6L01093

Memorandum

San Francisco, CA
February 1, 1978

SAN EMIDIO
1977 TEMPERATURE HOLE PROGRAM

During 1977 Chevron Resources conducted numerous temperature hole programs in the San Emidio Desert Prospect, Nevada. These programs were projected to evaluate recently acquired Fee Land and acreage which could be included in a unit package.

The 1977 temperature holes (Map 1) were drilled to a maximum depth of 500 feet with a minimum of 100 feet. Maximum temperature encountered in these holes was 232°F with an average gradient of ≈ 9°F/100' (300-400') and ≈ 11°F/100' (100-200'). In addition, shot holes drilled during the seismic program had temperature pipe installed and were also logged. Table 1 reflects data pertinent to the temperature holes drilled in 1977; in addition, complete temperature gradient plots (Appendix A) and lithology descriptions (Appendix B) are included in this report.

Water samples from two temperature holes were collected early in the 1977 program and analyzed by Skyline Laboratories (Appendix C). The results of the estimated base temperature calculations are:

Hole 1-A-77 (a twin of 1-77); water temp. 127°F; Spec. Cond. 6560 micromhos; T.D.S. 4,300 ppm; Na/K = 346°F; Na/K/Ca = 386°F; SiO_2 Max steam loss = 302°F, Min steam loss = 314°F.

Hole 2-77 Water temp 78°F; Spec. Cond. 4,300 micromhos; T.D.S. 3,000 ppm; Na/K = 61°F; Na/K/Ca = 119°F; SiO_2 no steam loss 71°F.

During 1977 a seismic survey was conducted in the prospect area during this survey. Chevron representatives Bob Balner and I ran thermometers in numerous shot holes along the shot point lines (Map 2) to determine the maximum temperature in these holes (Appendix D).

Currently, additional temperature holes are being completed, and Mr. R. W. Butler will complete a final report of this prospect.

MARK KEHOE

MK:fm
Attachments

TABLE 1

SAN EMIDIO 1977 TEMPERATURE HOLES

	T.D.(ft)	°F @ 100'	°F @ 200'	°F/100' (100-200')	°F @ 300'	°F @ T.D.	°F/100' (300-400')
SE-1-77	419	140.2	157.3	17.1	167.8	156.4	reversal
SE-2-77	491	71.4	77.4	6	84.4	97.9	7.8
SE-3-77	492	95.0	101.2	6.2	109.9	127.3	10.5
SE-4-77	491	67.6	78.4	10.8	89.3	109.3	10.4
SE-5-77	421	92.3	103.3	Isothermal	101.5	115.9	10.9
SE-6-77	492	78.4	85.7	7.3	97.6	118.9	11.5
SE-7-77	415	68.7	75.5	6.8	82.1	89.3	6.2
SE-8-77	100	232.1	E 240			232.1	
SE-9-77	180	124.7	E 154			152.8	
SE-10-77	210	125.8	145.5	19.7		146.8	
SE-11-77	211	71.8	80.1	8.3		81.0	
SE-12-77	120	228.2				228.7	
SE-13-77	207	137.1	164.7	27.6		166.0	
SE-14Sh-77	146	121.7				148.9	
SE-15Sh-77	125	76.2				79.8	
SE-16Sh-77	35					161.9	
SE-17Sh-77	42					139.8	
SE-18Sh-77	58					178.2	
SE-19Sh-77	80					70.0	

R = reversal on T-Z profile

|—| = isothermal or reversal

-- = no data

( ) = TG Turn over T-Z

E = estimated

T hole #	Z	°F/100ft 100/50	°F/100ft 200/100	°F/100ft 300/200	°F/100ft 400/300	°F/100ft 500/400	°F 100'	°F/200'	°F/300'	°F/400'	°F/500	Comments
1-77	419	13	18	E18	|—|	—	140.2	157.3	R	R	—	R ~ 270'
2-77	491	7	7°	7°	7°	7°	71.4	77.4	84.7	92	99	
3-77	492	16	7	6.8	11.2	11.2	95	101.2	109	120	131.8	
4-77	491	10.7	10.7	10.7	10.7	10.7	67.6	78.4	88.4	99	119.5	
5-77	421	32.6	|—|	|—|	13.8	E13.8	92.3	R	R	105.5	E127	R ~ 135 picks
6-77	492	11	8.0	11.3	11.3	11.3	78.4	86.2	97	108.5	119.9	up ~310'
7-77	415	8.2	6.2	6.2	6.2	E6.2	69.5	75.7	82.2	88.7	E95	
8-77	100	E184 80'/30'	—	—	--	--	(232.1)	—	—	—	—	( ) @ 75'
9-77	180	56	25	--	--	--	125.8	(E154)	—	—	—	( ) @ ~160'
10-77	210	46	18.5	--	--	--	125.8	(145.5)	—	—	—	( ) @ 100'
11-77	211	9	9	—	--	--	71.8	80.1	—	--	--	
12-77	120	72	|—|	--	--	--	228.2	--	—	--	--	( ) @ ~90'
13-77	207	78	24.5	--	--	--	137.1	(164.7)	--	--	--	Picks up @ 120'
14SL-77	146	35	E88	—	—	--	122.0	—	—	—	--	
15SL-77	125	14.0	--	—	—	—	76.4	--	—	—	—	
16SL-77	35	--	--	--	--	--	—	--	--	—	--	
17SL-77	42	--	--	—	—	—	—	—	—	--	--	
18SL-77	58	—	—	—	—	—	—	—	--	--	--	
19SL-77	80	12.4	—	—	—	—	E72.6	--	—	—	—	
3-74-1	212'	77	40	—	—	—	180°	222°	—	—	—	
3-74-3	78	50	—	—	—	—	274	--	—	—	—	
3-74-4	421	37	21.8	12.5	12.5	—	130	149.5	162.5	171.5	--	
3-74-5	208	5.1	5.1	—	—	--	64	69.5	--	--	--	
3-74-6	485	4.2	4.2	4.2	4.2	E4.2	63	68.8	71.4	75.5	79.9	
3-74-8	160	2.8	E2.8	—	—	—	59	E61.8	--	--	--	
3-74-9	89	E5.0	—	—	--	—	E67.9	--	—	--	--	
3-74-10	120	2.6	—	—	—	—	59.9	—	—	—	—	
3-74-12	450	1.0	1.0	2.7	2.7	E2.7	58.7	60	62.7	65.4	68	
3-74-13	212	E7.8	7.1	—	—	—	76.8	84	—	—	--	
3-74-14	375	2.5	2.5	2.5	E 2.5	—	57.8	60.5	62.7	E65.3	—	

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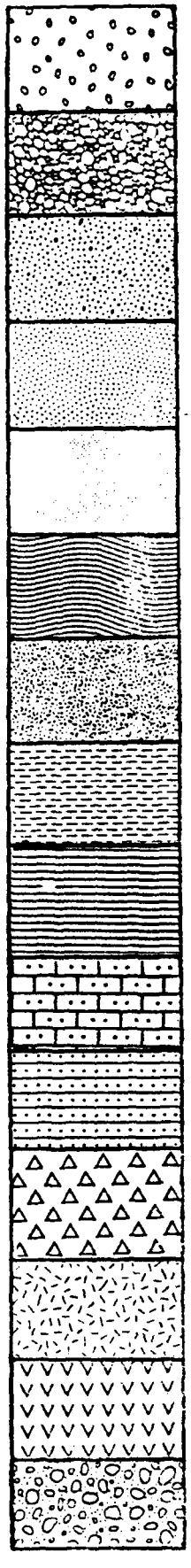
MARK KEHOE

MK:fm
Attachments

T hole#	Z	°F/100ft 100'	°F/100ft 200'	°F/100ft 300'	°F/100ft 400'	°F/100ft 300'	°F100'	°F200'	°F300'	°F400'	°F500'	Comments
3-74-20	272	5.6	5.6	E5.6	—	—	63.9	70.4	E76.8	—	—	
21-78	496	1.9	1.9	1.9	1.9	3.2	59.1	60.1	63	65.2	69	TG picks up @ 400'
22-78	428	5.2	3.5	3.5	3.5	E3.5	65	69.5	73.2	76	—	
23-78	496	7.2	4.1	4.1	4.1	4.1	72.8	77.4	81.5	85.3	E89.6	
24-78	445	5.2	5.2	4.2	4.2	4.2	67	71	75.3	79.8	E83.8	
25-78	378	4.2	4.2	4.2	4.2	4.2	63.1	67.5	71.8	E75.8	—	
26-78	496	5	5	5	3.5	3.5	58.9	63.6	68.9	72.9	76.5	
27-78	495	5.8	5.8	5.8	5.8	5.8	64.4	70.7	75.9	82.1	88	
28-78	413	9.7	9.7	(3.5)	(3.5)	—	82.0	91.6	(96.3)	(98.7)	—	Turns over & isothermal @ ~2
29-78	495	6.3	6.3	6.3	6.3	6.3	70.2	75.8	82.2	88	93.9	
30-78	455	5.4	5.4	5.4	3.2	E3.2	61.9	67.1	71.3	74.4	E77.4	
31-78	267	6.2	3.3	E3.3	—	—	65	70.2	—	—	—	
32-78	495	5.6	6.3	6.3	6.3	6.3	69.5	75.8	83.0	89.5	96	
33-78	496	7.0	4.6	4.6	4.6	4.6	66.9	71.7	76.1	80.7	84.8	
34-78	477	6.1	6.1	6.1	6.1	6.1	67.1	73.5	79.8	85.3	E92	
35-78	482	5.9	5.9	5.9	4.9	E4.9	67.0	73.4	78.9	83.7	E88.6	
36-78	435	5.2	5.2	5.2	5.2	5.2	63.1	68.3	73.8	79.0	E84.3	
37-78	497	5.6	5.6	4	4	4	64.1	69.7	74.2	78.1	82.4	
38-78	356	6.2	6.2	6.2	E6.2	—	67.5	73.8	79.4	E85.7	—	Kick 80-100'
39-78	497	5.5	5.5	5.5	5.5	5.5	66.7	71.5	76.9	82.7	88.6	Kick @ 90'-100'
40-78	494	5.2	5.2	5.2	5.2	5.2	64.7	71.2	75.4	81.0	86.4	Kick 120-200
41-78	497	6°	5.3	5.3	5.3	5.3	66.6	71.7	77.2	82.7	87.4	
16-242-78	490	13.8	12.0	12.0	12.0	12.0	80.3	93.2	106.1	118.2	E129.5	
15-343-78	397	10.9	10.9	3.5	3.5	—	75.2	85.1	(89.0)	(92.7)	—	Turns over @ 200'
15-444-78	368	5.0	5.0	5.0	E5.0	—	69.9	74.5	79.3	84	—	
SED-1	320	7.6	7.6	5.5	E5.5	—	65	72.6	78.8	—	—	
SED-2	470	3.5	3.5	3.5	3.5	3.5	54.8	59.8	63	66.3	69.4	
SED-10	200	5.8	E4.8	—	—	—	117	119				R @ 100' picks up@16
SED-11	320	2.2	⊢⊣	⊢⊣	⊢⊣		209.4	R	R			R @ 120', 255'
SED-12	300	0.6	0.6	3.0	—	—	61.7	61.7	64.6	—	—	⊢⊣ between 50'-~200
SED-13	350	4.8	4.3	4.3	E4.3	—	73.1	77.4	81.6	86.5	—	⊢⊣ @ 100' - 160'
16-145-78	482	52	⊢⊣	⊢⊣	E19.3	19.3	197.5	R	⊢⊣	137.3	156°	R@100',isothermal @28
15-146-78	460	8.2	6.7	6.4	7.4	E7.0	71.3	78.0	84.4	91.8	E98.5	Picks up @360
22-347-78	362	6.2	6.2	4.1	E4.1	—	69.6	75.6	80.1	E84.2	—	
48-78	360	7.0	5.1	5.4	E5.4	—	68.1	73.2	78.6	E83.9	—	kick @70' 50-100'gra
49-78	340	6.4	4.3	3.9	—	—	67.9	72.2	76.1	—	—	kick @70' 50-100' e
50-78	70'	E57.1					E280	—	—	—	—	gradient
51-78	416	10.5	8.5	8.5	9.5		73.3	82.2	91.2	101.3	—	
52-78	320	6	3.9	3.1	—		66.7	70.6	73.7			
53-78		247	7.2	4.6	4.6(E)		71.0	75.6	79.6(E)			
SE-A	495	5.2	7.5	8.4	77	9.8(E)	79.0	86.54	95.0	102.6	112.3E	
SE-B	176	59	56.1(E)				174.0	230.0(E)				

LEGEND


GRAVELS
CHANNEL DEPOSIT
(Gravels & Boulders)
ALLUVIUM
SAND
FINE SAND
SANDSTONE
SANDY CLAY
CLAY
SHALE
LIMESTONE
QUARTZITE
CHERTS
GRANITES
VOLCANIC
BRECCIA

LITHOLOGIC WELL LOG

PROSPECT SAN EMIDIO

COUNTY _____ STATE NEV

CHEVRON RESOURCES COMPANY

DATE 6-19-77 SECTION 33

TOWNSHIP _____

WELL No. 1-77 RANGE _____

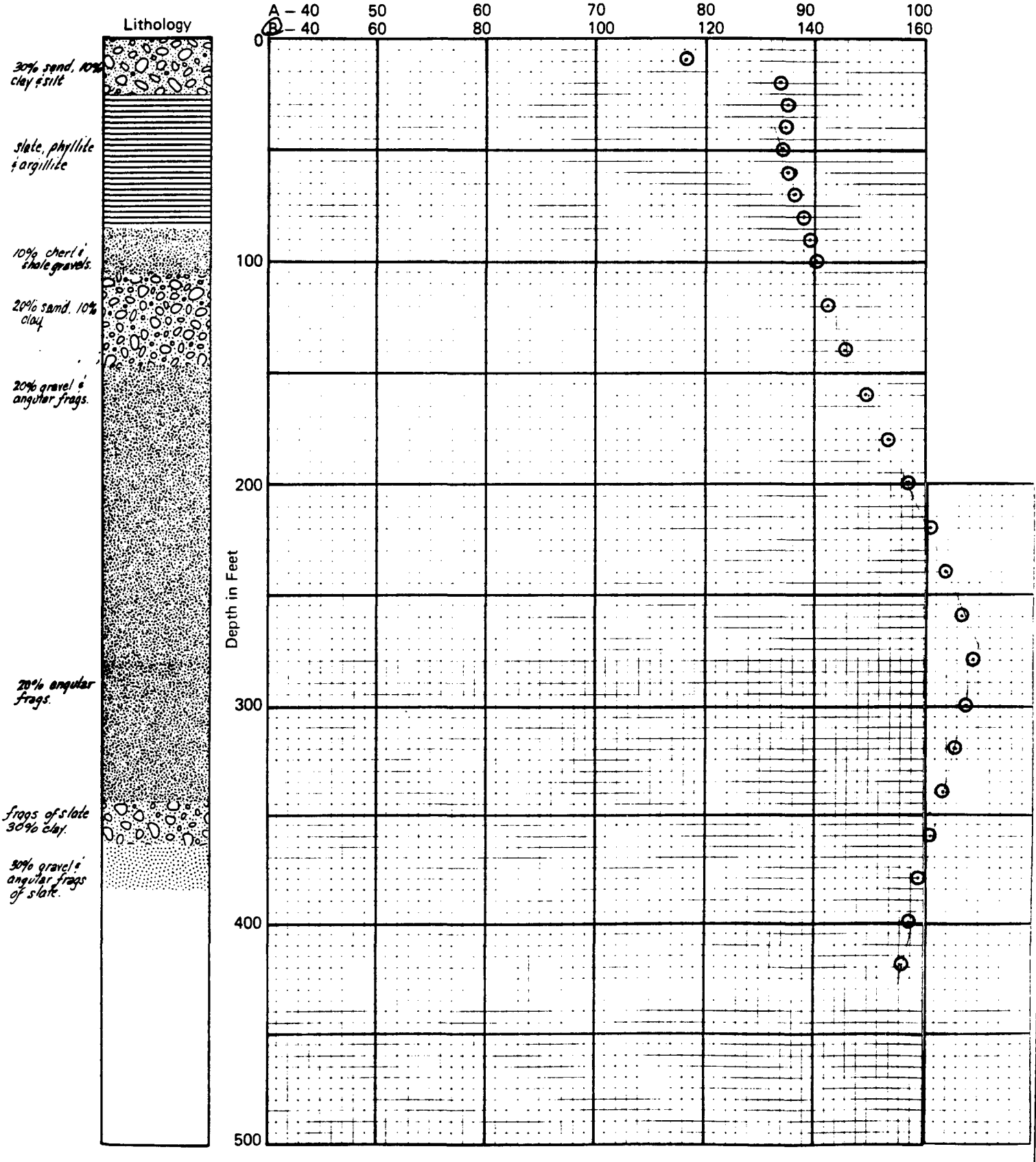
TIME	DEPTH	TEMP. °F	LITHOLOGY Ω 15	SETTING	COMMENTS
1324	10'	115.0	0.993	1K-Ω	IN H_2O
1327	20'	133.1	0.695		
1329	30'	134.2	0.681		
1332	40'	133.4	0.691		
1335	50'	132.1	0.707		
1338	60'	133.0	0.696		
1341	70'	134.9	0.672		
1344	80'	136.4	0.654		
1346	90'	137.7	0.637		
1348	100'	138.5	0.628		
1351	120'	140.3	0.606		
1354	140'	143.5	0.573		
1357	160'	[redacted] 146.8	0.540		
1400	180'	150.6	0.504		
1403	200'	154.5	0.472		
1405	220'	157.6	0.446		
1408	240'	160.3	0.427		
1411	260'	163.1	0.408		
1414	280'	165.3	0.393		
1417	300'	165.0	0.395		
1419	320'	163.0	0.409		
1421	340'	161.1	0.422		
1424	360'	158.9	0.437		
1427	380'	157.7	0.445		
1429	400'	156.5	0.455		
1432	419'	155.7	0.462		

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 1-77
Sec., 33 Twp., 30N Rge.: 23E

Date Completed: 6-16-77
Date Logged: 7-7-77
Logged By: V. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT SAN EMIDIO

COUNTY _____ STATE NEV.

DATE 6-23-77 SECTION _____

TOWNSHIP _____

WELL No. 1-77 RANGE _____

TIME	DEPTH	TEMP °F	LITHOLOGY ~S/S	SETTING	COMMENTS
1604	10'	117.8	0.941	1 KΩ	IN 420
1607	20'	133.9	0.685		
1610	30'	134.8	0.673		
1613	40'	134.5	0.677		
1616	50'	133.5	0.690		
1619	60'	134.5	0.677		
1622	70'	136.3	0.655		
1625	80'	137.7	0.638		
1627	90'	139.0	0.621		
1630	100'	139.8	0.611		
1632	120'	142.0	0.588		
1635	140'	145.3	0.555		
1638	160'	148.8	0.519		
1641	180'	153.1	0.483		
1644	200'	156.8	0.453		
1647	220'	160.2	0.428		
1649	240'	163.1	0.408		
1652	260'	166.0	0.388		
1655	280'	168.3	0.374		
1658	300'	167.1	0.381		
1701	320'	165.0	0.395		
1704	340'	163.0	0.409		
1707	360'	159.9	0.430		
1710	380'	158.7	0.438		
1713	400'	157.1	0.450		
1716	419'	156.2	0.458		

LITHOLOGIC WELL LOG

PROSPECT SAN EMIDIO

COUNTY _____ STATE NEV.

CHEVRON RESOURCES COMPANY

DATE 7-7-77 SECTION _____

TOWNSHIP _____

WELL No. 1-77 RANGE _____

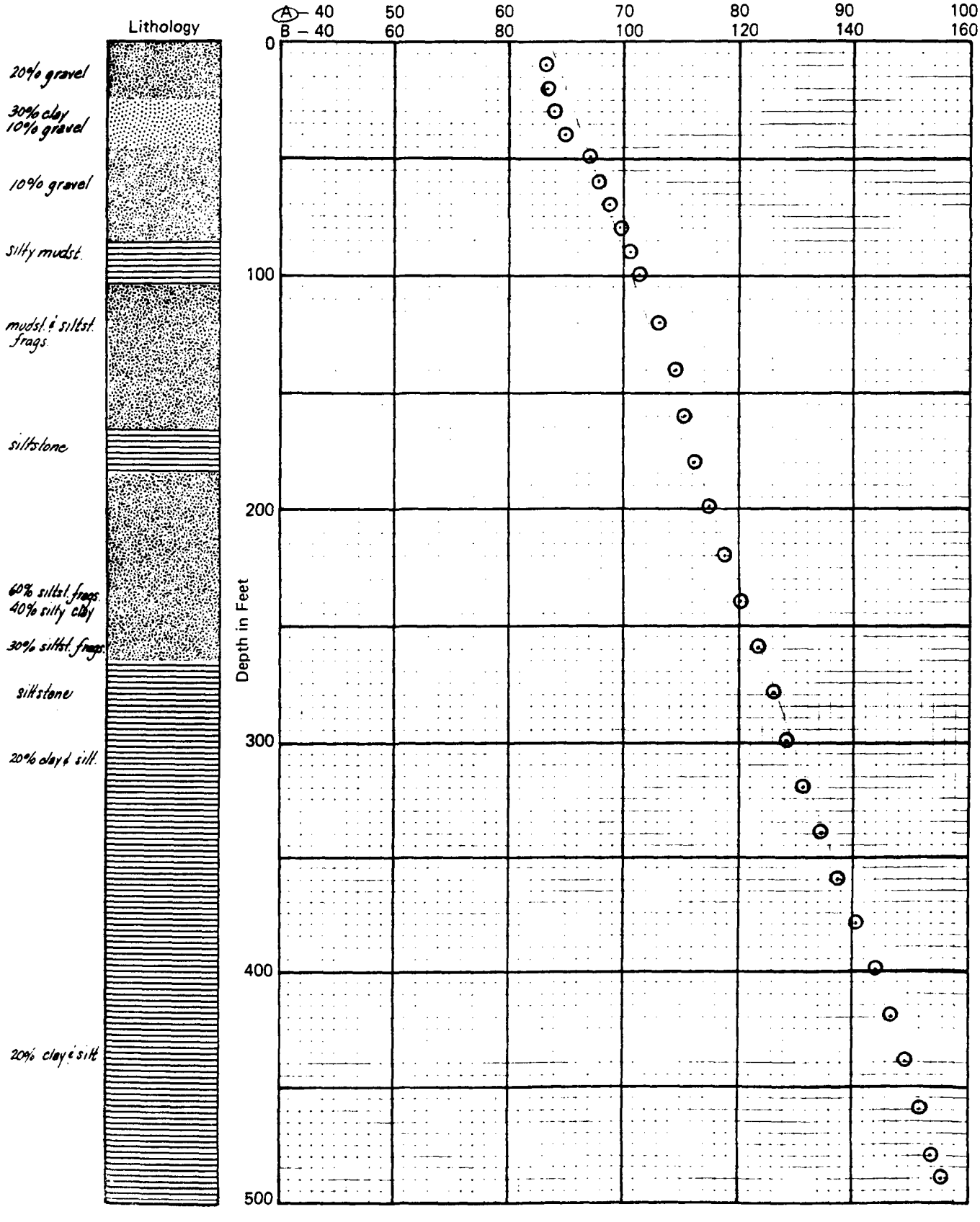
TIME	DEPTH	TEMP. °F	LITHOLOGY	SETTING	COMMENTS
1449	10'	116.4	0.967	1KΩ	IN H₂O
1451	20'	[redacted] 133.9	0.685		
1453	30'	134.9	0.672		
1456	40'	134.7	0.675		
1459	50'	134.0	0.684		
1602	60'	135.0	0.671		
1605	70'	136.5	0.652		
1608	80'	138.1	0.633		
1611	90'	139.3	0.617		
1613	100'	140.2	0.607		
1615	120'	142.5	0.583		
1618	140'	145.9	0.549		
1621	160'	149.4	0.514		
1622	180'	153.8	0.478		
1624	200'	157.3	0.449		
1626	220'	160.8	0.424		
1629	240'	163.6	0.405		
1632	260'	166.8	0.383		
1633	280'	169.1	0.370		
1635	300'	167.8	0.377		
1637	320'	165.6	0.391		
1639	340'	163.4	0.406		
1642	360'	160.9	0.423		
1644	380'	[redacted] 159.2	0.435		
1646	400'	157.5	0.447		
1649	419'	156.4	0.456		

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 1-77
Sec., 33 Twp., 30 Rge.: 23E

Date Completed: 6-17-77
Date Logged: 7-7-77
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT SAN EMIDIO
COUNTY _____ STATE NEV
DATE 6-23-77 SECTION 33
TOWNSHIP _____
WELL No. 2-77 RANGE _____

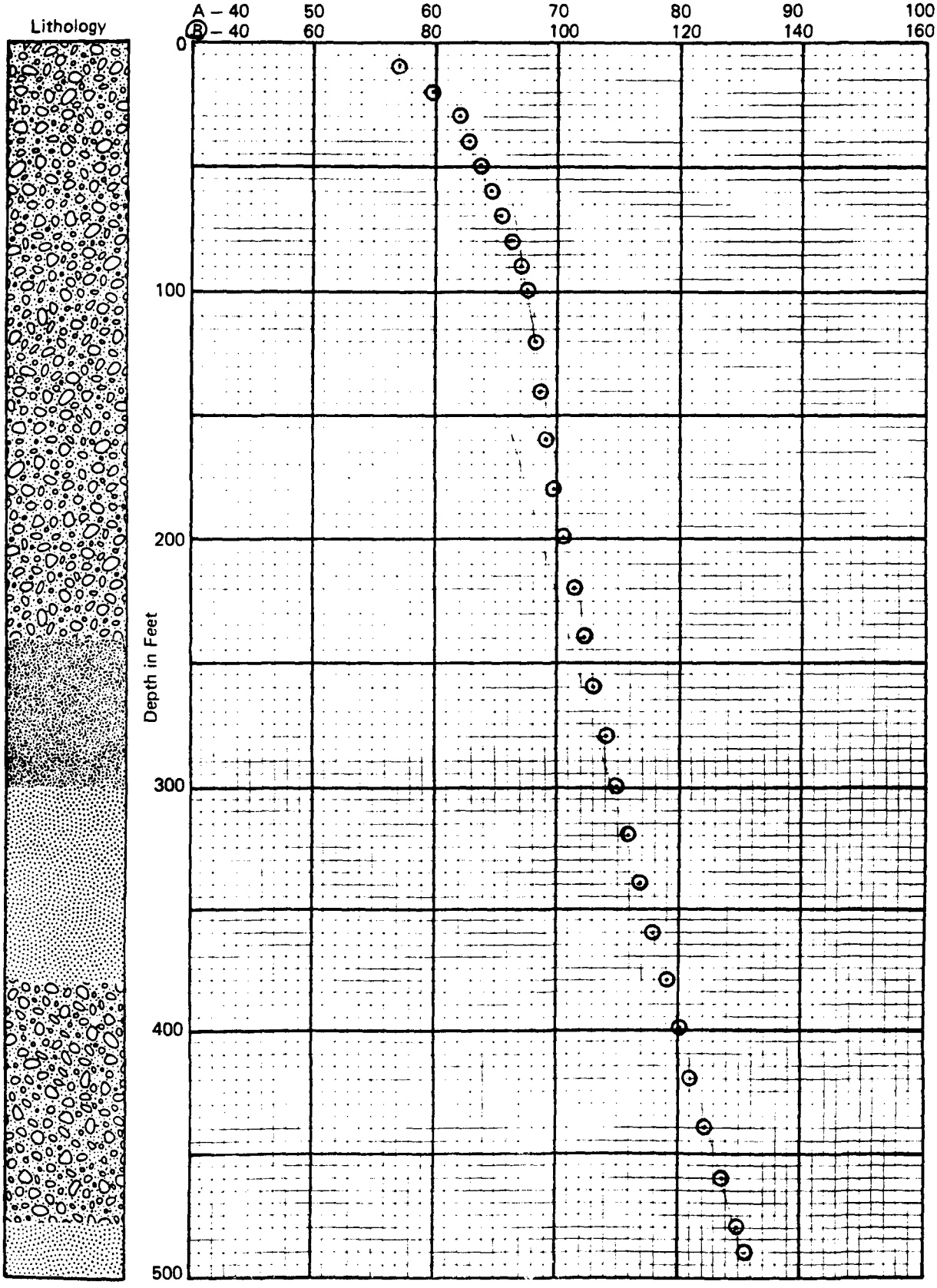
TIME	DEPTH	TEMP. OF LITHOLOGY	Ω's	SETTING	COMMENTS
1753	10'	61.4	3.395	10 KΩ	IN H2O
1756	20'	62.6	3.295		
1758	30'	64.4	3.155		
1801	40'	66.3	2.996	1 KΩ	
1804	50'	67.3	2.920		
1806	60'	68.0	2.861		
1809	70'	69.0	2.801		
1812	80'	69.9	2.743		
1815	90'	70.7	2.692		
1818	100'	71.5	2.646		
1821	120'	73.2	2.540		
1824	140'	74.5	2.456		
1826	160'	75.3	2.404		
1829	180'	76.3	2.346		
1832	200'	77.4	2.280		
1835	220'	78.8	2.215		
1838	240'	80.1	2.150		
1841	260'	81.6	2.075		
1844	280'	83.2	2.000		
1846	300'	84.5	1.934		
1849	320'	85.8	1.873		
1852	340'	87.4	1.811		
1855	360'	88.8	1.756		
1857	380'	90.3	1.699		
1900	400'	92.0	1.632		
1903	420'	93.5	1.578		
1906	440'	94.7	1.531		
1909	460'	95.9	1.493		
1912	480'	96.9	1.463		
1915	491'	97.8	1.434		

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 3-77
Sec., 21 Twp. 29N Rge.: 23E

Date Completed: 11-13-77
Date Logged: 12-21-77
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : # 3-77
S.T.R. :

DATE COMPLETED : 11-13-77
DATE LOGGED : 11-16-77
LOGGED BY : FLEINER
UNIT NO. :

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN - BATT. V = 1131 END - BATT. V = 1107

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2,400	75.4 AIR	220	1,289	102.6
20	2,140	80.3	240	1,244	104.2
30	1,955	84.1	260	1,204	105.8
40	1,871	85.8	280	1,163	107.5
50	1,796	87.8	300	1,117	109.5
60	1,723	89.7	320	1,074	111.3
70	1,661	91.3	340	1,033	113.0
80	1,599	92.9	360	992	115.1
90	1,549	94.2	380	950	117.3
100	1,513	95.2	400	910	119.4
120	1,480	96.3	420	874	121.3
140	1,461	96.9	440	834	123.7
160	1,433	97.9	460	795	126.2
180	1,396	99.1	480	755	128.8
200	1,336	101.1	492	732	130.3

TIME START: 1010 TIME ON BOTTOM: 1130

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 3-77
S.T.R. : S 21 T 23N R 23E

DATE COMPLETED : 11-13-77
DATE LOGGED : 12-21-77
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

BEGIN - BATT. V = 1195 END - BATT. V = 1167

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2,483	74.1	220	1,282	102.9
20	2,161	79.9	240	1,236	104.5
30	1,960	84.0	260	1,195	106.2
40	1,886	85.5	280	1,151	108.0
50	1,813	87.3	300	1,107	109.9
60	1,742	89.2	320	1,060	111.8
70	1,679	90.8	340	1,019	113.7
80	1,613	92.5	360	977	115.9
90	1,557	94.0	380	934	118.1
100	1,519	95.0	400	891	120.4
120	1,480	96.3	420	856	122.2
140	1459	97.0	440	818	124.7
160	1430	98.0	460	778	127.3
180	1390	99.3	480	742	129.6
200	1,332	101.2	492 500	721	131.0

1 KΩ AIR H_2O

TIME START: 0820 TIME ON BOTTOM: [illegible]

LITHOLOGIC WELL LOG

PROSPECT SAN EMIDIO

COUNTY _____ STATE NEV.

CHEVRON RESOURCES COMPANY

DATE 7-7-77 SECTION _____

TOWNSHIP _____

WELL No. 2-77 RANGE _____

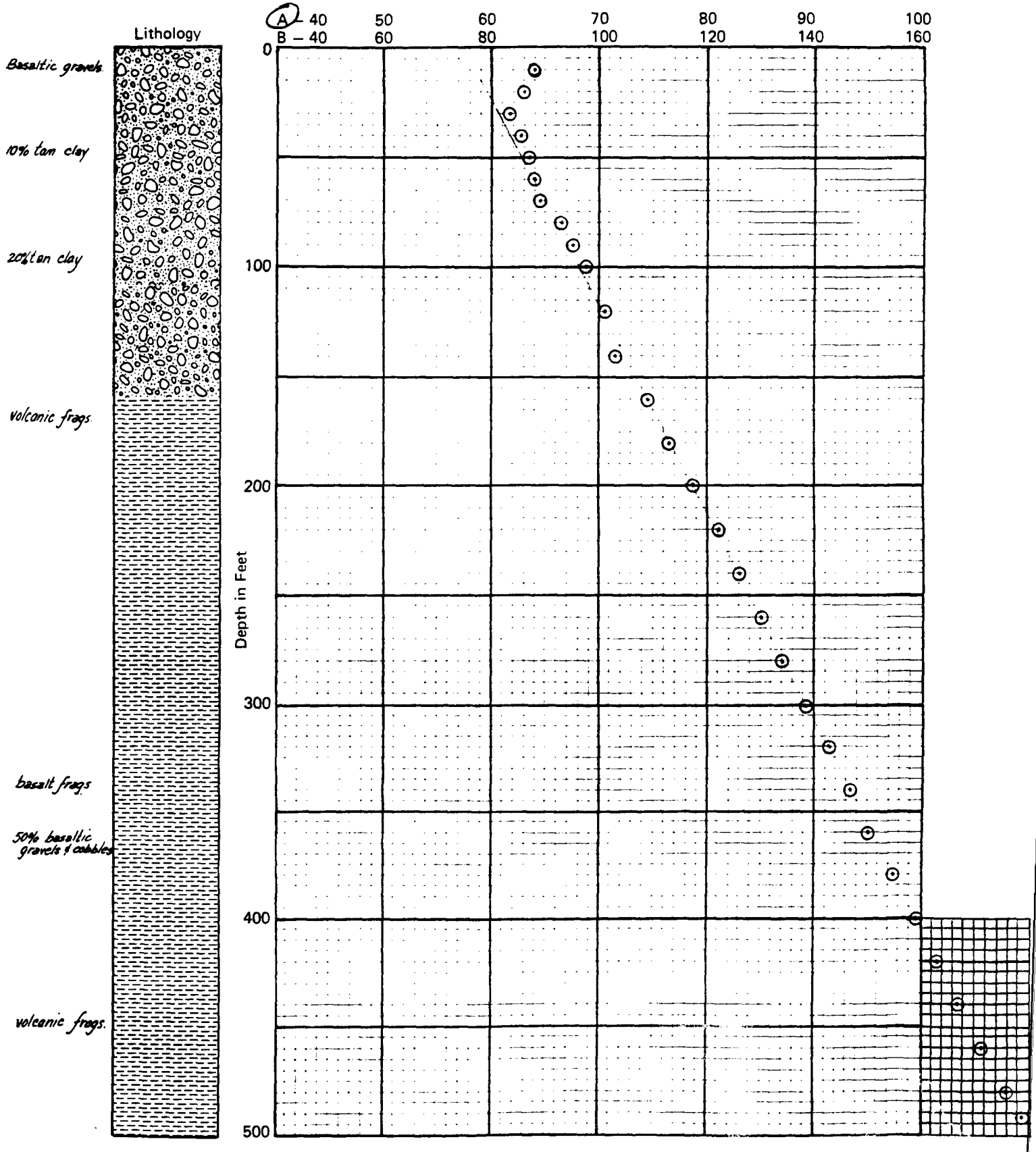
TIME	DEPTH	TEMP. °F	LITHOLOGY Ω-IS	SETTING	COMMENTS
1706	10'	63.1	3.255	1 KΩ	IN AIR
1709	20'	63.2	3.245		IN H_2O
1712	30'	63.9	3.195		
1714	40'	65.0	3.105		
1717	50'	67.1	2.934		
1719	60'	67.8	2.874		
1722	70'	68.8	2.811		
1725	80'	69.7	2.755		
1728	90'	70.6	2.698		
1736	100'	71.4	2.650		
1732	120'	73.2	2.537		
1734	140'	74.5	2.456		
1737	160'	75.3	2.406		
1739	180'	76.2	2.349		
1742	200'	77.4	2.281		
1745	220'	78.7	2.218		
1747	240'	80.1	2.152		
1749	260'	81.5	2.081		
1751	280'	83.0	2.009		
1754	300'	84.4	1.943		
1757	320'	85.6	1.882		
1759	340'	87.2	1.816		
1801	360'	88.7	1.759		
1804	380'	90.3	1.701		
1806	400'	92.1	1.629		
1809	420'	93.5	1.575		
1812	440'	94.8	1.528		
1814	460'	96.0	1.490		
1816	480'	[redacted] 97.0	1.458		
1819	491'	97.9	1.431		

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 4-77
Sec., 21 Twp. 29N Rge.: 23E

Date Completed: 11-12-77
Date Logged: 11-15-77
Logged By: Jack Flenner
Temp. Probe: 1100'

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO [redacted]
STATE : NEV
HOLE NO. : 4-77
S.T.R. :

DATE COMPLETED : 11-12-77
DATE LOGGED : 11-15-77
LOGGED BY : FLEINER
UNIT NO. :

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN - BATT. V = 1130 END - BATT. V = 1110

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ)	3,115	64.0	220	2,103	81.1
20	3,345	62.0	240	2,002	83.1
30	3,365	61.8	260	1,909	85.1
40	3,285	62.7	280	1,821	87.1
50	3,235	63.4	300	1,740	89.2
60	3,185	64.0	320	1,660	91.3
70	3,155	64.4	340	1,585	93.3
80 (1KΩ)	2,968	66.7	360	1,515	95.1
90	2,895	67.6	380	1,444	97.5
100	2,812	68.8	400	1,381	99.6
120	2,692	70.7	420	1,320	101.6
140	2,575	72.6	440	1,262	103.5
160	2,455	74.5	460	1,205	105.8
180	2,334	76.5	480	1,152	108.0
200	2,215	78.8	~~492~~ 500	1,120	109.3

TIME START: 1430 TIME ON BOTTOM: 1610

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 4-77
S.T.R. : 12; T23N R23E

DATE COMPLETED : 11-12-77
DATE LOGGED : 12-23-77
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

BEGIN - BATT. V = 1176 END - BATT. V = 1163

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,485	60.3	220	2,119	80.7
20	3,435	60.9	240	2,009	83.0
30	3,445	60.8	260	1,915	84.9
40	3,355	61.9	280	1,822	87.1
50	3,315	62.4	300	1,736	89.3
60	3,275	62.9	320	1,653	91.5
70	3,235	63.4	340	1,575	93.5
80	3,155	64.4	360	1,502	95.6
90	2,980	66.5	380	1,433	97.9
100	2,892	67.6	400	1,368	100.0
120	2,752	69.8	420	1,308	102.0
140	2,591	72.3	440	1,247	104.0
160	2,512	73.6	460	1,198	106.1
180	2,358	76.1	480	1,139	108.5
200	2231	78.4	~~492~~ 500	1,111	109.7

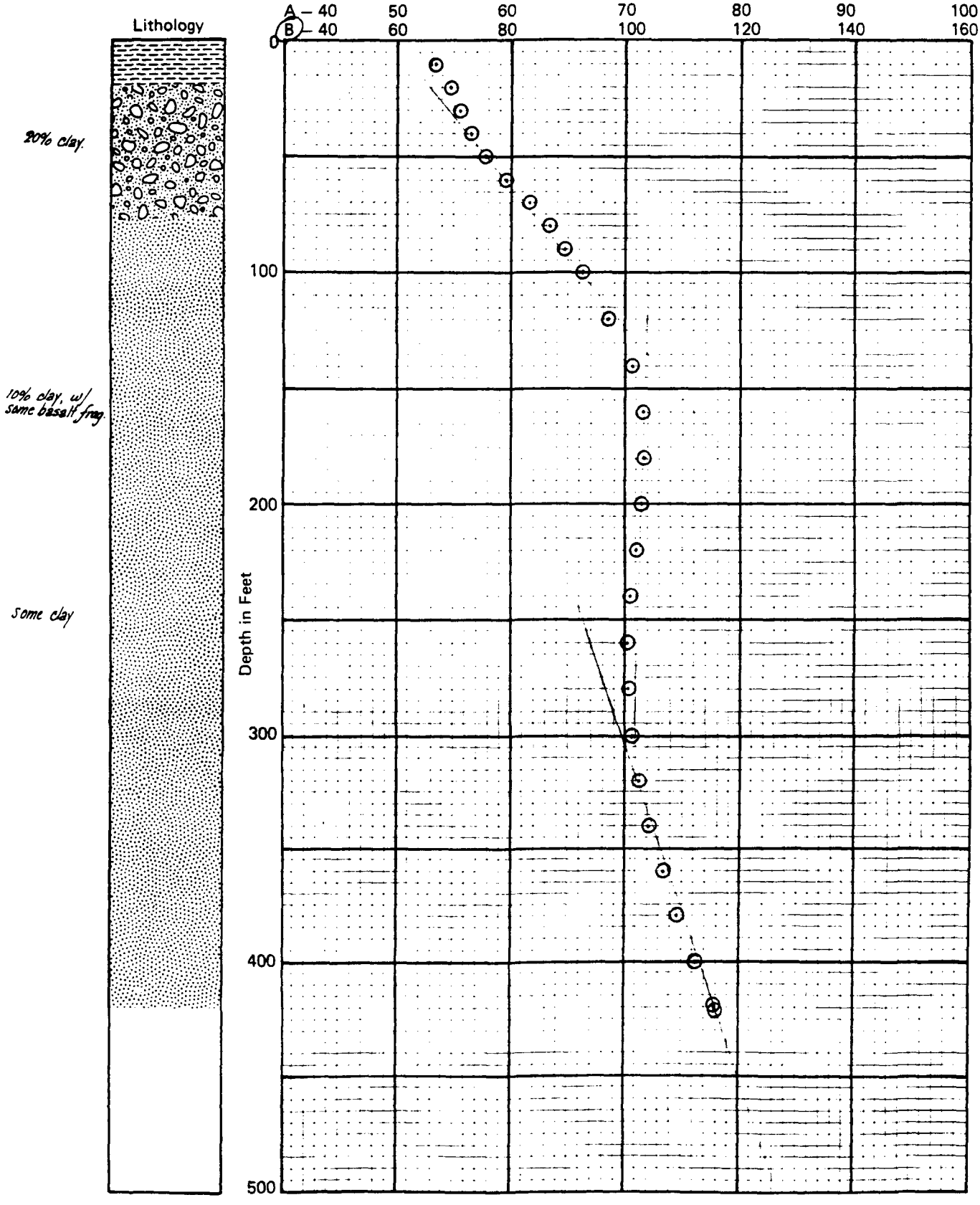
TIME START: 0730 TIME ON BOTTOM: 1615

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 5-77
Sec., 28 Twp., 22N Rge.: 23E

Date Completed: 11-11-77
Date Logged: 11-14-77
Logged By: Jack Fleiner
Temp. Probe: 1100'

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 5-77
S.T.R. : SEC. 28 T29N R23E

DATE COMPLETED : 11-11-77
DATE LOGGED : 11-14-77
LOGGED BY : FLEINER
UNIT NO. :

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN- BATT.V = 1128 END- BATT.V = 1107

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2,799	66.3	220	1,305	102.1
20	2,763	69.6	240	1,339	101.0
30	2,672	71.0	260	1,356	100.4
40	2,544	73.1	280	1,354	100.5
50	2,374	75.8	300	1,326	101.4
60	2,187	79.4	320	1,290	102.6
70	1,995	83.3	340	1,243	104.2
80	1,848	86.4	360	1,184	106.7
90	1,716	89.8	380	1,120	109.3
100	1,613	92.5	400	1,049	112.3
120	1,434	97.8	420	979	115.8
140	1,322	101.5	440	976	115.9
160	1,270	103.3	460		
180	1,259	103.6	480		
200	1,278	103.0	500		

1KΩ

TIME START: 1415

TIME ON BOTTOM: 1550

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 5-77
S.T.R. : SEC 28 T29 N R23 E

DATE COMPLETED : 11-11-77
DATE LOGGED : 12-11-77
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

BEGIN - BATT. V = 1182 END - BATT. V = 1162

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ)	3,215	63.6	220	1,298	102.3
20 (1KΩ)	2,765	69.6	240	1,335	101.1
30	2,678	71.0	260	1,353	100.5
40	2,560	72.8	280	1,351	100.6
50	2,392	75.5	300	1,322	101.5
60	2,213	78.8	320	1,285	102.8
70	2,015	82.9	340	1,238	104.4
80	1,865	86.0	360	1,179	106.9
90	1,730	89.5	380	1,114	109.6
100	1,623	92.3	400	1,041	112.6
120	1,431	97.9	420	972	116.1
140	1,311	101.9	~~440~~ 421	970	116.2
160	1,256	103.7	460		
180	1,247	104.0	480		
200	1,269	103.3	500		

TIME START: 1445

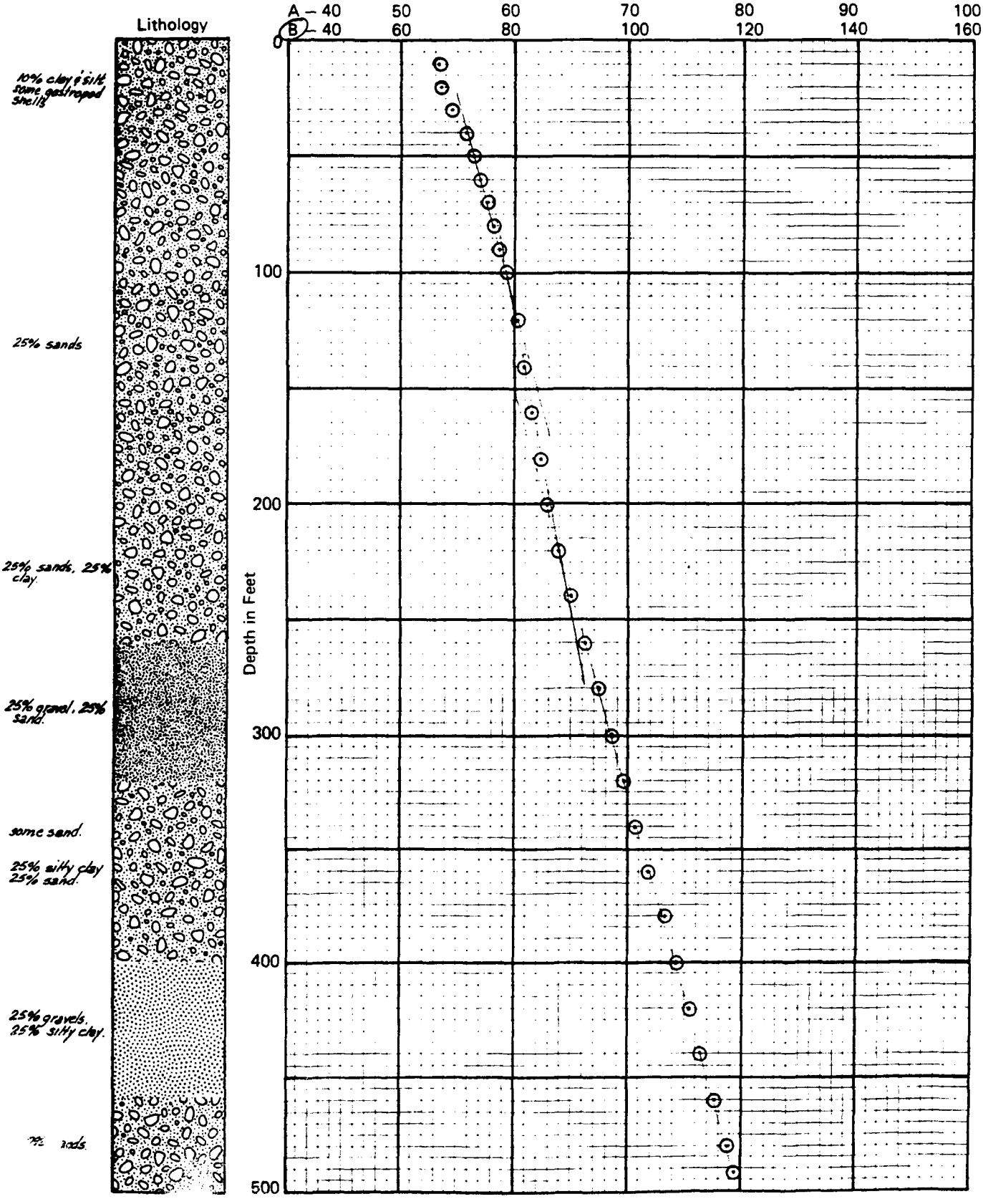
TIME ON BOTTOM: 1635

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 6-77
Sec., 28 Twp., 29N Rge.: 23E

