 55°, 30° 85°, 75°
1787- 1801	light grey-green - med-dk grey rock - altered, tight veined fractures mostly rather felsic rock locally some brown-red cinnabar	ct, chl, cinn, qtz.	< - 5 mm	80°, 30°
1801- 1809	dark grey-brown v.f. gr. metam. rock - vein of coarse qtz-feld-sp-py about 1-1.5 cm. thick.			80-90
1809-1850	light grey-green felsic, qtz-rich rock as above (1787-1801) with intervals up to 2-3' of darker grey-brown quartzose micritic rock. - some of this has patchy pale green-grey alt'n.	ct, chl		65°, 25°, 30° 50°, 60°, 70° 40° 25°

DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
1844'	Compositional layering - pale grey-green ^{meta} pyroclastics (?) underlain by dark grey-brown myofic rock			55°
1850 - 1881	Dark grey-brown metabole/metased. v. hard, v.f. - fig., competent. little alteration akin to above, fractures 1cm. — 20 cm apart. Rare matrix pyrite, some microporphyratic rock	ct, chl.	<1 - 5mm	65°, 50°, 65° 25°, 50°, 50°, 75°
1881 - 1890'	Rocks similar to above but with steep dipping fractures - spaced <1-10cm apart. Tight, ct sealed fractures 1890 - some of this rock is c. gr. (1882')	ct, chl. some cinn.	<1 - 4mm	60°, 75° 70°, 45°
1882-84 - shewing yielding comp. layering 1890-92'	highly altered rock w/ chl, cinn. fractures tight.	chl, ct, cinn.		75°
1897'	10-15 cm. zone similar to 1890-92'	"		45° 85°
1892 - 1916'	Dark grey-brown metabole. w/ common dk green chl. (+ ser.) on fractures and shear faces.	ct, chl.	<1mm - 1.5cm.	45, 90, 35° 55° 85° 50°
1916 - 1928	Rocks as above but more intensely sheared w/ fracs <1 - 10cm. apart	ct, chl.	<1 - 8mm	
1928 - 1934	Dark grey-brown myofic rock as above less fractured - 10-20cm ^T spacing of fractures. 1922-23	cinn. ct, chl. ct-chl cinn.	<1 - 5mm	30, 75, 10 20, 65 85°, 35°
1934 - 1936	Soft crumbly green rocks + clays - + chl, calcite			
1936				

Dec. 21, 1988.

DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
1936 - 1950'	med-dk grey-brown meta-volc/meta- sed. vt-f. gr. fractures 10-20cm apart, few with vein filling - most some are barren joints.	ct + chl	< 1-2mm.	10°, 65° 45°, 70° 45°, 45°
	1949 1/2 - 1cm zone of alt. - c. gr. chl - feld - Qtz. - clin.			

12/29/88

DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
1950 - 1958	lt-med grey vf-fgr, metam. fractures w/ alt'n. tight adjacent fractures 10-30 cm apart	chl chl+ct cinn	<1-2mm	50, 20 30, 75
1958 - 1961	pale grey-green silicified(?) rock sheared at steep angles (60-70°)	chl-ct- cinn	<1-2mm	55, 50 70, 60 50,
1961 - 1964	Med-dk grey-brown metamorphic vf-f. gr.	chl-ct	<1-3mm	50, 60 45,
1964 - 1971	Med-pale grey-green mmplic w/abt bleaching alt'n.	chl, qtz, ct, ep	<1mm - 2cm.	65, 10
1971 - 1997	med-dk grey-brown mmplic dk-grey to black also. Fractures common, spaced about 1-10cm apart Thickest veins are steep dipping generally.	chl, ct	<1-2mm	35, 45, 70, 50, 45, 55, 75, 60, 10, 70, 60, 75, 20, 25
1997 - 2005	Rocks similar to above but more broken w/ abt. chl + ct.	chl, ct.	<1-4mm	50, 25, 45
2005 - 2032	Grey-dk grey-brown mmplic - f-vf.gr., little visible structure or layering.	chl, ct	<1-2mm	85, 45 50, 60, 80
2016	Steep vein in mmplic. rock chl. at margin, white-buff qtz- calcite filling no cinnabar.	ct, qtz,	1-3cm	60, 50, 5
2032 - 2050	Med-dk grey + grey-brown metamorphic rock with intense fracturing (<1-5cm spacing) and alteration, common chl-ct-qtz vein filling as above. 2038-2050 - Badly broken + sheared common slicken sides	qtz-ct- chl.		70, 15

Steep fractures have the thickest veins.

DEPTH	ROCK DESCRIPTION	FILLING	WIDTH	DIP
2050-2080	med-dk grey-brown, vf-f.gr. mmplic - much more competent than above. fracture spacing = 5-20 cm.	chl, ct	<1-3mm	45, 55 40, 45, 35, 50, 85, 50, 40, 35, 45, 45 45, 20, 45,
2080-2097	Rock as above but highly altered by shearing, leaching, and mineralization. Red-brown cinnabar common on slickensides from horiz to vertical. fracture spacing = <1-20 cm.	chl-ct-cinn.	<1mm-1cm.	75, 25, 10 70, 50, 40, 45, 45, 35, vertical 25, 5, 25
2097-2105	Pale-med. grey-green chloritic rock highly sheared	chl, ct	<1-5mm	45, 35, 50, 25
2105-2128	med-dark grey-green-black rock w/ abt chlorite, fractures spaced <1-10cm apart.	chl-ct	<1-5mm	70, 5, 20, 50, 25, 55, 60, 35,
2128-2182	med-dk grey-brown vf-f.gr. metamorphics, much more competent than rocks above. fractures 1-30/40cm apart.	chl, ct.	<1-2mm	50, 55 55, 80, 15, 75, 90,
2182-2203	Dark grey-black-brown vf-f.gr mmplics. Generally competent rock fracture spacing = 5-40 cm.	chl, ct	<1-5mm	80, 90, 90, 45 45, 30, 45 70, 55, 60, 80, 40, 40
2203-2276	Rocks as above but variably altered - bleaching, qtz veins, siliceous alt'n. Intervals up to 4-5' altered, in between lightly altered to fresh. Pale grey-green altered areas related to 20-30° dipping fractures (now v. tight)	chl, ct qtz.	<1-1cm mm	65, 20, 30, 80 15, 15, 30, 30, 65, 55 70, 30, 25, 60, 65, 45 50, 65, 65, 15

TS
2080

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S:
2103

S:
2168

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later, hydrothermal solutions brought in calcite and cinnabar - (2224-30" ±) along steeper fractures (70, 65, 80)