Date Completed: 11/10/77
Date Logged: 11/13/77
Logged By: J. Elsner
Temp. Probe: 1100'

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 6-77
S.T.R. : SEC 28 T29N R23E

DATE COMPLETED : _____
DATE LOGGED : 11-13-77
LOGGED BY : FLEINER
UNIT NO. : _____

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

BEGIN - BATT. V = 1128 END - BATT V = 1107

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2,985	66.5	220	1,789	87.9
20	2,923	67.2	240	1,708	90.1
30	2,795	69.1	260	1,623	92.3
40	2,642	71.5	280	1,534	94.6
50	2,572	72.7	300	1,457	97.1
60	2,490	74.0	320	1,385	99.5
70	2,410	75.3	340	1,318	101.7
80	2,350	76.2	360	1,254	103.8
90	2,286	77.3	380	1,194	106.3
100	2,232	78.4	400	1,137	108.6
120	2,139	80.3	420	1,083	110.9
140	2,064	81.9	440	1,034	112.9
160	2,010	83.0	460	986	115.4
180	1,948	84.3	480	941	117.8
200	1,874	85.8	~~500~~ 492	919	118.9

1KΩ

TIME START: 1040 TIME ON BOTTOM: 1210

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 7-77
S.T.R. : SEC 28 T29N R23E

DATE COMPLETED : 11-9-77
DATE LOGGED : 11-14-77
LOGGED BY : FLEINER
UNIT NO. :

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

BEGIN - BATT. V = 1137 END - BATT. V = 1109

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,275	62.9	220	2,305	76.9
20	3,295	62.6	240	2,236	78.3
30	3,305	62.5	260	2,169	79.7
40	3,215	63.6	280	2,105	81.0
50	3,145	64.5	300	2,046	82.2
60	3,085	65.2	320	1,987	83.5
70	2,947	66.9	340	1,927	84.7
80	2,892	67.6	360	1,876	85.7
90	2,830	68.5	380	1,822	87.1
100	2,782	69.3	400	1,772	88.4
120	2,688	70.8	~~420~~ 415	1737	89.3
140	2,592	72.3	440		
160	2,525	73.4	460		
180	2,455	74.5	480		
200	2,379	75.7	500		

TIME START: 1205 TIME ON BOTTOM: 1345

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 7-77
S.T.R. : SEC 23 T23N R23E

DATE COMPLETED : 11-[illegible]-77
DATE LOGGED : 12-19-77
LOGGED BY : FLEINER
UNIT NO. : 4000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER

BEGIN - BATT V = 1121 END - BATT. V = 1117

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,435	60.9	220	2,322	76.7
20	3,385	61.5	240	2,251	78.0
30	3375	61.6	260	2,180	79.5
40	3355	61.9	280	2,116	80.8
50	3255	63.1	300	2,054	82.1
60	3,185	64.0	320	1,993	83.3
70	3105	65.0	340	1,935	84.5
80	2,946	67.0	360	1,880	85.7
90	2879	67.8	380	1,826	87.0
100	2818	68.7	400	1,776	88.3
120	2,718	70.3	420	1,736	89.3
140	2,620	71.9	440		
160	2,547	73.1	460		
180	2,469	74.3	480		
200	2,394	75.5	500		

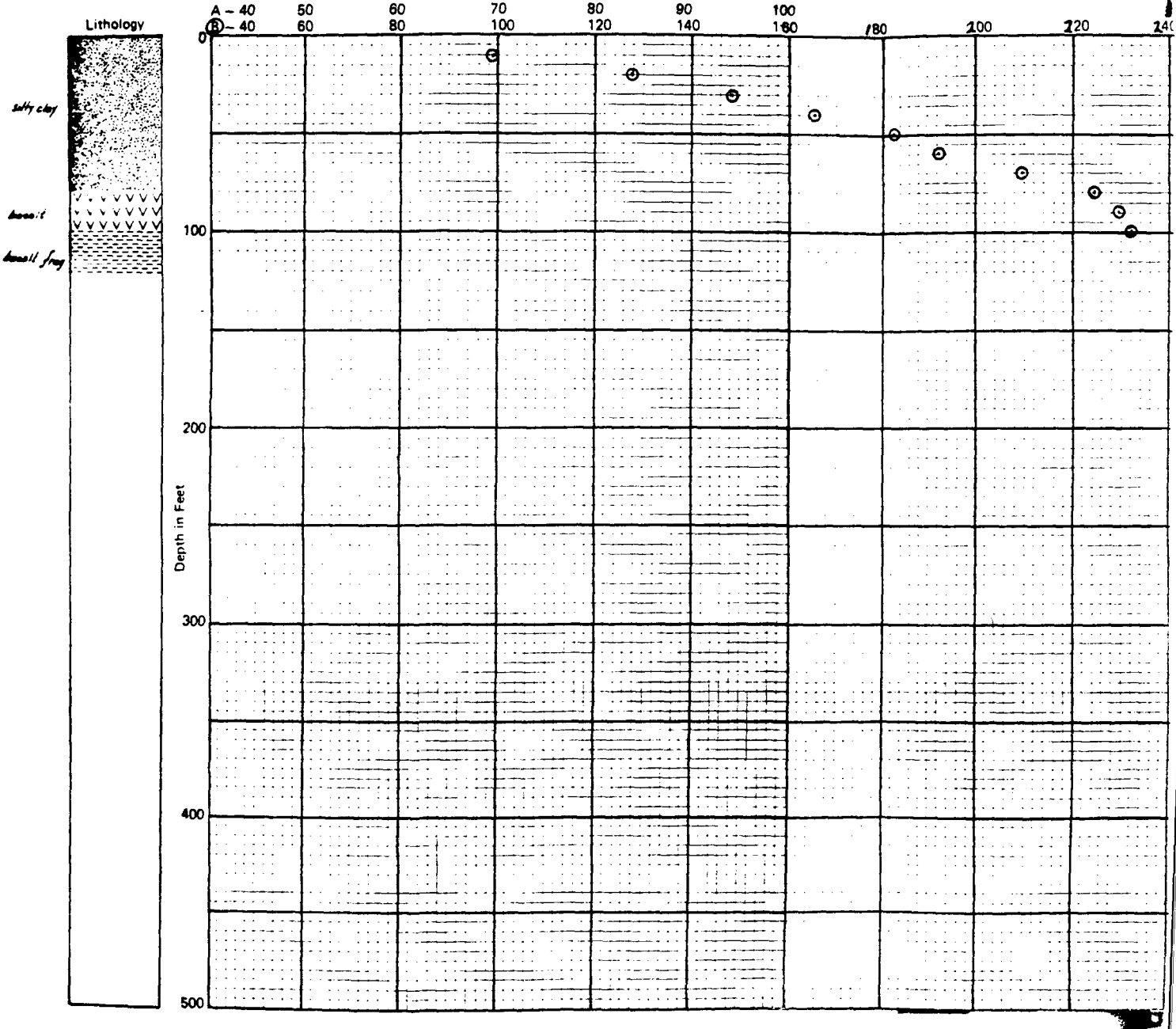
TIME START: 1320 TIME ON BOTTOM: 1421

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: B-77
Sec., 9 Twp., 29N Rge.: 23E

Date Completed: 11-14-77
Date Logged: 12-21
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 8-77
S.T.R. : SEC 4 T21N R23E

DATE COMPLETED : 11-14-77
DATE LOGGED : 12-20-77
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER

BEGIN - BATT V = 1172 END - BATT V =

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1,319	79.0	220		
20	739	127.9	240		
30	524	145.4	260		
40	314	165.2	280		
50	301	182.5	300		
60	260	192.6	320		
70	203	209.5	340		
80	174	223.5	360		
90	134	229.7	380		
100	100	232.1	400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 1645

TIME ON BOTTOM: 1745

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 8-77
S.T.R. : SEC 4 T23N R23E

DATE COMPLETED : 11-17-77
DATE LOGGED : 12-20-77
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN-BATT V = 1210 END-BATT V = 1187

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1,317	101.7	220		
20	760	128.5	240		
30	517	149.1	260		
40	390	165.8	280		
50	303	182.1	300		
60	257	193.4	320		
70	207	209.9	340		
80	175	224.0	360		
90	163	230.3	380		
100	159	232.7	400		
~~120~~ 118			420		
140			440		
160			460		
180			480		
200			500		

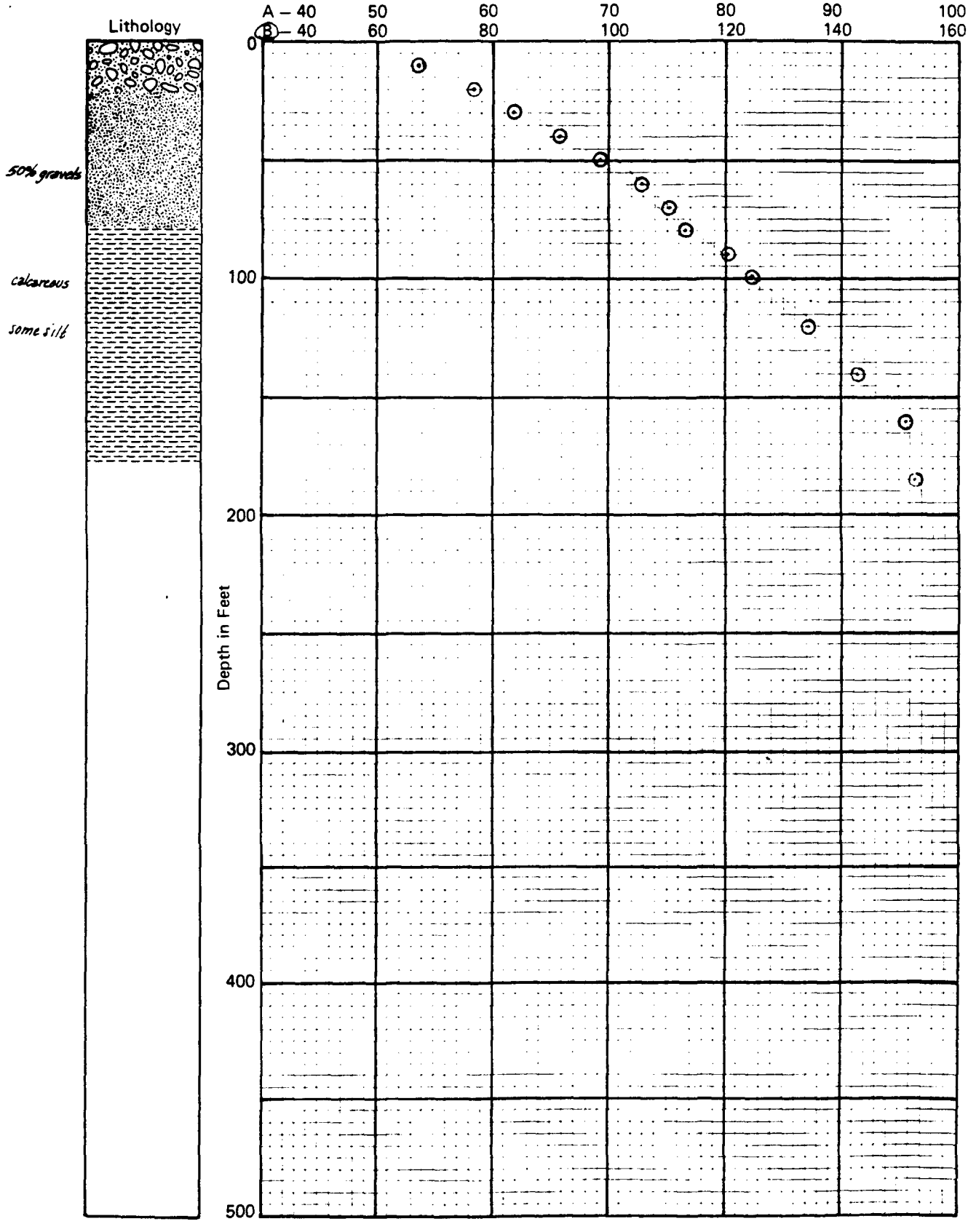
TIME START: 1625 TIME ON BOTTOM: 1725

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 9-77
Sec., 9 Twp., 21N Rge.: 23E

Date Completed: 11-14-77
Date Logged: 12-21-77
Logged By: T. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 10-77
S.T.R. : [illegible] T23N R23E

DATE COMPLETED : 11-15-77
DATE LOGGED : 12-[illegible]-77
LOGGED BY : FLEMMER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTOR + THERMOMETER

BEGIN- BATT. V = 1126 END- BATT V = 1196

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1,835	06.7	~~220~~	930	127.0
20	1678	10.8	240		
30	1612	92.6	260		
40	1,501	95.6	280		
50	1,280	102.9	300		
60	1,162	107.6	320		
70	1,019	113.7	340		
80	912	119.3	360		
90	834	123.7	380		
100	797	126.1	400		
120	734	130.2	420		
140	669	135.2	440		
160	620	139.1	460		
180	579	142.9	480		
200	551	145.7	500		

TIME START: [illegible]

TIME ON BOTTOM: [illegible]

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 3-77
S.T.R. : 33 T20N R23E

DATE COMPLETED : 11-12-77
DATE LOGGED : 12-21-77
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMISTOR
BEGIN BATT. V = 11.1 END BATT. V = 11.1

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2,374	67.1	220		
20	2321	76.7	240		
30	1967	83.4	260		
40	1647	91.6	280		
50	1416	98.4	300		
60	1,202	105.1	320		
70	1045	110.4	340		
80	1031	113.1	360		
90	943	123.3	380		
100	818	127.7	400		
120	677	137.3	420		
140	534	142.4	440		
160	476	151.6	460		
180	408	152.8	480		
200			500		

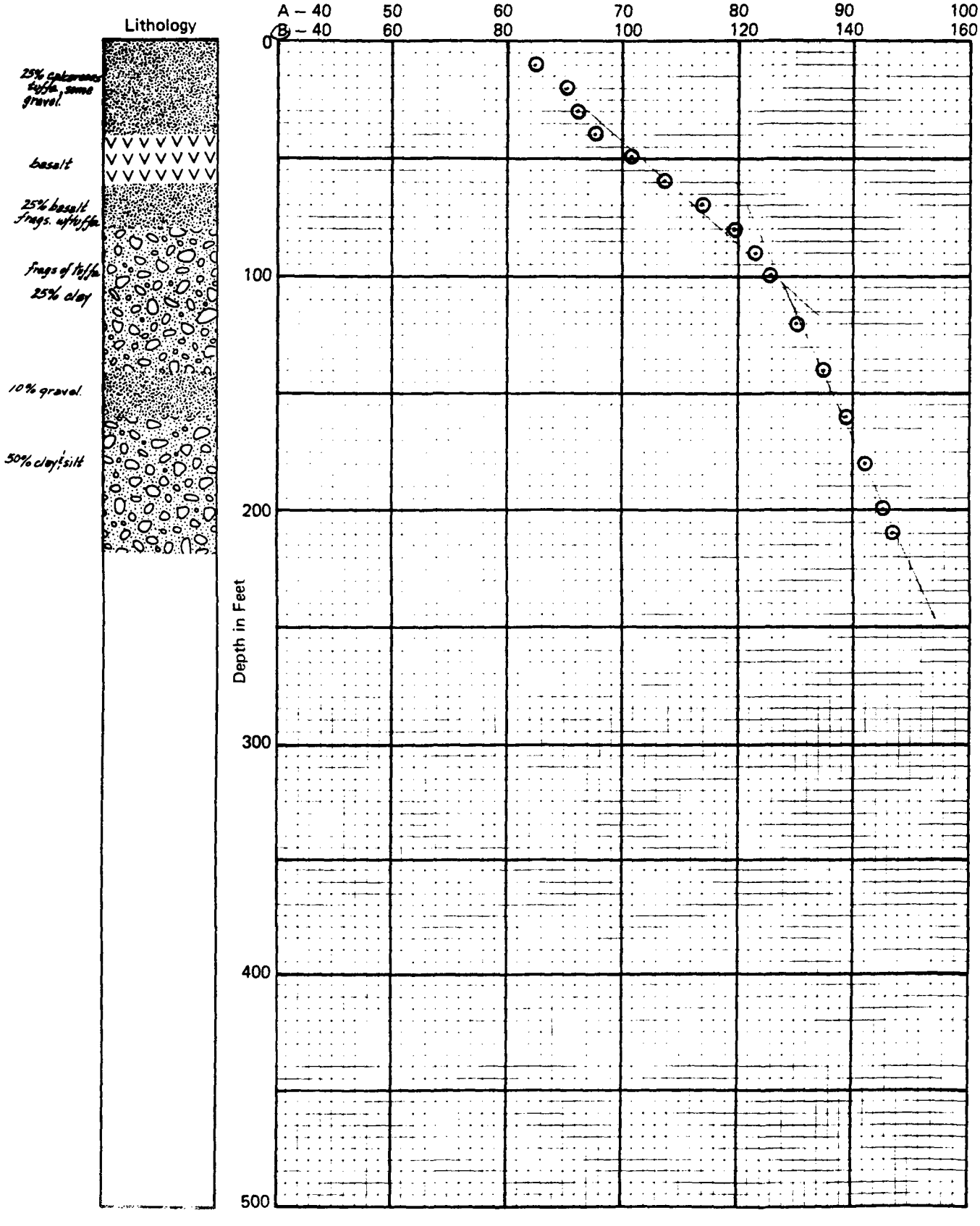
TIME START: 12 15 TIME ON BOTTOM: 13 5

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 10-77
Sec., 9 Twp., 29a Rge.: 23E

Date Completed: 12-15-77
Date Logged: 12-21-77
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EM
STATE : NE
HOLE NO. : 10-77
S.T.R. : T23 R23E

DATE COMPLETED :
DATE LOGGED : 12-21-77
LOGGED BY :
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES:

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10			~~220~~		
20		1[illegible]5	240		
30	1623	42.3	260		
40		15.3	280		
50	1317	101.7	300		
60		107.5	320		
70	10.7	113.8	340		
80	915	119.1	360		
90	842	123.1	380		
100		125.	400		
120		130.+	420		
140		12+.3	440		
160	621	131.0	460		
180		1+2.2	480		
200			500		

TIME START:

TIME ON BOTTOM:

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 11-77
Sec., 9 Twp., 29N Rge.: 23E

Date Completed: 11-15-77
Date Logged: 12-21-77
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)

Ⓐ – 40 50 60 70 80 90 100
B – 40 60 80 100 120 140 160

Lithology

10% clay

some basalt frags.

Depth in Feet

0
100
200
300
400
500

Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 11-77
S.T.R. : 5 ; T23N R23E

DATE COMPLETED : 11-15-77
DATE LOGGED : 12-20-77
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN-BATT ✓ = 1132 END-BATT ✓ = 1108

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3425	61.0	~~220~~ 229	2102	81.1
20	3275	62.9	240		
30	3225	63.5	260		
40	3115	64.9	280		
50	2938	67.1	300		
60	2849	68.2	320		
70	2790	69.2	340		
80	2733	70.1	360		
90	2669	71.1	380		
100	2622	71.9	400		
120	2512	73.6	420		
140	2414	75.2	440		
160	2319	76.7	460		
180	2227	78.5	480		
200	2146	80.2	500		

TIME START: 1335 TIME ON BOTTOM: 1495

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 11-77
S.T.R. : 31 T29N R23E

DATE COMPLETED : 11-15-77
DATE LOGGED : 12-21-77
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTOR + THERMOMETER
BEGIN - BATT. V = 1314   END - BATT V = [illegible]

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,431	61.7	~~220~~ 211	2,166	81.6
20	3,307	62.5	240		
30	3,221	63.3	260		
40	3,117	64.3	280		
50	2,962	66.4	300		
60	2,864	68.0	320		
70	2,798	69.0	340		
80	2,729	70.1	360		
90	2,676	71.0	380		
100	2,627	71.8	400		
120	2,505	73.7	420		
140	2,418	75.2	440		
160	2,328	76.6	460		
180	2,230	78.5	480		
200	2,151	80.1	500		

TIME START: 1730

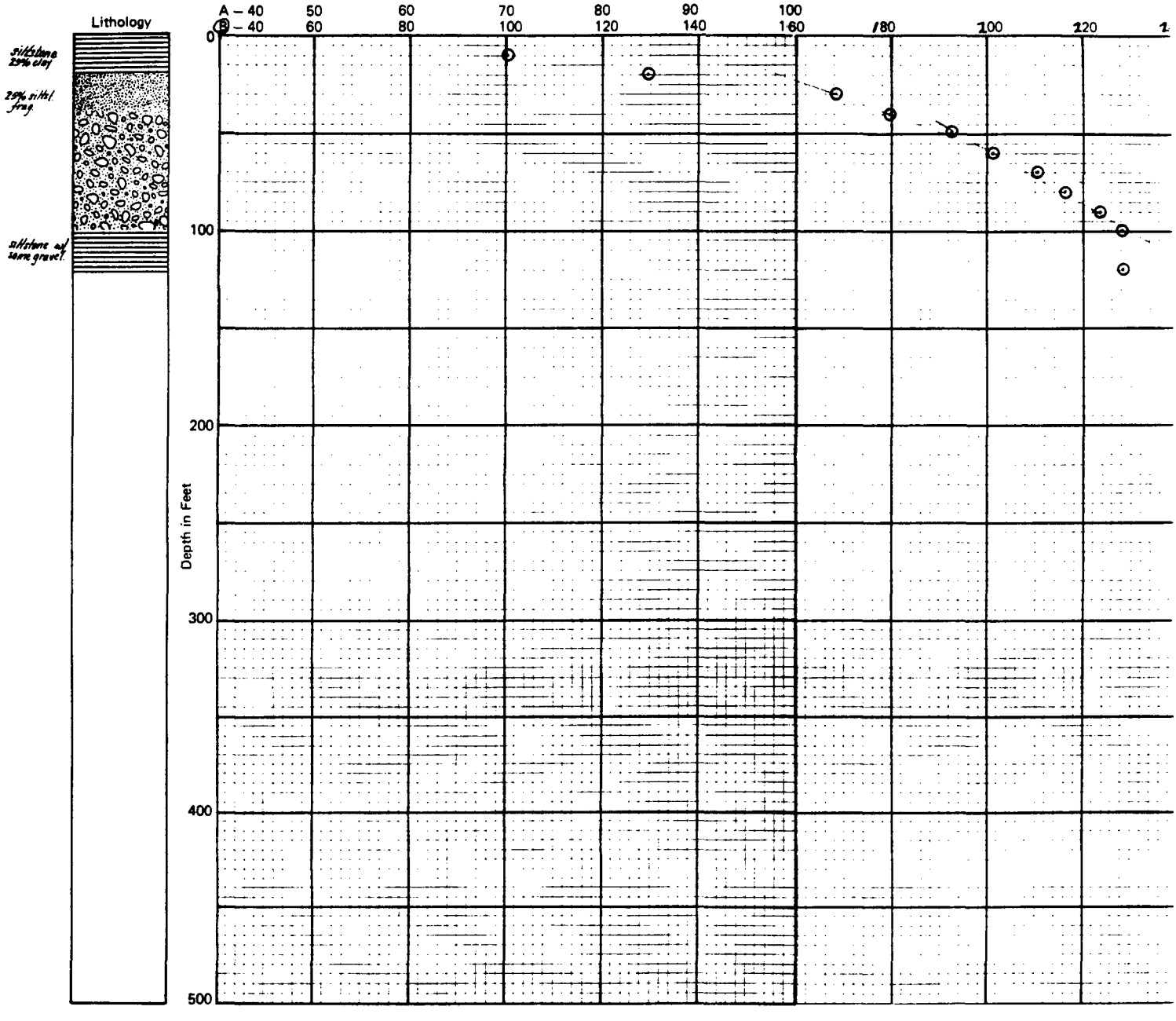
TIME ON BOTTOM: 1820

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 12-77
Sec., 4 Twp., 29s Rge.: 23e

Date Completed: 11-16-77
Date Logged: 12-21-77
Logged By: J Eleuec
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO DATE COMPLETED : 11-16-77

STATE : NEV DATE LOGGED : 12-21-77

HOLE NO. : 12-77 LOGGED BY : [illegible]

S.T.R. : 34 T29N R23E UNIT NO. : 1600

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER

BEGIN - BATT V = 1122 END - BATT = 1107

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	[illegible]	100.2	220		
20	[illegible]	127.8	240		
30	375	158.2	260		
40	311	179.3	280		
50	260	192.6	300		
60	232	201.0	320		
70	205	210.6	340		
80	192	216.1	360		
90	176	223.5	380		
100	167	228.2	400		
120	165	228.7	420		
140			440		
160			460		
180			480		
200			500		

TIME START: 1500 TIME ON BOTTOM: 1555

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 12-77
S.T.R. : 34 T29N R2E

DATE COMPLETED : 11-[illegible]-77
DATE LOGGED : 12-22-77
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN-BATT V = 1236 END-BATT V = 1212

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1,139	108.5	220		
20	731	130.3	240		
30	379	167.5	260		
40	313	179.9	280		
50	262	192.1	300		
60	231	201.3	320		
70	207	209.9	340		
80	188	217.8	360		
90	175	224.0	380		
100	168	227.6	400		
~~120~~ 114	165	229.2	420		
140			440		
160			460		
180			480		
200			500		

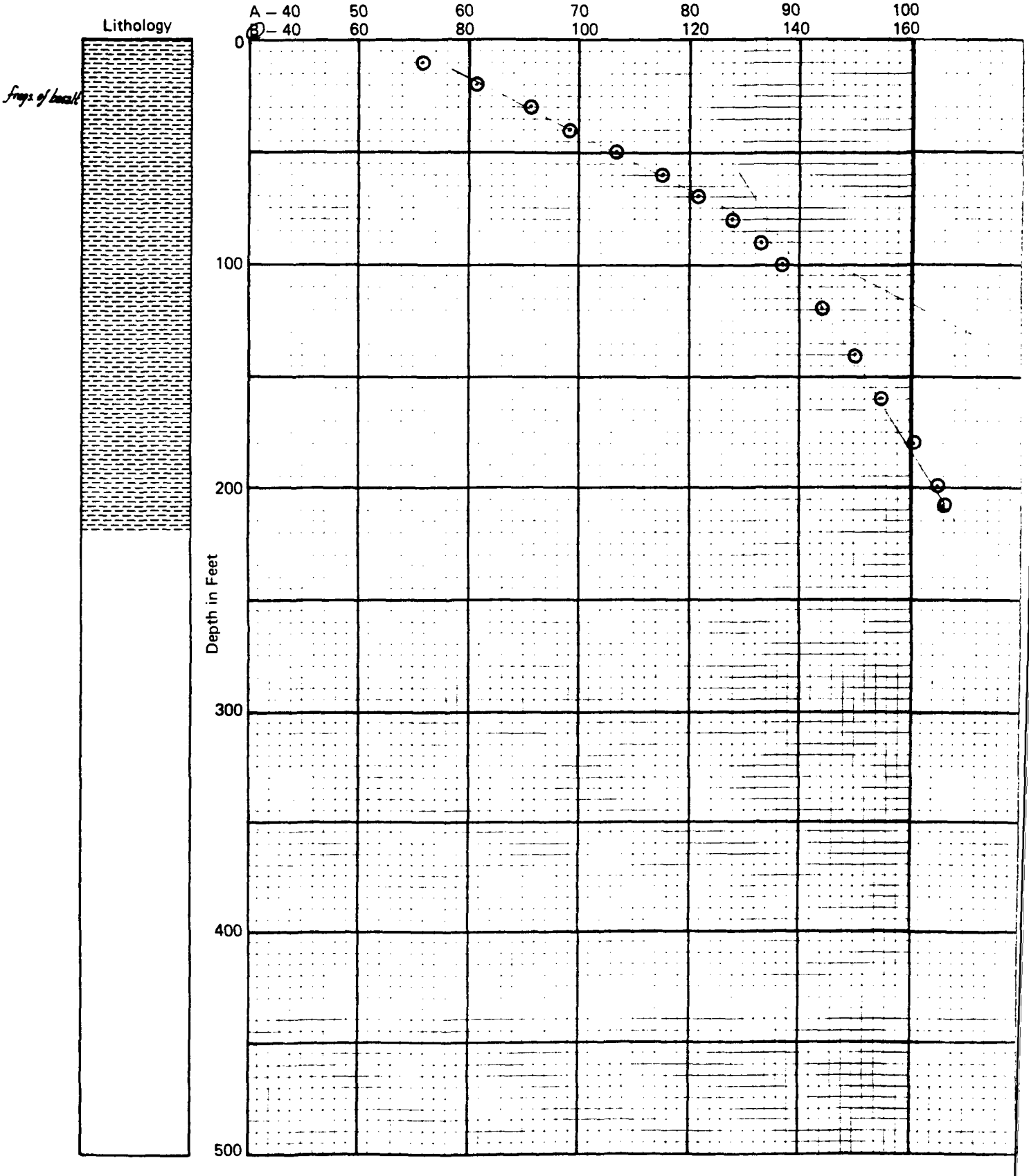
TIME START: 0755 TIME ON BOTTOM: 0900

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 13-77
Sec., 4 Twp., 29N Rge.: 23E

Date Completed: 11-16-77
Date Logged: 12-21-77
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO

STATE : NEV

HOLE NO. : 13-77

S.T.R. : [illegible] T29 N R23E

DATE COMPLETED : 11-[illegible]-77

DATE LOGGED : 12-21-77

LOGGED BY : [illegible]

UNIT NO. : [illegible]

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER [illegible]

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,620	71.9	~~220~~ 207	[illegible]	166.6
20	2,5[illegible]1	81.7	240		
30	[illegible]	91.4	260		
40	[illegible]	99.2	280		
50	[illegible]	107.1	300		
60	945	114.9	320		
70	865	121.6	340		
80	756	127.9	360		
90	699	132.5	380		
100	645	137.1	400		
120	567	144.1	420		
140	[illegible]	150.1	440		
160	467	154.9	460		
180	427	160.3	480		
200	397	164.7	500		

TIME START: 1620

TIME ON BOTTOM: 17[illegible]

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 13-77
S.T.R. : 5 & T29N R22E

DATE COMPLETED : 11-11-77
DATE LOGGED : 12-20-77
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER

BEGIN - BATT. V = 1145 END - BATT. V = 1119

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2,595	72.3	~~220~~ 227	387	166.2
20	2043	82.3	240		
30	1637	91.9	260		
40	1385	99.5	280		
50	1170	107.3	300		
60	996	114.9	320		
70	866	121.7	340		
80	772	127.7	360		
90	696	133.0	380		
100	645	137.1	400		
120	565	144.3	420		
140	509	150.0	440		
160	469	154.9	460		
180	426	160.5	480		
200	396	164.9	500		

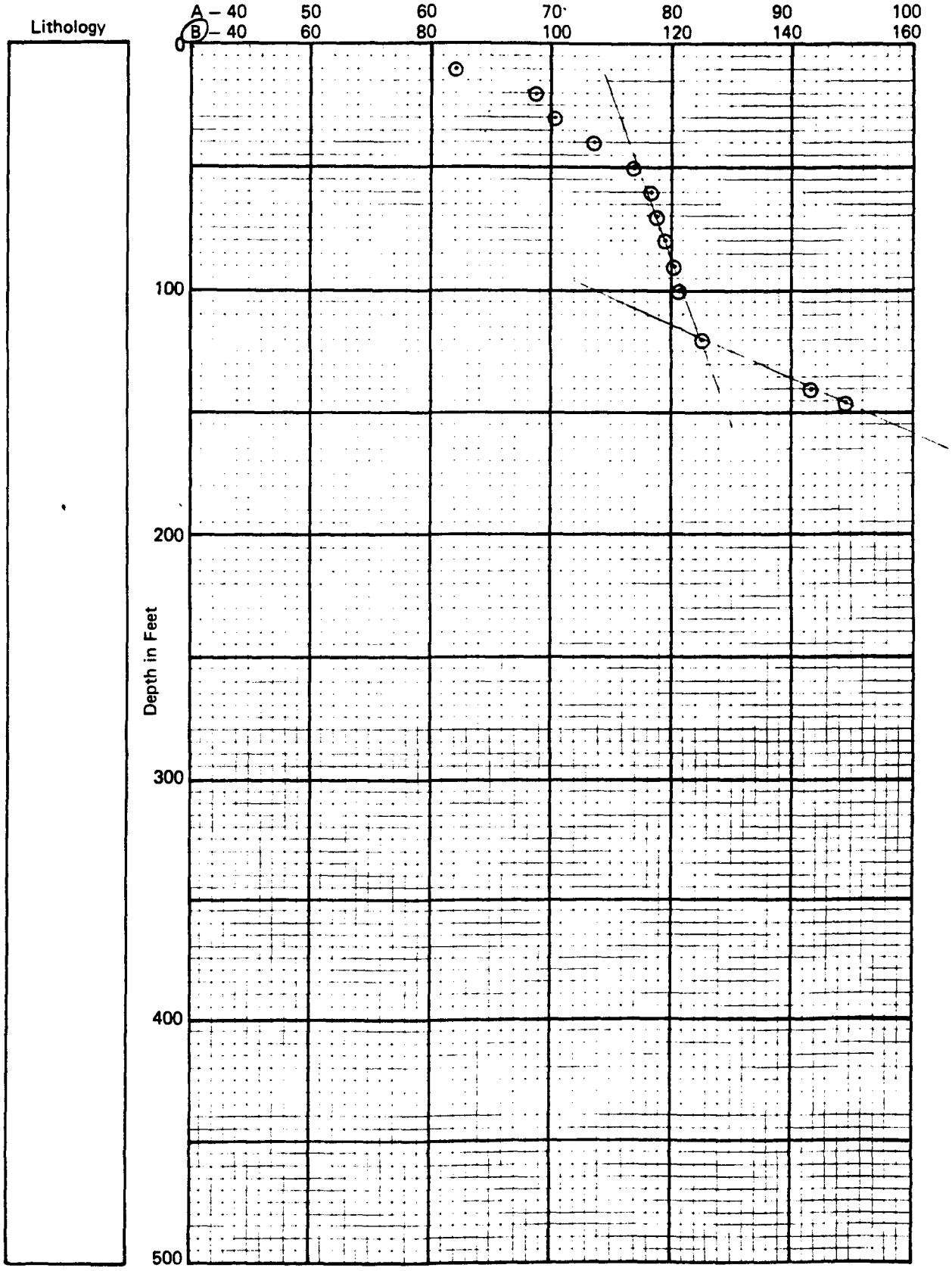
TIME START: 1205 TIME ON BOTTOM: 1310

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: SP-14-77 Shot hole
Sec., 9 Twp., 29N Rge.: 23E

Date Completed:
Date Logged: 11-16-77
Logged By: Fleiner
Temp. Probe: 1100'

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : SP 14-77
S.T.R. : T29N R23E

DATE COMPLETED :
DATE LOGGED : 11-13-77
LOGGED BY : FLEINER
UNIT NO. :

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER

BEGIN - BATT. V = 1129 END - BATT. V = 1108

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1,953	84.2	220		
20	1,438	97.7	240		
30	1,347	100.7	260		
40	1,166	107.4	280		
50	1,016	113.8	300		
60	965	116.5	320		
70	943	117.7	340		
80	918	119.0	360		
90	893	120.3	380		
100	865	121.7	400		
120	809	125.3	420		
140	571	143.7	440		
~~160~~ 146	518	148.9	460		
180			480		
200			500		

TIME START: 0905 TIME ON BOTTOM: 0935

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : SP14-77
S.T.R. : T29N R23E

DATE COMPLETED : _____
DATE LOGGED : 11-16-77
LOGGED BY : FLEINER
UNIT NO. : _____

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

BEGIN - BATT. V = 11.28 END - BATT. V = 11.08

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1,842	86.6	220		
20	1,422	98.2	240		
30	1,349	100.6	260		
40	1,155	107.9	280		
50	1,018	113.7	300		
60	969	116.3	320		
70	946	117.5	340		
80	924	118.6	360		
90	898	120.0	380		
100	871	121.4	400		
120	814	125.0	420		
140	568	144.0	440		
~~146~~ ~~160~~	523	148.5	460		
180			480		
200			500		

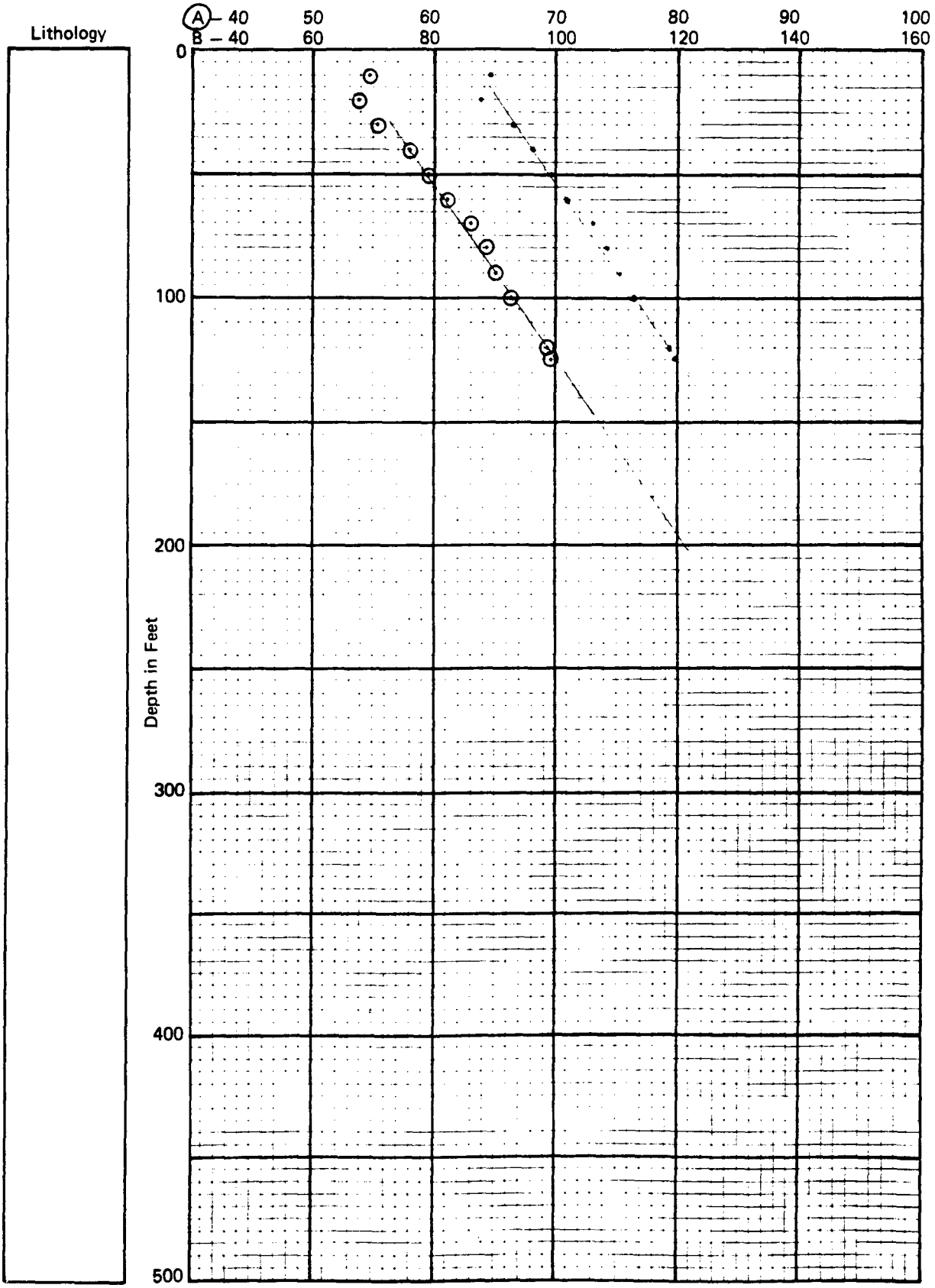
TIME START: 11 55 TIME ON BOTTOM: 12 35

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: SP-15-77 Shot hole
Sec., 9 Twp., 29N Rge.: 23E

Date Completed:
Date Logged: 11-16-77
Logged By: J Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : SP 15-77
S.T.R. : T29NR23E

DATE COMPLETED : _____
DATE LOGGED : 11-12-77
LOGGED BY : FLEINER
UNIT NO. : _____

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER

BEGIN - BATT. V = 1142 END - BATT. V = 1118

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,125	64.7	220		
20	3,195	63.9	240		
30	3,085	65.2	260		
40	2,865	68.0	280		
50	2,766	69.5	300		
60	2,671	71.1	320		
70	2,548	73.0	340		
80	2,477	74.2	360		
90	2,421	75.1	380		
100	2,348	76.2	400		
120	2,192	79.2	420		
~~125~~ 140	2,164	79.8	440		
160			460		
180			480		
200			500		

TIME START: 1045

TIME ON BOTTOM: 1130

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : SP 15-77
S.T.R. : T29N R23E

DATE COMPLETED : _____
DATE LOGGED : 11-16-77
LOGGED BY : FLEINER
UNIT NO. : _____

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

BEGIN - BATT V = 11.25 END - BATT V = 11.07

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,145	64.7	220		
20	3,195	63.4	240		
30	2,985	66.5	260		
40	2,863	68.0	280		
50	2,764	69.6	300		
60	2,674	71.0	320		
70	2,545	73.1	340		
80	2,473	74.2	360		
90	2,413	75.2	380		
100	2,336	76.4	400		
120	2,185	79.4	420		
~~140~~ 125	2,165	79.8	440		
160			460		
180			480		
200			500		

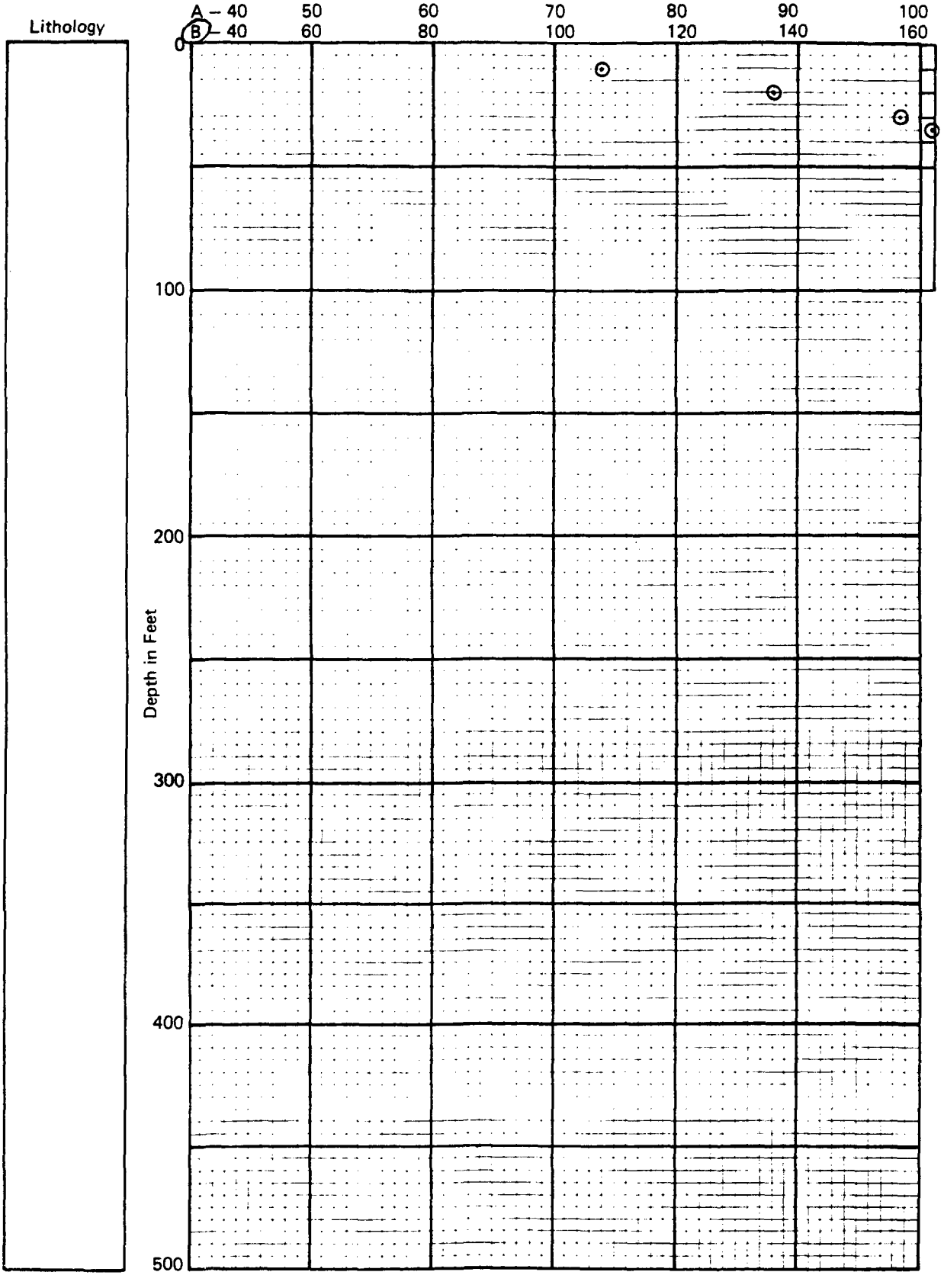
TIME START: 1250 TIME ON BOTTOM: 1325

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: SP-16-77 Shot hole
Sec., 9 Twp., 29N Rge.: 23E

Date Completed:
Date Logged: 11-16-77
Logged By: J. Fleiner
Temp. Probe: 1100'

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : SP 16-77
S.T.R. : T29N R23E

DATE COMPLETED :
DATE LOGGED : 11-12-77
LOGGED BY : FLEINER
UNIT NO. :

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN-BATT. V = 1132 END-BATT. V = 1119

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1155	107.9	220		
20	658	136.0	240		
30	450	157.1	260		
~~35~~ 40	416	161.9	280		
50			300		
60			320		
70			340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 1210 TIME ON BOTTOM: 1245

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : SP 16-77
S.T.R. : T29N R23E

DATE COMPLETED : _____
DATE LOGGED : 11-16-77
LOGGED BY : FLEINER
UNIT NO. : _____

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER

BEGIN - BATT. V = 1126 END - BATT. V = 1108

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	4133	108.8	220		
20	694	137.2	240		
30	449	157.3	260		
40	421	161.2	280		
50			300		
60			320		
70			340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

1 KΩ

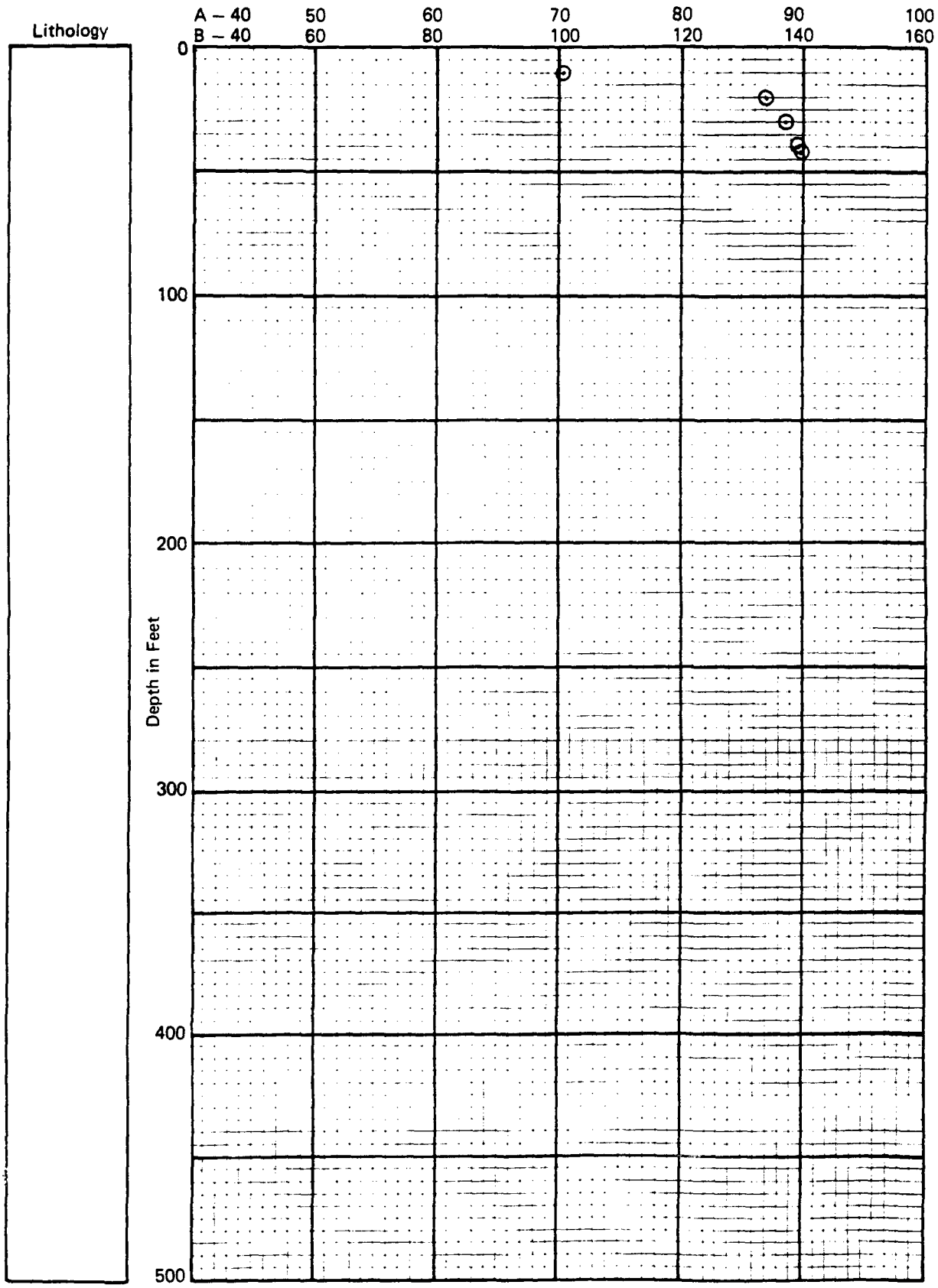
TIME START: 1400 TIME ON BOTTOM: 1435

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: SP-17-77 Shot hole
Sec., 4 Twp., 29N Rge.: 23E

Date Completed:
Date Logged: 11-16-77
Logged By: Fleiner
Temp. Probe: 1100'

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : SP 17-77
S.T.R. : T29N R23E

DATE COMPLETED :
DATE LOGGED : 11-13-77
LOGGED BY : FLEINER
UNIT NO. :

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

BEGIN - BATT. V = 1132 END - BATT. V = 1114

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1,355	100.4	220		
20	683	134.0	240		
30	646	137.0	260		
40	617	139.3	280		
~~50~~ 42	611	139.8	300		
60			320		
70			340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 0750 TIME ON BOTTOM: 0825

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : SP 17-77
S.T.R. : T29N R23E

DATE COMPLETED : _____
DATE LOGGED : 11-16-77
LOGGED BY : FLEINER
UNIT NO. : _____

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN - BATT. V = 1128 END - BATT. V = 1108

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1290	102.6	220		
20	684	134.0	240		
30	650	136.7	260		
40	622	138.9	280		
~~50~~ 42	615	139.5	300		
60			320		
70			340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

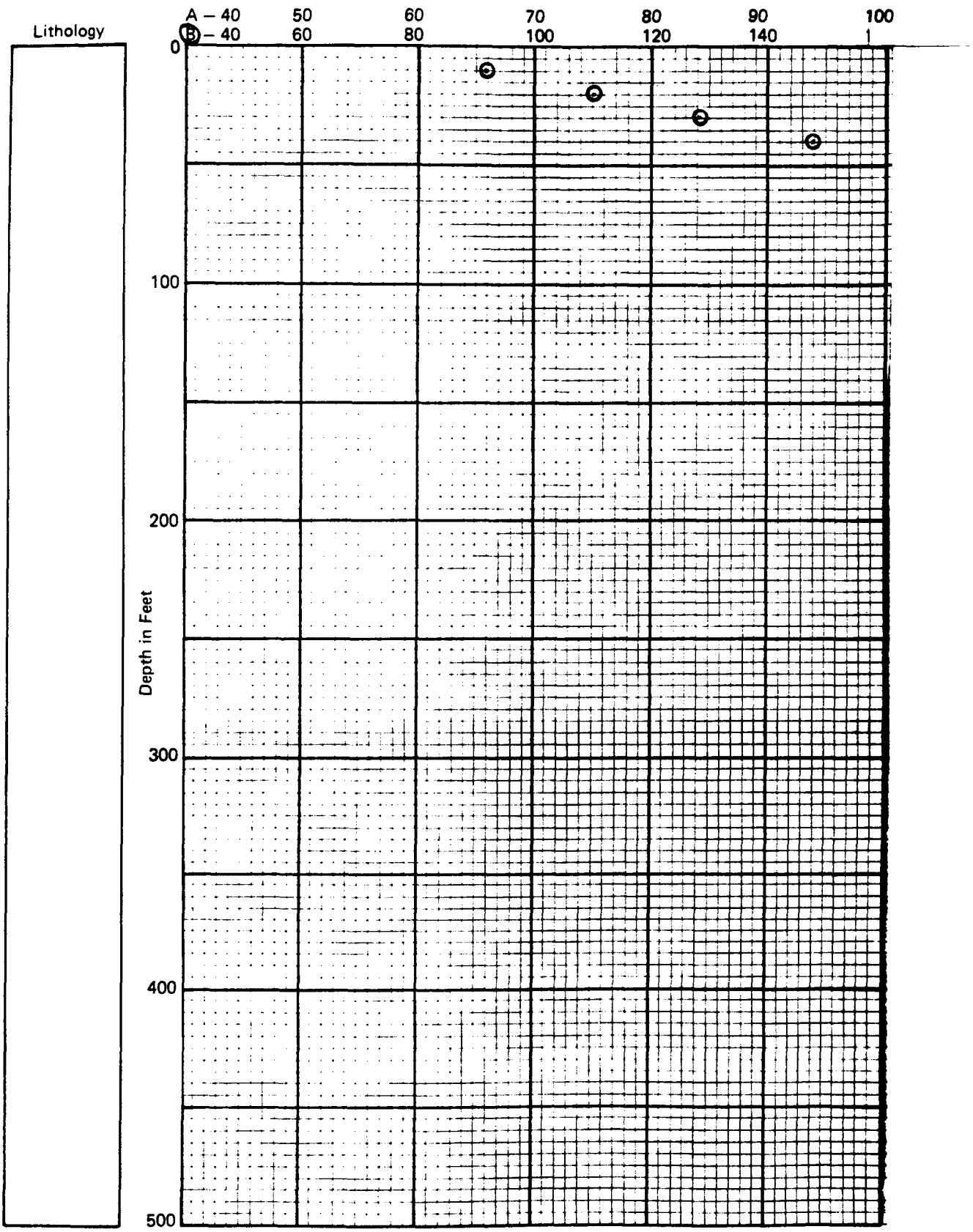
TIME START: 1710 TIME ON BOTTOM: 1755

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 18 sh - 77
Sec., 4 Twp., 29N Rge.: 23E

Date Completed:
Date Logged: 11-16-77
Logged By: J Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : SP 18-77
S.T.R. : T29N R23E

DATE COMPLETED :
DATE LOGGED : 11-12-77
LOGGED BY : FLEINER
UNIT NO. :

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER

BEGIN - BATT V = 1131 END BATT. V = 1118

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1,648	91.6	220		
20	1,094	110.4	240		
30	763	128.3	260		
40	529	147.9	280		
50	392	165.5	300		
~~60~~ 58	321	178.2	320		
70			340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

1K-Ω

TIME START: 1320 TIME ON BOTTOM: 1350

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : SP 18-77
S.T.R. : T29N R23E

DATE COMPLETED : _____
DATE LOGGED : 11-16-77
LOGGED BY : FLEINER
UNIT NO. : _____

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER

BEGIN - BATT. V = 1129 END - BATT. V = 1109

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1774	88.3	220		
20	1104	110.0	240		
30	770	127.8	260		
40	553	147.5	280		
50	400	164.3	300		
~~60~~ 58	323	177.7	320		
70			340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

1KΩ

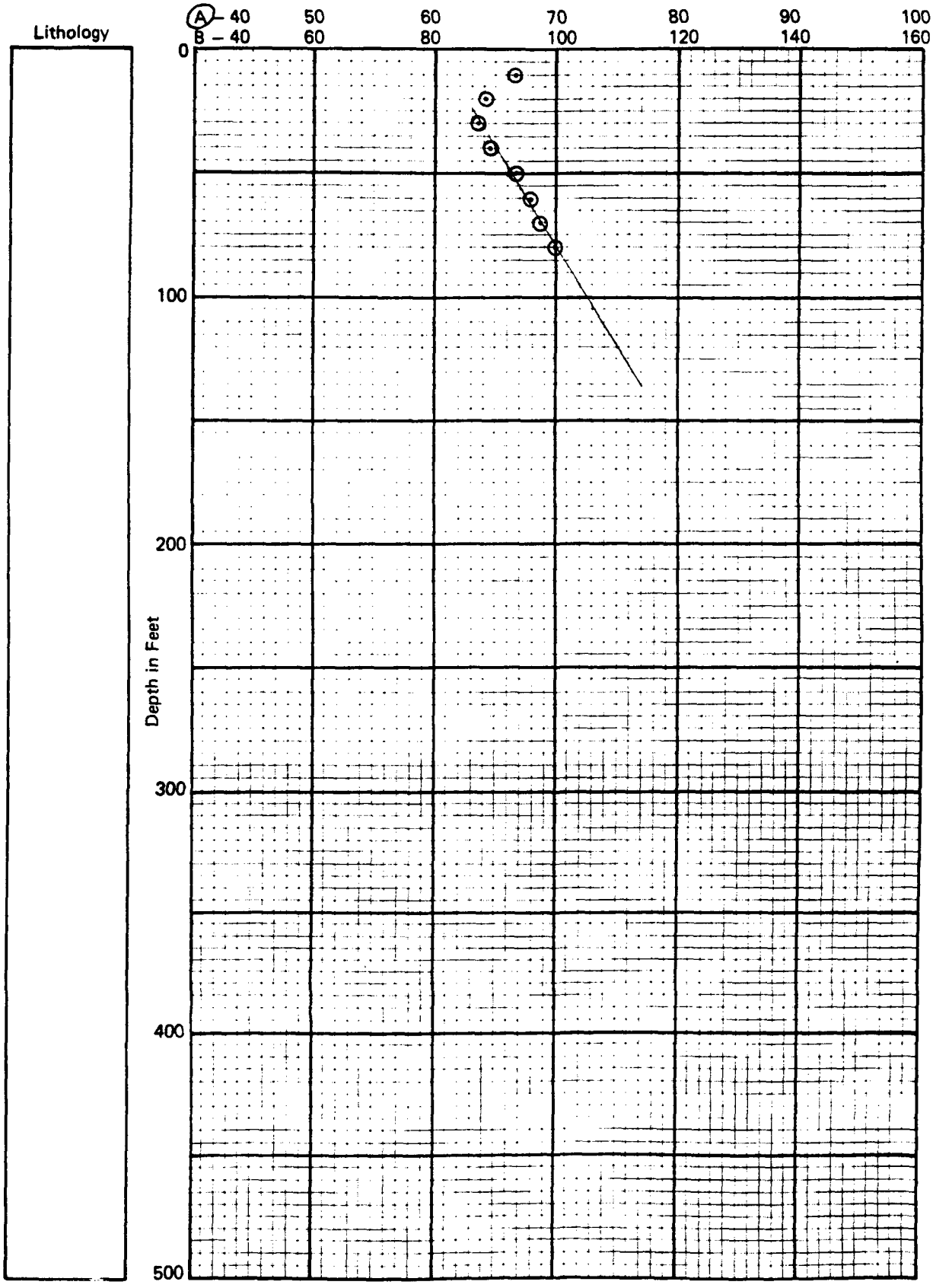
TIME START: 1610 TIME ON BOTTOM: 1645

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: SP-19-77 shot hole
Sec., ___ Twp., 29N Rge.: 23E

Date Completed: ___
Date Logged: 11-16-77
Logged By: Fleiner
Temp. Probe: 1100'

Temperature in °F
(Circle Scale Used)



Approved: ___

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : SP 19-77
S.T.R. : T29N R23E

DATE COMPLETED :
DATE LOGGED : 11-12-77
LOGGED BY : FLEINER
UNIT NO. :

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN-BATT. V = 1131 END-BATT. V = 1111

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2,968	66.7	220		
20	3,175	64.1	240		
30	3,225	63.5	260		
40	3,135	64.6	280		
50	2,968	66.7	300		
60	2,873	67.9	320		
70	2,812	68.8	340		
80	2738	70.0	360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 1410 TIME ON BOTTOM: 1435

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : SP 19-77
S.T.R. : T29N R23E

DATE COMPLETED : _____
DATE LOGGED : 11-16-77
LOGGED BY : FLEINER
UNIT NO. : _____

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER

BEGIN - BATT. V = 1130 END - BATT. V = 1114

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ)	3,085	65.2	220		
20	3,185	64.0	240		
30	3,245	63.2	260		
40	3,135	64.6	280		
50 (1KΩ)	2,956	66.8	300		
60	2,873	67.9	320		
70	2,803	68.9	340		
80	2,739	70.0	360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 1505 TIME ON BOTTOM: 1545

PROSPECT SAN EMIDIO

Well No.	Depth	Lithology	Comments
1-77	20'-25'	#1 - 60% sub-ang. to sub-round, small-med. gravels + frags of grey slate and shale + quartz; 30% ang., fine-med. sand, 10% unconsolid., brown clay and silt.	H_2O at 18' MUD Temp = 86° F.
	40'-45'	#2 - 70% ang., small gravel + frags of red and grey slate, quartz and chert; 20% ang., med.-coarse sand; 10% unconsolid., brown clay and silt.	MUD Temp = 88° F.
	60'-65'	#3 - 50% ang., frags of grey slate, phyllite and argillite, chert, quartz, 40% ang., fine-coarse sand (30% med.); 10% unconsolid., brown clay & silt.	MT = 92° F.
	80'-85'	#4 - 50% ang., frags of grey slate, phyllite & argillite, chert, quartz, 40% ang., fine-coarse sand (30% med.); 10% unconsolid., brown clay & silt.	MT = 102° F.
	100'-105'	#5 - 60% unconsolid., calcareous brown clay and silt; 30% ang., fine-coarse sand (15% fine + 10% coarse); 10% ang. to sub-ang., small gravel + frags of chert and slate.	MT = 104° F.
	120'-125'	#6 - 70% ang., small-med. gravels + frags of grey phyllite and argillite, metasediments and chert. 20% ang., med.-coarse sand, 10% unconsolid., brown clay and silt.	MT = 107° F.
	140'-145'	#7 - 70% ang., small-med. gravels + frags of grey phyllite and argillite, metasediments and chert. 20% ang., med.-coarse sand, 10% unconsolid., brown clay and silt.	MT = 108° F.
	160'-165'	#8 - 80% soft, sandy, calcareous, brown and green-grey clays; 20% ang. to sub-round, small gravel + frags of grey phyllite, chert and quartz.	MT = 111° F.

PROSPECT SAN EMIDIO

Well No.	Depth	Lithology	Comments
1-77	180'-185'	#9 - soft, sandy and silty, calcareous, grey-green clay.	MT = 115° F.
	200'-205'	#10 - soft, sandy and silty, calcareous, grey-green clay.	MT = 118° F.
	220'-225'	#11 - soft, sandy and silty, calcareous, grey-green clay.	MT = 119° F.
	240'-245'	#12 - soft, sandy and silty, calcareous, grey-green clay.	MT = 122° F.
	260'-265'	#13 - soft, sandy and silty, calcareous, grey-green clay.	MT = 117° F. added cold H_2O.
	280'-285'	#14 - soft, sandy, calcareous, grey-green clay.	MT = 122° F.
	300'-305'	#15 - 50% soft, sandy and silty, calcareous, grey-green clay; 30% ang., med.-coarse sand; 20% ang., frags, grey phyllite and slate, metasediments and chert.	MT = 124° F.
	320'-325'	#16 - 50% soft, sandy and silty, calcareous, grey-green clay; 30% ang., med.-coarse sand; 20% ang., frags, grey phyllite and slate, metasediments and chert.	MT = 124° F.
	340'-345'	#17 - poorly consolid., sandy and silty, calcareous, grey-green clay.	MT = 102° F. Added cold H_2O
	360'-365'	#18 - 70% ang. to sub-ang., small gravel + frags of grey slate, phylitte, argillite and metasediments + chert and quartz. 30% unconsolid., grey-green clay.	MT = 112° F.
	380'-385'	#19 - 60% ang., fine-coarse sand (20% fine & 30% med.); 30% ang. to sub-ang., small gravel + frags of grey slate, phyllite and argillite, + quartz and chert.	MT = 115° F.

PROSPECT SAN EMIDIO

Well No.	Depth	Lithology	Comments
1-77	400'-405'	#20 - 70% ang. to sub-ang., small gravel + frags of grey slate, phylitte, argillite and metasediments + chert and quartz. 30% unconsolid., grey-green clay.	MT = 121° F.
	420'-425'	#21 - 70% ang. to sub-ang., small gravel + frags of grey slate, phylitte, argillite and metasediments + chert and quartz. 30% unconsolid., grey-green clay.	MT = 124° F.

PROSPECT SAN EMIDIO

Well No.	Depth	Lithology	Comments
2-77	20'-25'	#1 - 80% soft, brown-yellow, sandy and silty clay, 20% ang., small gravel + frags of light-grey mudstone.	
	40'-45'	#2 - 60% ang., fine-coarse sand (30% fine and 20% med.); 30% unconsolid., yellow and brown clays; 10% ang. to sub-ang., small gravels.	
	60'-65'	#3 - 70% unconsolid., brown-yellow clay and silt; 20% ang., fine-coarse sand; 10% ang., small gravel.	
	80'-85'	#4 - 90% hard, sandy and silty, calcareous, grey clay; 10% ang. to sub-ang., sand and small gravel.	
	100'-105'	#5 - ang., frags of grey, silty mudstone.	
	120'-125'	#6 - 60% unconsolid green-grey clay and silt, 10% ang., frags of green-grey mudstone and siltstone.	
	140'-145'	#7 - 60% unconsolid green-grey clay and silt, 10% ang., frags of green-grey mudstone and siltstone.	
	160'-165'	#8 - 60% unconsolid green-grey clay and silt, 10% ang., frags of green-grey mudstone and siltstone.	
	180'-185'	#9 - ang., frags of green-grey siltstone.	
	200'-205'	#10 - soft, green-grey, silty clay.	
	220'-225'	#11 - soft, grey, silty clay.	
	240'-245'	#12 - 60% frags of green-grey siltstone; 40% unconsolid., green-grey clay and silt.	
	260'-265'	#13 - 70% soft, green-grey, silty clay, 30% frags of green-grey, siltstone.	

PROSPECT SAN EMIDIO

Well No.	Depth	Lithology	Comments
2-77	280'-285'	#14 - frags of green-grey siltstone.	
	300'-305'	#15 - frags of green-grey siltstone.	
	320'-325'	#16 - 80% frags of red-brown siltstone; 20% unconsolid., green-grey clay and silt.	
	340'-345'	#17 - frags of red-brown siltstone.	
	360'-365'	#18 - 90% frags of red-brown siltstone; 10% frags of grey and green-grey siltstone.	
	380'-385'	#19 - frags of brown-grey and grey-green siltstone.	H_2O at 380'. H_2O Temp. = 78° F.
	400'-405'	#20 - frags of brown-grey and grey-green siltstone.	H_2O Temp. = 78° F.
	420'-425'	#21 - frags of brown-grey and grey-green siltstone.	H_2O Temp. = 78° F.
	440'-445'	#22 - 80% frags of brown and grey siltstone; 20% unconsolid., grey and brown, clay and silt + some frags of chert.	H_2O Temp. = 79° F.
	460'-465'	#23 - 80% frags of brown and grey siltstone; 20% unconsolid., grey and brown, clay and silt + some frags of chert.	H_2O Temp. = 79° F.
	480'-485'	#24 - frags of brown and green siltstone.	H_2O Temp. = 79° F.
	495'-500'	#25 - frags of brown and green siltstone.	H_2O Temp. = 80° F.

LITHOLOGIC WELL LOG

San Emidio
Nevada
Well No. 3-77

Time	Depth (Ft.)		
0907	15-20	#1 - ang. to sub-ang. gravels	MT = 80°F
0915	35-40	#2 - same as #1.	MT = 80°F
0925	55-60	#3 - 50% ang. to sub.-ang. gravels; 25% unconsolid., brown, silty clay, 25% ang. to sub-round sands	MT = 80°F
0935	75-80	#4 - ang. to sub-ang. gravels and cobbles	MT = 80°F
0948	95-100	#5 - same as #4	MT = 80°F
1008	115-120	#6 - 50% ang. to sub-ang. gravels and cobbles, 25% unconsolid., brown, silty clay, 25% ang. to sub-ang. sands	MT = 80°F
1038	135-140	#7 - ang. to sub-ang. gravels and cobbles	MT = 80°F
1115	155-160	#8 - same as #7	MT = 80°F
1145	175-180	#9 - 75% ang. to sub-ang. gravels and cobbles, 25% unconsolid., brown, silty clay.	MT = 80°F
1155	195-200	#10 - same as #9	MT = 80°F
1208	215-220	#11 - same as #9	MT = 80°F
1215	235-240	#12 - 50% ang. to sub-ang. gravels, 50% ang. to sub-ang. sands	MT = 80°F
1228	255-260	#13 - 50% unconsolid., brown, silty clay, 50% ang. to sub-ang. sands	MT = 80°F
1234	275-280	#14 - same as #13	MT = 80°F
1240	295-300	#15 - same as #13	MT = 80°F
1249	315-320	#16 - 75% ang. to sub-ang. sands, 25% unconsolid., brown, silty clay	MT = 80°F
1254	335-340	#17 - same as #16	MT = 80°F

Time	Depth (Ft.)		
1303	355-360	#18 - same as #16	MT = 80°F
1315	375-380	#19 - 50% ang. to sub-ang. sands, 25% ang. to sub-ang. gravels, 25% unconsolid., brown, silty clay	MT = 80°F
1335	395-400	#20 - 50% ang. to sub-ang. gravels, 25% ang. to sub-ang. sands, 25% unconsolid., brown silty clay	MT = 80°F
1345	415-420	#21 - same as #20	MT = 80°F
1358	435-440	#22 - same as #20	MT = 80°F
1410	455-460	#23 - same as #20	MT = 80°F
1418	475-480	#24 - same as #20	MT = 80°F
1430	495-500	#25 - 50% ang. to sub-ang. sands, 25% ang. to sub-ang. gravels, 25% unconsolid., brown, silty clay.	MT = 85°F

LITHOLOGIC WELL LOG

San Emidio
Nevada
Well No. 4-77

Time	Depth (Ft.)		
0920	15-20	#1 - sub-round, coarse, basaltic gravels	MT = 85°F
0944	35-40	#2 - same as #1	MT = 80°F
0955	55-60	#3 - 90% sub-round gravels, 10% tan clay	MT = 85°F
1030	75-80	#4 - same as #3	MT = 82°F
1047	95-100	#5 - 80% basaltic gravels and cobbles, 20% tan clay	MT = 75°F
1100	115-120	#6 - same as #5	MT = 77°F
1107	135-140	#7 - same as #5	MT = 75°F
1112	155-160	#8 - same as #5	MT = 75°F
1119	175-180	#9 - soft, grey-green clay, some ang. volcanic frags.	MT = 75°F
1130	195-200	#10 - same as #9	MT = 80°F
1140	215-220	#11 - same as #9	MT = 75°F
1150	235-240	#12 - same as #9	MT = 80°F
1200	255-260	#13 - same as #9	MT = 80°F
1205	275-280	#14 - same as #9	MT = 82°F
1210	295-300	#15 - same as #9	MT = 80°F
1224	315-320	#16 - same as #9	MT = 80°F
1235	335-340	#17 - soft, grey-green clay and some ang. frags. of basalt	MT = 80°F
1245	355-360	#18 - same as #9	MT = 80°F
1252	375-380	#19 - 50% soft, tan clay, 50% basaltic gravels and cobbles	MT = 81°F
1300	395-400	#20 - same as #19	

Time	Depth (Ft.)		
1305	415-420	#21 - same as #19	MT = 80°F
1313	435-440	#22 - same as #19	MT = 84°F
1324	455-460	#23 - Soft grey-green clay, and some ang. frags. of volcanics	MT = 80°F
1340	475-480	#24 - same as #23	MT = 80°F
1400	495-500	#25 - same as #23	MT = 80°F

LITHOLOGIC WELL LOG

San Emidio
Nevada
Well No. 5-77

Time	Depth (Ft.)		
0930	15-20	#1 - soft, tan clay, and ang. volcanic frags (basalt and tuff)	MT = 80°F
0937	35-40	#2 - 80% ang., basaltic gravels and cobbles, 20% soft tan clay	MT = 80°F
0941	55-60	#3 - same as #2	MT = 80°F
0946	75-80	#4 - same as #2	MT = 80°F
0951	95-100	#5 - 90% ang. to sub-round coarse sand, and some frags. of basalt, 10% tan clay	MT = 80°F
0957	115-120	#6 - same as #5	MT = 75°F
1005	135-140	#7 - same as #5	MT = 75°F
1018	155-160	#8 - same as #5	MT = 75°F
1030	175-180	#9 - same as #5	MT = 75°F
1050	195-200	#10 - same as #5	MT = 75°F
1127	215-220	#11 - same as #5	MT = 75°F
1145	235-240	#12 - same as #5	MT = 75°F
1205	255-260	#13 - ang., coarse, basaltic sand and some clay	MT = 75°F
1230	275-280	#14 - same as #13	MT = 75°F
1300	295-300	#15 - same as #13	MT = 75°F
1330	315-320	#16 - same as #13	MT = 75°F
1400	335-340	#17 - same as #13	MT = 75°F
1432	355-360	#18 - same as #13	MT = 75°F
1500	375-380	#19 - same as #13	MT = 80°F
1512	395-400	#20 - same as #13	MT = 80°F
1525	415-420	#21 - same as #13	MT = 80°F

LITHOLOGIC WELL LOG

San Emidio
Nevada
Well No. 6-77

Time	Depth (Ft.)		
0935	15-20	#1 - 90% ang. to sub-round gravels and cobbles, 10% unconsolid. brown clay and silt, a few gastropod shells	MT = 80°F
0945	35-40	#2 - same as #1	MT = 78°F
0950	55-60	#3 - ang. to sub-ang., med.-large gravels and cobbles and boulders	MT = 75°F
0955	75-80	#4 - same as #3	MT = 75°F
1001	95-100	#5 - same as #3	MT = 75°F
1007	115-120	#6 - same as #3	MT = 75°F
1015	135-140	#7 - 75% ang. to sub-round small-large gravels and cobbles, 25% sub-ang. sands	MT = 75°F
1019	155-160	#8 - same as #7	MT = 75°F
1048	175-180	#9 - same as #7	MT = 75°F
1056	195-200	#10 - same as #7	MT = 75°F
1103	215-220	#11 - ang. to sub-ang. gravels and cobbles	MT = 75°F
1110	235-240	#12 - ang. to sub-ang. gravels and cobbles, 25% ang. to sub-ang. sands, 25% unconsolid. red-brown, silty clay	MT = 75°F
1115	255-260	#13 - same as #12	MT = 75°F
1122	275-280	#14 - 50% unconsolid. red-brown, silty clay, 25% sub-ang. gravels, 25% ang. to sub-ang. sands	MT = 75°F
1128	295-300	#15 - same as #14	MT = 75°F
1138	315-320	#16 - same as #14	MT = 75°F
1141	335-340	#17 - ang. to sub-ang. gravels and some sand	MT = 75°F

Time	Depth (Ft.)		
1152	355-360	#13 - 50% ang. to sub-ang. gravels, 25% unconsolid. red-brown, silty clay, 25% ang. to sub-ang. sands	MT = 75°F
1200	375-380	#19 - same as #18	MT = 75°F
1207	395-400	#20 - same as #18	MT = 75°F
1217	415-420	#21 - 50% sub-ang. to sub-round sands, 25% sub-ang. to sub-round gravels, 25% unconsolid. brown, silty sand	MT = 80°F
1225	435-440	#22 - 50% sub-ang. to sub-round sands, 25% sub-ang. to sub-round gravels, 25% unconsolid. brown, silty clay	MT = 75°F
1237	455-460	#23 - same as #22	MT = 75°F
1247	475-480	#24 - 50% ang. to sub-ang. gravels, 50% ang. to sub-ang. sands	MT = 75°F
1300	495-500	#25 - same as #24	MT = 75°F

LITHOLOGIC WELL LOG

San Emidio
Nevada
Well No. 7-77

Time	Depth (Ft.)		
1040	15-20	#1 - ang. gravels and some frags. of carbonate	MT = 75°F
1100	35-40	#2 - same as #1	MT = 75°F
1105	55-60	#3 - same as #1	MT = 75°F
1115	75-80	#4 - 90% ang. gravels, 10% tan clay	MT = 75°F
1120	95-100	#5 - same as #1	MT = 75°F
1135	115-120	#6 - same as #1	MT = 75°F
1145	135-140	#7 - same as #1	MT = 75°F
1200	155-160	#8 - 90% volcanic gravels and cobbles, 10% tan clay	MT = 75°F
1214	175-180	#9 - same as #8	MT = 75°F
1225	195-200	#10 - same as #8	MT = 75°F
1245	215-220	#11 - ang. frags. of weathered basalt	MT = 75°F
1300	235-240	#12 - sub-ang. to sub-round, volcanic gravels	MT = 75°F
1309	255-260	#13 - 90% sub-ang. to sub-round volcanic gravels, 10% tan clay	MT = 75°F
1323	275-280	#14 - sub-ang. to sub-round volcanic gravels	MT = 75°F
1333	295-300	#15 - same as #14	MT = 75°F
1347	315-320	#16 - same as #14	MT = 75°F
1400	335-340	#17 - same as #14	MT = 75°F
1410	355-360	#18 - same as #14	MT = 75°F
1430	375-380	#19 - same as #14	MT = 75°F
1445	395-400	#20 - same as #14	MT = 75°F Hard rock at 405'
1500	415-420	#21 - ang. frags. of basalt	MT = 75°F

LITHOLOGIC WELL LOG

Sam Emidio
Nevada
Well No. 8-77

Time	Depth (Ft.)		
0915	15-20	#1 - Poorly consolid., tan, calcareous, silty clay	MT = 85°F
0925	35-40	#2 - coarse sand and some tan clay	MT = 90°F
0935	55-60	#3 - soft, grey-green, silty clay and a few ang. frags. of basalt	MT = 90°F
0957	75-80	#4 - Soft, grey-green and tan, calcareous, silty clays	MT = 104°F
1043	95-100	#5 - ang. frags. of weathered basalt	MT = 107°F
1055	115-120	#6 - soft, grey-green clay and some ang. frags. of basalt	MT = 115°F

LITHOLOGIC WELL LOG

San Emidio
Nevada
Well No. 9-77

Time	Depth (Ft.)		
1315	15-20	#1 - sub-ang. to sub-round gravels and cobbles	MT = 85°F
1330	35-40	#2 - 50% unconsolid., brown, silty, calcareous clay, 50% sub-ang. gravels and sands	MT = 85°F
1345	55-60	#3 - 75% poorly consolid., gray-brown, silty clay, 25% ang. frags. of gray-brown and gray-green, siltstone and some gravels	Partial loss of circulation
1350	75-80	#4 - same as #3	MT = 90°F
1355	95-100	#5 - soft, gray, silty, calcareous clay	MT = 90°F Lost circulation
1403	115-120	#6 - soft, green-gray and gray, silty clays	MT = 90°F Lost circulation
1452	135-140	#7 - soft, gray-green, silty, calcareous clay	MT = 90°F Lost circulation
1500	155-160	#8 - same as #7	MT = 92°F
1515	175-178	#9 - same as #7	MT = 90°F

LITHOLOGIC WELL LOG

San Emidio
Nevada
Well No. 10-77

Time	Depth (Ft.)		
0910	15-20	#1 - 75% soft, gray-brown, silty clay, 25% ang. frags. of calcareous tuffa and some sub-ang. gravels	MT = 85°F
0920	35-40	#2 - 75% soft to hard calcareous gray-brown and gray-green, silty clay, 25% ang. frags. of calcareous tuffs and some sub-ang. gravels	MT = 85°F
0927	55-60	#3 - ang. frags. of dark green-gray basalt with some carbonate veining	MT = 85°F
0931	75-80	#4 - 75% poorly consolid., silty calcareous clay, 25% ang. frags. of basalt and some frags. of calcareous tuffa	MT = 80°F
0936	95-100	#5 - 75% sub-ang. gravels and frags. of calcareous tuffa, 25% poorly consolid., silty, green and gray, calcareous clay	MT = 82°F
0945	115-120	#6 - same as #5	MT = 85°F
0950	135-140	#7 - same as #5	MT = 90°F
0955	155-160	#8 - 90% soft, gray and green-gray silty, calcareous clays, 10% sub-ang. gravels	MT = 90°F
1000	175-180	#9 - 50% ang. to sub-ang. gravels and cobbles, 50% soft, gray and green-gray, silty, calcareous clay	MT = 90°F
1005	195-200	#10 - same as #9	MT = 95°F
1013	215-220	#11 - same as #9	MT = 90°F

LITHOLOGIC WELL LOG

San Emidio
Nevada

Well No. 11-77

Time	Depth (Ft.)		
1255	15-20	#1 - 90% sub-ang., gravels, 10% soft, light-gray clay	MT = 85°F
1320	35-40	#2 - same as #1	MT = 79°F
1332	55-60	#3 - Soft, gray-green clay and some ang. frags. of basalt	MT = 75°F
1339	75-80	#4 - same as #3.	MT = 75°F
1344	95-100	#5 - same as #3	MT = 80°F
1421	115-120	#6 - same as #3	MT = 84°F
1435	135-140	#7 - same as #3	MT = 84°F
1444	155-160	#8 - same as #3	MT = 85°F
1455	175-180	#9 - same as #3	MT = 84°F
1505	195-200	#10- same as #3	MT = 84°F
1530	215-220	#11- same as #3	MT = 80°F

LITHOLOGIC WELL LOG

San Emidio
Nevada
Well No. 12-77

Time	Depth (Ft.)		
1240	15-20	#1 - 75% ang. frags. of gray and brown, calcareous, siltstone, 25% unconsolid. gray, silty calcareous clay	MT = 85°F
1250	35-40	#2 - 75% unconsolid. gray, silty calcareous clay, 25% sub-ang. gravels and ang. frags. of calcareous siltstone	MT = 85°F
1255	55-60	#3 - sub-ang. to sub-round gravels and cobbles	MT = 100°F
1300	75-80	#4 - same as #3	MT = 103°F
1327	95-100	#5 - same as #3	MT = 105°F
1520	115-120	#6 - ang. frags. of gray, calcareous siltstone and sub-ang. to sub-round gravels	MT = 110°F

LITHOLOGIC WELL LOG

San Emidio
Nevada
Well No. 13-77

Time	Depth (Ft.)		
0855	15-20	#1 - Poorly consolid., gray-green clay and some ang. frags. of weathered basalt	MT = 78°F
0911	35-40	#2 - same as #1	MT = 75°F
0924	55-60	#3 - same as #1	MT = 75°F
0934	75-80	#4 - same as #1	MT = 80°F
0959	95-100	#5 - same as #1	MT = 73°F
1009	115-120	#6 - same as #1	MT = 70°F
1022	135-140	#7 - same as #1	MT = 85°F
1033	155-160	#8 - same as #1	MT = 82°F
1045	175-180	#9 - same as #1	MT = 80°F
1102	195-200	#10 - same as #1	MT = 85°F
1119	215-220	#11 - same as #1	MT = 92°F

STATE: Nevada

AREA, SPRING, OR WELL NAME San Emido Temp. Hole 1-77-A

LOCATION NE¼ of SE¼ of Sec 33 T30N R23E

COUNTY Washoe DATE 6-18-77

DISCHARGE none DEPOSITS none

TEMP 127 °F pH (field)

ANALYSIS (collected by or source:)

TDS	4,300	Cl	1600
Spec cond	6560	SO_4	220
Na	1300	CO_3	< 2
K	120	HCO_3	50
Ca	130	F	3.1
Mg	2.1	B	3.6
Mn	.07	SiO_2	140
~~Hg~~		pH (lab)	7.7
As	.14	Other	
U	< 2		
Al	< .1		
Fe	.5		
Li	3.0		

ESTIMATED BASE TEMPERATURES

SiO_2, Max steam loss:	302 °F	SiO_2, no steam loss:	314 °F
Na/K:	346 °F	Na/K/Ca:	386 °F

Other:

STATE: Nevada

AREA, SPRING, OR WELL NAME San Emidio Temp Hole 2-77

LOCATION SE¼ of SE¼ of Sec 33 T30N R23E

COUNTY Washoe DATE 6-17-77

DISCHARGE None DEPOSITS None

TEMP 78°F pH (field)

ANALYSIS (collected by or source:)

TDS	3000	Cl	550
Spec cond	4,300	SO_4	1750
Na	640	CO_3	<2
K	6.6	HCO_3	35
Ca	310	F	1.4
Mg	7.3	B	.7
Mn	.49	SiO_2	5.6
Hg		pH (lab)	7.2
As	<.05	Other	
U	< 2		
Al	.6		
Fe	.4		
Li	.38		

ESTIMATED BASE TEMPERATURES

SiO_2, Max steam loss:	-o-	SiO_2, no steam loss:	71°F
Na/K:	61°F	Na/K/Ca:	119°F
Other:			

PROGRAM UPDATED 2/24/77

AREA: SED&BM

CATION GEOTHERMOMETRY

STATION	PPM NA	PPM K	PPM CA	NA-K TEMP C	NA-K TEMP F	NAKCA TEMP C	NAKCA TEMP F	CONST. USED
SED1	1300.0	120.0	130.0	175.	346.	197.	386.	1/3
SED2	640.0	6.6	310.0	16.	61.	48.	119.	4/3
BM16	74.0	9.6	30.0	216.	421.	85.	185.	4/3

SILICA GEOTHERMOMETRY

STATION	PPM SIO2	MAX STEAM LOSS TEMP C	NO STEAM LOSS TEMP C	CHERT TEMP C	CRISTOB TEMP C	GLASS TEMP C
SED1	140.0	149.	157.	133.	107.	35.
SED2	5.6	8888.	22.	8888.	-25.	9999.
BM16	40.0	8888.	92.	61.	42.	8888.

SILICA GEOTHERMOMETRY

STATION	PPM SIO2	MAX STEAM LOSS TEMP F	NO STEAM LOSS TEMP F	CHERT TEMP F	CRISTOB TEMP F	GLASS TEMP F
SED1	140.0	301.	314.	271.	224.	95.
SED2	5.6	8888.	71.	8888.	-13.	9999.
BM16	40.0	8888.	197.	142.	107.	8888.

8888. INDICATES THE LOWER BOUND OF THE EQUATION HAS BEEN EXCEEDED.

9999. INDICATES THE UPPER BOUND OF THE EQUATION HAS BEEN EXCEEDED.

ENTER DATA

```
> &DATA STOP='YES',&END

10.40.59 >LOG
INVALID CSS COMMAND

10.41.09 >LOG
VPU=$  0.73,  I/O=$  0.00,  CON=$  1.76,  TOT=$  1.75
 70 VPU'S, .24 CONNECT HRS, 300 I/O
LOGGED OFF AT 10.41.19 ON  03AUG77
```

SKYLINE LABS, INC.
SPECIALISTS IN EXPLORATION GEOCHEMISTRY
12090 WEST 50TH PLACE • WHEAT RIDGE, COLORADO 80033 • TEL.: (303) 424-7718

REPORT OF ANALYSIS

Job No. 120392
July 30, 1977

Chevron Oil Company
Minerals Staff
Attention: Roger J. Allmendinger
575 Market Street
San Francisco, California 94105

Analysis of 3 Water Samples

Item	Sample Number		Na (mg/l)	K (mg/l)	Mg (mg/l)	Ca (mg/l)	Li (mg/l)
1.	San Emidio #1	acid	1,300	120.	2.1	130	3.0
2.	San Emidio #2	acid	640	6.6	7.3	310	.38
3.	Battle Mountain #16	raw	74	9.6	7.0	30	.08

Item	Sample Number		Al (mg/l)	Mn (mg/l)	Fe (mg/l)	U (mg/l)
1.	San Emidio #1	acid	<.1	.07	.5	<2
2.	San Emidio #2	acid	.6	.49	.4	<2
3.	Battle Mountain #16	raw	<.1	.31	1.8	<2

Item	Sample Number		As (mg/l)	B (mg/l)	SO_4 (mg/l)	F (mg/l)	Cl (mg/l)
1.	San Emidio #1	raw	.14	3.6	220	3.1	1,600
2.	San Emidio #2	raw	<.05	.7	1,750	1.4	550
3.	Battle Mountain #16	raw	<.05	<.1	150	.70	22

Item	Sample Number		CO_3 (mg/l)	HCO_3 (mg/l)	pH	Specific Conductance (micromhos/cm)
1.	San Emidio #1	raw	<2	50	7.7	6,560
2.	San Emidio #2	raw	<2	35	7.2	4,300
3.	Battle Mountain #16	raw	<2	160	7.6	604

Item	Sample Number		TDS (mg/l)	SiO_2 (mg/l)
1.	San Emidio #1	raw	4,300	*
2.	San Emidio #1	dilute	*	14.
3.	San Emidio #2	raw	3,000	5.6
4.	Battle Mountain #16	raw	400	40.

Edwin J. Post
for Charles E. Thompson
Chief Chemist

* Analysis not requested

San Emido Desert

Seismic Shot Point Temperatures

Line # 1

S. P. #	Depth	Temperature
24	22'	65°F
40	15'	63°F
62	250'	109°F
62	150'	103°F
68	150'	87°F
70	120'	71°F

San Emido Desert

Seismic Shot Point Temperatures

Line # 2

S. P. #	Depth	Temperature
32	22'	60°F
30	22'	60°F
64	17'	95°F -#1 95°F -#2
62	13'	81°F -#1 83°F -#2
60	22'	75°F -#1 75°F -#2
28	22'	60°F
36	22'	66°F
38	22'	72°F
40	22'	69°F
42	22'	63°F
44	22'	66°F
46	22'	63°F
48	22'	65°F
50	22'	72°F
52	22'	65°F
54	9'	69°F
58	22'	73°F -#2
56	22'	69°F

San Emido Desert

Seismic Shot Point Temperatures

Line # 3

S. P. #	Depth	Temperature
24	23'	61°F at 20'
26	22'	72°F -#1 74°F at 20' #2
28	22'	70.7°F - #1 at 20' 69.5 -#2
30	22'	69.5°F - #1 at 20' 70.5°F
32	22'	74°F - #1 74°F -#2
34	22'	72°F - #1 72.5 - #2
36	22'	74.5°F - #1 75°F - #2
38	17'	88°F - #1 88°F - #2
39-1/2	15'	90°F
40	22'	84°F - #2
42	22'	87.5°F - #1 86°F - #2
44	22'	112°F #'s 1&2
46	22'	87°F -#1 85°F -#2
50	22'	91°F at 20' #1 92°F at 20' #2
56	22'	90°F -#1 92°F -#2
58	22'	92°F at 20' #'s 1&2
60	22'	117°F at 20' #1 113°F - #2

San Emido Desert

Seismic Shot Point Temperatures

Line # 3 (page 2)

S. P. #	Depth	Temperature
62	20'	$140^{\circ}F$ - #1 $130^{\circ}F$ - #2
64	20'	$157.6^{\circ}F$ at 14'
66	60'	$167^{\circ}F$
68 with pipe	160' 140' of pipe	$185^{\circ}F$ at 150'
70	80'	$75^{\circ}F$ at 70'
76 with pipe	120' of pipe	

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 6-77
S.T.R. : S 29 T 29N R 23E

DATE COMPLETED : 11-16-77
DATE LOGGED : 12-19-77
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

BEGIN - BATT V = 1148 END - BATT V = 1116

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,315	62.4	220	1,784	88.1
20	2,979	66.5	240	1,699	90.3
30	2,826	68.6	260	1,614	92.5
40	2,639	71.6	280	1,518	95.0
50	2,579	72.5	300	1,441	97.6
60	2,494	73.9	320	1,369	100.0
70	2,408	75.3	340	1,302	102.2
80	2,347	76.3	360	1,235	104.5
90	2,289	77.2	380	1,173	107.1
100	2,234	78.4	400	1,118	109.4
120	2,142	80.3	420	1,067	111.6
140	2,069	81.8	440	1,015	113.9
160	2,015	82.9	460	971	116.2
180	1951	84.2	480	928	118.4
200	1,876	85.7	~~490~~ 500	905	119.6

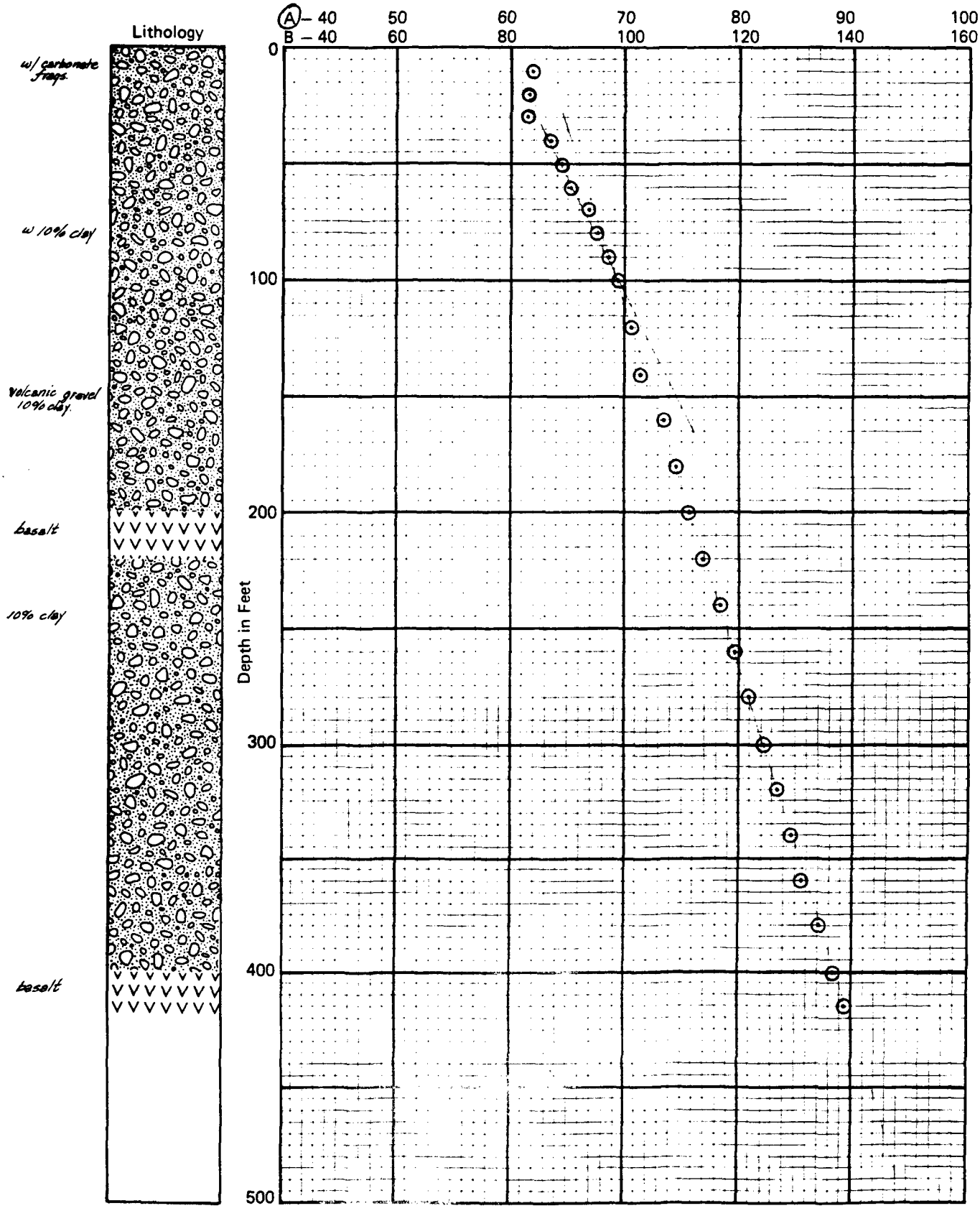
TIME START: 1225 TIME ON BOTTOM: 1305

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 7-77
Sec. 28 Twp., 29N Rge.: 23E

Date Completed: 11-9-77
Date Logged: 11-14-77
Logged By: Jack Fleiner
Temp. Probe: 1100'

Temperature in °F
(Circle Scale Used)



Approved: _____

1978 SAN EMIDIO SHALLOW TEMPERATURE HOLE PROGRAM

BY K.L. COMSTOCK

CHEVRON RESOURCES

Memorandum

June 13, 1978

SAN EMIDIO
1978 SHALLOW TEMPERATURE HOLE PROGRAM

Mr. M. A. LANE:

The 1978 shallow temperature hole program for the San Emidio prospect consisted of 32 holes. The holes were drilled by Western Geophysical (J. Moore, driller) under the supervision of Jack D. Fleiner. They were drilled to a maximum depth of 500ft., two days of drilling or to the top of the silica cap.

The temperature holes were drilled in two phases. The first phase was designed to further evaluate our leases in the area. And to define the north and south extent of the thermal anomaly. The second phase was designed to evaluate Phillips' leases to the east of our holdings.

The shallow temperature holes indicate the thermal anomaly is located, approximately, in the middle of sections 4, 9, 16 and 21, 29N,23E with a north-south trend. However, the anomaly does not appear to extend to depth in these sections(see Kosmos 1-8, Kosmos 1-9 and Phillips #1 Strat. Well).

The gradients and temperatures of the holes drilled on Phillips leases are not as high as those in holes drilled on the Chevron leases. However the gradients and temperatures for some of these holes indicate there is heat in the immediate area.

It appears the thermal resevoir may be located to the east of where it was originally thought to be and that the high temperatures and gradients to the west are caused by western flow of hot water at shallow to moderate depths.

KAREN L. COMSTOCK

KLC/jmm

SAN EMIDIO DR[illegible]T

R = reversal on T-Z profile

⊢⊣ = isothermol or reversal

-- = no data

( ) = TG Turn over T-Z

E = estimated

T hole #	Z	°F/100ft 100/50	°F/100ft 200/100	°F/100ft 300/200	°F/100ft 400/300	°F/100ft 500/400	°F$_{100'}$	°F/200'	°F/300'	°F/400'	°F/500	Comments
1-77	419	13	18	E18	⊢⊣	—	140.2	157.3	R	R	—	R~270'
2-77	491	7	7°	7°	7°	7°	71.4	77.4	84.7	92	99	
3-77	492	16	7	6.8	11.2	11.2	95	101.2	109	120	131.8	
4-77	491	10.7	10.7	10.7	10.7	10.7	67.6	78.4	88.4	99	119.5	
5-77	421	32.6	⊢⊣	⊢⊣	13.8	E13.8	92.3	R	R	105.5	E127	R~135 picks up ~310'
6-77	492	11	8.0	11.3	11.3	11.3	78.4	86.2	97	108.5	119.9	
7-77	415	8.2	6.2	6.2	6.2	E6.2	69.5	75.7	82.2	88.7	E95	
8-77	100	E184 80'	—	—	--	--	(232.1)	—	—	—	—	( ) @ 75'
9-77	180	56 30'	25	--	--	--	125.8	(E154)	—	—	—	( ) @ ~160'
.0-77	210	46	18.5	--	--	--	125.8	(145.5)	—	—	—	( ) @ ~100'
.1-77	211	9	9	--	--	--	71.8	80.1	--	--	--	
.2-77	120	72	⊢⊣	--	--	--	228.2	--	—	--	--	( ) @ ~90'
.3-77	207	78	24.5	--	--	--	137.1	(164.7)	--	--	--	Picks up @ 120'
4SL-77	146	35	E88	—	—	--	122.0	—	—	—	--	
15SL-77	125	14.0	--	—	—	—	76.4	--	—	—	—	
16SL-77	35	—	—	—	--	--	—	--	--	—	--	
17SL-77	42	—	—	—	—	—	—	—	—	--	--	
18SL-77	58	—	—	—	—	—	—	—	--	—	--	
19SL-77	80	12.4	—	—	—	—	E72.6	--	—	—	—	
3-74-1	212'	77	40	—	—	—	180°	222°	—	—	—	
3-74-3	78	50	—	--	—	—	274	--	—	—	—	
3-74-4	421	37	21.8	12.5	12.5	—	130	149.5	162.5	171.5	--	
3-74-5	208	5.1	5.1	—	—	—	64	69.5	--	—	—	
3-74-6	485	4.2	4.2	4.2	4.2	E4.2	63	68.8	71.4	75.5	79.9	
3-74-8	160	2.8	E2.8	—	—	—	59	E61.8	—	—	--	
3-74-9	89	E5.0	—	—	--	—	E67.9	—	—	--	—	
3-74-10	120	2.6	—	—	—	—	59.9	—	—	—	—	
3-74-12	450	1.0	1.0	2.7	2.7	E2.7	58.7	60	62.7	65.4	68	
3-74-13	212	E7.8	7.1	—	—	—	76.8	84	—	—	—	
3-74-14	375	2.5	2.5	2.5	E 2.5	—	57.8	60.5	62.7	E65.3	—	

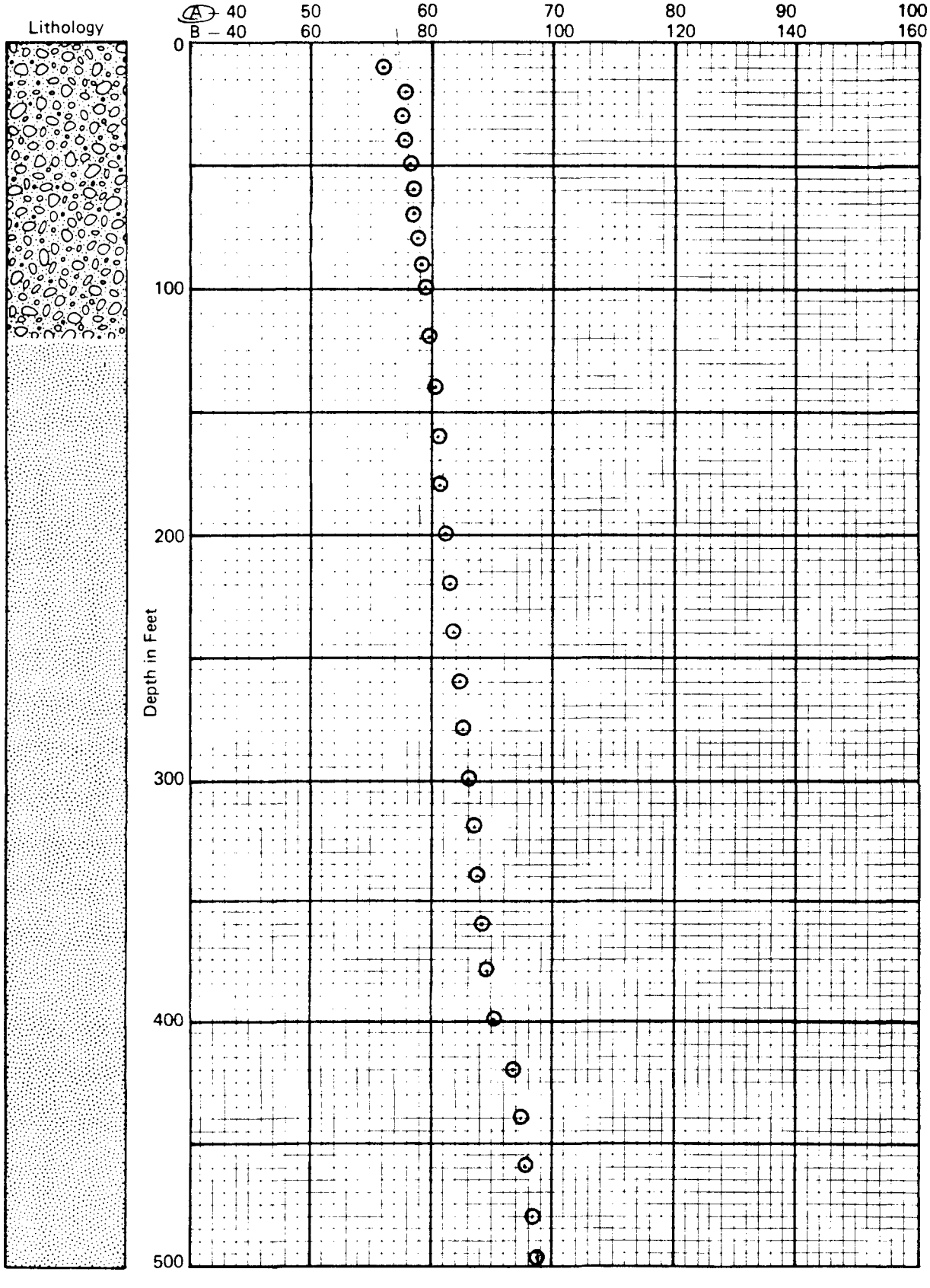
T hole#	Z	°F/100ft 100'/50'	°F/100ft 200'/100'	°F/100ft 300'/200'	°F/100ft 400'/300'	°F/100ft 300'/400'	°F 100'	°F 200'	°F 300'	°F 400'	°F 500'	Comments
3-74-20	272	5.6	5.6	E5.6	—	—	63.9	70.4	E76.8	—	—	
21-78	496	1.9	1.9	1.9	1.9	3.2	59.1	60.1	63	65.2	69	TG picks up @ 400'
22-78	428	5.2	3.5	3.5	3.5	E3.5	65	69.5	73.2	76	—	
23-78	496	7.2	4.1	4.1	4.1	4.1	72.8	77.4	81.5	85.3	E89.6	
24-78	445	5.2	5.2	4.2	4.2	4.2	67	71	75.3	79.8	E83.8	
25-78	378	4.2	4.2	4.2	4.2	4.2	63.1	67.5	71.8	E75.8	—	
26-78	496	5	5	5	3.5	3.5	58.9	63.6	68.9	72.9	76.5	
27-78	495	5.8	5.8	5.8	5.8	5.8	64.4	70.7	75.9	82.1	88	
28-78	413	9.7	9.7	(3.5)	(3.5)	—	82.0	91.6	(96.3)	(98.7)	—	Turns over & isothermal @ ~215
29-78	495	6.3	6.3	6.3	6.3	6.3	70.2	75.8	82.2	88	93.9	
30-78	455	5.4	5.4	5.4	3.2	E3.2	61.9	67.1	71.3	74.4	E77.4	
31-78	267	6.2	3.3	E3.3	—	—	65	70.2	—	—	—	
32-78	495	5.6	6.3	6.3	6.3	6.3	69.5	75.8	83.0	89.5	96	
33-78	496	7.0	4.6	4.6	4.6	4.6	66.9	71.7	76.1	80.7	84.8	
34-78	477	6.1	6.1	6.1	6.1	6.1	67.1	73.5	79.8	85.3	E92	
35-78	482	5.9	5.9	5.9	4.9	E4.9	67.0	73.4	78.9	83.7	E88.6	
36-78	435	5.2	5.2	5.2	5.2	5.2	63.1	68.3	73.8	79.0	E84.3	
37-78	497	5.6	5.6	4	4	4	64.1	69.7	74.2	78.1	82.4	
38-78	356	6.2	6.2	6.2	E6.2	—	67.5	73.8	79.4	E85.7	—	Kick 80-100'
39-78	497	5.5	5.5	5.5	5.5	5.5	66.7	71.5	76.9	82.7	88.6	Kick @ 90'-100'
40-78	494	5.2	5.2	5.2	5.2	5.2	64.7	71.2	75.4	81.0	86.4	Kick 120-200
41-78	497	6°	5.3	5.3	5.3	5.3	66.6	71.7	77.2	82.7	87.4	
6-242-78	490	13.8	12.0	12.0	12.0	12.0	80.3	93.2	106.1	118.2	E129.5	
5-343-78	397	10.9	10.9	3.5	3.5	—	75.2	85.1	(89.0)	(92.7)	—	Turns over @ 200'
5-444-78	368	5.0	5.0	5.0	E5.0	—	69.9	74.5	79.3	84	—	
SED-1	320	7.6	7.6	5.5	E5.5	—	65	72.6	78.8	—	—	
SED-2	470	3.5	3.5	3.5	3.5	3.5	54.8	59.8	63	66.3	69.4	
SED-10	200	5.8	E4.8	—	—	—	117	119				R @ 100' picks up @160
SED-11	320	2.2	⊢⊣	⊢⊣	⊢⊣		209.4	R	R			R @ 120', 255'
SED-12	300	0.6	0.6	3.0	—	—	61.7	61.7	64.6	—	—	between 50'-~200'
SED-13	350	4.8	4.3	4.3	E4.3	—	73.1	77.4	81.6	86.5	—	@ 100' - 160'
6-145-78	482	52	⊢ ⊣	⊢⊣	E19.3	19.3	197.5	R	⊢⊣	137.3	156°	R@100', isothermal @280
5-146-78	460	8.2	6.7	6.4	7.4	E7.0	71.3	78.0	84.4	91.8	E98.5	Picks up @360
2-347-78	362	6.2	6.2	4.1	E4.1	—	69.6	75.6	80.1	E84.2	—	
48-78	360	7.0	5.1	5.4	E5.4	—	68.1	73.2	78.6	E83.9	—	kick @70' 50-100' grad
49-78	340	6.4	4.3	3.9	—	—	67.9	72.2	76.1	—	—	kick @70' 50-100' en
50-78	70'	E57.1					E280	—	—	—	—	gradient?
51-78	416	10.5	8.5	8.5	9.5		73.3	82.2	91.2	101.3	—	
52-78	320	6	3.9	3.1	—		66.7	70.6	73.7			
53-78		247	7.2	4.6	4.6(E)		71.0	75.6	79.6(E)			
SE-A	495	5.2	7.5	8.4	77	9.8(E)	79.0	86.54	95.0	102.6	112.3E	
SE-B	176	59	56.1(E)				174.0	230.0(E)				

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 21-78
Sec., 20 Twp., 30N Rge.: 23E

Date Completed: 2-14-78
Date Logged: 2-18-78
Logged By: T. Eleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 21-78
S.T.R. :

DATE COMPLETED : 2-14-78
DATE LOGGED : 3-9-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1167 END - BATT. V = 1149

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	4,175	53.4	220	3,385	61.5
20	3,765	57.3	240	3,355	[redacted] 61.9
30	3,755	57.4	260	3,315	62.4
40	3,735	57.6	280	3,285	62.7
50	3,695	58.0	300	3,255	63.1
60	3,675	58.2	320	3,215	63.6
70	3,645	58.4	340	3,185	64.0
80	3,605	58.8	360	3,155	64.4
90	3,585	59.0	380	3,115	64.9
100	3,565	59.3	400	3,075	65.4
120	3,525	59.8	420	2,958	66.8
140	3,495	60.1	440	2,918	67.3
160	3,475	60.4	460	2,881	67.8
180	3,445	60.8	480	2,840	68.4
200	3,415	61.1	~~500~~ 496	3,814	68.8

TIME START: 1510 TIME ON BOTTOM: 1620

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 21-78
S.T.R. : S-20, T30N, R23E

DATE COMPLETED : 2-14-78
DATE LOGGED : 2-18-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT. V = 1162 END - BATT. V = 1133

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,905	56.0	220	3,385	61.5
20	3,715	57.8	240	3,355	61.9
30	3,745	57.5	260	3,325	62.3
40	3725	57.7	280	3,295	62.6
50	3,685	58.1	300	3,265	63.0
60	3,665	58.3	320	3,225	63.5
70	3,635	58.5	340	3,195	63.9
80	3,605	58.8	360	3,165	64.2
90	3,575	59.1	380	3,125	64.7
100	3555	59.4	400	3,085	65.2
120	3,525	59.8	420	2,964	66.7
140	3,495	60.1	440	2,922	67.3
160	3,465	60.5	460	2,885	67.7
180	3,445	60.8	480	2,844	68.3
200	3,415	61.1	~~500~~ 496	2,810	68.8

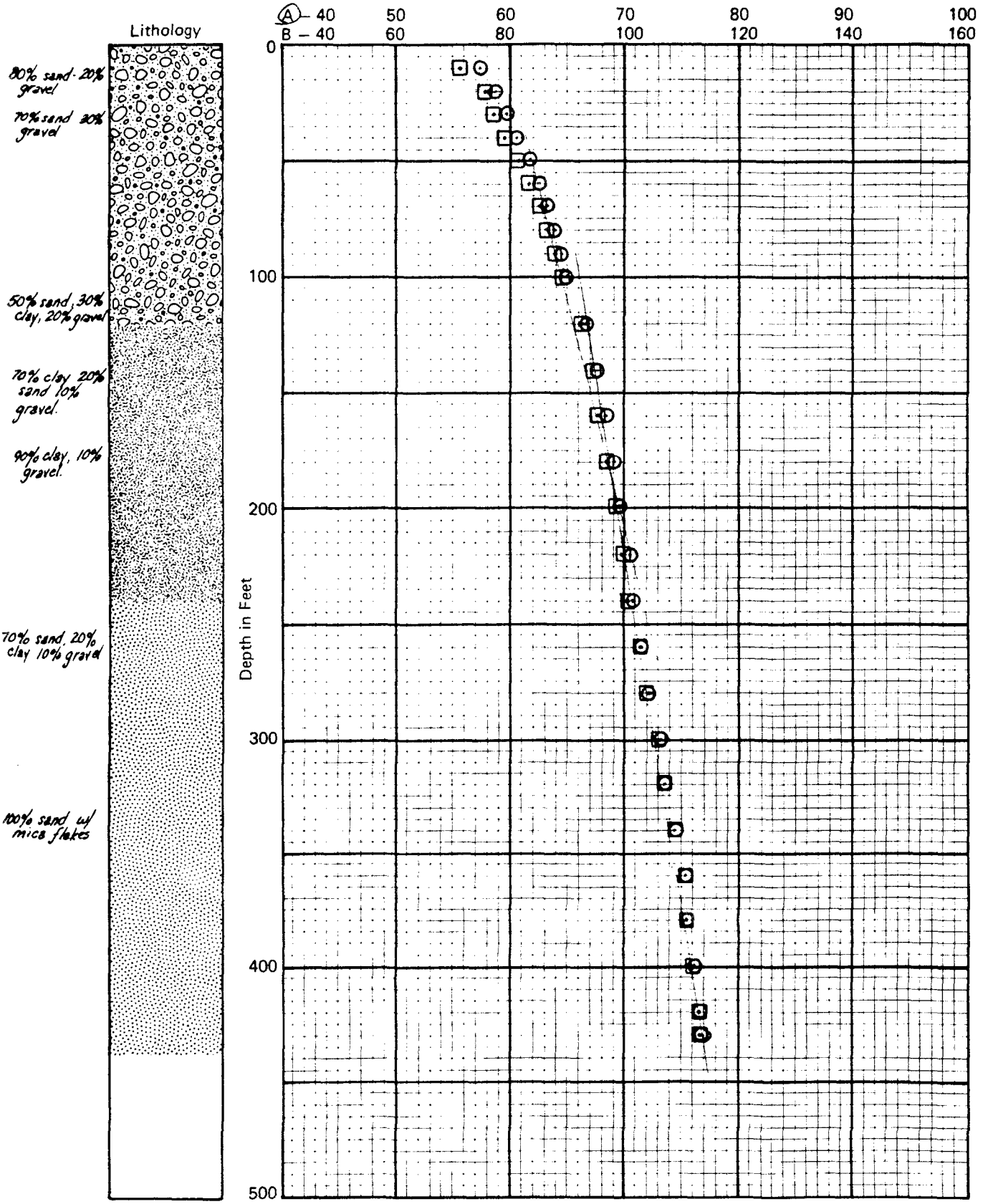
TIME START: 0910 TIME ON BOTTOM: 1025

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 22-78
Sec., 20 Twp., 30N Rge.: 23E

Date Completed: 2-14-78
Date Logged: 2-18-78 ○ 3-8 □
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 22-78
S.T.R. : S 20 T30N R23E

DATE COMPLETED : 3-14-78
DATE LOGGED : 3-8-78
LOGGED BY : ELEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1178 END - BATT. V = 1156

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,925	55.8	220	2,741	69.9
20	3,705	57.9	240	3,705	70.5
30	3,625	58.6	260	2,645	71.5
40	3,535	59.6	280	2,595	72.3
50	3,445	60.8	300	2,551	73.0
60	3,365	61.8	320	2,518	73.5
70	3,305	62.5	340	2,478	74.2
80	3,245	63.2	360	2,415	75.2
90	3,185	64.0	380	2,401	75.4
100	3,135	64.6	400	2,364	76.0
120	2,994	66.4	420	2,329	76.6
140	2,934	67.1	~~440~~ 428	2,319	76.7
160	2,889	67.7	460		
180	2,837	68.4	480		
200	2,788	69.2	500		

10KΩ

1KΩ

TIME START: 1600

TIME ON BOTTOM: 1700

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 22-78
S.T.R. : 20, T 30N R 23E

DATE COMPLETED : 2-14-78
DATE LOGGED : 2-18-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START- BATT. V= 1151 END- BATT. V= 1127

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,765	57.3	220	2,705	70.5
20	3,605	58.8	240	2,680	70.9
30	3,525	59.8	260	2,644	71.5
40	3,455	60.6	280	2,598	72.2
50	3,365	61.8	300	2,540	73.2
60	3,315	62.4	320	2,510	73.6
70	3,255	63.1	340	2,472	74.3
80	3,195	63.9	360	2,405	75.3
90	3,145	64.5	380	2,393	75.5
100	3,105	65.0	400	2,358	76.1
120	2,962	66.8	420	2,322	76.7
140	2,901	67.5	~~440~~ 428	2,309	76.9
160	2,843	68.3	460		
180	2,797	69.0	480		
200	2,753	69.7	500		

10KΩ

1KΩ

TIME START: 1115

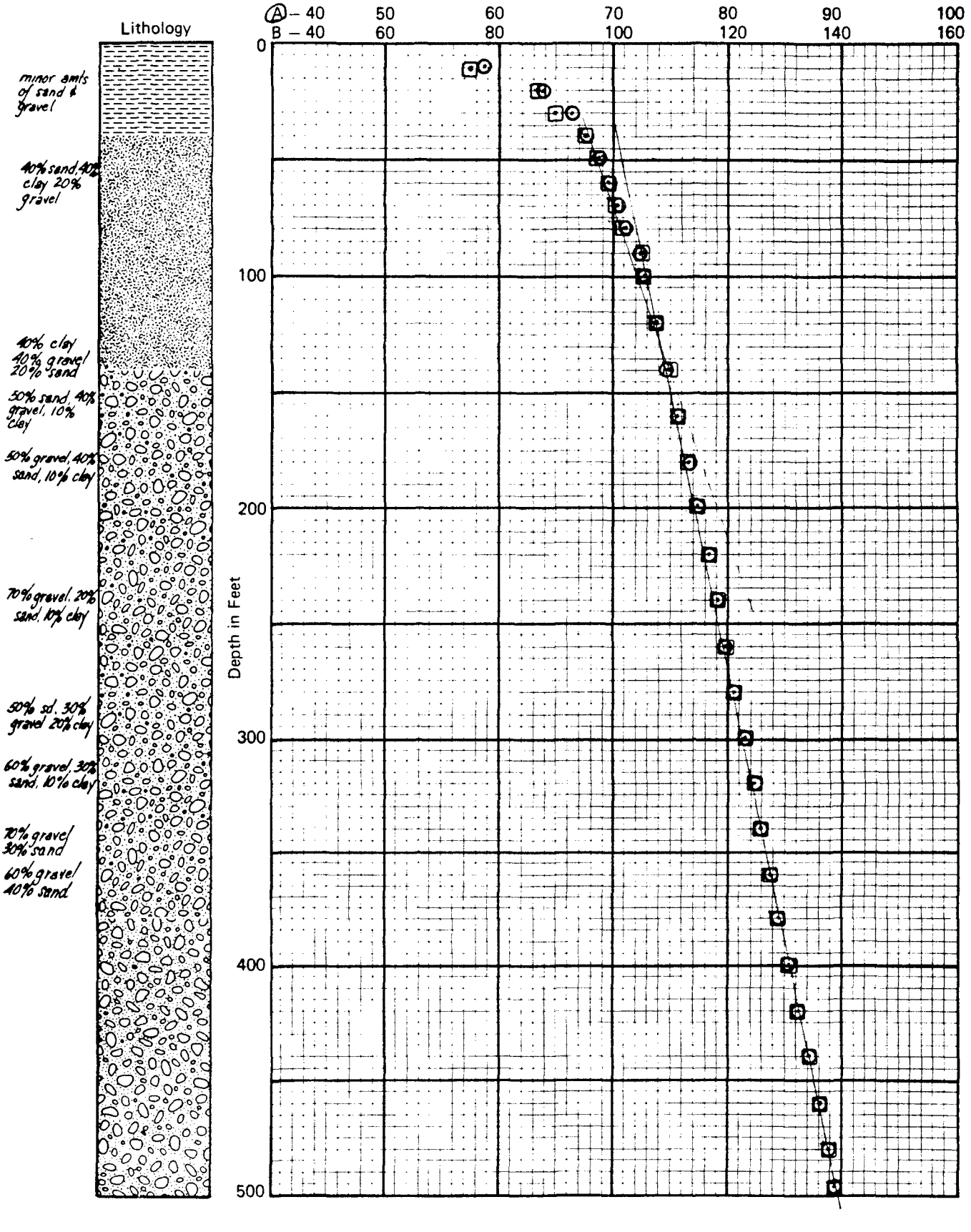
TIME ON BOTTOM: 1220

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 23-28
Sec., 28 Twp., 30N Rge.: 23E
1250'S & 1900'E of NW cor

Date Completed: 1-26
Date Logged: 1-30 ○ 2-3 □
Logged By: J. Flenniir
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 23-78
S.T.R. : 28, T 30N R23E

DATE COMPLETED : 1-26-78
DATE LOGGED : 1-30-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START - BATT. V = 1184 END - BATT. V = 1157

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,615	58.7	220	2,236	78.3
20	3,195	63.9	240	2,197	79.1
30	2,993	66.4	260	2,158	79.9
40	2,896	67.6	280	2,122	80.7
50	2,818	68.7	300	2,080	81.5
60	2,764	69.6	320	2,045	82.3
70	2,715	70.4	340	2,010	83.0
80	2,664	71.2	360	1,973	83.8
90	2,596	72.3	380	1,938	84.5
100	2,563	72.8	400	1,897	85.3
120	2,496	73.9	420	1,855	86.2
140	2,434	74.9	440	1,817	87.2
160	2,379	75.7	460	1,780	88.2
180	2,326	76.6	480	1,751	88.9
200	2,280	77.4	~~496~~ 500	1,734	89.4

TIME START: 1015

TIME ON BOTTOM: 1115

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 23-78
S.T.R. : 28, T30N, R23E

DATE COMPLETED : 1-26-78
DATE LOGGED : 2-3-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER

START - BATT. V = 1124 END - BATT. V = 1119

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10K Ω 10	3,745	57.5	220	2,240	78.3
20	3,225	63.5	240	2,199	79.1
30	3,115	64.9	260	2,161	79.9
1K Ω 40	2,914	67.4	280	2,125	80.6
50	2,844	68.3	300	2,082	81.5
60	2,782	69.3	320	2,048	82.2
70	2,730	70.1	340	2,012	82.9
80	2,678	71.0	360	1,973	83.7
90	2,616	71.9	380	1,938	84.5
100	2,572	72.7	400	1,897	85.3
120	2,505	73.7	420	1,855	86.2
140	2,441	74.8	440	1,816	87.2
160	2,386	75.6	460	1,778	88.2
180	2,333	76.5	480	1,750	89.0
200	2,285	77.3	500	1,731	89.5

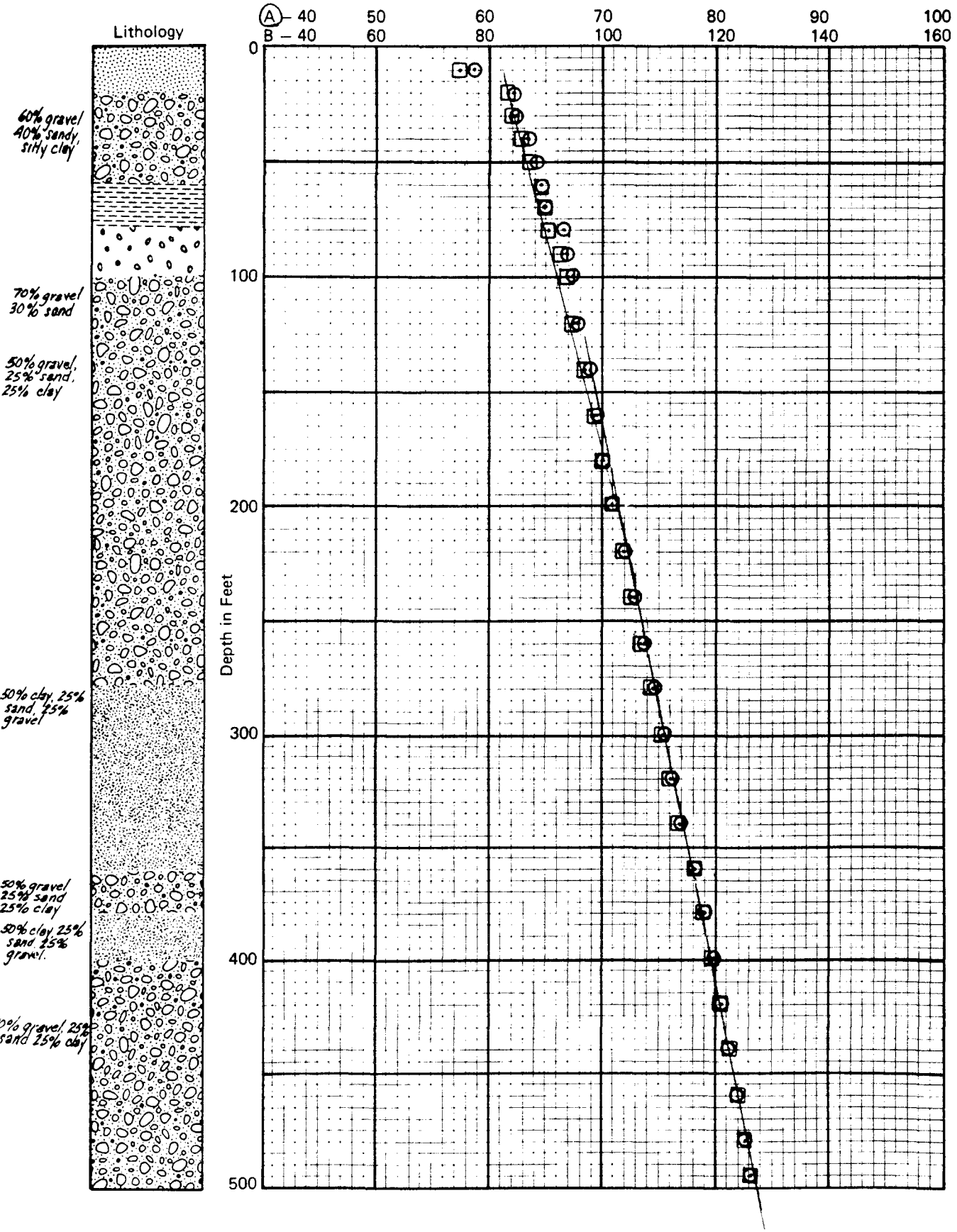
TIME START: 1530 TIME ON BOTTOM: 1640

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 24-78
Sec., 28 Twp., 30N Rge.: 23E
2350' S & 250' E of NW cor

Date Completed: 1-25-78
Date Logged: 1-29-78 ○ 2-3 □
Logged By: T. Flaner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 24-78
S.T.R. : 28, T30N, R23E

DATE COMPLETED : 1-25-78
DATE LOGGED : 1-29-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START- BATT. V = 1190 END- BATT. V = 1165

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,615	58.7	220	2,605	72.1
20	3335	62.1	240	2,557	72.9
30	3325	62.3	260	2,502	73.8
40	3,245	63.2	280	2451	74.6
50	3,185	64.0	300	2,400	75.4
60	3,135	64.6	320	2352	76.2
70	3,105	65.0	340	2301	77.0
80	2,981	66.5	360	2248	78.1
90	2948	66.9	380	2202	79.0
100	2,918	67.3	400	2,162	79.9
120	2878	67.8	420	2,125	80.6
140	2,814	68.8	440	2,090	81.3
160	2771	69.5	460	2055	82.1
180	2722	70.2	480	2023	82.7
200	2672	71.0	~~405~~ 500	1,997	83.2

TIME START: 0915 TIME ON BOTTOM: 1025

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 24-78
S.T.R. : 28, T30N, R23E

DATE COMPLETED : 1-25-78
DATE LOGGED : 2-3-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START - BATT. V = 1142 END - BATT. V = 1122

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10K Ω 10	3,765	57.3	220	2,616	71.9
20	3,365	61.8	240	2,567	72.7
30	3,345	62.0	260	2,512	73.6
40	3,275	62.9	280	2,459	74.6
50	3,205	63.7	300	2,407	75.3
60	3,145	64.5	320	2,359	76.1
70	3,115	64.9	340	2,308	76.9
80	3,085	65.2	360	2,253	78.0
1K Ω 90	2,973	66.6	380	2,207	78.9
100	2,940	67.0	400	2,165	79.8
120	2,896	67.6	420	2,127	80.6
140	2,838	68.4	440	2,092	81.3
160	2,781	69.3	460	2,057	82.0
180	2,732	70.1	480	2,023	82.7
200	2,678	71.0	~~500~~ 495'	1,999	83.2

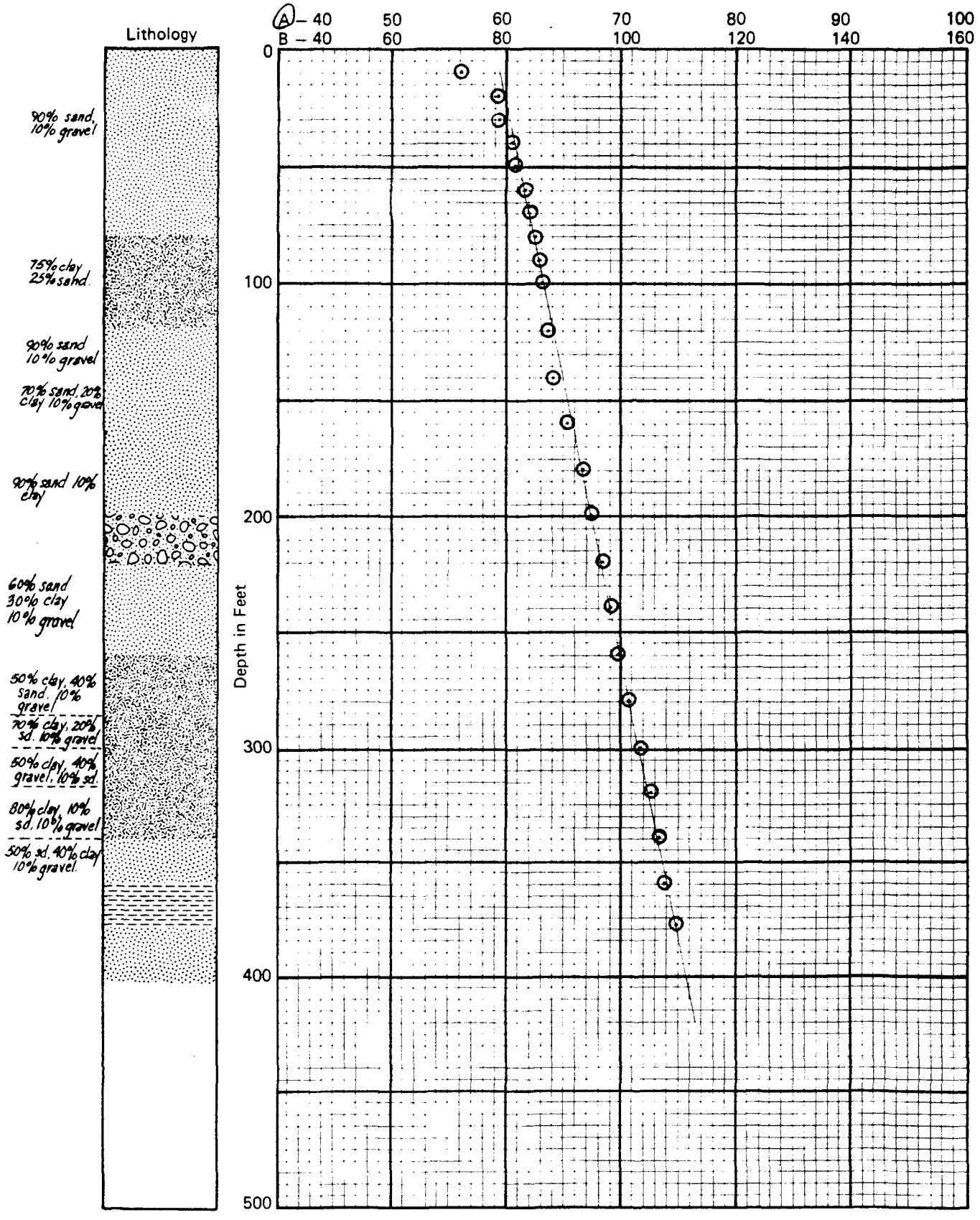
TIME START: 14 10 TIME ON BOTTOM: 1515

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 25-28
Sec., 28 Twp., 30N Rge.: 28E
2600' N & 100' E of SW cor

Date Completed: 1-24
Date Logged: 1-28
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 25-77
S.T.R. : 28, T30N, R23E

DATE COMPLETED : 1-24-78
DATE LOGGED : 1-28-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START - BATT. V = 1204 END - BATT. V = 1168

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,885	56.2	220	2,844	68.3
20	3,565	59.3	240	2,786	69.2
30	3,555	59.4	260	2,742	69.9
40	3,475	60.4	280	2,685	70.8
50	3,435	60.9	300	2,625	71.8
60	3,365	61.8	320	2,571	72.7
70	3,345	62.0	340	2,531	73.3
80	3,305	62.5	360	2,492	73.9
90	3,275	62.9	~~380~~ 378'	2,435	74.9
100	3,255	63.1	400		
120	3,205	63.7	420		
140	3,175	64.1	440		
160	3,075	65.4	460		
180	2,960	66.8	480		
200	2,899	67.5	500		

16K Ω

1K Ω

TIME START: 1050 TIME ON BOTTOM: 1200

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 25-78
S.T.R. : 28, T30N, R23E

DATE COMPLETED : 1-24-78
DATE LOGGED : 2-2-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT. V = 1148 END - BATT. V = 1126

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,885	56.2	220	2,865	68.0
20	3,605	58.8	240	2,800	69.0
30	3,585	59.0	260	2,759	69.7
40	3,455	60.3	280	2,702	706
50	3,425	61.0	300	2,639	71.6
60	3,365	61.8	320	2,581	72.5
70	3,345	62.0	340	2,538	73.2
80	3,315	62.4	360	2,498	73.8
90	3,285	62.7	~~380~~ 378	2,444	74.7
100	3,265	63.0	~~400~~ 398		
120	3,225	63.5	420		
140	3,195	63.9	440		
160	3,115	64.9	460		
180	2,982	66.5	480		
200	2,921	67.3	500		

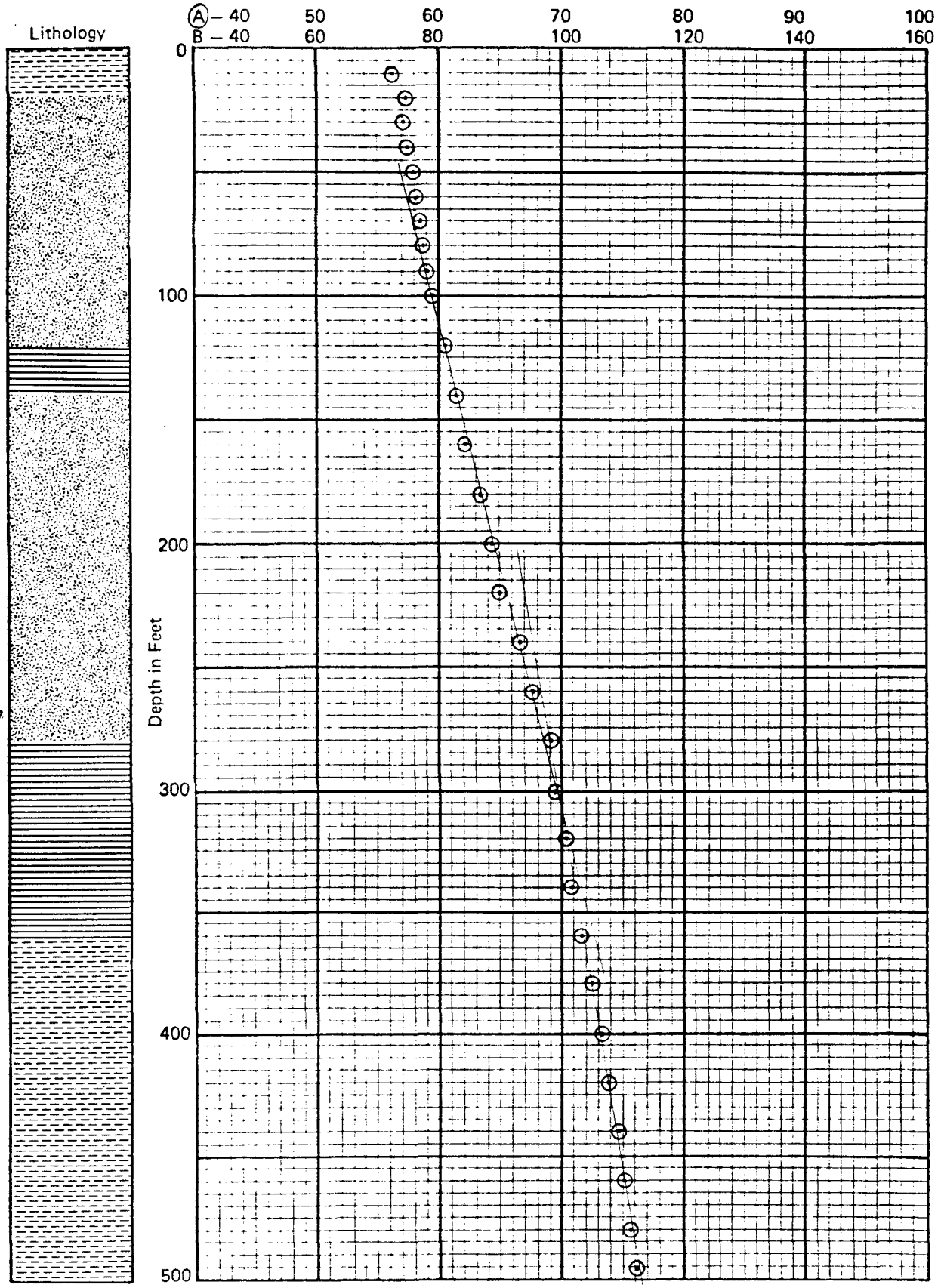
TIME START: 1005 TIME ON BOTTOM: 1100

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 26-78
Sec., 29 Twp., 30N Rge.: 23E
2150'N & 1750'W of SE cor

Date Completed: 1-23-78
Date Logged: 1-26-78
Logged By: Jack Fleiner
Temp. Probe: Chevron (1100')

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 26-78
S.T.R. : 29, T30N, R23E

DATE COMPLETED : 1-23-78
DATE LOGGED : 1-27-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START-BATT. ✓ = 1225 END- BATT. ✓ = 1176

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,885	56.2	220	3,105	65.0
20	3,775	57.2	240	2,959	66.8
30	3,785	57.1	260	2,898	67.6
40	3,755	57.4	280	2,794	69.1
50	3,705	57.9	300	2,783	69.3
60	3,675	58.1	320	2,727	70.2
70	3,635	58.5	340	2,682	70.9
80	3,605	58.8	360	2,631	71.7
90	3,575	59.1	380	2,585	72.4
100	3,545	59.5	400	2,539	73.2
120	3,475	60.4	420	2,495	73.9
140	3,405	61.3	440	2,447	74.7
160	3,335	62.1	460	2,422	75.1
180	3,245	63.2	480	2,385	75.7
200	3,165	64.2	~~500~~ 496	2,357	76.1

TIME START: 0750 TIME ON BOTTOM: 0910

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 26-77
S.T.R. : 29 T30N, R23E

DATE COMPLETED : 1-23-78
DATE LOGGED : 2-2-78
LOGGED BY : ELEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START- BATT. V = 1164 END- BATT. V = 1131

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,995	55.1	220	3,155	64.4
20	3,855	56.4	240	3,085	65.2
30	3,835	56.6	260	2,934	67.1
40	3,805	56.9	280	2,829	68.5
50	3,765	57.3	300	2,809	68.9
60	3,725	57.7	320	2,750	69.8
70	3,695	58.0	340	2,704	70.5
80	3,655	58.4	360	2,652	71.4
90	3,625	58.6	380	2,604	72.1
100	3,595	58.9	400	2,554	72.9
120	3,535	59.6	420	2,506	73.7
140	3,455	60.6	440	2,464	74.4
160	3,385	61.5	460	2,432	74.9
180	3,285	62.7	480	2,395	75.5
200	3,215	63.6	500	2,366	76.0

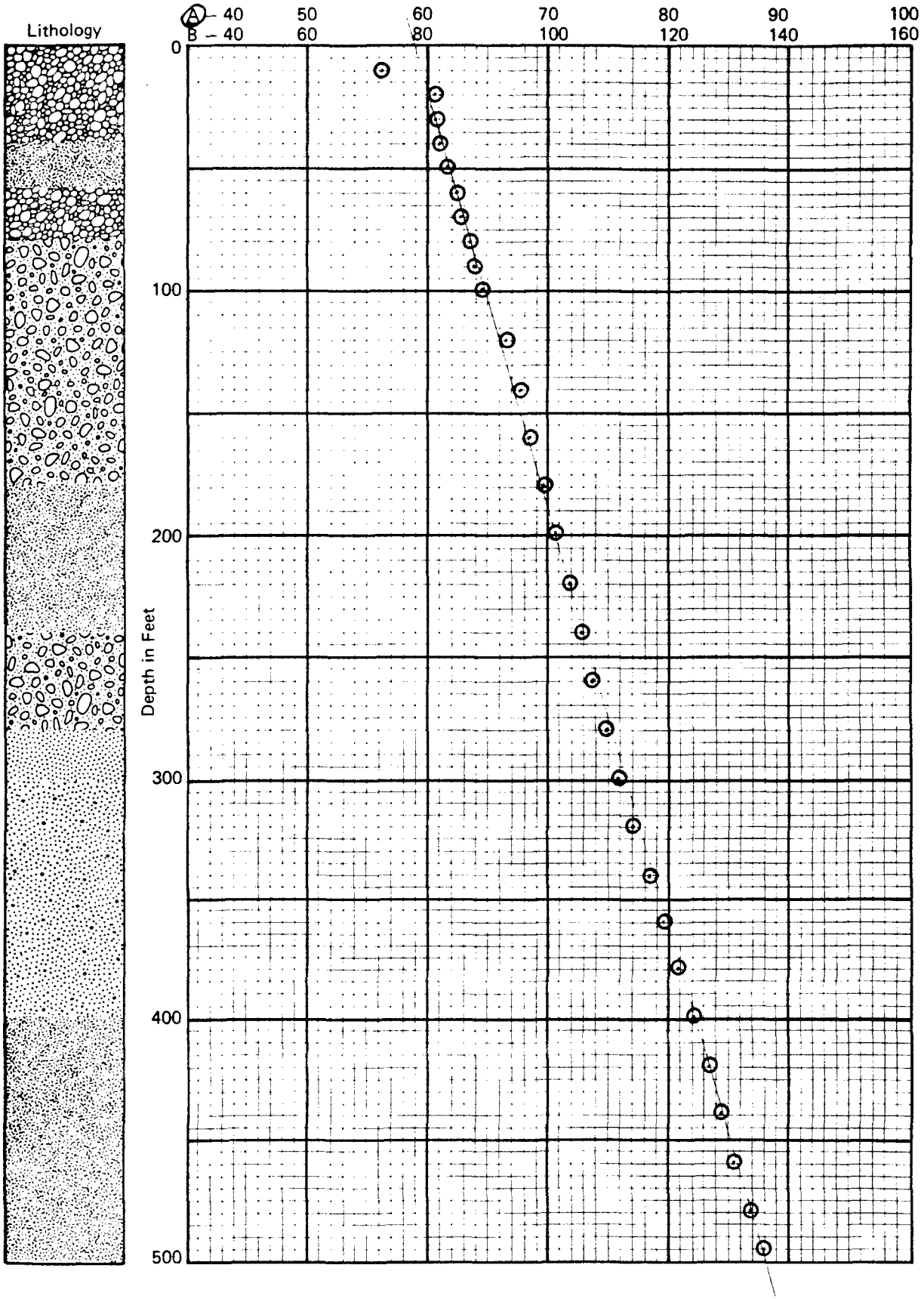
TIME START: 0820 TIME ON BOTTOM: 0925

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 27-78
Sec., 27 Twp., 29N Rge.: 23E

Date Completed: 2-12-78
Date Logged: 2-16-78
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 27-78
S.T.R. : S 27 T29N R23E

DATE COMPLETED : 2-12-78
DATE LOGGED : 3-8-78
LOGGED BY : FLEINER
UNIT NO. : 4000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER

START - BATT. V = 1178 END - BATT. V = 1159

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	4,025	54.8	220	2,613	72.0
20	3,545	59.5	240	2,550	73.0
30	3,475	60.4	260	2,490	74.0
40	3,455	60.6	280	2,424	75.0
50	3,395	61.4	300	2,357	76.1
60	3,345	62.0	320	2,291	77.2
70	3,295	62.6	340	2,226	78.5
80	3,245	63.2	360	2,168	79.7
90	3,205	63.7	380	2,106	81.0
100	3,155	64.4	400	2,044	82.3
120	2,976	66.6	420	1,983	83.5
140	2,905	67.5	440	1,930	84.6
160	2,830	68.5	460	1,876	85.7
180	2,758	69.7	480	1,822	87.1
200	2,685	70.8	~~495~~ 500	1,782	

10KΩ
1KΩ

TIME START: 1430 TIME ON BOTTOM: 1540

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 27-78
S.T.R. : 27- T29N, R23E

DATE COMPLETED : 2-12-78
DATE LOGGED : 2-16-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER

START - BATT. V = 1163 END - BATT. V = 1140

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,885	56.2	220	2,622	71.9
20	3,465	60.5	240	2,558	72.9
30	3,455	60.6	260	2,498	73.8
40	3,425	61.0	280	2,435	74.9
50	3,375	61.6	300	2,369	75.9
60	3,325	62.3	320	2,302	77.0
70	3285	62.7	340	2,237	78.3
80	3235	63.4	360	2,178	79.5
90	3,195	63.9	380	2,118	80.8
100	3,155	64.4	400	2055	82.1
120	2,977	66.6	420	1,992	83.3
140	2,886	67.7	440	1,946	84.3
160	2,842	68.3	460	1,886	85.5
180	2,763	69.6	480	1,833	86.8
200	2,692	70.7	~~500~~ 495'	1785	88.0

10KΩ
1KΩ

TIME START: 1145

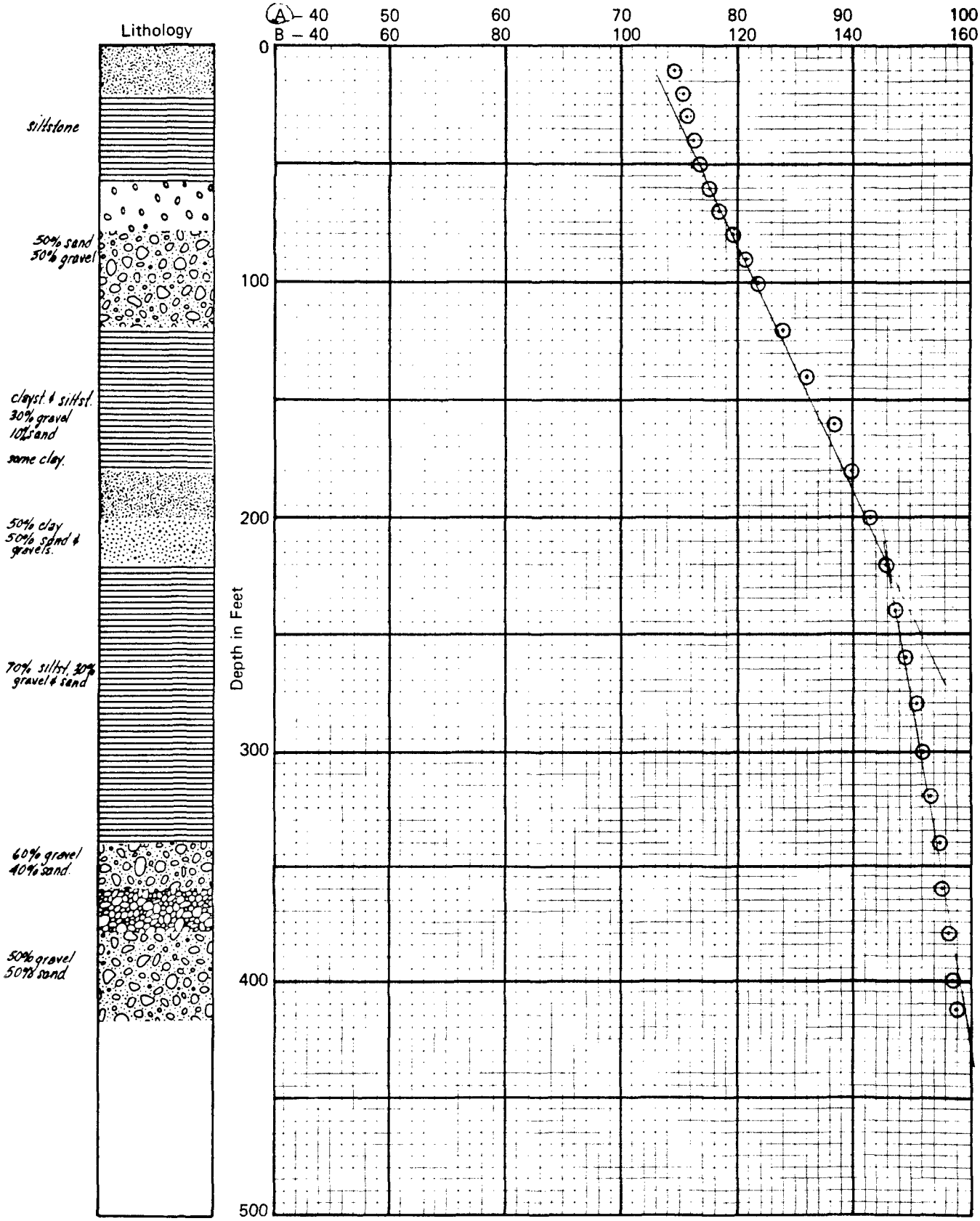
TIME ON BOTTOM: 1300

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 28-78
Sec., 33 Twp., 30N Rge.: 23E
500' S & 1900' E of NW cor.

Date Completed: 1-31-78
Date Logged: 2-4-78 & 2-8-78
Logged By: J. Fleiner
Temp. Probe: Chevron (1000')

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 28-78
S.T.R. : 33, T30N, R23E

DATE COMPLETED : 1-31-78
DATE LOGGED : 2-8-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START-BATT.V = 1102 END- BATT.V = 1089

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2,457	74.5	220	1,594	93.0
20	2,388	75.6	240	1,557	94.0
30	2,365	76.0	260	1,528	94.8
40	2,341	76.4	280	1,503	95.5
50	2,313	76.8	300	1,481	96.3
60	2,269	77.7	320	1,461	96.9
70	2,228	78.5	340	1,444	97.5
80	2,170	79.7	360	1,432	97.9
90	2,110	80.9	380	1,420	98.3
100	2,057	82.0	400	1,409	98.7
120	1,952	84.2	~~420~~ 413	1,403	98.9
140	1,853	86.3	440		
160	1,772	88.4	460		
180	1,700	90.3	480		
200	1,648	91.6	500		

TIME START: 10 40 TIME ON BOTTOM: 11 50

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 28-78
S.T.R. : 33, T30N, R23E

DATE COMPLETED : 1-31-78
DATE LOGGED : 2-4-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT.V = 1144 END - BATT. V = 1109

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2,457	74.5	220	1,601	92.9
20	2,405	75.3	240	1,564	93.8
30	2,375	75.8	260	1,534	94.6
40	2,345	76.3	280	1,508	95.4
50	2,322	76.7	300	1,485	96.1
60	2,273	77.6	320	1,466	96.8
70	2,237	78.3	340	1,448	97.4
80	2,172	79.7	360	1,436	97.8
90	2,118	80.8	380	1,423	98.2
100	2,065	81.8	400	1,412	98.6
120	1,962	84.0	413 ~~420~~	1,403	98.9
140	1,865	86.0	440		
160	1,774	88.3	460		
180	1,712	90.0	480		
200	1,654	91.5	500		

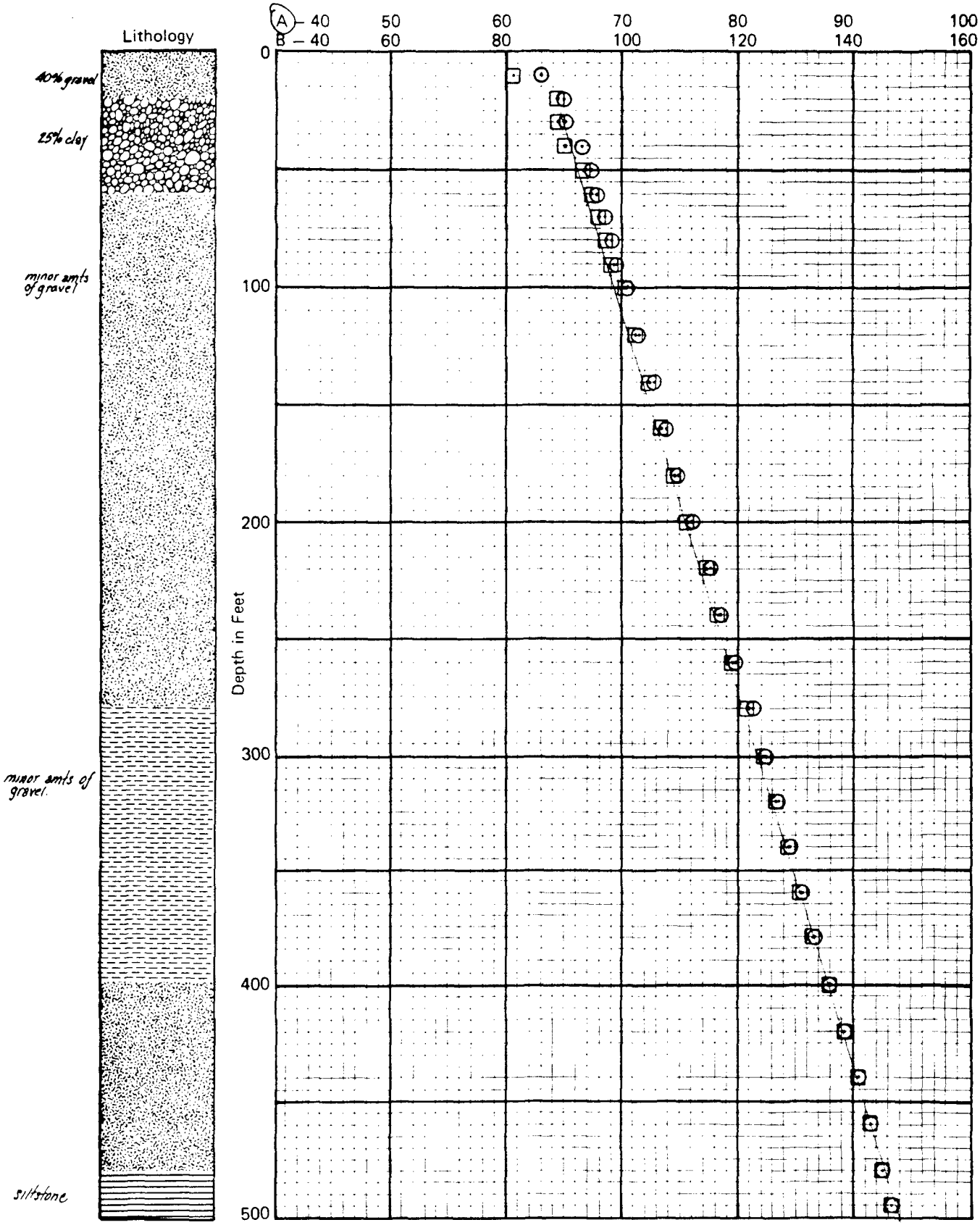
TIME START: 0750 TIME ON BOTTOM: 0900

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 29-78
Sec., 33 Twp., 30N Rge.: 23E
1450' S & 1350' E of NE cor.

Date Completed: 1-29-78
Date Logged: 2-2-78 ○ 2-6-78 □
Logged By: J. Fleiner
Temp. Probe: Chevron (1100)

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 29-78
S.T.R. : 33, T30N R23E

DATE COMPLETED : 1-29-78
DATE LOGGED : 2-6-78
LOGGED BY : FLEINER
UNIT NO. : 4000'

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START- BATT. V = 11.28 END- BATT. V = 11.03

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ AIR)	3,445	60.8	220	2,284	77.3
20	3,155	64.4	240	2,233	78.4
30	3,145	64.5	260	2,169	79.7
40	3,095	65.1	280	2,108	81.0
50 (1KΩ)	2,951	66.9	300	2,048	82.2
60	2,907	67.4	320	1,992	83.3
70	2,865	68.0	340	1,941	84.4
80	2,822	68.6	360	1,890	85.4
90	2,781	69.3	380	1,836	86.7
100	2,727	70.2	400	1,786	88.0
120	2,658	71.3	420	1,742	89.2
140	2,577	72.6	440	1,695	90.4
160	2,513	73.6	460	1,654	91.5
180	2,445	74.7	480	1,613	92.[illegible]5
200	2,374	75.8	~~495'~~ ~~500~~	1,583	93.3

TIME START: 1410 TIME ON BOTTOM: 1520

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 29-78
S.T.R. : 33, T30N R23E

DATE COMPLETED : 1-29-78
DATE LOGGED : 2-2-78
LOGGED BY : FLEINER
UNIT NO. : 1000'

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START- BATT. V = 1143 END- BATT. V = 1122

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10K→AIR)	3,265	63.0	220	2,261	77.8
20	3,105	65.0	240	2,216	78.7
30	3095	65.1	260	2,158	79.9
40 (1K→)	2,978	66.6	280	2,098	81.2
50	2,919	67.3	300	2,038	82.4
60	2,880	67.8	320	1,985	83.5
70	2,837	68.4	340	1,934	84.5
80	2,798	69.0	360	1,883	85.6
90	2,757	69.7	380	1,834	86.8
100	2,714	70.4	400	1,785	88.0
120	2,635	71.6	420	1,739	89.2
140	2,555	72.9	440	1,694	90.4
160	2,495	73.9	460	1,652	91.5
180	2,429	74.9	480	1,611	92.6
200	2,358	76.1	495' ~~500~~	1,583	93.3

TIME START: 1125 TIME ON BOTTOM: 1240

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 30-78
Sec., 27 Twp., 30N Rge.: 28E
1200' SL 100' E of NW cc,

Date Completed: 1-27-78
Date Logged: 2-4-78
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)

A – 40 50 60 70 80 90 100
B – 40 60 80 100 120 140 160

Lithology

minor amts of gravel
siltstone
20% siltst. frags.
10% siltst. frags.
50% siltst frags minor amts of gravel
siltstone -
80% clay, minor amts of silt & gravel
20% siltstone
25% cobbles & boulders

Depth in Feet
0
100
200
300
400
500

Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 30-78
S.T.R. : 27, T30N, R23E

DATE COMPLETED : 1-27-78
DATE LOGGED : 2-4-78
LOGGED BY : ELEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START- BATT. V = 1132 END- BATT. V = 1107

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10 KΩ)	3,955	55.5	220	2,887	67.7
20	3,755	57.4	240	2,826	68.6
30	3,735	57.6	260	2,770	69.5
40	3,675	58.2	280	2,716	70.3
50	3,615	58.8	300	2,667	71.1
60	3,555	59.4	320	2,600	72.2
70	3,505	60.0	340	2,563	72.8
80	3,455	60.6	360	2,549	73.0
90	3,415	61.1	380	2,511	73.6
100	3,375	61.6	400	2,474	74.2
120	3,305	62.5	420	2,432	74.9
140	3,235	63.4	440	2,390	75.6
160	3,155	64.4	455 ~~460~~	2,355	76.1
180	3,095	65.1	480		
200 (1 KΩ)	2,951	66.9	500		

TIME START: 1110 TIME ON BOTTOM: 12 15

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 30-78
S.T.R. : 27, T30N, R23E

DATE COMPLETED : 1-27-78
DATE LOGGED : 1-31-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER

END - BATT. V = 1174 BEGIN - BATT. V = 1191

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,855	56.4	220	2,874	67.9
20	3,715	57.8	240	2,813	68.8
30	3,685	58.1	260	2,756	69.7
40	3,635	58.5	280	2,703	70.6
50	3,575	59.1	300	2,654	71.3
60	3,515	59.9	320	2,584	72.5
70	3,465	60.5	340	2,545	73.1
80	3425	61.0	360	2,537	73.2
90	3385	61.5	380	3,501	73.8
100	3,355	61.9	400	2,464	74.4
120	3,285	62.7	420	2,424	75.0
140	3,215	63.6	440	2,380	75.7
160	3,135	64.6	460	2,350	76.2
180	2,993	66.4	480		
200	2,935	67.1	500		

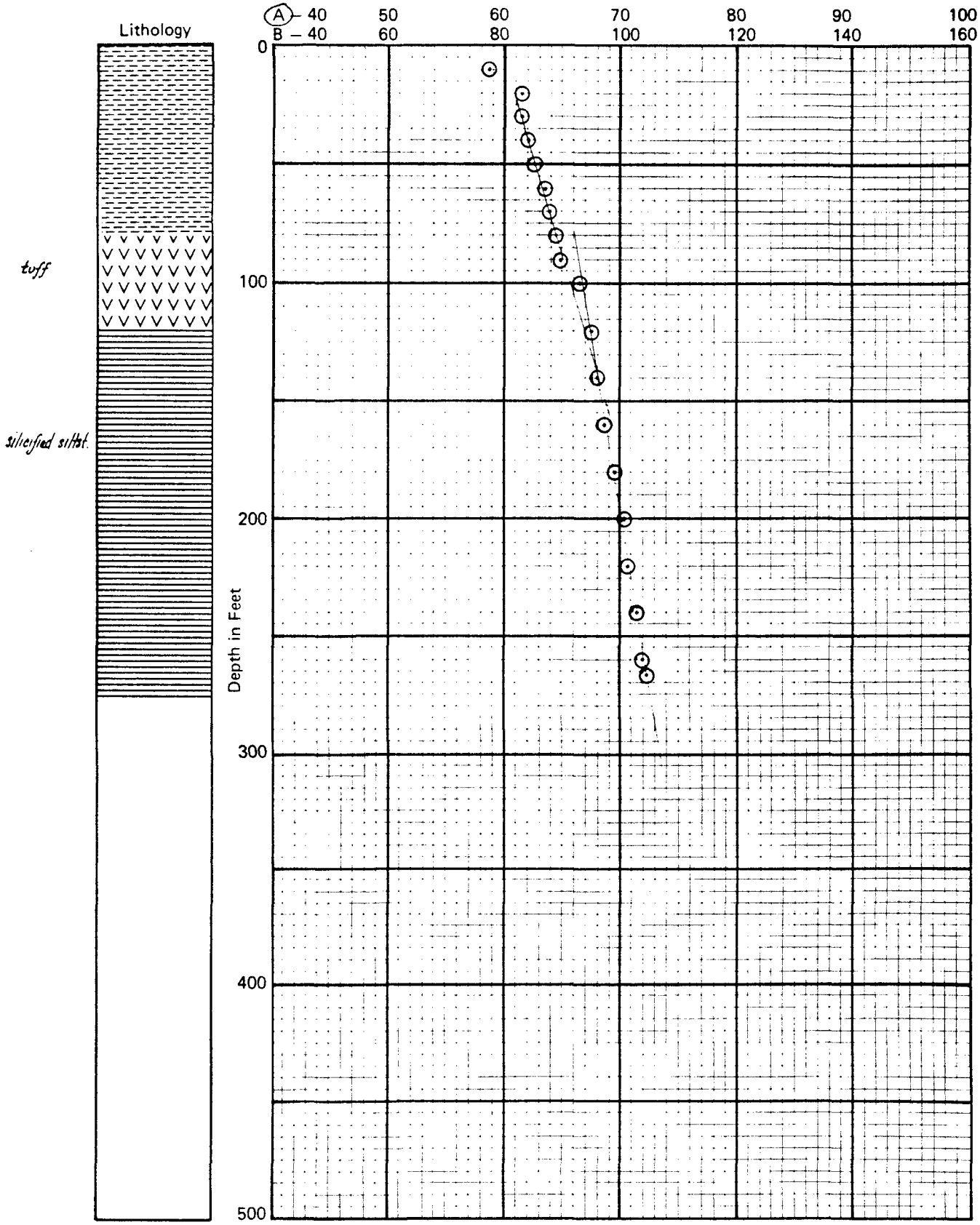
TIME START: 1610 TIME ON BOTTOM: 1715

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State:
Hole No.: 31-78
Sec., 22 Twp., 30 Rge.: 23E
1100 'S & 1150 'W of NE cor

Date Completed: 2-1-78
Date Logged: 2-4-78
Logged By: Jack Fleiner
Temp. Probe:

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 31-78
S.T.R., : 28, T30N R23E

DATE COMPLETED : 2-1-78
DATE LOGGED : 2-4-78
LOGGED BY : FLEINER
UNIT NO. : 4000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START- BATT. V = 1127 END- BATT. V = 1107

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ)	3,615	58.7	220	2,685	70.8
20	3,375	61.6	240	2,648	71.4
30	3,385	61.5	260	2,610	72.0
40	3,335	62.1	267 ~~280~~	2,596	72.3
50	3,285	62.7	300		
60	3,235	63.4	320		
70	3,195	63.9	340		
80	3,155	64.4	360		
90	3,115	64.9	380		
100 (1KΩ)	2,980	66.5	400		
120	2,907	67.4	420		
140	3,862	68.0	440		
160	2,820	68.7	460		
180	2,771	69.5	480		
200	2,727	70.2	500		

TIME START: 1235 TIME ON BOTTOM: 13 30

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 31-78
S.T.R. : 28, T30N, R23E

DATE COMPLETED : 2-1-78
DATE LOGGED : 2-11-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1104 END - BATT. V = 1074

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ)	3,665	58.3	220	2,680	70.9
20	3,425	61.0	240	2,641	71.5
30	3,415	61.1	260	2,603	72.2
40	3,365	61.8	267 ~~280~~	2,589	72.4
50	3,315	62.4	300		
60	3,275	62.9	320		
70	3,225	63.5	340		
80	3,185	64.0	360		
90	3,145	64.5	380		
100	3,105	65.0	400		
120 (1KΩ)	2,929	67.2	420		
140	2,869	67.9	440		
160	2,816	68.7	460		
180	2,766	69.5	480		
200	2,722	70.2	500		

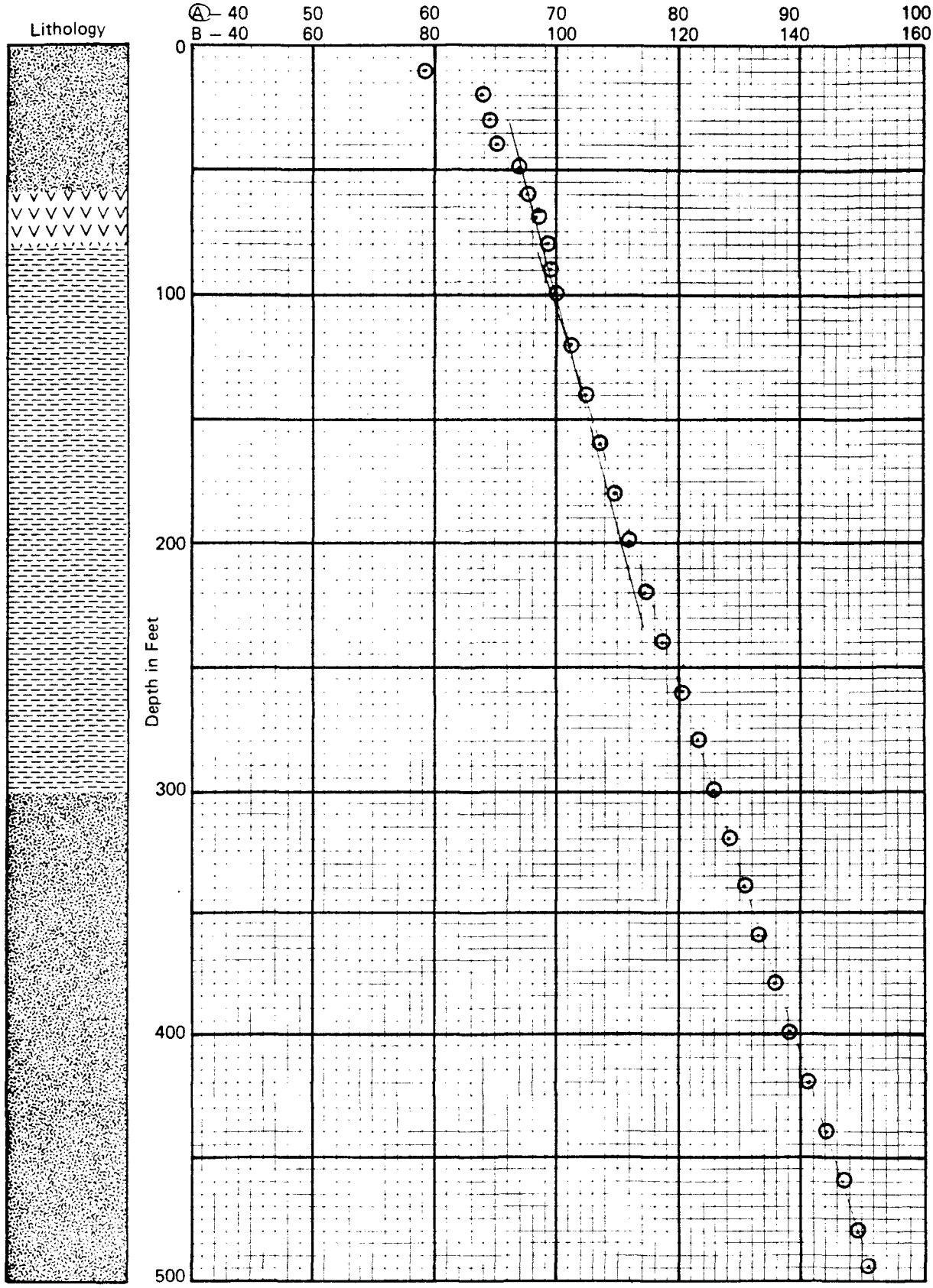
TIME START: 1410 TIME ON BOTTOM: 1505

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 32-78
Sec., 28 Twp., 30N Rge.: 23E

Date Completed: 2-10-78
Date Logged: 2-12-78 & 2-17-78
Logged By: T. Kleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 32-78
S.T.R. : 28, T30N, R23E

DATE COMPLETED : 2-10-78
DATE LOGGED : 2-12-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1202 END - BATT. V = 1166

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ AIR)	3,575	59.1	220	2,291	77.2
20 (AIR)	3,195	63.9	240	2,218	78.7
30	3,145	64.5	260	2,147	80.2
40	3,095	65.1	280	2,081	81.5
50 (1KΩ)	2,945	67.0	300	2,015	82.9
60	2,893	67.6	320	1,955	84.1
70	2,854	68.1	340	1,895	85.3
80	2,794	69.1	360	1,839	86.6
90	2,770	69.5	380	1,790	87.9
100	2,744	69.9	400	1,740	89.2
120	2,669	71.1	420	1,682	90.7
140	2,586	72.4	440	1,629	92.1
160	2,512	73.6	460	1,575	93.5
180	2,439	74.8	480	1,536	94.6
200	2,361	76.0	~~500~~ 495'	1500	95.6

TIME START: 1025 TIME ON BOTTOM: 1210

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 32-78
S.T.R. : 28, T30N, R23E

DATE COMPLETED : 2-10-78
DATE LOGGED : 2-17-78
LOGGED BY : F LEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1152 END - BATT. V = 1133

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10K Ω AIR)	3,485	60.3	220	2,295	77.1
20 (AIR)	3,295	62.6	240	2,222	78.6
30	3,195	63.9	260	2,149	80.1
40	3,125	64.7	280	2,076	81.6
50 (1K Ω)	2,980	66.5	300	2,010	83.0
60	2,925	67.2	320	1,948	84.3
70	2,879	67.8	340	1,886	85.5
80	2,829	68.5	360	1,828	86.9
90	2,806	68.9	380	1,783	88.1
100	2,769	69.5	400	1,731	89.5
120	2,690	70.8	420	1,674	90.9
140	2,602	72.2	440	1,621	92.3
160	2,533	73.3	460	1,568	93.7
180	2,449	74.6	480	1,526	94.8
200	2,374	75.8	~~495~~ 500	1,496	95.8

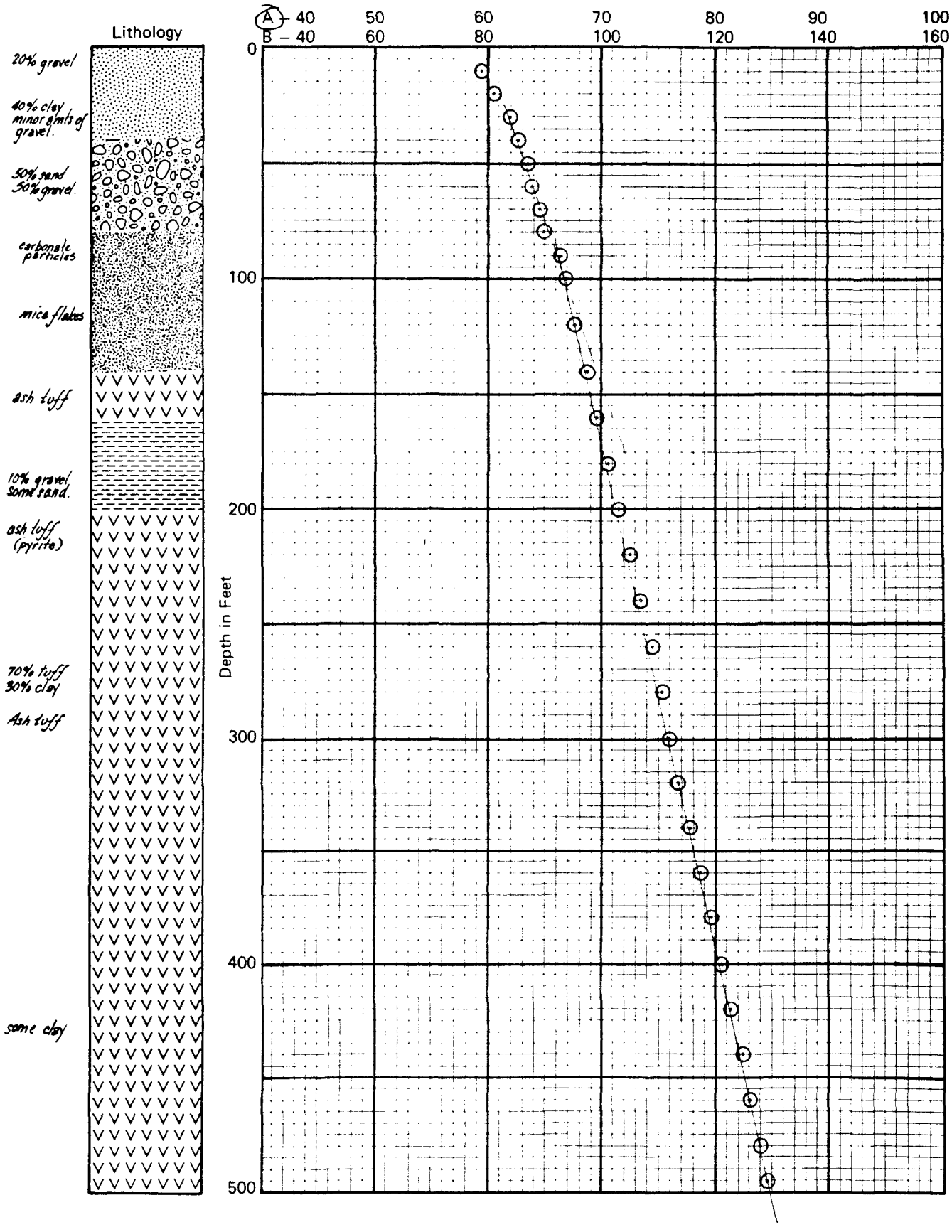
TIME START: 1115 TIME ON BOTTOM: 1220

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 33-78
Sec., 21 Twp., 30N Rge.: 23E

Date Completed: 1-30-78
Date Logged: 2-4-78 & 2-8-78
Logged By: J Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 33-78
S.T.R. : 21, T30N, R23E

DATE COMPLETED : 1-30-78
DATE LOGGED : 2-8-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START - BATT. V = 1132 END - BATT. V = 1092

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ in AIR)	3,765	57.3	220	2,574	72.6
20	3,385	61.5	240	2,518	73.5
30	3,345	62.0	260	2,461	74.4
40	3,295	62.6	280	2,408	75.3
50	3,235	63.4	300	2,355	76.1
60	3,205	63.7	320	2,305	76.9
70	3,155	64.4	340	2,258	77.9
80	3,115	64.9	360	2,210	78.9
90 (1KΩ)	2,989	66.4	380	3,165	79.8
100	2,952	66.9	400	2,122	80.7
120	2,881	67.8	420	2,085	81.4
140	2,811	68.8	440	2,039	82.4
160	2,754	69.7	460	1,998	83.2
180	2,697	70.6	480	1,957	84.1
200	2,634	71.7	496 ~~500~~	1,922	84.8

TIME START: 0855 TIME ON BOTTOM: [redacted] 1016

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 33-78
S.T.R. : 21, T 30N, R 23E

DATE COMPLETED : 1-30-78
DATE LOGGED : 2-4-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT. V = 1124

END - BATT. V = 1108

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 KΩ AIR 10	3,555	59.4	220	2,578	72.6
20	3,475	60.4	240	2,522	73.5
30	3,345	62.0	260	2,466	74.4
40	3,295	62.6	280	2,414	75.2
50	3,235	63.4	300	2,361	76.0
60	3,195	63.9	320	2,312	76.8
70	3,155	64.4	340	2,263	77.8
80	3,115	64.9	360	2,216	78.7
1 KΩ 90	2,988	66.4	380	2,171	79.7
100	2,952	66.9	400	2,128	80.6
120	2,881	67.8	420	2,090	81.3
140	2,817	68.7	440	2,044	82.3
160	2,762	69.6	460	2,004	83.1
180	2,697	70.6	480	1,961	84.0
200	2,637	71.6	~~500~~ 496	1,927	87.7

TIME START: 1405

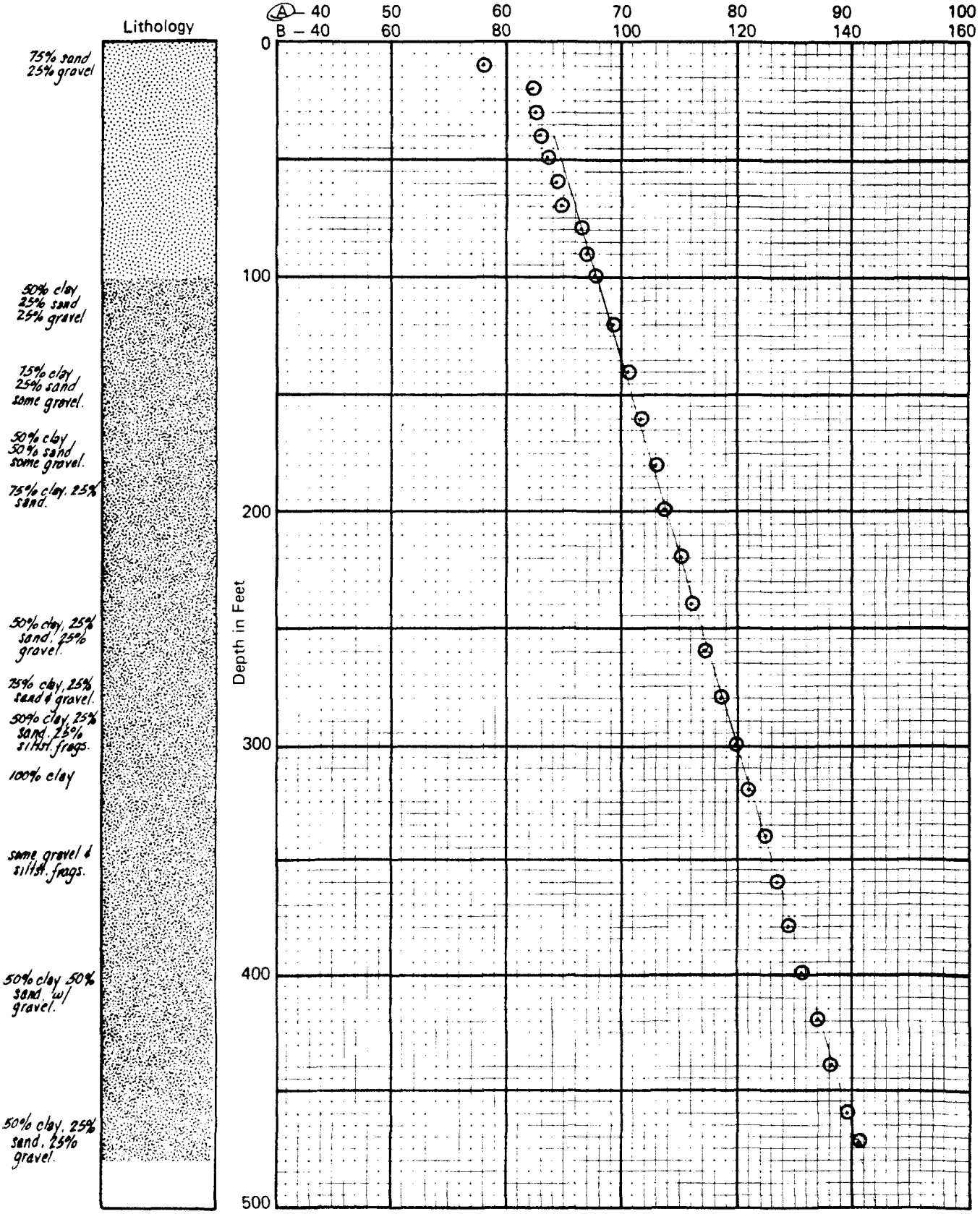
TIME ON BOTTOM: 1520

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 34-78
Sec., ____ Twp., ____ Rge.: ____

Date Completed: 2/9/78
Date Logged: 2/12/78 & 2-17-78
Logged By: J. Flanagan
Temp. Probe: 1100' Chevron

Temperature in °F
(Circle Scale Used)



Approved: ____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 34-78
S.T.R. : 21, T30N, R23E

DATE COMPLETED : 2-9-78
DATE LOGGED : 2-17-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START- BATT. V = 1162 END- BATT. V = 1141

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,815	56.8	220	2,437	74.8
20	3,375	61.6	240	2,367	75.9
30	3,365	61.8	260	2,298	77.1
40	3,325	62.3	280	2,234	78.4
50	3,255	63.1	300	2,163	79.8
60	3,195	63.9	320	2,106	81.0
70	3,155	64.4	340	2,034	82.5
80	3095	65.1	360	1,991	83.4
90	2,978	66.6	380	1,924	84.8
100	2,932	67.1	400	1,871	85.8
120	2,818	68.7	420	1,824	87.0
140	2,731	70.1	440	1,775	88.3
160	2,652	71.4	460	1,724	89.6
180	2,570	72.7	477 ~~480~~	1,689	90.6
200	2,522	73.5	500		

TIME START: 0730 TIME ON BOTTOM: 0840

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 34-78
S.T.R. : 21, T30N, 23E

DATE COMPLETED : 2-9-78
DATE LOGGED : 2-12-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START-BATT.V = 1240 END-BATT.V = 1188

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,695	58.0	220	2,421	75.1
20	3,335	62.1	240	2,358	76.1
30	3,305	62.5	260	2,290	77.2
40	3275	62.9	280	2,226	78.5
50	3,225	63.5	300	2,159	79.9
60	3,165	64.2	320	2,105	81.0
70	3,115	64.9	340	2,039	82.4
80	2,979	66.5	360	1,985	83.5
90	2,941	67.0	380	1,934	84.5
100	2,894	67.6	400	1,877	85.7
120	2,786	69.2	420	1,823	87.0
140	2,704	70.5	440	1,783	88.1
160	2,627	71.8	460	1,730	89.5
180	2,550	73.0	477 ~~480~~	1,689	90.6
200	2,498	73.8	500		

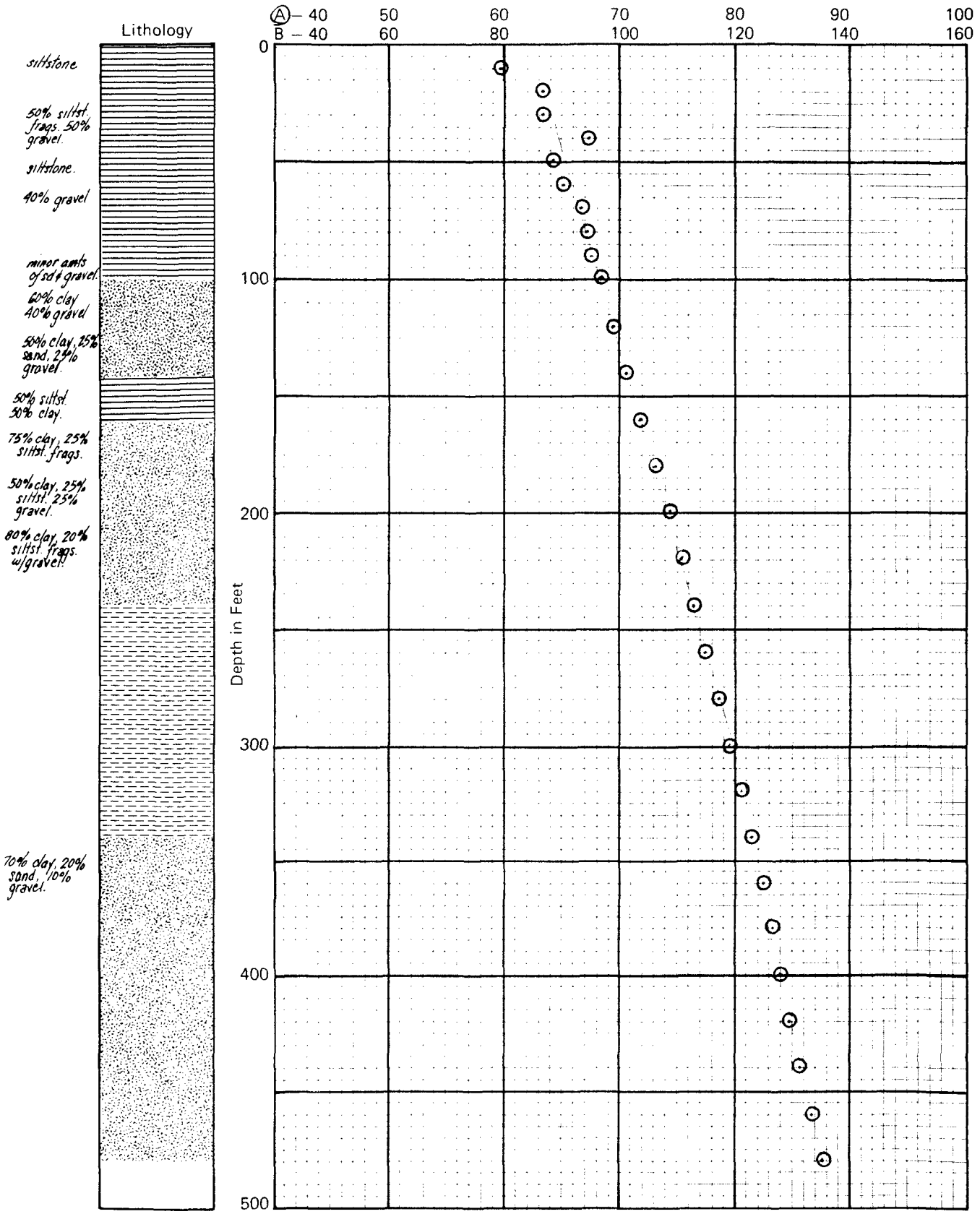
TIME START: 0810 TIME ON BOTTOM: 0950

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 35-78
Sec., 27 Twp., ____ Rge.: ____

Date Completed: 2-6-78
Date Logged: 2-8-78 & 2-11-78 & 2-15-78
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: ____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 35-78
S.T.R. : 27, T29N, R23E

DATE COMPLETED : 2-6-78
DATE LOGGED : 2-15-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER

START - BATT. V = 1178 END - BATT. V = 1152

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 KΩ 10	3,715	57.8	220	2,459	74.5
20	3,395	61.4	240	2,388	75.6
30	3,375	61.6	260	2,326	76.6
40	3,165	64.2	280	2,266	77.7
50	3255	63.1	300	2,210	78.9
60	3,195	63.9	320	2,158	79.9
70	3,155	64.4	340	2,109	80.9
80	3,115	64.9	360	2,063	81.9
1 KΩ 90	2,986	66.5	380	2,016	82.9
100	2939	67.0	400	1,975	83.7
120	2,851	68.2	420	1,936	84.5
140	2,768	69.5	440	1,892	85.4
160	2,683	70.9	460	1,848	86.4
180	2,605	72.1	480	1,806	87.5
200	2,527	73.4	~~482~~ 500	1,803	87.6

TIME START: 1145

TIME ON BOTTOM: 1255

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 35-78
S.T.R. : 27, T29N, R23E

DATE COMPLETED : 2-6-78
DATE LOGGED : 2-9-78
LOGGED BY : FLEINER
UNIT NO. : 1,000'

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START - BATT. V = 1112 END - BATT. V = 1086

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,515	59.9	220	2,405	75.3
20	3,245	63.2	240	2,341	76.4
30	3,245	63.2	260	2,285	77.3
40	2,916	67.3	280	2,229	78.5
50	3,165	64.2	300	2,177	79.5
60	3,095	65.1	320	2,129	80.5
70	2,966	66.7	340	2,085	81.4
80	2,934	67.1	360	2,041	82.3
90	2,900	67.5	380	1,997	83.2
100	2,850	68.2	400	1,959	84.0
120	2,771	69.5	420	1,922	84.8
140	2,700	70.6	440	1,879	85.7
160	2,616	71.9	460	1,838	86.7
180	2,545	73.1	~~480~~ 480	1,798	87.7
200	2,466	74.4	~~500~~		

10KΩ
1KΩ
10KΩ
1KΩ

TIME START: 0945 TIME ON BOTTOM: 1055

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 35-78
S.T.R. : 27, T29N, R23E

DATE COMPLETED : 2-6-78
DATE LOGGED : 2-11-78
LOGGED BY : FLEINER
UNIT NO. : 1,000'

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START - BATT. V = 1109 END - BATT. V = 1071

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,635	58.5	220	2,426	75.0
20	3,335	62.1	240	2,358	76.1
30	3,325	62.3	260	2,300	77.0
40	3,105	65.0	280	2,240	78.3
50	3,215	63.6	300	2,186	79.4
60	3,145	64.5	320	2,136	80.4
70	3,095	65.1	340	3,089	81.4
80	2,976	66.6	360	2,044	82.3
90	2,937	67.1	380	1,998	83.2
100	2,891	67.6	400	1,959	84.0
120	2,807	68.9	420	1,921	84.8
140	2,727	70.2	440	1,877	85.7
160	2,643	71.5	460	1,835	86.7
180	2,569	72.7	480	1,794	87.8
200	2,490	74.0	~~500~~ 482	1,789	87.9

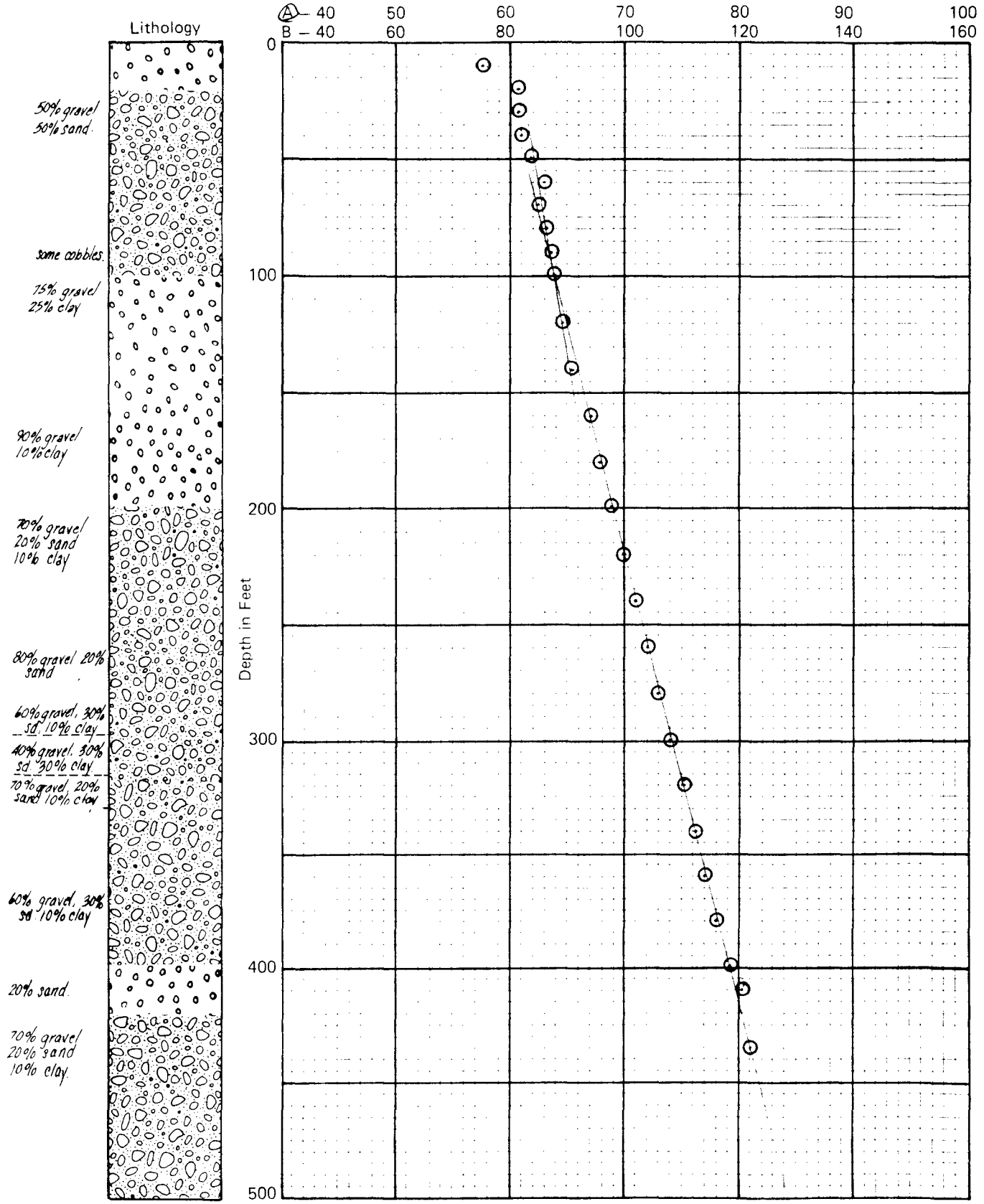
TIME START: 1105 TIME ON BOTTOM: 1250

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 36-78
Sec., 32 Twp., ____ Rge.: ____

Date Completed: 2-7-78
Date Logged: 2-8-78, 2-11-78 & 2-15-78
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: ____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 36-78
S.T.R. : 32, T29N, R23E

DATE COMPLETED : 2-7-78
DATE LOGGED : 2-15-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START- BATT. V = 1192 END - BATT. V = 1160

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,925	55.8	220	2,764	69.6
20	3,515	59.9	240	2,694	70.7
30	3,525	59.8	260	2,627	71.8
40	3,495	60.1	280	2,565	72.8
50	3,435	60.9	300	2,499	73.8
60	3,365	61.8	320	2,433	74.9
70	3,355	61.9	340	2,371	75.9
80	3,325	62.3	360	2,310	76.9
90	3285	62.7	380	2,258	77.9
100	3,255	63.1	400	2,206	79.0
120	3,195	63.9	420	2,152	80.1
140	3,125	64.7	~~440~~ 435	2,110	80.9
160	2,971	66.6	460		
180	2,907	67.4	480		
200	2,842	68.3	500		

TIME START: 0945 TIME ON BOTTOM: 1050

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 36-78
S.T.R. : 32, T29N, R23E

DATE COMPLETED : 2-7-78
DATE LOGGED : 2-9-78
LOGGED BY : FLEINER
UNIT NO. : 1000'

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START - BATT. V = 1127 END - BATT. V = 1093

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,725	57.7	220	2,740	70.0
20	3,445	60.8	240	2,675	71.0
30	3,445	60.8	260	2,615	72.0
40	3,425	61.0	280	2,549	73.0
50	3,365	61.8	300	2,485	74.0
60	3,265	63.0	320	2,417	75.1
70	3,305	62.5	340	2,359	76.1
80	3,255	63.1	360	2,302	77.0
90	3,215	63.6	380	2,251	78.0
100	3,195	63.9	400	2,200	79.1
120	3,135	64.6	420	2,147	80.2
140	3,075	65.4	~~435~~ 440	2,108	81.0
160	2,932	67.1	460		
180	2,871	67.9	480		
200	2,809	68.9	500		

TIME START: 0835 TIME ON BOTTOM: 0940

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 36-78
S.T.R. : 32, T29N, R23E

DATE COMPLETED : 2-7-78
DATE LOGGED : 2-11-78
LOGGED BY : FLEINER
UNIT NO. : 1000'

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START - BATT V = 1124 END - BATT. V = 1072

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ)	3,745	57.5	220	2,735	70.0
20	3,485	60.3	240	2,666	71.1
30	3,495	60.1	260	2,600	72.2
40	3,455	60.6	280	2,538	73.2
50	3,395	61.4	300	2,474	74.2
60	3,325	62.3	320	2,408	75.3
70	3335	62.1	340	2347	76.3
80	3,285	62.7	360	2288	77.3
90	3245	63.2	380	2236	78.3
100	3225	63.5	400	2186	79.4
120	3165	64.2	420	2133	80.5
140	3085	65.2	~~440~~ 435	2094	81.3
160 (1KΩ)	2948	66.9	460		
180	2,881	67.8	480		
200	2,808	68.9	500		

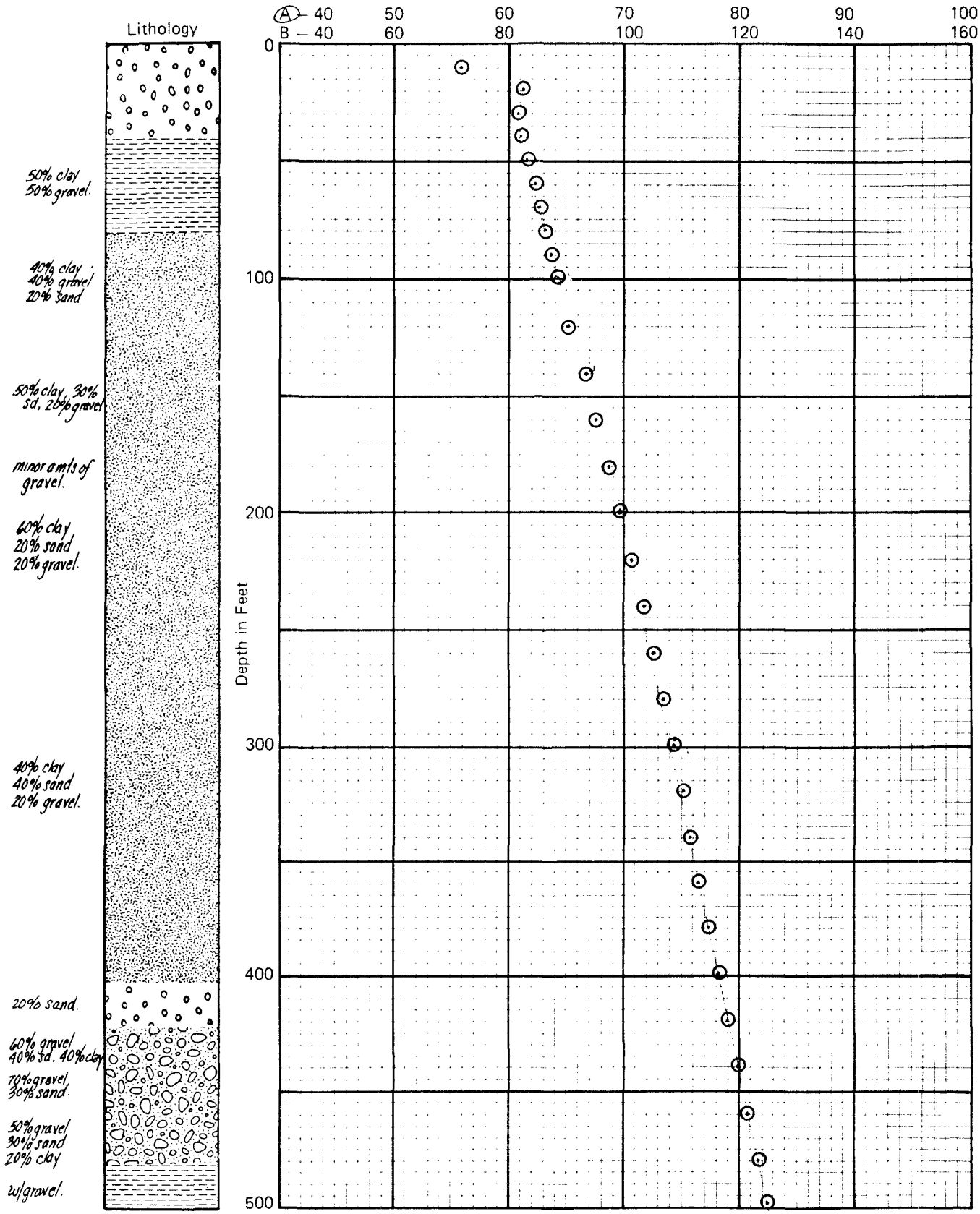
TIME START: 0800 TIME ON BOTTOM: 0905

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 37-78
Sec., ____ Twp., ____ Rge.: ____

Date Completed: 2-8-78
Date Logged: 2-12-78 2-16-78
Logged By: T. Flynn
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: ____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 37-78
S.T.R. : 32, T29N, R23E

DATE COMPLETED : 2-8-77
DATE LOGGED : 2-16-77
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START - BATT. V = 1172 END - BATT. V = 1144

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,935	55.7	220	2,691	70.7
20	3,425	61.0	240	2,630	71.7
30	3,455	60.6	260	2,582	72.5
40	3,435	60.9	280	2,527	73.4
50	3395	61.4	300	2477	74.2
60	3345	62.0	320	2,426	75.0
70	3,305	62.5	340	2,378	75.8
80	3265	63.0	360	2,334	76.5
90	3225	63.5	380	2,291	77.2
100	3175	64.1	400	2246	78.1
120	3105	65.0	420	2,204	79.0
140	2,962	66.8	440	2,160	79.9
160	2,898	67.6	460	2,118	80.8
180	2828	68.5	480	2,075	81.6
200	2,758	69.7	~~497~~ 500	2041	82.3

TIME START: 0940 TIME ON BOTTOM: 1050

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 37-78
S.T.R. : 32, T29N, R23E

DATE COMPLETED : 2-8-78
DATE LOGGED : 2-12-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER

START - BATT. V = 1184 END - BATT. V = 1160

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10K-2 AIR 10	3925	55.8	220	2,682	70.9
20	3,405	61.3	240	2,619	71.9
30	3435	60.9	260	2,575	72.6
40	3,415	61.1	280	2,520	73.5
50	3375	61.6	300	2,471	74.3
60	3325	62.3	320	2,422	75.1
70	3,285	62.7	340	2,373	75.8
80	3,245	63.2	360	2,330	76.5
90	3,215	63.6	380	2,288	77.3
100	3,165	64.2	400	2,244	78.2
120	3,095	65.1	420	2,202	79.0
1K-2 140	2,949	66.9	440	2,158	79.9
160	2,886	67.7	460	2,115	80.8
180	2,818	68.7	480	2074	81.7
200	2,748	69.8	497 ~~500~~	2038	82.4

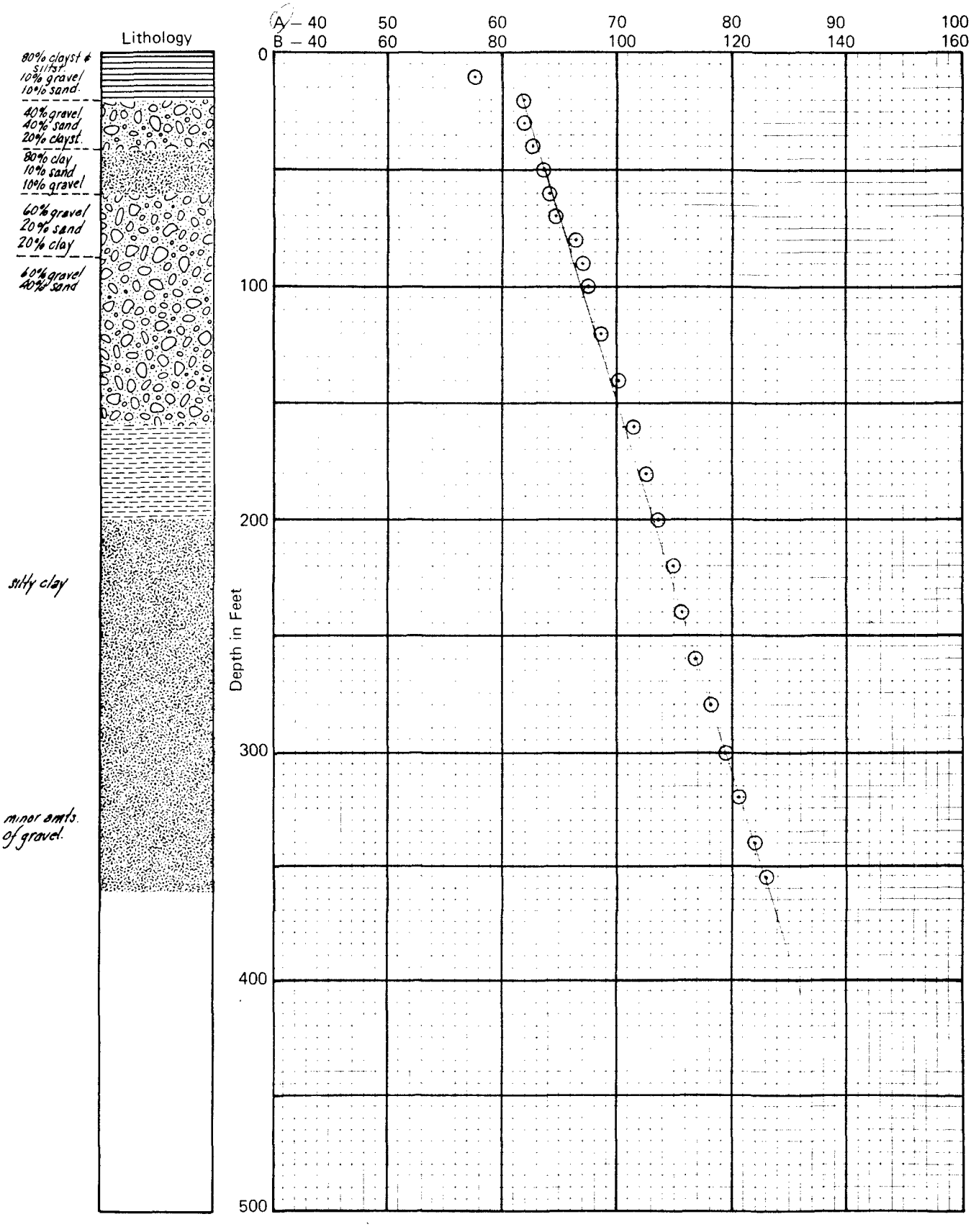
TIME START: 1315 TIME ON BOTTOM: 1450

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 38-78
Sec., [illegible] Twp., [illegible] Rge.: [illegible]
[illegible] 2000' W of NE [illegible]

Date Completed: 1-28-78
Date Logged: 2-6-78 (2nd log.)
Logged By: J Fleiner
Temp. Probe: Chevron (1100')

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 38-78
S.T.R. : 33, T29N, R23E

DATE COMPLETED : 1-28-78
DATE LOGGED : 2-1-78
LOGGED BY : FLEINER
UNIT NO. : 4000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START- BATT. V = 1164 END- BATT. V = 1134

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ AIR)	3,555	59.4	220	2,428	75.0
20	3,325	62.3	240	2,368	75.9
30	3,315	62.4	260	2,304	77.0
40	3,245	63.2	280	2,241	78.2
50	3,195	63.9	300	2,179	79.5
60	3,145	64.5	320	2,120	80.7
70	3,095	65.1	340	2,057	82.0
80 (1KΩ)	2,965	66.7	~~360~~ 356	2,007	83.0
90	2,919	67.3	380		
100	2,886	67.7	400		
120	2,796	69.1	420		
140	2,708	70.5	440		
160	2,627	71.8	460		
180	2,551	73.0	480		
200	2,489	74.0	500		

TIME START: 1600 TIME ON BOTTOM: 1700

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 38-78
S.T.R. : 33, T 29N, R 23E

DATE COMPLETED : 1-28-78
DATE LOGGED : 2-6-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1138

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,735	57.6
20	3,355	61.9
30	3,355	61.9
40	3,285	62.7
50	3,225	63.5
60	3,175	64.1
70	3,125	64.7
80	2,992	66.4
90	2,945	67.0
100	2,906	67.5
120	2,817	68.7
140	2,730	70.1
160	2,638	71.6
180	2,567	72.7
200	2,499	73.8

END - BATT. V = 1108

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
220	2,433	74.9
240	2,375	75.8
260	2,310	76.9
280	2,246	78.1
300	2,183	79.4
320	2,125	80.6
340	2,060	82.0
~~360~~ 356	2,008	83.0
380		
400		
420		
440		
460		
480		
500		

TIME START: 1220

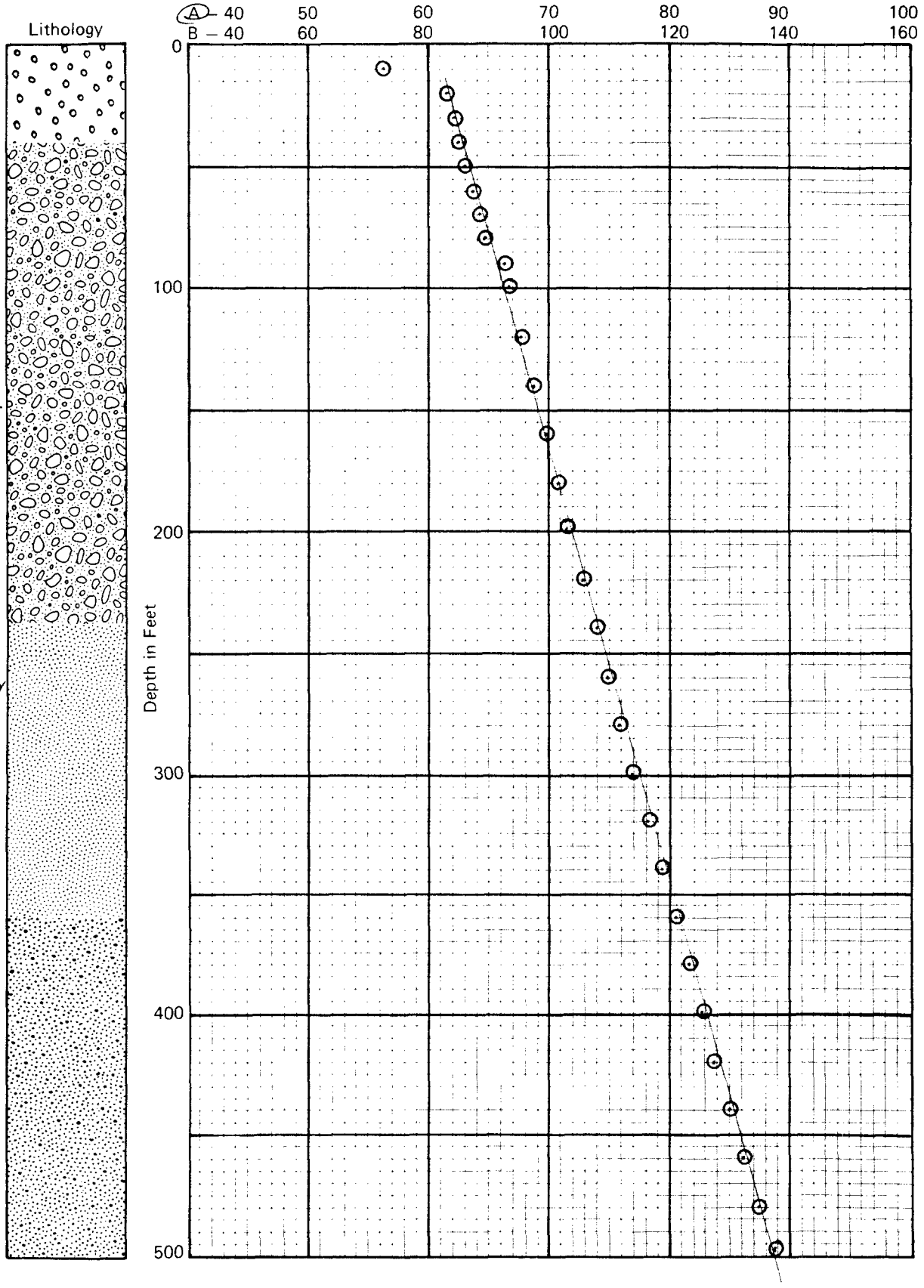
TIME ON BOTTOM: 1310

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 39-78
Sec., 22 Twp., 29N Rge.: 23E

Date Completed: 2-11-78
Date Logged: 2-15-78
Logged By: J. Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 39-78
S.T.R. : 23, T29N, R23E

DATE COMPLETED : 2-11-78
DATE LOGGED : 2-15-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START - BATT. V = 1172

END - BATT. V = 1146

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,875	56.3	220	2,555	72.9
20	3385	61.5	240	2489	74.0
30	3335	62.1	260	2429	74.9
40	3315	62.4	280	2,369	75.9
50	3265	63.0	300	2308	76.9
60	3215	63.6	320	2245	78.2
70	3165	64.2	340	2,190	79.3
80	3125	64.7	360	2,133	80.5
90	2988	66.4	380	2077	81.6
100	2966	66.7	400	2023	82.7
120	2,896	67.6	420	1968	83.8
140	2825	68.6	440	1913	85.0
160	2752	69.8	460	1860	86.1
180	2689	70.8	480	1809	87.4
200	2645	71.5	~~500~~ 497	1764	88.6

TIME START: 1435

TIME ON BOTTOM: 1555

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 39-78
S.T.R. : 22, T29N, R23E

DATE COMPLETED : 2-11-78
DATE LOGGED : 3-9-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT.V = 1178 END - BATT.V = 1152

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,875	56.3	220	2,554	72.9
20	3,425	61.0	240	2,490	74.0
30	3,365	61.8	260	2,425	75.0
40	3,335	62.1	280	2,369	75.9
50	3,285	62.7	300	2,306	76.9
60	3,235	63.4	320	2,245	78.2
70	3,185	64.0	340	2,186	79.4
80	3,145	64.5	360	2,130	80.5
90	3,085	65.2	380	2,074	81.7
100	2,979	66.5	400	2,018	82.8
120	2,908	67.4	420	1,961	84.0
140	2,834	68.4	440	1,908	85.1
160	2,760	69.6	460	1,853	86.3
180	2,693	70.7	480	1,800	87.6
200	2,631	71.7	~~500~~ 497	1,763	88.6

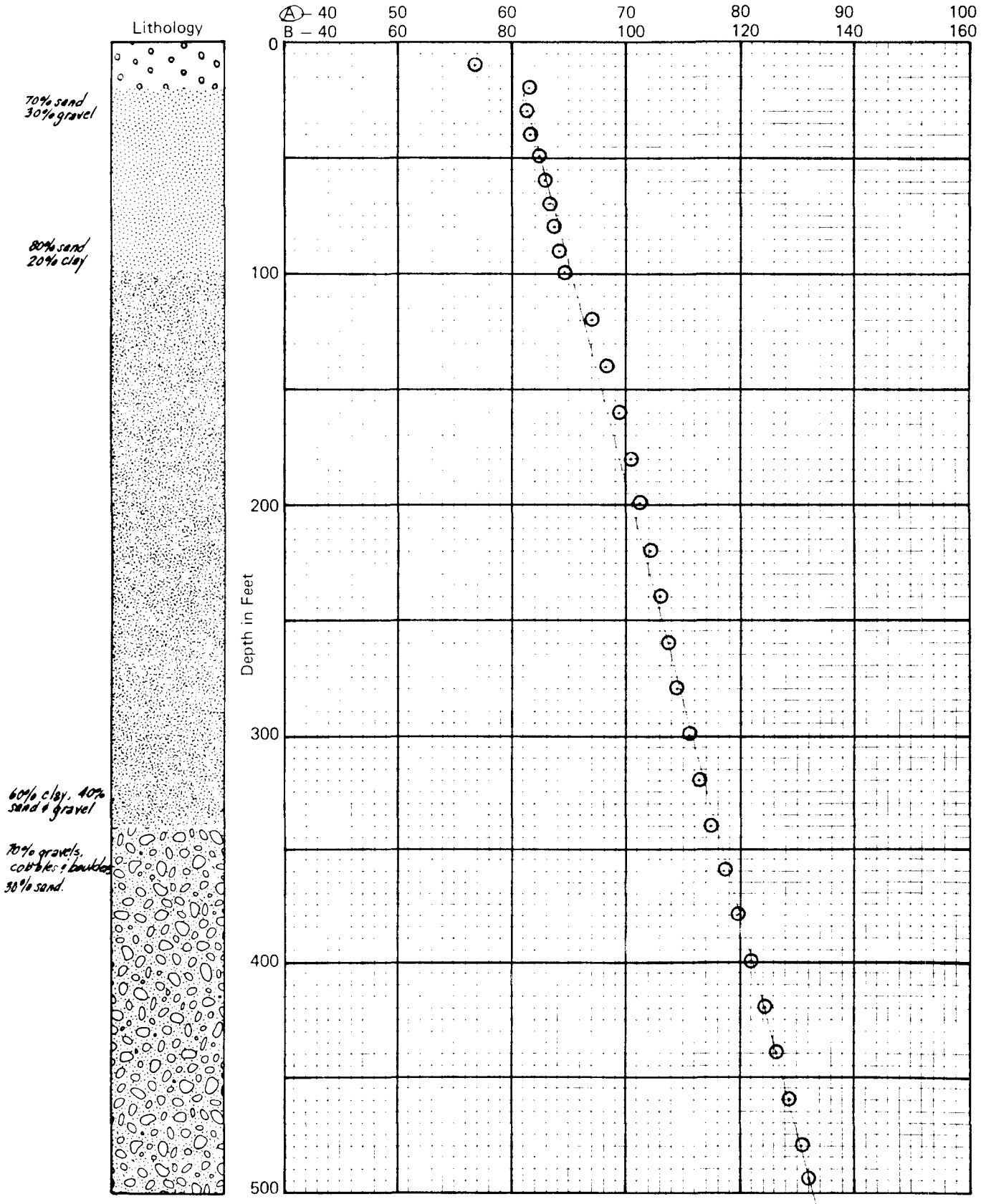
TIME START: 0815 TIME ON BOTTOM: 0920

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emido
State: Nevada
Hole No.: 40-18
Sec., 27 Twp., 29N Rge.: 23E

Date Completed: 2-13-78
Date Logged: 2-16-78
Logged By: Fleiner
Temp. Probe: Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 40-78
S.T.R. : ~~40-78~~ 527 T29N R23E

DATE COMPLETED : 2-13-78
DATE LOGGED : 3-8-78
LOGGED BY : F LEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START- BATT. V = 1182 END- BATT. V = 1164

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,455	60.6	220	2,611	72.0
20	3,435	60.9	240	2,559	72.9
30	3,425	61.0	260	2,512	73.6
40	3,395	61.4	280	2,464	74.4
50	3,345	62.0	300	2,403	75.4
60	3,305	62.5	320	2,346	76.3
70	3,265	63.0	340	2,286	77.3
80	3,225	63.5	360	2,225	78.6
90	3,185	64.0	380	2,165	79.8
100	3,135	64.6	400	2,103	81.1
120	2,956	66.8	420	2,043	82.3
140	2,860	68.0	440	1,991	83.4
160	2,787	69.2	460	1,940	84.4
180	2,720	70.3	480	1,895	85.3
200	2,664	71.2	~~494~~ 500	1,863	86.0

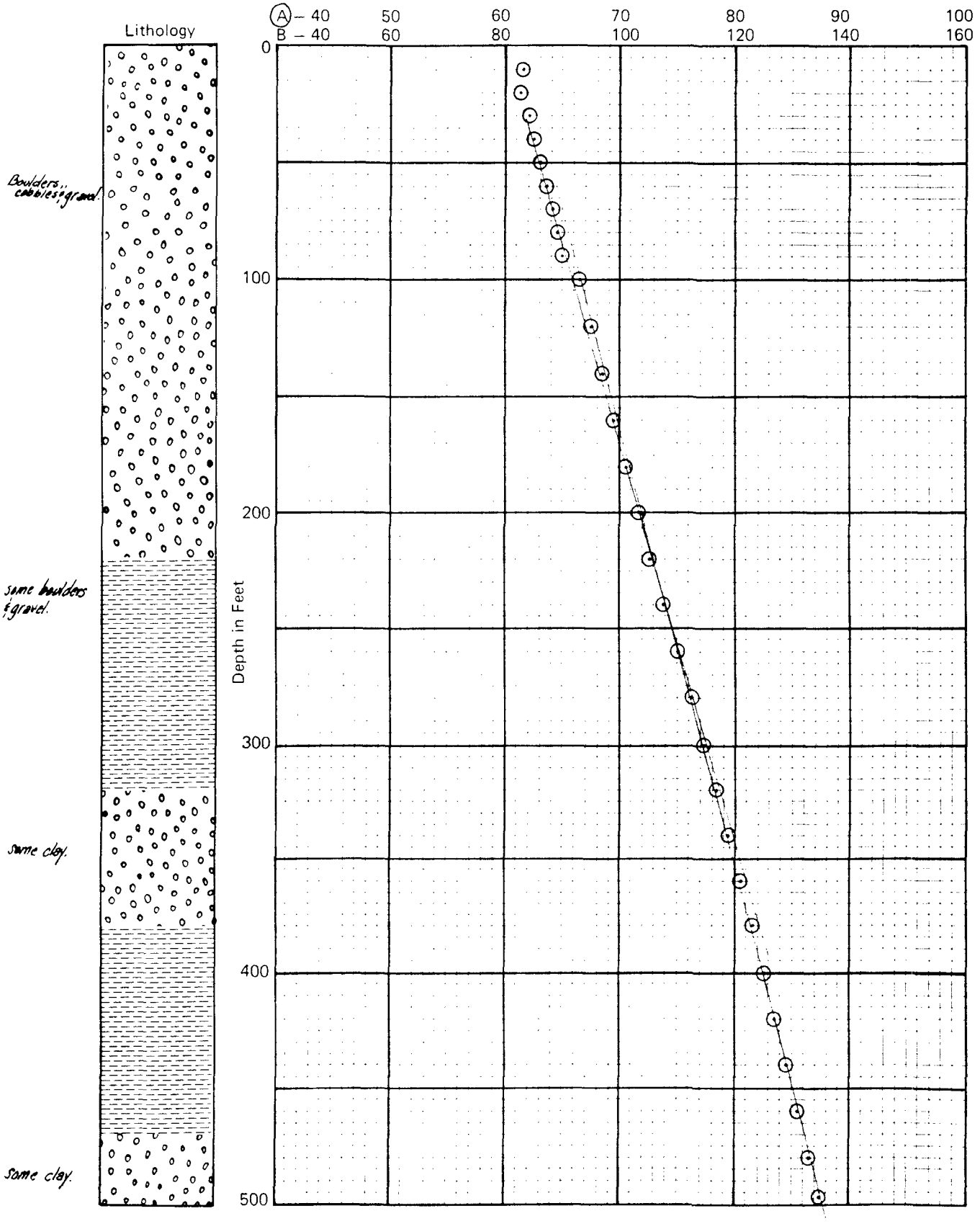
TIME START: 1305 TIME ON BOTTOM: 1410

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 41-78
Sec., 33 Twp., 29N Rge.: 23E

Date Completed: 3-6-78
Date Logged: 3-15-78
Logged By: Jack Fleiner
Temp. Probe: Chevron 1000'

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 4-78
S.T.R. : S. 38 T29N R23E

DATE COMPLETED : 3-6-78
DATE LOGGED : 3-9-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER

START - BATT. ✓ = 1169 END - BATT. ✓ = 1147

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ)	3,785	57.1	220	2,549	73.0
20	3,305	62.5	240	2,479	74.1
30	3,275	62.9	260	2,410	75.3
40	3,255	63.1	280	2,346	76.3
50	3,205	63.7	300	2,288	77.3
60	3,165	64.2	320	2,235	78.4
70	3,125	64.7	340	2,184	79.4
80	3,085	65.2	360	2,131	80.5
90 (1KΩ)	2,969	66.7	380	2,074	81.7
100	2,936	67.1	400	2,025	82.7
120	2,867	67.9	420	1,976	83.7
140	2,803	68.9	440	1,929	84.6
160	2,738	70.0	460	1,884	85.6
180	2,676	71.0	480	1,840	86.6
200	2,610	72.0	~~500~~ 496	1,804	87.5

TIME START: 1020 TIME ON BOTTOM: 1130

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : A1-78
S.T.R. : S 38 T29N R23E

DATE COMPLETED : 3-6-78
DATE LOGGED : 3-15-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START- BATT. V : 1162 END- BATT. V = 1141

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 IN AIR	3385	61.5	220	2,564	72.8
20	3,405	61.3	240	2,494	73.9
30	3,335	62.1	260	2,420	75.1
40	3,315	62.4	280	2,354	76.2
50	3,265	63.0	300	2,292	77.2
60	3,225	63.5	320	2,236	78.3
70	3,175	64.1	340	2,184	79.4
80	3,145	64.5	360	2,133	80.5
90	3,105	65.0	380	2,079	81.6
100	2,976	66.6	400	2,026	82.7
120	2,903	67.5	420	1,978	83.6
140	2834	68.4	440	1,934	84.5
160	2,768	69.5	460	1,889	85.5
180	2,700	70.6	480	1,845	86.5
200	2630	71.7	496 ~~500~~	1,810	87.4

TIME START: 1115 TIME ON BOTTOM: 12 25

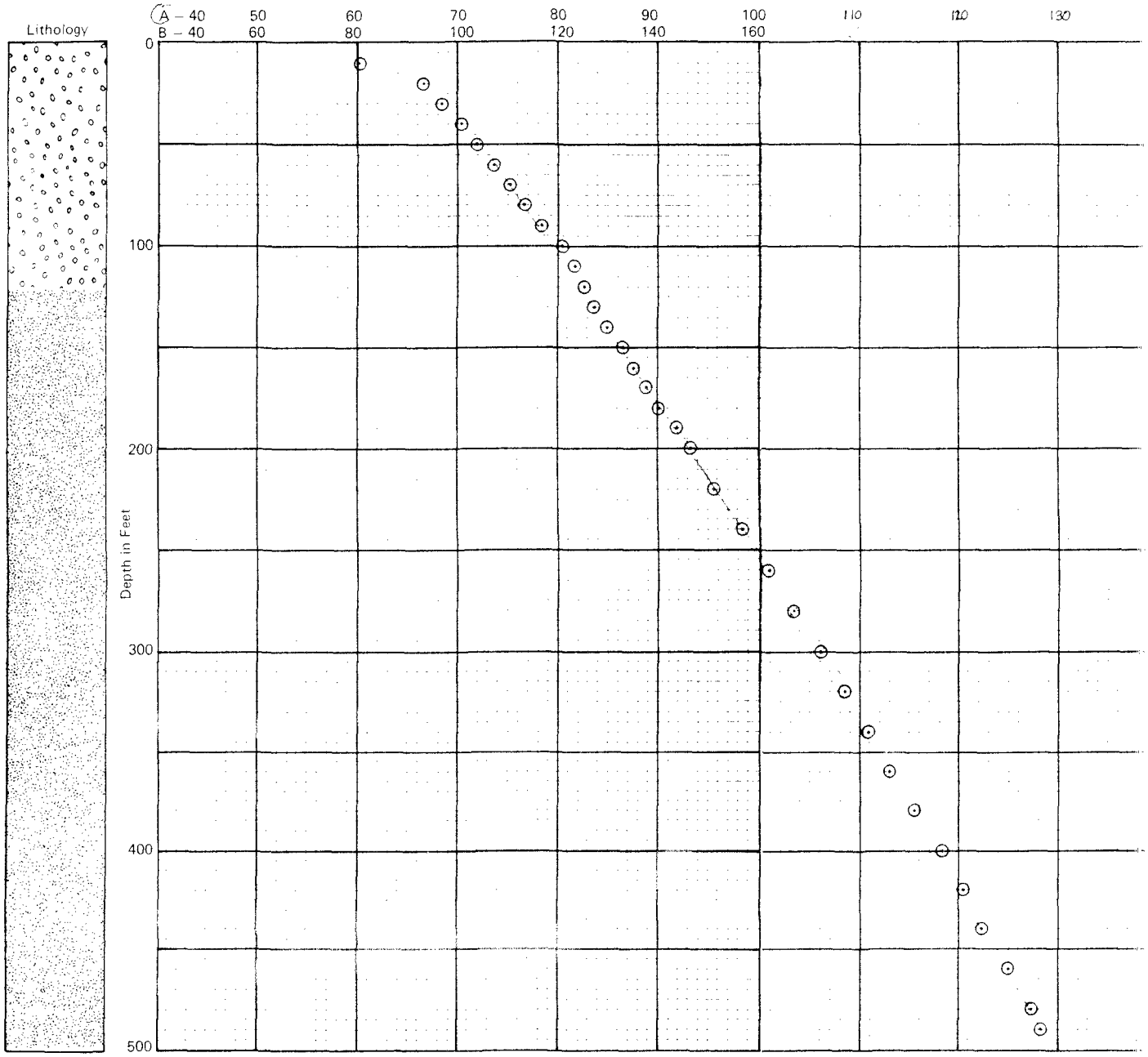
2nd log

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 42-15
Sec., ___ Twp., ___ Rge.: ___

Date Completed: 3-9-78
Date Logged: 3-19-78
Logged By: Jack Skinner
Temp. Probe: Chevron 1000'

Temperature in °F
(Circle Scale Used)



Approved: ___

Approved: ___

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 42-78
S.T.R. : 5 16 T29N R23E

DATE COMPLETED : 3-9-78
DATE LOGGED : 3-15-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START- BATT. V = 1161 END- BATT. V = 1141

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,165	64.6	220	1,505	95.5
20	2,921	67.3	240	1,422	98.2
30	2,821	68.7	260	1,345	100.8
40	2,714	70.4	280	1,273	103.2
50	2,596	72.3	300	1,201	106.0
60	2,493	73.9	320	1,143	108.4
70	2,396	75.5	340	1,086	110.8
80	2,307	76.9	360	1,035	112.9
90	2,230	78.5	380	985	115.5
100	2,155	80.0	400	935	118.1
120	2,018	82.8	420	896	120.1
140	1,920	84.8	440	858	122.1
160	1,815	87.3	460	814	125.0
180	1,691	90.5	480	779	127.2
200	1,592	93.1	~~490~~ 500	764	128.2

TIME START: 14 25 TIME ON BOTTOM: 15 40

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 42-78
S.T.R. : S16 T29N R23E

DATE COMPLETED : 3-9-78
DATE LOGGED : 3-19-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START-BATT V = 11.51 END- BATT. V = 11.29

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,495	60.1	220	1,498	95.7
20	2,968	66.7	240	1,417	98.4
30	2,837	68.4	260	1,340	100.9
40	2,716	70.3	280	1,267	103.4
50	2,612	72.0	300	1,197	106.1
60	2,506	73.7	320	1,139	108.5
70	2,411	75.2	340	1,082	110.9
80	2,317	76.7	360	1,032	113.0
90	2,242	78.2	380	982	115.6
100	2,138	80.[illegible]3	400	933	118.2
110 / 120	2,068 / 2,020	81.8 / 82.[illegible]8	420	892	120.3
130 / 140	1,971 / 1,912	83.8 / 85.0	440	856	122.2
150 / 160	1,842 / 1,797	86.6 / 87.7	460	813	125.0
170 / 180	1,750 / 1,706	89.0 / 90.1	480	779	127.2
190 / 200	1,634 / 1,586	92.0 / 93.2	490 / 500	764	128.2

TIME START: 1125

TIME ON BOTTOM: 1205

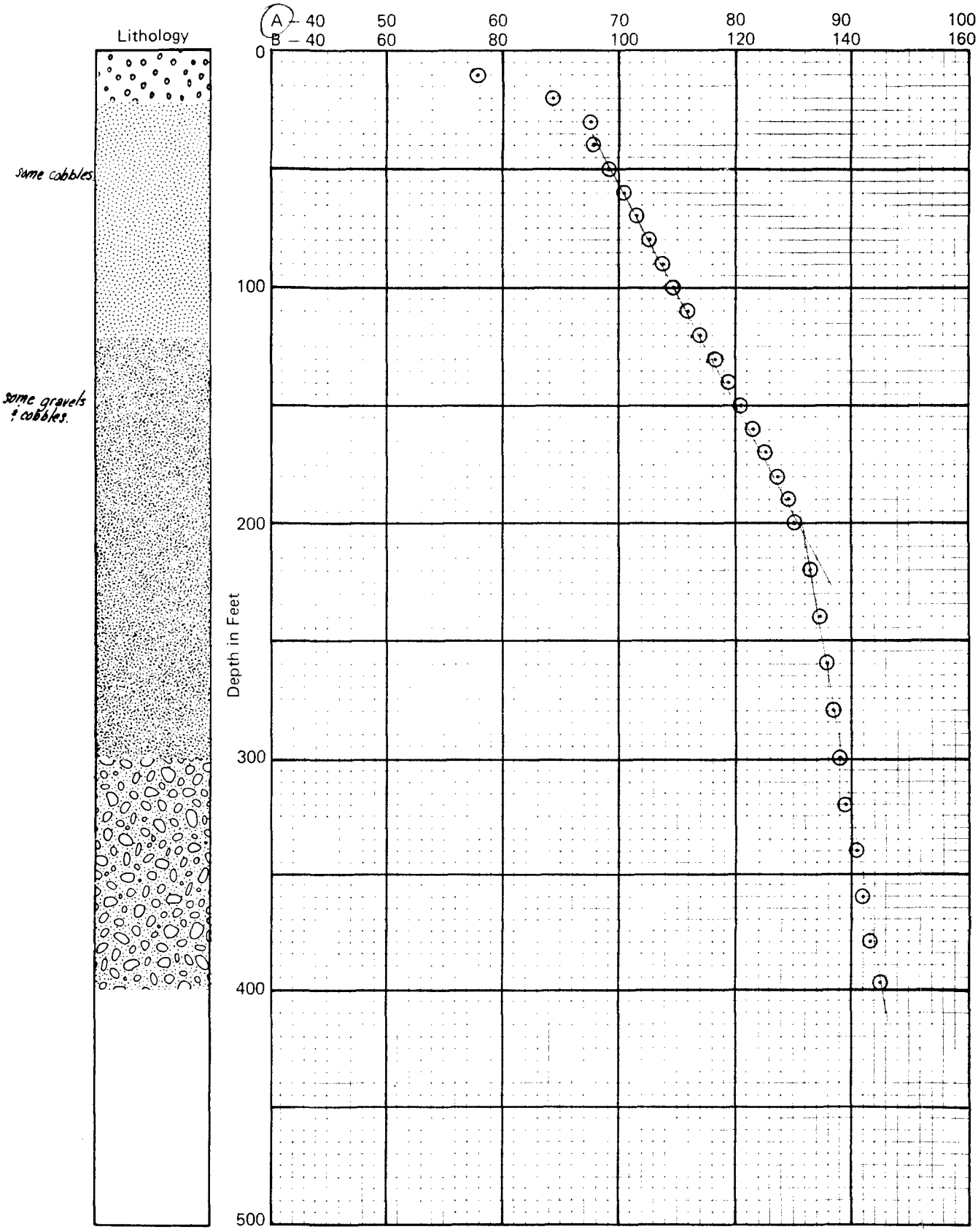
2nd log

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 43-78
Sec., ___ Twp., ___ Rge.: ___

Date Completed: 3-10-78
Date Logged: 3-19-78
Logged By: J Fleiner
Temp. Probe: Chevron 1000'

Temperature in °F
(Circle Scale Used)



Approved: ___

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 43-78
S.T.R. : 5/5 T29N R23E

DATE COMPLETED : 3-10-78
DATE LOGGED : 3-15-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1164 END - BATT. V = 1142

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ AIR)	3,755	57.4	220	1,850	86.3
20	3,085	65.2	240	1,816	87.2
30 (1KΩ)	2,902	67.5	260	1,789	87.9
40	2,841	68.3	280	1,768	88.5
50	2,766	69.5	300	1,748	89.0
60	2,687	70.8	320	1,726	89.6
70	2,615	72.0	340	1,699	90.3
80	2,543	73.1	360	1,670	91.1
90	2,480	74.1	380	1,640	91.8
100	2,413	75.2	~~400~~ 397	1,610	92.6
120	2,295	77.1	420		
140	2,184	79.4	440		
160	2,070	81.7	460		
180	1,967	83.9	480		
200	1,905	85.1	500		

TIME START: 0950 TIME ON BOTTOM: 1020

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 3-78
S.T.R. : 515 T29N R23E

DATE COMPLETED : 3-10-78
DATE LOGGED : 3-19-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1162 END - BATT. V = 1134

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,705	57.9	220	1,853	86.3
20	3,165	64.2	240	1,818	87.2
30	2,905	67.5	260	1,791	87.9
40	2,875	67.8	280	1,769	88.5
50	2,792	69.1	300	1749	89.0
60	[redacted]	70.4	320	1,727	89.6
70	2,635	71.6	340	1,700	90.3
80	2,563	72.8	360	1,672	91.0
90	2,494	73.9	380	1,641	91.8
100	2,438	74.8	~~400~~ 397	1,611	92.6
110					
120	2,366	76.0	420		
	2,303	77.0			
130					
140	2,243	78.2	440		
	2,184	79.4			
150					
160	2,132	80.5	460		
	2,076	81.6			
170					
180	2,021	82.8	480		
	1,968	83.8			
190					
200	1,926	84.7	500		
	1,909	85.1			

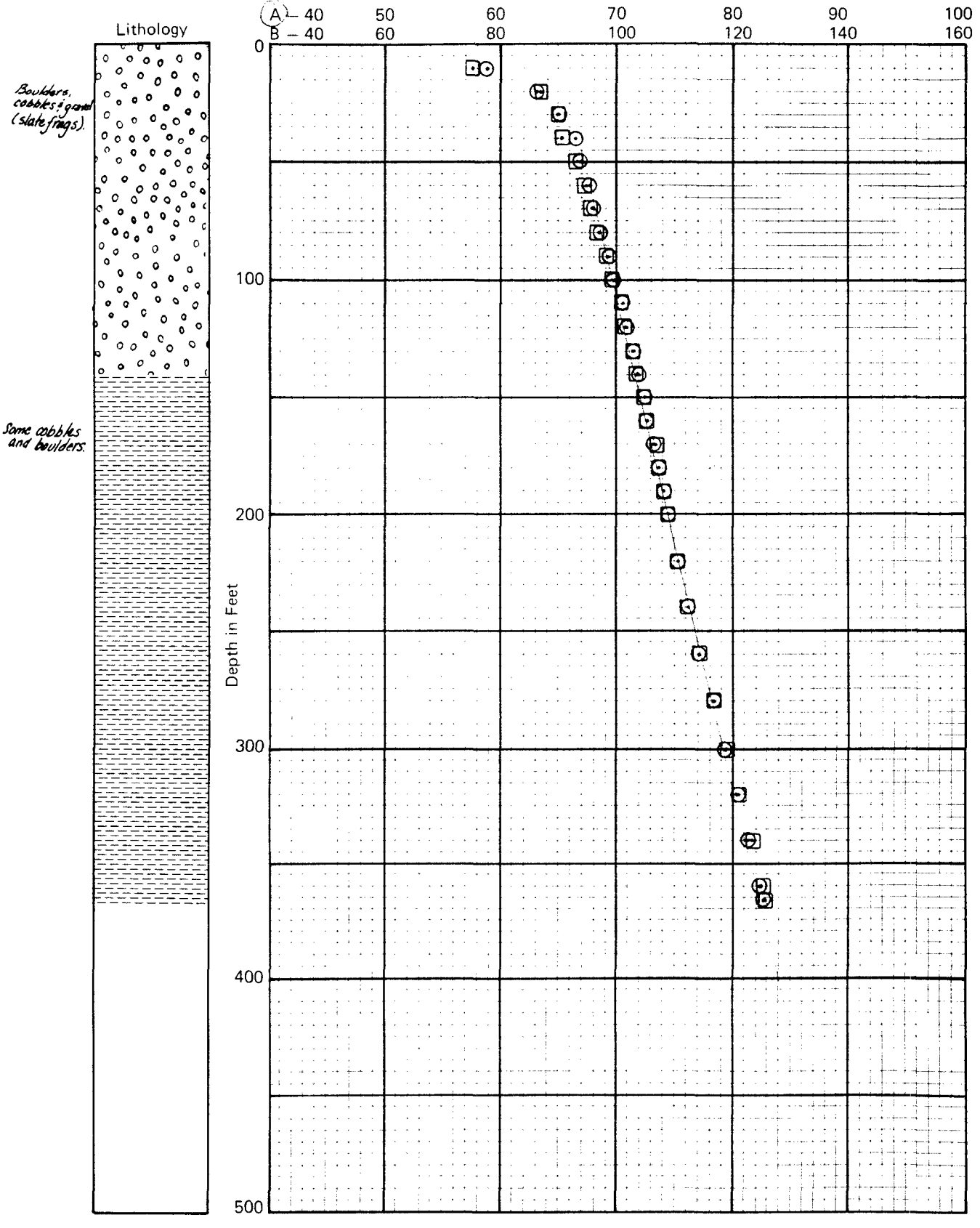
TIME START: 0920 TIME ON BOTTOM: 0955

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 44-78
Sec., ___ Twp., ___ Rge.: ___

Date Completed: 3-16-78
Date Logged: 3-20-78 ○ 3-23-78 □
Logged By: Jack Fleiner
Temp. Probe: Chevron 1000'

Temperature in °F
(Circle Scale Used)



Approved: ___

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 44-78
S.T.R. : 5.15 T29N R23E

DATE COMPLETED : 3-16-78
DATE LOGGED : 3-20-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START- BATT. V = 1152 END- BATT. V = 1133

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,595	58.9	220	2,405	75.3
20	3,255	63.1	240	2,351	76.2
30	3,095	65.1	260	2,295	77.1
40	2,983	66.5	280	2,240	78.3
50	2,951	66.9	300	2,188	79.3
60	2,906	67.5	320	2,134	80.4
70	2,865	68.0	340	2,090	81.3
80	2,831	68.5	360	2,047	82.2
90	2,780	69.3	~~380~~ 368	2,030	82.6
100	2,741	69.9	400		
~~110~~ 120	2,709 2,678	~~70.5~~ 71.0	420		
~~130~~ 140	2,642 2,615	~~71.5~~ 72.0	440		
~~150~~ 160	2,586 2,562	~~72.4~~ 72.8	460		
~~170~~ 180	2,536 2,507	~~73.2~~ 73.7	480		
~~190~~ 200	2,483 2,459	~~74.1~~ 74.5	500		

TIME START: 1150 TIME ON BOTTOM: 1305

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 44-78
S.T.R. : S.15 T29N R23E

DATE COMPLETED : 3-16-78
DATE LOGGED : 3-23-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT. √ = 1146 END - BATT. √ = 1117

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,735	57.6	220	2,400	75.4
20	3,235	63.4	240	2,345	76.3
30	3,105	65.0	260	2,288	77.3
40	3,085	65.2	280	2,233	78.4
50	2,961	66.8	300	2,181	79.5
60	2,917	67.3	320	2,128	80.6
70	2,873	67.9	340	2,082	81.5
80	2,836	68.4	360	2,041	82.3
90	2,785	69.2	~~380~~ 368	2,025	82.7
100	2,745	69.9	400		
110	2,710	70.4	420		
120	2,679	70.9			
130	2,644	71.5	440		
140	2,616	71.9			
150	2,588	72.4	460		
160	2,562	72.8			
170	2,533	73.3	480		
180	2,505	73.7			
190	2,481	74.1	500		
200	2,455	74.5			

10KΩ
1KΩ

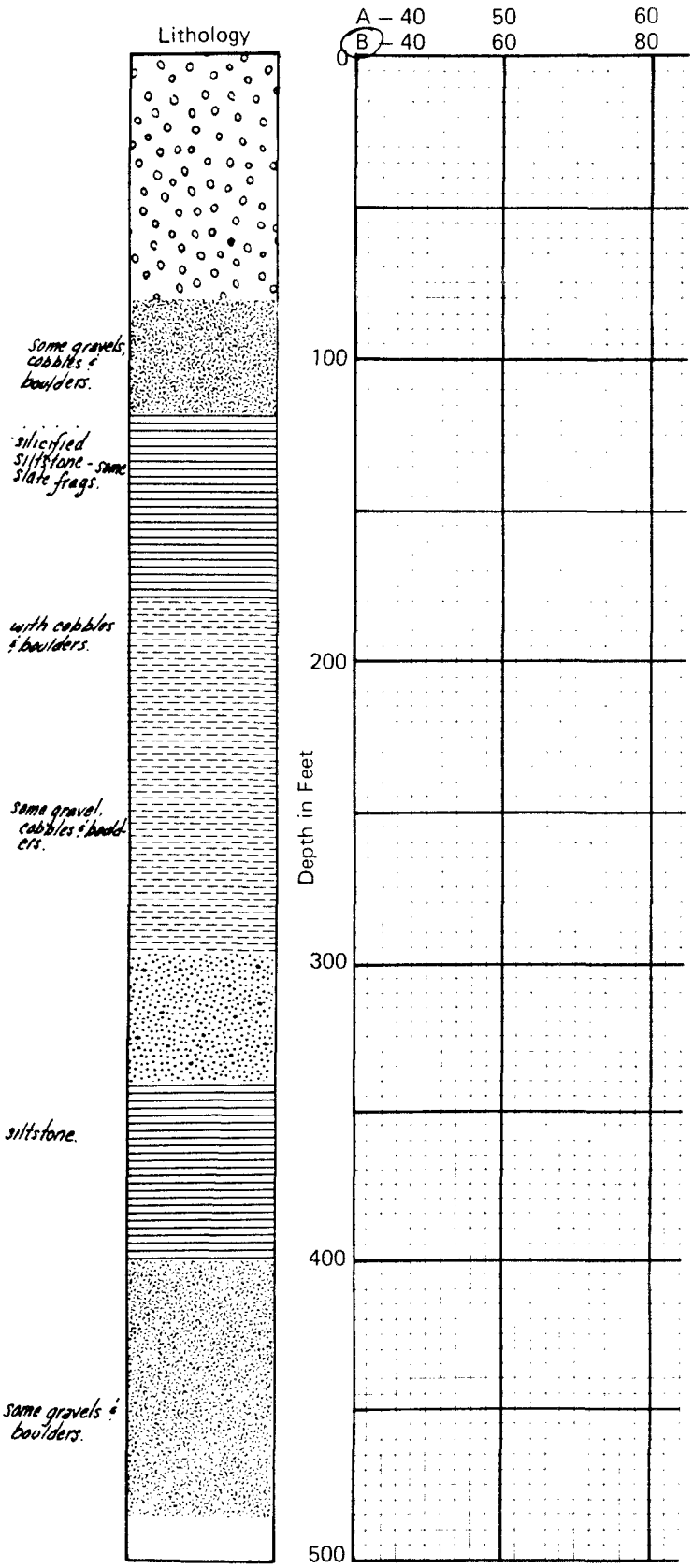
TIME START: 1105 TIME ON BOTTOM: 1215

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 45-78
Sec., ____ Twp., ____ Rge.: ____

Date Completed: 3/18/78
Date Logged: 3/21/78
Logged By: J. Fleiner
Temp. Probe: Chevron 1000'

Temperature in °F
(Circle Scale Used)



CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 45-78
S.T.R. : 5 16 T29N R23E

DATE COMPLETED : 3-18-78
DATE LOGGED : 4-15-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT V = 1171 END - BATT V = 1151

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1,840	86.6	220	535	147.3
20	1,160	107.7	240	589	141.9
30	800	125.9	260	651	136.6
40	602	140.7	280	701	132.6
50	466	155.2	300	710	131.9
60	316	179.3	320	704	132.4
70	298	183.1	340	722	130.9
80	276	188.5	360	725	130.7
90	257	193.4	380	694	133.2
100	251	195.1	400	642	137.3
110	266	191.0	420	591	141.7
120	293	184.2			
130	323	177.7	440	550	145.8
140	352	172.3			
150	379	167.5	460	518	148.9
160	401	164.1			
170	420	161.4	480	489	152.4
180	441	158.3			
190	464	155.5	482		
200	486	152.8	500	487	152.7

TIME START: 0940 TIME ON BOTTOM: 1055

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 45-78
S.T.R. : 5/6 T29N R23E

DATE COMPLETED : 3-18-78
DATE LOGGED : 3-21-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1139 END - BATT. V = 1114

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1735	89.3	220	546	146.2
20	1097	110.3	240	599	141.0
30	816	124.8	260	657	136.1
40	623	138.9	280	705	132.3
50	489	152.4	300	711	131.8
60	332	175.8	320	706	132.2
70	314	179.7	340	723	130.9
80	288	185.3	360	726	130.7
90	266	191.0	380	694	133.2
100	262	192.1	400	643	137.3
110	283	186.6	420	592	141.7
120	309	180.8			
130	337	175.0	440	552	145.6
140	368	169.4			
150	393	165.3	460	518	148.9
160	413	162.4			
170	433	159.5	480	489	152.4
180	454	156.7			
190	477	153.9	482	487	152.7
200	498	151.3	500		

TIME START: 14 20 TIME ON BOTTOM: 15 40

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 45-78
S.T.R. : 5/6 T29N R23E

DATE COMPLETED : 3-18-78
DATE LOGGED : 3-29-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER

START - BATT. V = 1130 END - BATT. V = 1116

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1722	89.7	220	542	146.6
20	1114	109.6	240	596	141.3
30	802	125.7	260	657	136.1
40	597	141.2	280	705	132.3
50	458	156.2	300	710	131.9
60	318	178.8	320	706	132.2
70	302	182.3	340	724	130.8
80	278	187.9	360	725	130.7
90	259	192.8	380	690	133.5
100	254	194.2	400	638	137.7
~~110~~ 120	273 / 300	189.2 / 182.7	420	589	141.9
~~130~~ ~~140~~	329 / 359	176.5 / 171.0	440	548	146.0
~~150~~ 160	385 / 406	166.5 / 163.4	460	515	149.3
~~170~~ 180	426 / 447	160.5 / 157.5	480	488	152.6
~~190~~ 200	470 / 492	154.7 / 152.1	~~482~~ ~~500~~	487	152.7

TIME START: 1335 TIME ON BOTTOM: 1450

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 4S-78
S.T.R. : S16 T29N R23E

DATE COMPLETED : 3-18-78
DATE LOGGED : 4-5-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START- BATT. ✓ = 1172 END- BATT. ✓ = 1154

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1940	84.4	220	534	147.4
20	1130	108.9	240	588	142.0
30	812	125.1	260	651	136.6
40	602	140.7	280	700	132.7
50	458	156.2	300	705	132.3
60	315	179.5	320	702	132.5
70	295	183.8	340	720	131.1
80	274	189.0	360	720	131.1
90	255	193.9	380	685	133.9
100	249	195.7	400	635	137.9
~~110~~ 120	266	191.0	420	584	142.4
~~130~~ 140	293	184.2	440	542	146.6
~~150~~ 160	322	178.0	460	512	149.7
~~170~~ 180	352	172.3	480	485	152.9
~~190~~ 200	378	167.6	~~482~~ ~~500~~	484	153.0
	400	164.3			
	419	161.5			
	440	158.4			
	463	155.6			
	485	152.9			

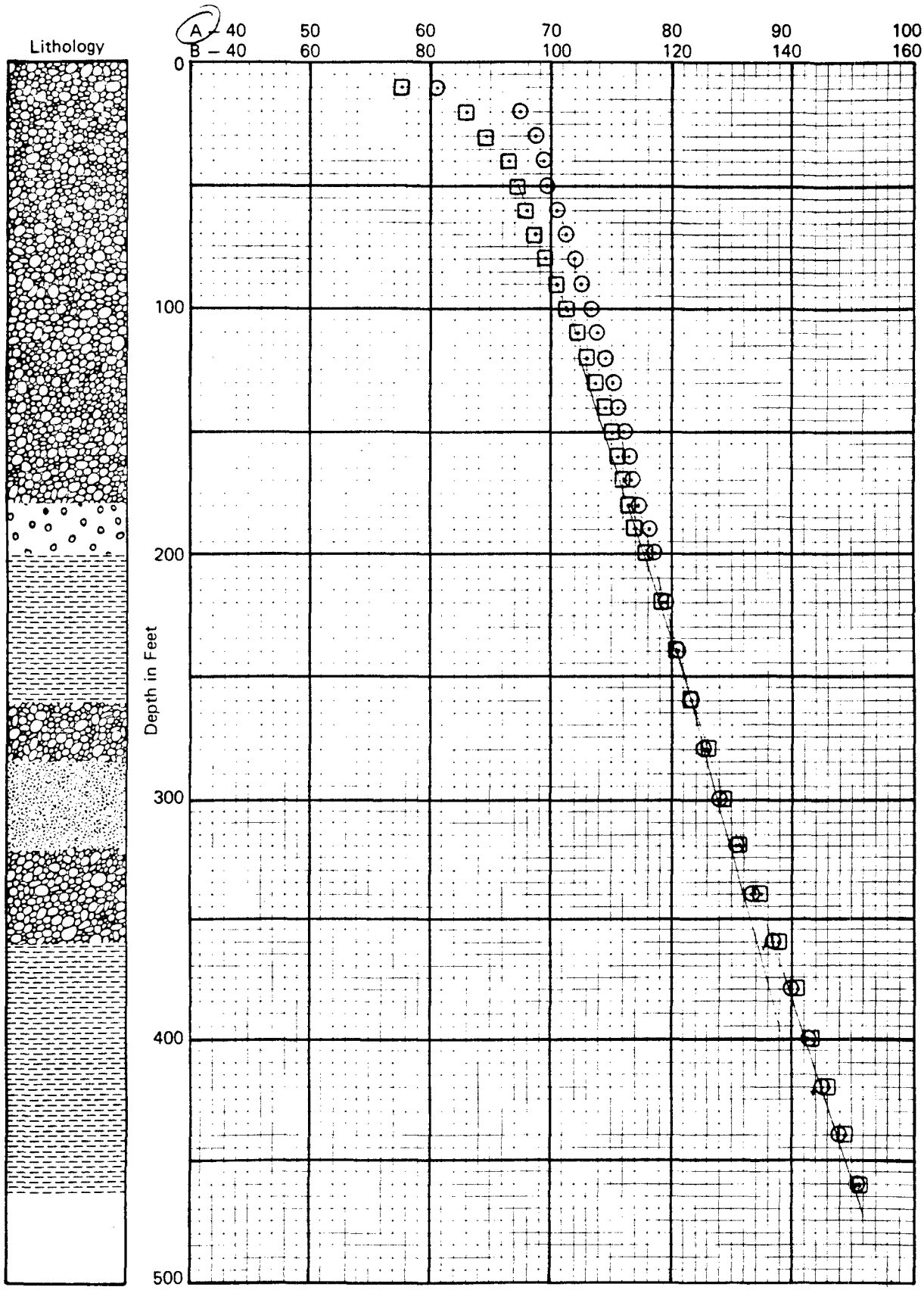
TIME START: 0940 TIME ON BOTTOM: 1055

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 46-78
Sec., 15 Twp., 29N Rge.: 23E

Date Completed: 3/20/78
Date Logged: 3/21/78 ○ 3/30/78 □
Logged By: J. Fleiner
Temp. Probe: Chevron 1000'

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 46-78
S.T.R. : S15 T29N R23E

DATE COMPLETED : 3-20-78
DATE LOGGED : 4-4-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START-BATT.V = 1218 END-BATT.V = 1179

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10K Ω 10	3,665	58.3	220	2,193	79.2
20	3,275	62.9	240	2,134	80.4
30	3,135	64.6	260	2,071	81.7
1K Ω 40	2,993	66.4	280	2,007	83.0
50	2,935	67.1	300	1,940	84.4
60	2,875	67.8	320	1,877	85.7
70	2,815	68.8	340	1,813	87.3
80	2,760	69.6	360	1,753	88.9
90	2,705	70.5	380	1,693	90.4
100	2,657	71.3	400	1,641	91.8
~~110~~ 120	2,603 / 2,552	72.2 / 73.0	420	1,592	93.1
~~130~~ ~~140~~	2,506 / 2,461	73.7 / 74.4	440	1,542	94.4
~~150~~ ~~160~~	2,419 / [redacted] 2,387	75.1 / 75.6	~~460~~	1,498	95.7
~~170~~ ~~180~~	2,356 / 2,324	76.1 / 76.6	~~480~~		
~~190~~ 200	2,299 / 2,254	77.0 / 78.0	500		

TIME START: 0940

TIME ON BOTTOM: 10 55

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 46-78
S.T.R. : S 15 T29N R23E

DATE COMPLETED : 3-20-78
DATE LOGGED : 3-21-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT. V = 1151 END - BATT V = 1123

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	[redacted] 3,455	60.6	220	2,173	79.6
20	2,899	67.5	240	2,124	80.6
30	2,821	68.7	260	2,071	81.7
40	2,790	69.2	280	2,021	82.8
50	2,754	69.7	300	1,957	84.1
60	2,714	70.4	320	1,896	85.3
70	2,661	71.2	340	1,836	86.7
80	2,615	72.0	360	1,770	88.4
90	2,575	72.6	380	1,715	89.9
100	2,536	73.2	400	1,664	91.2
110	2,495	73.9	420	1,611	92.6
120	2,452	74.6			
130	2,421	75.1	440	1,561	93.9
140	2,387	75.6			
150	2,356	76.1	460	1510	95.3
160	2,336	76.4			
170	2,312	76.8	480		
180	2,289	77.2			
190	2,249	78.1	500		
200	2,223	78.6			

TIME START: 11 15

TIME ON BOTTOM: 1220

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 46-78
S.T.R. : S15 T29N R23E

DATE COMPLETED : 3-20-78
DATE LOGGED : 3-30-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START-BATT.V= 1132 END-BATT.V = 1105

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,715	57.8	220	2,194	79.2
20	3,265	63.0	240	2,135	80.4
30	3,125	64.7	260	2,074	81.7
40	2,986	66.5	280	2,011	83.0
50	2,928	67.2	300	1,943	84.4
60	2,871	67.9	320	1,878	85.7
70	2,813	68.8	340	1,814	87.3
80	2,757	69.7	360	1,753	88.9
90	2,704	70.5	380	1,695	90.4
100	2,658	71.3	400	1,643	91.8
110	2,601	72.2	420	1,593	93.1
120	2,551	73.0			
130	2,505	73.7	440	1,545	94.3
140	2,458	74.5			
150	2,419	75.1	460	1,501	95.6
160	2,388	75.6			
170	2,355	76.1	480		
180	2,325	76.6			
190	2,300	77.0	500		
200	2,254	78.0			

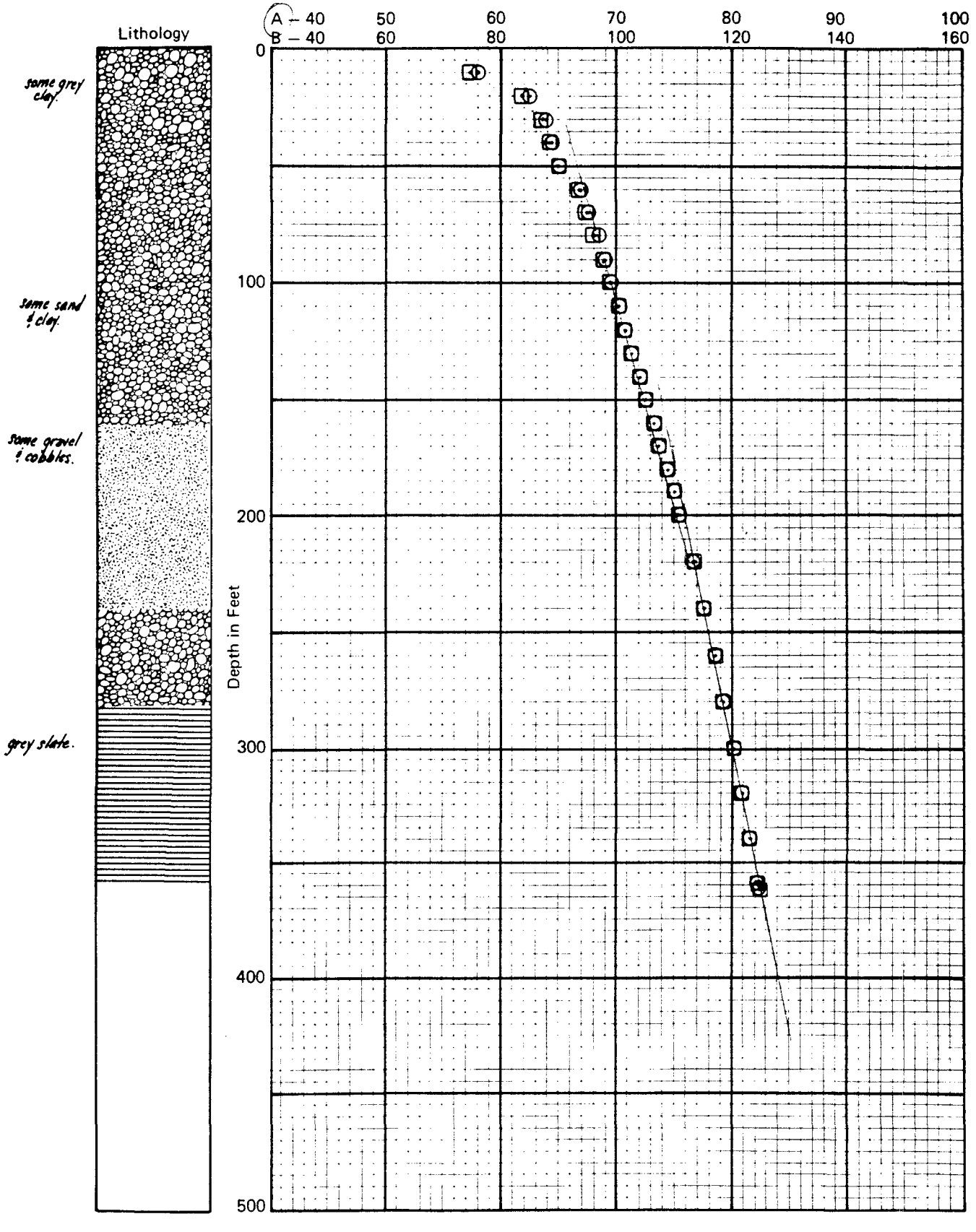
TIME START: 1105 TIME ON BOTTOM: 12 10

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 47-78
Sec., ____ Twp., ____ Rge.: ____

Date Completed: 3-22-78
Date Logged: 3-29-78 ○ 4-A-78 □
Logged By: Jack Fleiner
Temp. Probe: 1000'

Temperature in °F
(Circle Scale Used)



CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 47-78
S.T.R. : S 22 T 29N R 23E

DATE COMPLETED : 3-22-78
DATE LOGGED : 4-4-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT. V = 11.9+ END - BATT. V = 11.68

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 KΩ 10	3,755	57.4	220	2,313	76.8
20	3,355	61.9	240	2,266	77.7
30	3,205	63.7	260	2,230	78.5
40	3,165	64.2	280	2,187	79.3
50	3,105	65.0	300	2,148	80.1
1 KΩ 60	2,951	66.9	320	2,111	80.9
70	2,901	67.5	340	2,076	81.6
80	2,853	68.1	360	2,044	82.3
90	2,809	68.9	~~380~~ 362	2,038	82.4
100	2,769	69.5	400		
~~110~~ 120	2,728 2,687	70.2 70.8	420		
~~130~~ 140	2,650 2,610	71.4 72.0	440		
~~150~~ 160	3,571 2,534	72.7 73.3	460		
~~170~~ 180	2,498 2,445	73.8 74.7	480		
~~190~~ 200	2,415 2,399	75.2 75.4	500		

TIME START: 1245 TIME ON BOTTOM: 1400

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 47-78
S.T.R. : S 22 T29N R23E

DATE COMPLETED : 3-22-78
DATE LOGGED : 3-29-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER

START- BATT. V = 1138

END- BATT. V = 1114

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,695	58.0	220	2,317	76.7
20	3,305	62.5	240	2,270	77.6
30	3,195	63.9	260	2,228	78.5
40	3,155	64.4	280	2,193	79.2
50	3,095	65.1	300	2,152	80.1
60	2,944	67.0	320	2,114	80.9
70	2,895	67.6	340	2,079	81.6
80	2,845	68.3	360	2,047	82.2
90	2,799	69.0	362 380	2,042	82.3
100	2,762	69.6	400		
110	2,724	70.2	420		
120	2,684	70.9			
130	2,649	71.4	440		
140	2,609	72.1			
150	2,569	72.7	460		
160	2,531	73.3			
170	2,499	73.8	480		
180	2,448	74.6			
190	2,417	75.1	500		
200	2,390	75.6			

10KΩ

1KΩ

TIME START: 1150

TIME ON BOTTOM: 1300

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 48-78
S.T.R. : S 10 T29N R23E

DATE COMPLETED : 3-24-78
DATE LOGGED : 4-6-78
LOGGED BY : FLEINER
UNIT NO. : 1000'

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START- BATT. V=1171 END- BATT. V= 1152

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,867	56.3	220	2,459	74.5
20	3,415	61.1	240	2,397	75.5
30	3,205	63.7	260	2,335	76.5
40	3,165	64.2	280	2,274	77.6
50	3,135	64.6	300	2,220	78.7
60	3,095	65.1	320	2,169	79.7
70	2,965	66.7	340	2,120	80.7
80	2,929	67.2	~~360~~ 355'	2,082	81.5
90	2,896	67.6	380		
100	2,859	68.0	400		
~~110~~ 120	2,820 / 2,786	68.7 / 69.2	420		
~~130~~ 140	2,755 / 2,726	69.7 / 70.2	440		
~~150~~ 160	2,695 / 2,667	70.7 / 71.1	460		
~~170~~ 180	2,636 / 2,606	71.6 / 72.1	480		
~~190~~ 200	2,568 / 2,532	72.7 / 73.3	500		

10KΩ

1KΩ

TIME START: 15 15

TIME ON BOTTOM: 1425

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 48-78
Sec., 10 Twp., 29N Rge.: 23E

Date Completed: 3-24-78
Date Logged: 4-2-78 ○ 4-6-78 □
Logged By: Jack Fleiner
Temp. Probe: Chevron 10000'

Temperature in °F
(Circle Scale Used)

A – 40 50 60 70 80 90 100
B – 40 60 80 100 120 140 160

Lithology

w/ state frags.

gravel w/ sd. & cobbles

gravels w/ clay

same gravel

Depth in Feet

0
100
200
300
400
500

Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 48-78
S.T.R. : 5 10 T29N R23E

DATE COMPLETED : 3-24-78
DATE LOGGED : 4-2-78
LOGGED BY : FLEINER
UNIT NO. : 4000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER

START - BATT. V = 1204 END - BATT. V = 1178

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,815	56.8	220	2,463	74.4
20	3385	61.5	240	2,402	75.4
30	3195	63.9	260	2,339	76.4
40	3,165	64.2	280	2,273	77.6
50	3,135	64.6	300	2,222	78.6
60	3095	65.1	320	2,172	79.7
70	2,962	66.8	340	2,122	80.7
80	2,930	67.2	360	2,085	81.4
90	2,894	67.6	380		
100	2,857	68.1	400		
110	2,815	68.7	420		
120	2,784	69.3			
130	2,757	69.7	440		
140	2,727	70.2			
150	2,700	70.6	460		
160	2,668	71.1			
170	2,639	71.6	480		
180	2,618	71.9			
190	2,571	72.7	500		
200	2,536	73.2			

TIME START: 0950 TIME ON BOTTOM: 1025

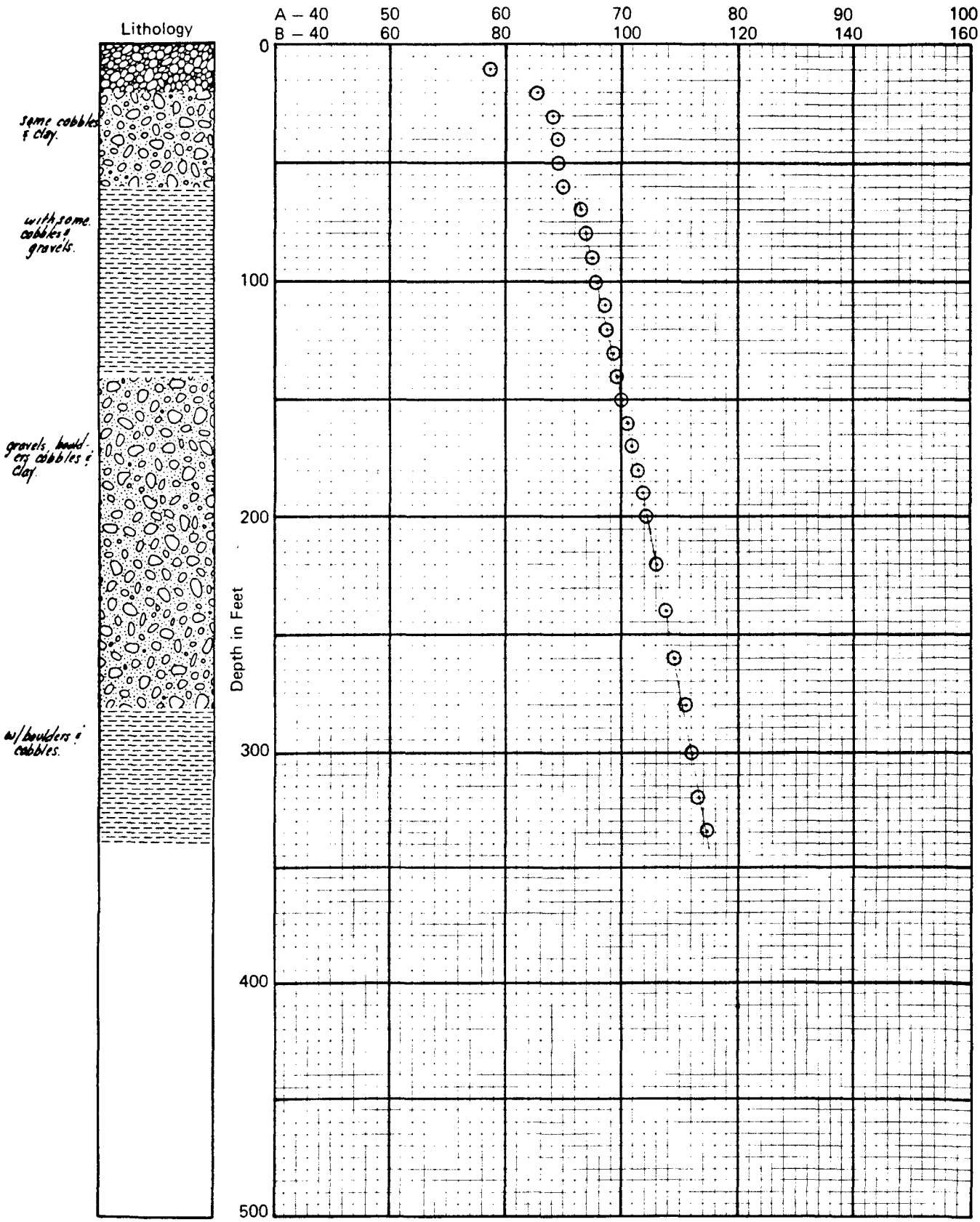
CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 49-78
Sec., 10 Twp., 30N Rge.: 23E

Date Completed: 3-30-78
Date Logged: 4-3-78
Logged By: Jack Fleiner
Temp. Probe:

first log

Temperature in °F
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 49-78
S.T.R. : S10 T29N R23E

DATE COMPLETED : 3-30-78
DATE LOGGED : 4-7[illegible]-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START- BATT. V = 1168 END- BATT. V = 1154

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,895	56.1	220	2,551	73.6
20	3,345	62.0	240	2,495	73.9
30	3,205	63.7	260	2,444	74.7
40	3,185	64.0	280	2,399	75.4
50	3,155	64.4	300	2,353	76.2
60	3,115	64.9	320	2,313	76.8
70	3,085	65.2	340	2,286	77.3
80	2,965	66.7	360		
90	2,929	67.2	380		
100	2,896	67.6	400		
110	2,856	68.1	420		
120	2,830	68.5			
130	2,805	68.9	440		
140	2,772	69.4			
150	2,745	69.9	460		
160	2,718	70.3			
170	2,689	70.8	480		
180	2,658	71.3			
190	2,633	71.7	500		
200	2,606	72.1			

TIME START: 1525 TIME ON BOTTOM: 1645

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 79-78
S.T.R. : S16 T29N R23E

DATE COMPLETED : 3[illegible]-30-78
DATE LOGGED : 4-3-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER.

START- BATT.V = 1200 END- BATT.V = 1176

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,625	58.6	220	2,546	73.1
20	3,285	62.7	240	2,495	73.9
30	3,175	64.1	260	2,443	74.7
40	3,155	64.4	280	2,397	75.5
50	3,125	64.7	300	2,355	76.1
60	3,095	65.1	320	2,315	76.8
70	2,974	66.6	~~340~~ 334	2,286	77.3
80	2,940	67.0	360		
90	2,904	67.5	380		
100	2,872	67.9	400		
~~110~~ 120	2,820 / 2,812	68.5 / 68.8	420		
~~130~~ 140	2,767 / 2,755	69.2 / 69.7	440		
~~150~~ 160	2,729 / 2,703	70.1 / 70.6	460		
~~170~~ 180	2,675 / 2,646	71.0 / 71.5	480		
~~190~~ 200	2,621 / 2,598	71.9 / 72.2	500		

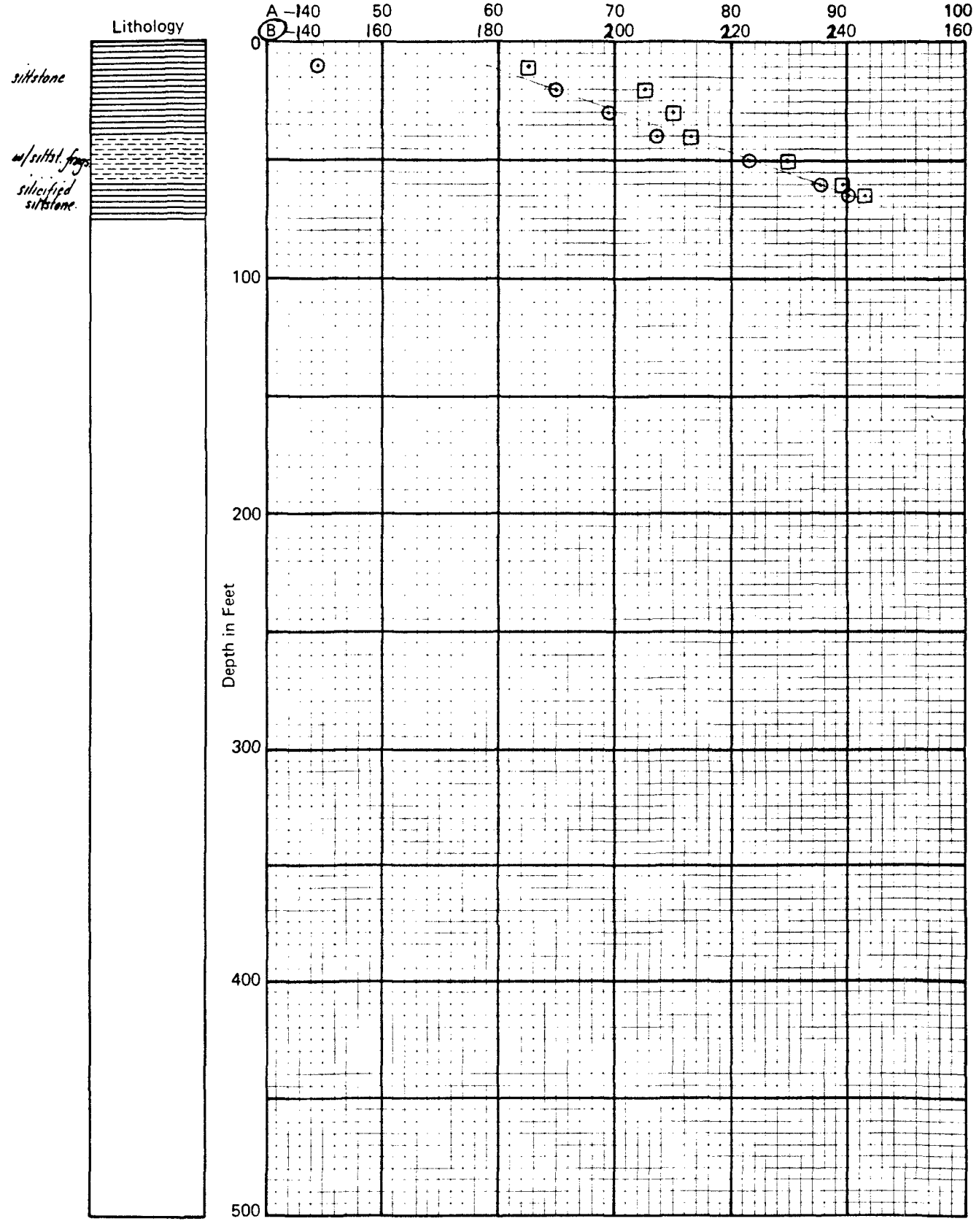
TIME START: 1035 TIME ON BOTTOM: 1150

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: Sam Emidio
State: Nevada
Hole No.: 50-78
Sec., 16 Twp., 29N Rge.: 23E

Date Completed: 3-31-78
Date Logged: 4-2-78 4/15
Logged By: Jack Fleiner
Temp. Probe: 1000' Chevron

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 50-78
S.T.R. : S 16 T 29 N R 23 E

DATE COMPLETED : 3-31-78
DATE LOGGED : 4-15-78
LOGGED BY : FLEINER
UNIT NO. : 4000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER

START - BATT. V = 1174 END - BATT. V = 1159

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	288	185.3	220		
20	219	205.4	240		
30	206	210.2	260		
40	198	213.4	280		
50	164	229.7	300		
60	148	239.4	320		
~~70~~ 67'	143	243.0	340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

1 KΩ

TIME START: 0820 TIME ON BOTTOM: 0845

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 50-78
S.T.R. : 5-16. T29N R23E

DATE COMPLETED : 3-31-78
DATE LOGGED : 4-7-78
LOGGED BY : FLEINER
UNIT NO. : 1,000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER

START - @ ATT. V = 1168 END - @ ATT. V = 1152

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	383	166.8	220		
20	229	201.9	240		
30	214	207.3	260		
40	196	214.3	280		
50	167	228.2	300		
60	149	238.8	320		
~~64~~ 70	143	243.0	340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

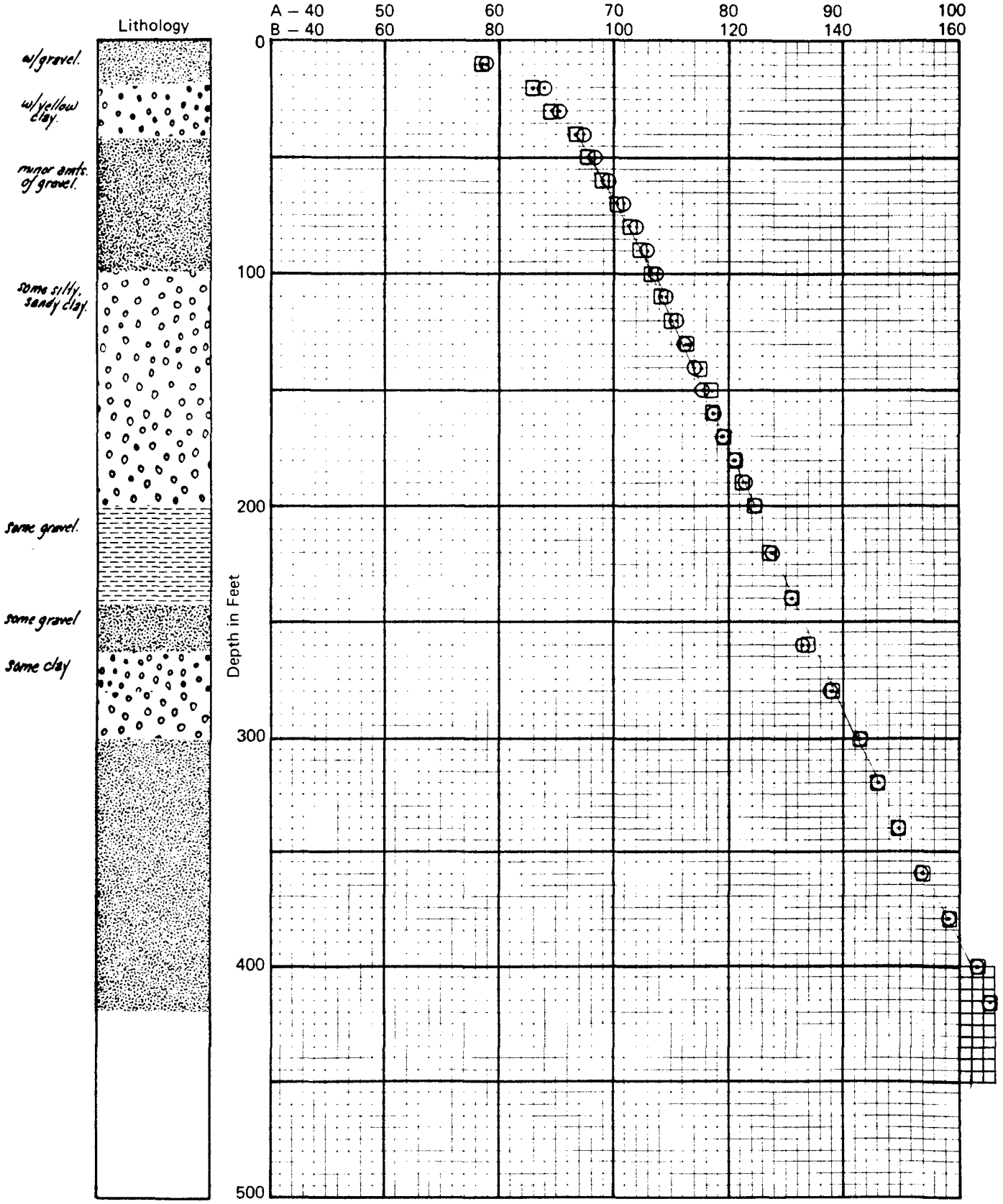
TIME START: 1010 TIME ON BOTTOM: 1040

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 51-78
Sec., 3 Twp., 29N Rge.: 23E

Date Completed: 4-2-78
Date Logged: 4-6-78 ○ 4-15-78 □
Logged By: Jack Steiner
Temp. Probe: 1000'

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 51-78
S.T.R. : 33 T29N R23E

DATE COMPLETED : 4-2-78
DATE LOGGED : 4-15-78
LOGGED BY : FLEINER
UNIT NO. : 1000'

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START- BATT. V = 1158 END- BATT. V = 1140

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,625	58.6	220	1,969	83.8
20	3,275	62.9	240	1,889	85.5
30	3,135	64.6	260	1,828	86.9
40	2,968	66.7	280	1,746	89.1
50	2,886	67.7	300	1,665	91.2
60	2,798	69.0	320	1,592	93.1
70	2,718	70.3	340	1,524	94.9
80	2,648	71.4	360	1,460	97.0
90	2,585	72.4	380	1,394	99.2
100	2,530	73.3	400	1,328	101.3
~~110~~ 120	2,475 / 2,424	74.2 / 75.0	~~416~~ ~~420~~	1,288	102.7
~~130~~ ~~140~~	2,325 / 2,278	76.6 / 77.5	440		
~~150~~ ~~160~~	2,230 / 2,222	78.5 / 78.6	460		
~~170~~ 180	2,182 / 2,136	79.4 / 80.4	480		
~~190~~ 200	2,091 / 2,048	81.3 / 82.2	500		

10Kα

1Kα

TIME START: 1700

TIME ON BOTTOM: 1805

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 51-78
S.T.R. : 53 T29N R23E

DATE COMPLETED : 4-2-78
DATE LOGGED : 4-6-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START- BATT. V = 1187 END- BATT V = 1161

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,595	58.9	220	1,964	83.9
20	3,195	63.9	240	1,884	85.6
30	3,085	65.2	260	1,845	86.5
40	2,919	67.3	280	1,750	89.0
50	2,843	68.3	300	1,661	91.3
60	2,757	69.7	320	1,591	93.1
70	2,676	71.0	340	1,522	94.9
80	2,611	72.0	360	1,461	96.9
90	2,552	73.0	380	1,390	99.3
100	2,502	73.8	400	1,323	101.5
110	2,450	74.6	420	1,290	102.6
120	2,401	75.4			
130	2,351	76.2	440		
140	2,304	77.0			
150	2,262	77.8	460		
160	2,214	78.8			
170	2,172	79.7	480		
180	2,128	80.6			
190	3,082	81.5	500		
200	2,043	82.3			

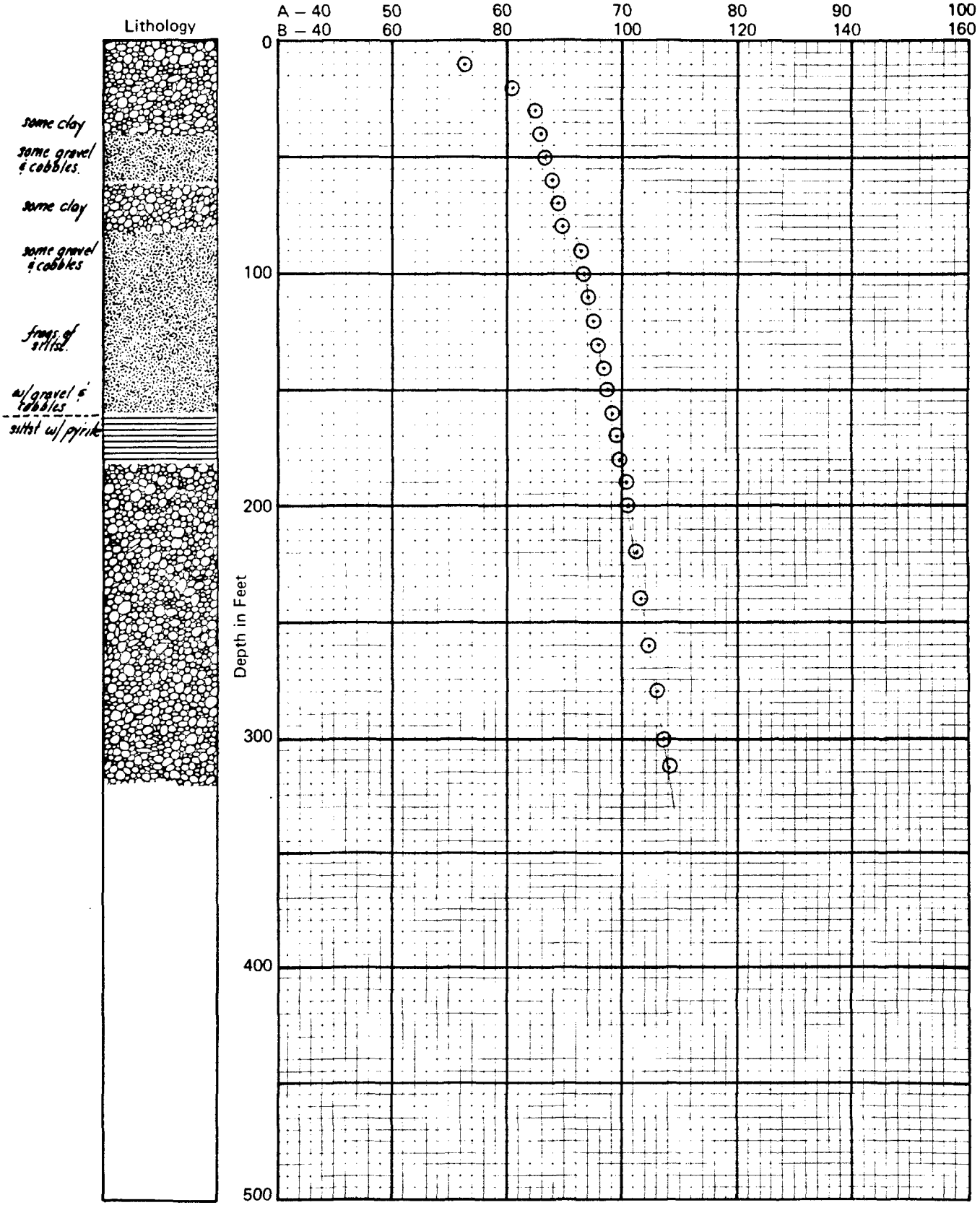
TIME START: 1115 TIME ON BOTTOM: 1230

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 52-78
Sec., 3 Twp., 29N Rge.: 23E

Date Completed: 4-4
Date Logged: 4-15-78
Logged By: J. Fleiner
Temp. Probe: 2nd log.

Temperature in °F
(Circle Scale Used)



Approved: _____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 52-78
S.T.R. : 5 3 T29N R23E

DATE COMPLETED : 4-4-78
DATE LOGGED : 4-7-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT. V = 1176 END - BATT. V = 1155

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,615	58.7	220	2,609	72.1
20	3,285	62.7	240	2,590	72.4
30	3,165	64.2	260	2,557	72.9
40	3,145	64.5	280	2,518	73.5
50	3,105	65.0	300	2,488	74.0
60	2,979	66.5	~~320~~ 313	2,473	74.2
70	2,937	67.1	340		
80	2,916	67.3	360		
90	2,899	67.5	380		
100	2,867	67.9	400		
~~110~~ 120	2,830 / 2,810	68.5 / 68.8	420		
~~130~~ 140	2,791 / 2,771	69.1 / 69.5	440		
~~150~~ 160	2,744 / 2,723	69.9 / 70.2	460		
~~170~~ 180	2,702 / 2,681	70.6 / 70.9	480		
~~190~~ 200	2,670 / 2,654	71.1 / 71.3	500		

10KΩ

1KΩ

TIME START: 1305 TIME ON BOTTOM: 1415

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV.
HOLE NO. : 52-78
S.T.R. : 33 T 29N R23E

DATE COMPLETED : 4-4-78
DATE LOGGED : 4-5-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER

START - BATT. V = 1165 END - BATT. V = 1144

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ)	3,885	56.2	220	2,656	71.3
20	3,475	60.4	240	2,623	71.8
30	3,315	62.4	260	2,586	72.4
40	3,275	62.9	280	2,543	73.1
50	3,245	63.2	300	2,508	73.7
60	3,195	63.9	~~320~~ 313	2,484	74.1
70	3,155	64.4	340		
80	3,115	64.9	360		
90 (1KΩ)	2,994	66.4	380		
100	2,965	66.7	400		
~~110~~ 120	~~2,934~~ 2,897	67.1 / 67.6	420		
~~130~~ 140	~~2,871~~ 2,842	67.9 / 68.3	440		
~~150~~ 160	~~2,812~~ 2,791	68.8 / 69.1	460		
~~170~~ 180	~~2,767~~ 2,741	69.5 / 69.9	480		
~~190~~ 200	~~2,721~~ 2,702	70.3 / 70.6	500		

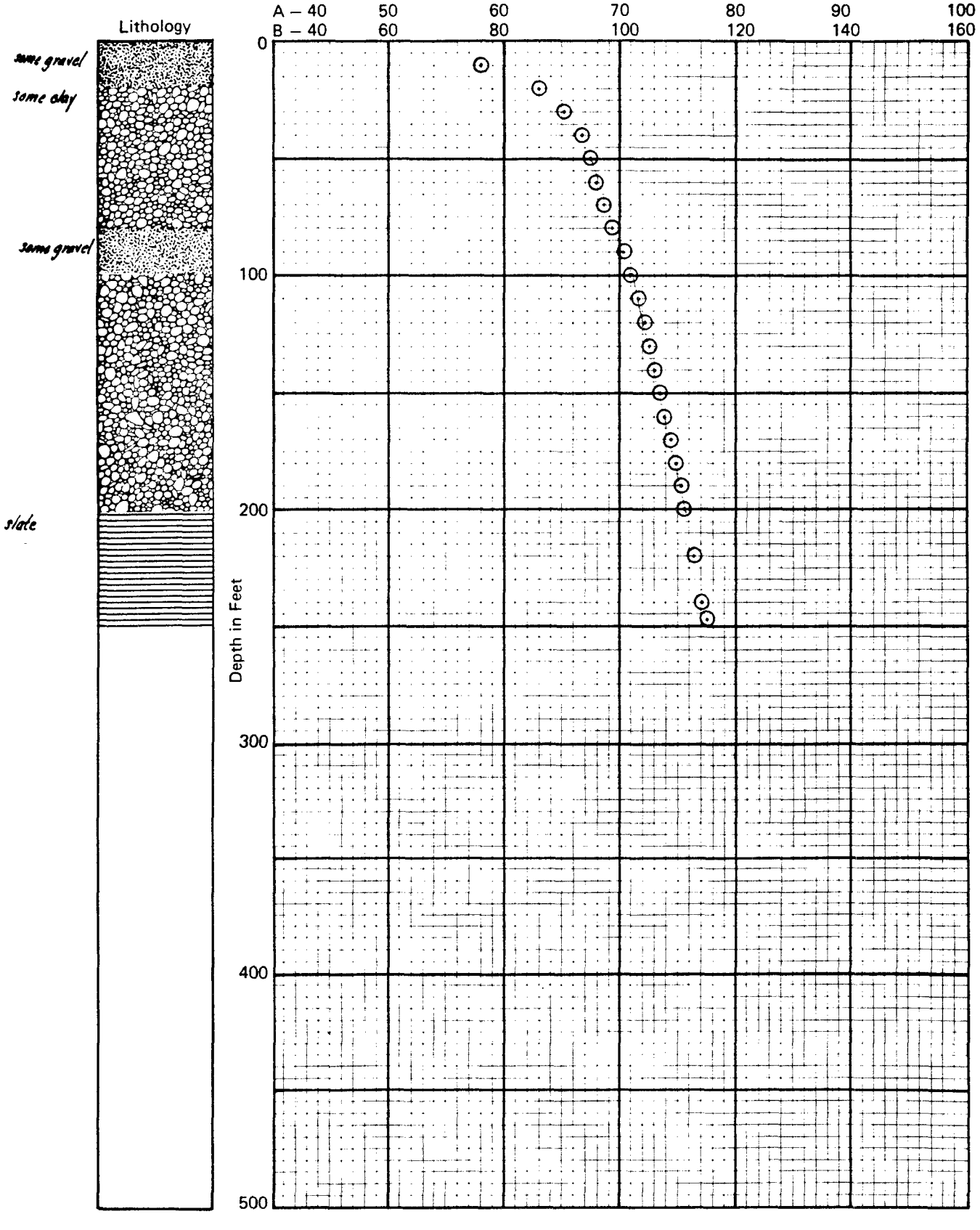
TIME START: 1505 TIME ON BOTTOM: 1620

CHEVRON RESOURCES CO.
GEOTHERMAL DIVISION

Prospect: San Emidio
State: Nevada
Hole No.: 53-78
Sec., ____ Twp., ____ Rge.: ____

Date Completed: 4-6-78
Date Logged: 4-15-78
Logged By: Jack Fleiner
Temp. Probe: ____

Temperature in °F
(Circle Scale Used)



Approved: ____

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 53-78
S.T.R. : 5/5 T29N R23E

DATE COMPLETED : 4-6-78
DATE LOGGED : 4-16-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT V = 11.62 END - BATT V = 11.37

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ)	3699	57.9	220	2,336	76.4
20	3,268	63.0	240	2,295	77.1
30	3,086	65.2	~~260~~ 247	2,279	77.5
40 (1KΩ)	2,959	66.8	280		
50	2,919	67.3	300		
60	2,870	67.9	320		
70	2,823	68.6	340		
80	2,784	69.3	360		
90	2,720	70.3	380		
100	2,676	71.0	400		
~~110~~ 120	2,627 / 2,602	71.8 / 72.2	420		
~~130~~ 140	2,578 / 2,549	72.6 / 73.0	440		
~~150~~ 160	2,521 / 2,492	73.5 / 73.9	460		
~~170~~ 180	2,467 / 2,437	74.3 / 74.8	480		
~~190~~ 200	2,404 / 2,392	75.3 / 75.5	500		

TIME START: 0805 TIME ON BOTTOM: 0910

CHEVRON RESOURCES COMPANY
GEOTHERMAL DIVISION
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO
STATE : NEV
HOLE NO. : 53 [redacted] - 78
S.T.R. : 5 15 T29N R23E

DATE COMPLETED : 4-6-78
DATE LOGGED : 4-15-78
LOGGED BY : FLEINER
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER

START - BATT. V = 1168 END - BATT V = 1149

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10 (10KΩ)	3,695	58.0	220	2,338	76.4
20	3,265	63.0	240	2,294	77.1
30	3,085	65.2	~~260~~ 247	2,279	77.5
40 (1KΩ)	2,956	66.8	280		
50	2,914	67.4	300		
60	2,868	67.9	320		
70	2,823	68.6	340		
80	2,782	69.3	360		
90	2,722	70.2	380		
100	2,675	71.0	400		
~~110~~ 120	~~2,629~~ 2,601	~~71.7~~ 72.2	420		
~~130~~ 140	~~2,574~~ 2,547	~~72.6~~ 73.1	440		
~~150~~ 160	~~2,521~~ 2,494	~~73.5~~ 73.9	460		
~~170~~ 180	~~2,466~~ 2,435	~~74.4~~ 74.9	480		
~~190~~ 200	~~2,405~~ 2,389	~~75.3~~ 75.6	500		

TIME START: 11 45 TIME ON BOTTOM: 13 10

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 20
TOWNSHIP 30N
RANGE 23E
WELL No. 21-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1512	15'-20'	#1 - 80% ang to sub-ang, fine-coarse sands with many mica flakes; 20% ang to sub-ang small-large gravels.	MT = 63°F
1518	35'-40'	#2 - same as #1	MT = 64°F
1525	55'-60'	#3 - same as #1	MT = 64°
1527	75'-80'	#4 - same as #1	MT = 64°F
1531	95'-100'	#5 - same as #1	MT = 64°F
1535	115'-120'	#6 - same as #1	MT = 64°F
1537	135'-140'	#7 - 90% ang to sub-ang, fine-coarse sands; 10% ang to sub-ang small gravels.	MT = 64°F
1541	155'160'	#8 - same as #7 and some frags of partially decomposed wood	MT = 64°F
1545	175'-180'	#9 - same as #7	MT = 64°F
1548	195'-200'	#10 - same as #7	MT = 64°F
1553	215'-220'	#11 - same as #7	MT = 64°F
1559	235'-240'	#12 - same as #7	MT = 64°F
1602	225'-260'	#13 - same as #7	MT = 64°F
1606	275'-280'	#14 - same as #7	MT = 64°F
1610	295'-300'	#15 - same as #7	MT = 64°F
0822	315'-320'	#16 - same as #7	MT = 60°F

LITHOLOGIC WELL LOG

PROSPECT SAN EMIDIO

COUNTY WASHOE STATE NEV

CHEVRON RESOURCES COMPANY

DATE

SECTION 20

TOWNSHIP 30N

WELL No. 21-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0835	335'-340'	#17 - 90% ang to sub-ang, fine-course sands, with many mica flakes, 10% gravels.	MT = 56°F
0840	355'-360'	#18 - same as #17	MT = 56°F
0847	375'-380'	#19 - same as #17	MT = 54°F
0852	395'-400'	#20 - ang to sub-ang, fine-coarse sands, with many mica flakes.	MT = 54°F
0856	415'-420'	#21 - same as #20	MT = 54°F
0900	435'-440'	#22 - same as #20	MT = 54°F
0905	455'-460'	#23 - same as #20	MT = 54°F
0912	475'-480'	#24 - same as #20	MT = 56°F
0917	495'-500'	#25 - same as #20	MT = 54°F

LITHOLOGIC WELL LOG

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

CHEVRON RESOURCES COMPANY

DATE

SECTION 20
TOWNSHIP 30N
RANGE 23E

WELL No. 22-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1330	235-240'	#12 - 90% soft, sandy and silty, grey-brown clay; 10% gravels.	MT = 70°F
1337	255-260'	#13 - same as #12	MT = 70°F
1343	275'-280'	#14 - same as #12	MT = 70°F
1355	295'-300'	#15 - 70% ang to sub-ang fine-coarse sands, 20% soft, gray clay 10% gravels	MT = 70°F Partial loss of circulation.
1359	315'-320'	#16 - same as #15	MT - 70°
1406	335'-340'	#17 - sub-ang fine-coarse sands, containing many mica flakes.	MT = 70°F
1553	355'-360'	#18 - same as #17	MT = 70°F
1558	375'380'	#19 - same as #17	MT = 70°F Partial loss of circulation.
1603	395'-400'	#20 same as #17	MT = 88°F (Fresh load H_2O from hot springs)
1607	415'-420'	#21 - same as #17	MT = 80°F
1612	435'-440'	#22 - same as #17	MT = 80°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT SAN EMIDIO
COUNTY WASHOE STATE NEV.
DATE
SECTION 20
TOWNSHIP 30N
RANGE 23E
WELL No. 22-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1243	15'-20'	#1 - 80% ang to sub-ang med.-coarse sands; 20% ang. to sub-ang, small-large gravels.	MT = 60°F
1247	35'-40'	#2 - 70% ang to sub-ang, fine-coarse sands, with many carbonate particles, 30% ang to sub-ang, small-large gravels + frags of sandstone, with carbonate cement.	MT = 66°F
1252	55'-60'	#3 - same as #2.	MT = 68°F
1258	75'-80'	#4 - same as #2.	MT = 70°F
1300	95'-100'	#5 - same as #2.	MT = 70°F
1304	115'-120'	#6 - 50% ang to sub-ang, fine-coarse sands; 30% brown, silty & sandy clay; 20% ang to sub-ang. small-med. gravels	MT = 70°F
1307	135'-140'	#7 -70% soft, sandy & silty, grey, red-orange & yellow clays; 20% sands; 10% gravels.	MT = 70°F
1310	155'-160'	#8 - 90% soft, silty & sandy blue-grey clay; 10% ang to subang, small-med gravels.	MT - 70°F
1316	175'-180'	#9 - same as #8.	MT = 70°F
1320	195'-200'	#10 - same as #8	MT = 70°F
1325	215'-220'	#11 - same as #8	MT = 70°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 29
TOWNSHIP 30N
WELL No. 26-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0955	15'-20'	#1 - Soft, yellow-green clay	MT = 80°MT
1000	35'-40'	#2 - Soft yellow, green, sandy and silty clay.	MT = 80°F
1005	55'-60'	#3 - same as #2.	MT = 80°F
1007	75'-80'	#4 - same as #2.	MT = 80°F
1010	95'-100'	#5 - same as #2	MT = 82°F
1015	115'-120'	#6 - Soft, green-brown, sandy and silty clay.	MT = 80°F
1017	135'-140'	#7 - Ang frags of grey and grey-green claystone.	MT = 80°F
1020	155'-160'	#8 - 90% soft, yellow, brown and blue-grey sandy and silty clays. 10% ang frags grey claystone and minor avg. gravels.	MT = 80%
1033	175'-180'	#9 - same as #8.	Mt = 80°F
1037	195'-200'	#10 - 90%, soft, yellow-brown clay; 10% ang - sub-ang, coarse sand and small gravel.	MT = 80°F
1039	215'-220'	#11 - 90% grey-green, sandy and silty clay; 10% frags grey siltstone and minor gravels.	MT = 80°F
1041	235'-240'	#12 - soft, green-grey, brown and red-brown silty, carbonaceous clays.	MT = 80°

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE - SECTION 29

TOWNSHIP 30N

WELL No. 26-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1044	255'-260'	#13 - Soft, grey and grey-green sandy and silty clays.	MT = 80°
1047	275'-280'	#14 - 80% soft, yellow-green and blue-grey sandy and silty clays; 20% grey frags of siltstone.	MT = 78°F
1055	295'-300'	#15 - ang frags of grey-green siltstone.	MT = 80°F
1100	315'-320'	#16 - Same as #15	MT = 81°F
1107	335'340'	#17 - Same as #15	MT = 82°F
1117	335'-360'	#18 - Same as #15	MT = 80°F
1131	375'-380'	#19 - Hard, grey, calcareous clay	MT = 76°F
1142	395'-400'	#20 - Same as #19	MT = 84°F
1149	415'-420'	#21 - Same as # 19	MT = 80°F
1202	435'-440'	#22 - Same as #19	MT = 76°F
1208	455'-460'	#23 - Same as #19	MT = 78°F
1212	475'-480'	#24 - Same as #19	MT = 78°F
1410	495'-500'	#25 - Same as #19	MT = 78°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 27
TOWNSHIP 29 ~~24~~N
WELL No. 27-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1352	15'-20'	#1 - 90% ang to sub ang, small-large gravels and cobbles and boulders 10% sand.	MT = 60°F
1415	35'-40'	#2 - same as #1.	MT = 60°F
1503	55'-60'	#3 - soft, brown, silty and sandy clay	MT = 60°F
1512	75'-80'	#4 - same as #1	MT = 60°F
1520	95'-100'	#5 - 40% ang to sub-ang, small-large gravels and cobbles and boulders; 30% ang to sub-ang sands; 30% soft, brown clay.	MT = 60°F
1528	115'-120'	#6 - same as #5	MT = 60°F
1532	135'-140'	#7 - same as #5	MT = 60°F
1539	155'-160'	#8 same as #5	MT - 60°F
1547	175'-180'	#9 - same as #5	MT = 60°F
1552	195'-200'	#10 - soft, silty, brown clay and minor gravels.	MT = 60°F
1600	215'-220	#11 - same as #10	MT = 60°F
1606	235'-240'	#12 - same as #10	MT = 60°F
1015	255'-260'	#13 - 70% ang to sub-ang, small-large gravels and cobbles, 20% ang to sub-ang sands, 10% soft, brown clay.	MT = 41°F
1025	275'-280'	#14 - same as #13	MT = 41°F
1031	295'-300'	#15 - 70% ang to sub-ang, med-coarse sands; 30% soft, brown, silty and sandy clay.	MT = 41°F
1036	315'-320'	#16 - 60% ang to sub-ang fine-coarse sands; 30% ang to sub-ang; small-large gravels; 10% soft, brown clay.	MT = 41°F
1050	335'-340'	#17 - same as #16	MT = 43°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 32
TOWNSHIP 29N
RANGE 23E
WELL No. 36-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0913	15-20	#1 - 75% sub-ang small-large gravels; 25% soft, brown, sandy and silty clay.	MT = 68°F
0920	35-40	#2 - 50% sub-ang small-large gravels; 50% sub-ang coarse sand.	MT = 68°F
0928	55-60	#3 - same as #2	MT = 66°F
0939	75-80	#4 - same as #2 plus some cobbles	MT = 66°F
0947	95-100	#5 - same as #4	MT - 64°F Partial loss of circulation
0952	115-120	#6 - 75% ang to sub-ang gravels; 25% soft, brown sandy and silty clay.	MT = 64°F
0957	135-140	#7 - same as #6	MT = 64°F
1002	155-160	#8 - same as # 6	MT = 64°F
1007	175-180	#9 - 90% ang to sub-ang small-med gravels; 10% soft, brown clay.	MT = 64°F
1013	195-200	#10 - 90% ang to sub-ang, small-large gravels 10% soft, brown clay.	MT = 64°F
1019	215-220	#11 - 70% ang to sub-ang, small-med gravels; 20% sub-ang, coarse sand; 10% soft, brown clay.	MT = 66°F
1023	235-240	#12 - same as #11	MT = 66°F
1036	255-260	#13 - same as #11	MT = 60°F
1042	275-280	#14 - 80% ang to sub-ang, small-large gravels; 20% ang to sub-ang coarse sand.	MT = 66°F
1046	295-300	#15 - 60% ang to sub-ang, small-large gravels, 30% ang to sub-ang coarse sand; 10% soft, brown clay.	MT = 68°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
WELL No. 36-78
SECTION 32
TOWNSHIP 29N
RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1051	315-320	#16 - 40% ang to sub-ang, small gravel; 30% soft, red-brown, sandy and silty clay; 30% ang to sub-ang, coarse sand.	MT = 68°F
1104	335-340	#17 - 70% ang to sub-ang, small-large gravels; 20% ang to sub-ang coarse sand; 10% soft, brown clay.	MT = 68°F
1111	355-360	#18 - same as #17	MT = 68°F
1120	375-380	#19 - 60% ang to sub-ang, small-large gravels and some cobles; 30% ang to sub-ang coarse sand, 10% soft, brown clay.	MT = 68°F
1133	395-400	#20 - same as #19	MT = 69
1140	415-420	#21 - 80% ang to sub-ang, small-large gravels and some cobbles; 20% ang to sub-ang coarse sand.	MT = 70°F
1151	435-440	#22 - 60% ang to sub-ang, small-large gravels; 30% ang to sub-ang coarse sand; 10% soft, brown clay.	MT = 70°F
1201	455-460	#23 - 70% ang to sub-ang, small-large gravels and some cobbles; 30% ang to sub-ang coarse sand.	MT = 70°F
1210	475-480	#24 - same as #23	MT = 70°F
1223	495-500	#25 - same as #23	MT = 70°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 32
TOWNSHIP 29N
WELL No. 37-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1527	15-20	#1 - ang to sub ang, small-large gravels and cobbles.	MT = 60°F
1539	35-40	#2 - same as #1	MT = 60°F
1545	55-60	#3 - 50% soft, silty, tan clay; 50% ang to sub-ang, small-large gravels.	MT = 60°F
1552	75-80	#4 - same as #3	MT = 60°F
1558	95-100	#5 - 40% soft, silty, brown clay; 40% ang to sub-ang, small-large gravels and cobbles; 20% ang to sub-ang, coarse sand.	MT = 60°F
507	115-120	#6 - same as #5	MT = 60°F
0824	135-140	#7 - same as #5	MT = 62°F
0901	155-160	#8 - 50% soft, silty, brown clay, 30% ang to sub-ang, coarse sand; 20% ang to sub-ang, small-med gravels.	MT = 62°F
0906	175-180	#9 - soft, brown, sandy, and silty clay and minor gravels.	MT = 62°F
0912	195-200	#10 - 60% soft, brown, silty and sandy clay; 20% ang to sub-ang, small-large gravels; 20% ang to sub-ang coarse sand.	MT = 62°F
0919	215-220	#11 - same as #10	MT = 62°F
0925	235-240	#12 - same as #10	MT = 62°F
0931	255-260	#13 - same as #10	MT = 62°F
0937	275-280	#14 - same as #10	MT = 62°F
0943	295-300	#15 - same as #10	MT = 62°F
951	315-320	#16 - 40% soft, brown, sandy and silty clay; 40% ang to sub-ang, coarse sand; 20% ang to sub-round, small-med gravels.	MT = 62°F

LITHOLOGIC WELL LOG

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

CHEVRON RESOURCES COMPANY

DATE

SECTION 32

TOWNSHIP 29N

RANGE 23E

WELL No.

TIME	DEPTH	LITHOLOGY	COMMENTS
0957	335-340	#17 - same as #16	MT = 64°F
1006	355-360	#18 - same as #16	MT = 64°F
1018	375-380	#19 - same as #16	MT = 66°F
1026	395-400	#20 - same as #16	MT = 68°F
1034	415-420	#21 - 80% ang, small-large gravels; 20% ang to sub-ang, coarse sand.	MT = 66°F
1043	435-440	#22 - 60% ang to sub-ang, small-large gravels; 20% soft, brown, silty clay; 20% ang to sub-ang, coarse sand.	MT = 68°F
1052	455-460	#23 - 70% ang to sub-ang, small-large gravels and cobbles; 30% ang to sub-ang, coarse sand.	MT = 70°F
1102	475-480	#24 - 50% ang to sub-ang small-large gravels; 30% ang to sub-ang coarse sand; 20% soft, brown clay.	MT = 70°F
1111	495-500	#25 - soft, grey-brown, silty clay and minor gravels.	MT = 71°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 33
TOWNSHIP 29N
WELL No. 38-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0951	15-20	#1 - 80% frags of tan claystone and siltstone; 10% ang to sub-ang small gravel; 10% ang to sub-ang coarse sand.	MT = 71°F
1115	35-40	#2 - 40% ang to sub-ang, large-small gravels; 40% ang to sub-ang, coarse sand; 20% frags of tan claystone.	MT = 66°F
1129	55-60	#3 - 80% soft, tan, silty clay; 10% ang, coarse sand; 10% ang, small gravel.	MT = 69°F
1135	75-80	#4 - 60% ang, small-med gravels; 20% ang, coarse sand; 20% soft, tan, silty clay.	MT = 64°F
1144	95-100	#5 - 60% ang, small-med. gravels; 40% ang, coarse sand.	MT = 62°F
1154	115 - 120	#6 - ang to sub-ang gravels & sands.	MT = 63°F
1202	135-140	#7 - same as #6	MT = 64°F
1211	155-160	#8 - same as #6	MT = 64°F
1227	175-180	#9 - hard, grey-green clay and minor gravel.	MT = 64°F
1319	195-200	#10 - hard, red-brown and grey-green clays and minor sands and gravels.	MT = 70°F
1337	215-220	#11 - grey-green, silty clay and minor gravels.	MT = 68°F
1511	235-240	#12 - same as #11	MT = 72°F
1525	255 -260	#13 - same as #11	MT = 70°F
1537	275-280	#14 - 60% grey-green, silty clay; 40% hard grey and blue-grey clays.	MT = 70°F
543	295-300	#15 - grey-green and red-brown, silty clays and minor gravels.	MT = 70°F
1552	315-320	#16 - same as #15	MT = 70°F
1604	335-340	#17 - same as #15	MT = 70°F
1615	355-360	#18 - same as #15	MT = 70°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 22
TOWNSHIP 29N
RANGE 23E
WELL No. 39-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1622	15-20	#1 - ang to sub-ang, small-large gravels and cobbles, and boulders.	MT = 70°F
1628	35-40	#2 - same as #1	MT = 70°F
1635	55-60	#3 - 50% ang to sub-ang sands; 50% ang to sub-ang, small-large gravels and cobbles and boulders.	MT = 70°F
1641	75-80	#4 - same as #3	MT = 70°F
1646	95-100	#5 - same as #3	MT = 70°F
1653	115-120	#6 - same as #3	MT = 70°F
1659	135-140	#7 - same as #3	MT = 70°F
704	155-160	#8 - same as #3 plus minor, brown clay.	MT = 70°F
1710	175-180	#9 - same as #8	MT = 72°F
0850	195-200	#10 - same as #8	MT = 50°F
0855	215-220	#11 - same as #8	MT = 50°F
0900	235-240	#12 - same as #8	MT = 50°F
0907	255-260	#13 - 70% ang to sub-ang, fine-coarse sand; 30% ang to sub-ang, gravels and minor, brown clay.	MT = 54°F
0912	275-280	#14 - 70% ang to sub-ang fine-coarse sand; 30% soft, brown, silty and sandy clay and minor gravels.	MT = 56°F
0919	295-300	#15 - same as #14	MT = 56°F
0920	315-320	#16 - same as #14	MT = 58°F
0935	335-340	#17 - same as #14	MT = 58°F
942	355-360	#18 - same as #14	MT = 58°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 22
TOWNSHIP 29N
RANGE 23E
WELL No. 39-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0952	375-380	#19 - 50% ang, fine-coarse sands and mica flakes; 25% ang to sub-ang small gravel; 25% poorly consolid brown, silty, calcareous clay.	MT = 58°F
1000	395-400	#20 - same as #19	MT = 58°F
1010	415-420	#21 - same as #19	MT = 60°F
1018	435-440	#22 - same as #19	MT = 60°F
1027	455-460	#23 - same as #19	MT = 60°F
1035	475-480	#24 - same as #19	MT = 62°F
1046	495-500	#25 - same as #19	MT = 62°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 27
TOWNSHIP 29N
WELL No. 40-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1545	15-20	#1 - ang to sub-ang, small-large gravels and cobbles and boulders.	MT = 60°F
1550	35-40	# 2 - 70% ang to sub-ang, fine-coarse sands; 30% ang to sub-ang, small-med gravels.	MT = 60°
1558	55-60	#3 - same as #2	MT = 60°F
1605	75-80	#4 - same as #2	MT = 60°F
1615	95-100	#5 - 80% ang to sub-ang, fine-coarse sands; 20% soft, beige clay.	MT = 60°F
0845	115-120	#6 - soft, sandy and silty, beige clay and some carbonate particles.	MT = 42°F
0850	135-140	#7 - same as #6	MT = 42°F
0855	155-160	#8 - same as #6	MT = 42°F
0901	175-181	#9 - same as #6 and many mica flakes.	MT = 42°F
0907	195-200	#10 - same as #9	MT = 42°F
0917	215-220	#11 - poorly consolid, brown, sandy and silty clay with many mica flakes.	MT = 46°F
0918	235-240	#12 - same as #11	MT = 46°F
0920	255-260	#13 - same as #11	MT = 46°F
0930	275-280	#14 - same as #11	MT = 60°F
0937	295-300	#15 - same as #11	MT = 48°F
0944	315-320	#16 - same as #11	MT = 50°F
0950	335-340	#17 - 60% poorly consolid, brown, sandy and silty clay; 40% ang to sub-ang sands and some gravels.	MT =52°F
0956	355-360	#18 - 70% ang to sub-ang, small-large gravels and cobbles and boulders; 30% ang to sub-ang, fine-coarse sands.	MT = 54°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 27
TOWNSHIP 29N
RANGE 23E
WELL No. 40-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1004	375-380	#19 - same as #18	MT = 54°F
1011	395-400	#20 - same as #18	MT = 56°F
1018	415-420	#21 - same as #18	MT = 56°F
1025	435-440	#22 - same as #18	MT = 60°F
1033	455-460	#23 - same as #18	MT = 60°F
1041	475-480	#24 - same as #18	MT = 60°F
1055	495-500	#25 - same as #18	MT = 64°F

LITHOLOGIC WELL LOG

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

CHEVRON RESOURCES COMPANY

DATE

SECTION ~~28~~ 33

TOWNSHIP 29N

RANGE 23E

WELL No. 41-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1148	15-20	#1 - Boulders, cobbles and some gravels.	MT = 60°F
1210	35-40	#2 - same as #1	MT = 60°F
0828	55-60	#3 - ang to sub-ang gravels and some cobbles and boulders.	MT = 50°F
0843	75-80	#4 - same as #3	MT = 50°F
0900	95-100	#5 - same as #3	MT = 53°F
0922	115-120	#6 - same as #3	MT = 55°F
0954	135-140	#7 - same as #3	MT = 67°F
1029	155-160	#8 - same as #3	MT = 62°F
1106	175-180	#9 - Boulders, cobbles, gravels and brown clay.	MT = 65°F
1139	195-200	#10 - same as #9	MT = 66°F
1212	215-220	#11 - same as #9	MT = 66°F
1246	235-240	#12 - brown clay and some boulders and cobbles.	MT = 66°F
1327	255-260	#13 - same as #12	MT = 66°F
1356	275-280	#14 - same as #12	MT = 66°F
1503	295-300	#15 - same as #12	MT = 66°F
1516	315-320	316 - same as #12	MT = 66°F
1536	335-340	#17 - brown-grey clay and some gravels and cobbles.	MT = 66°F
1551	355-360	#18 - ang to sub-ang gravels and cobbles and brown clay.	MT = 66°F
1622	375-380	#19 - same as #18	MT = 66°F
0914	395-400	#20 - brown clay and some gravels and cobbles.	MT = 62°F
0934	415-420	#21 - same as #20	MT = 65°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION ~~28~~ 33
TOWNSHIP 29N
WELL No. 41-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1001	435-440	#21 - same as #20	MT = 65°F
1046	445-460	#23 - same as #20	MT = 70°F
1137	475-480	#24 - same as #20	MT = 78°F
1205	495-500'	#25 - Boulders, cobbles and gravels and some brown clay.	MT = 80°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 16
TOWNSHIP 29N
WELL No. 42-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0820	375-380	#19 - same as #8	MT = 85°F (H_2O in truck is 115°F)
0834	395-400	#20 - same as #8	MT = 87°F
0852	415-420	#21 - same as #8	MT = 90°F
0908	435-440	#22 - same as #8	MT = 90°F
0935	455-460	#23 - same as #8	MT = 95°F
0951	475-480	#24 - same as #8	MT = 95°F
1010	495-500	#25 - same as #8	MT = 97°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

SECTION 16

TOWNSHIP 29N

WELL No. 42-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0950	15-20	#1 - ang to sub-ang gravels and sands and some cobbles.	MT = 70°F
1020	35-40	#2 - same as #1	MT - 70°F
1040	55-60	#3 - same as #1	MT = 70°F
1055	75-80	#4 - ang gravels and sands and some cobbles; soft, silty grey-brown clay.	MT = 70°F
1105	95-100	#5 - same as #4	MT = 70°F
1112	115-120	#6 - same as #4	MT = 70°F
1134	135-140	#7 - same as #4	MT = 73°F
1146	155-160	#8 - soft, grey-brown and grey silty clay and minor gravels and sands.	MT = 75°F
1203	175-180	#9 - same as #8	MT = 75°F
1225	195-200	#10 - same ad #8	MT = 75°F
1255	215-220	#11 - same as # 8	MT = 75°F
1325	235-240	#12 - same as #8	MT = 80°F
1358	255-260	#13 - same as #8	MT = 80°F
1412	275-280	#14 - same as #8	MT = 80°F
1447	295-300	#15 - same as #8	MT = 80°F
1515	315-320	#16 - same as #8	MT = 80°F
1540	335-340	#17 - same as #8	MT = 80°F
1607	355-360	#18 - same as # 8	MT = 80°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 28
TOWNSHIP 30N
RANGE 23E
WELL No. 23-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0828	15'-20'	#1 - Soft, yellow-green clay and minor sand and gravel.	MT = 68°F
0832	35'-40'	#2 - same as #1	MT = 68°F
0836	55'-60'	#3 - 40% ang to sub-ang coarse sand, 40% soft, brown, silty clay, 20% sub-ang to sub-round gravels and some cobbles.	MT = 68°F
0844	75'-80'	#4 - same as #3	MT - 68°F
0849	95'-100'	#5 - same as # 3	MT = 68°F
0854	115'-120'	#6 - 40% soft, red-brown, gray-green and brown clays, 40% sub-ang to sub-round, small gravels and some cobbles, 20% ang to sub-ang sand.	MT - 68°F
0900	135'-140'	#7 - same as #6	MT = 67°F
0906	155'-160'	#8 - 50% ang to sub-ang coarse sand; 40% sub-ang to sub-round, small-med. gravels and some cobbles; 10% soft, red-brown and brown & brown clays.	MT = 64°F
0914	175'-180'	#9 - 50% ang to sub-round, small-large gravels and some cobbles; 40% ang coarse sand, 10% soft red-brown and brown clays.	MT = 66°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

SECTION 28

TOWNSHIP 30N

RANGE 23E

WELL No. 23-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0932	195'-200'	#10 - same as # 9	MT = 64°F
0940	215'-220'	#11 - same as #9	MT = 64°F
0957	235'-240'	#12 - 70% ang to sub-round, small-large gravels and some cobbles, 20% ang, sands 10% soft, brown clay.	MT = 64°F
1005	255'-260'	#13 - same as #12	MT = 64°F
1015	275'-280'	#14 - same as #12	MT = 64°F
1023	295'-300'	#15 - 50% ang to sub-ang, coarse sands; 30% ang to sub-ang, small large gravels and some cobbles; 20% soft, grey-brown silty clay.	MT = 64°F
1030	315'-320'	#16 - 60% ang to sub-ang, small-large gravels and some cobbles; 30% ang to sub-ang, coarse sand, 10% soft brown clay.	MT = 64°F
1038	335'-340'	#17 - 70% ang to sub-round, small-large gravels and some cobbles, 30% ang to sub-ang, coarse sand.	MT = 63°F
1047	355'-360'	#18 - 60% ang to sub-ang, small-large gravels and some cobbles; 40% ang to sub-ang, coarse sand	MT = 64°F
1056	375'-380'	#19 - same as # 18	MT = 64°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY _____ STATE Nevada

DATE _____ SECTION _____

TOWNSHIP _____

RANGE _____

WELL No. 23-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1106	395'-400'	#20 - same as #18	MT = 64°F
1112	415'-420'	#21 - same as #18	MT = 64°F
1121	435'-440'	#22 - same as # 18	MT = 60°F
1137	455'-460'	#23 - same as #18	MT = 60°F
1151	475'-480'	#24 - 80% slate cobbles and some sub- ang gravels; 20% ang to sub-ang sand	MT = 60°F
1225	495'-500'	#25 - 60% ang to sub-ang, coarse sand; 40% ang to sub-round small-med. gravels and some cobbles.	MT = 60°F

LITHOLOGIC WELL LOG

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

CHEVRON RESOURCES COMPANY

DATE

SECTION 28

TOWNSHIP 30N

WELL No. 24-78

RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0485	15-20'	#1 - ang to sub-ang, small-med sands.	MT = 70°F
0910	35-40'	#2 - 60% ang, small-large gravels; 40% soft, gray, sandy and silty clay.	MT = 66°F
0914	55-60'	#3 - same as # 2	MT = 66°F
0922	75-80'	#4 - soft, brown-green, silty clay, with some carbonate particles and minor gravels.	MT = 64°F
0927	95-100	#5 - ang. gravels	MT =62°F
0931	115-120	#6 - 70% ang to sub-ang, small-med gravels, 30% ang to sub-ang, coarse sand.	MT = 62°F
0935	135-140	#7 - 50% a g to sub-ang, small-large gravels; 25% ang, med-coarse sand, 25% poorly consolid, brown, silty, calcareous clay.	MT = 62°F
0939	155-160	#8 - same as #7	MT = 61°F
0943	175-180	#9 - same as #7	MT = 61°F
0947	195-200	#10 - same as #7	MT = 61°F
0951	215-220	#11 - 50% ang to sub ang, small-med gravels; 25% ang, med-coarse sands; 25% soft, brown and gray-green silty, calcareous clays.	MT = 62°F

LITHOLOGIC WELL LOG

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

CHEVRON RESOURCES COMPANY

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SECTION 28
TOWNSHIP 30N
RANGE 23E

WELL No. 24-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0956	235'-240'	#12 - same as #11	MT = 62°F
1004	255'-260'	#13 same as #11	MT = 60°F
1009	275'-280'	#14 - same as #11	MT = 60°F
1017	295'-300'	#15 - 50% soft, grey, brown and red-brown silty, calcareous clays; 25% ang to sub-ang, small-large gravels, 25% ang, med-coarse sands.	MT = 60°F
1022	315'-320'	#16 - 50% ang to sub-ang, small-large gravels; 25% soft, brown silty, calcareous clay, 25% avg, med-coarse sands.	MT = 60°F
1034	335'-340'	#17 - same as #16	MT = 60°F
1042	355'-360'	#18 - 50% poorly consolid; brown and gray-green, silty calcareous clays; 25% ang, med coarse sands; 25% ang to sub ang, small-med gravels.	MT = 60°F
1050	375'-380'	#19 - 50% ang to sub-ang, small-large gravels; 25% ang, coarse sand; 25% soft, brown, silty clay.	MT = 60°F
1104	395'-400'	#20 - 50% soft, red-brown, green-grey and tan silty and sandy, calcareous clays; 25% ang, med-coarse sands, 25% ang to sub-ang, small-med gravels.	MT = 68°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 28
TOWNSHIP ~~30N~~
RANGE ~~23E~~
WELL No. 24-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1120	415-420'	#21 - 50% ang to sub-ang, small-large gravels and cobbles, 25% ang sands; 25% brown clay.	MT = 76°F
1131	435'-440'	#22 - same as #21	MT = 80°F
1145	455'-460'	#23 - same as #21	MT = 80°F
1156	475'-480'	#24 - same as #21	MT = 80°F
1210	495'-500'	#25 - same as #21	MT = 80°F

LITHOLOGIC WELL LOG

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

CHEVRON RESOURCES COMPANY

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SECTION 29

TOWNSHIP 30N

RANGE 23E

WELL No. 25-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0901	15'-20'	#1 - ang, fine-coarse sands	MT = 60°F
0906	35'-40'	#2 - 90% ang to sub-ang sands; 10% ang to sub-ang, small gravels.	MT = 62°F
0910	55'-60'	#3 - same as # 2	MT = 62°F
0914	75'-80'	#4 - 90% ang to sub-ang, fine-course sands 10% ang, small-med gravels	MT = 62°F
0917	95'-100'	#5 - 75% soft, brown, silty clay; 25% ang to sub-ang sands	MT = 62°F
0920	115'-120'	#6 - same as #5.	MT = 62°F
0924	135'-140'	#7 - 90% ang to sub-ang, fine-coarse sands; 10% sub-ang, small gravel.	MT = 62°F
0926	155'-160'	#8 - 70% sub-ang to sub-round, fine-coarse sands; 20% soft, brown, silty and sandy clay, 10% sub-ang to sub-round gravels.	MT = 62°F
0929	175'-180'	#9 - 90% ang to sub-round, fine-coarse sands, 10% soft, green clay.	MT = 62°F
0933	195'-200'	#10 - 70% ang to sub-ang, fine-coarse sands; 20% soft, grey clay 10% sub-ang to sub-round, small gravels.	MT = 62°F
0936	215'-220'	#11 - 60% ang to sub-ang, small gravels; 30% soft, green clay, 10% ang to sub-ang, coarse sand.	MT = 62°F
0939	235'-240'	#12 - 60% ang to sub-ang, fine-coarse sands, 30% soft, green clay 10% ang to sub-ang, small gravel.	MT = 62°F
0944	255'-260'	#13 - same as #11	MT = 62°F
0948	275'-280'	#14 - 50% soft, brown and green clays, 40% ang to sub-ang, fine-coarse sands; 10% ang to sub-ang, small gravels.	MT = 62°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 29
TOWNSHIP 30N
WELL No. 25-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0951	295'-300'	#15 - 70% soft, green and grey clays; 20% ang to sub-ang, small gravels; 10% ang to sub-ang sands.	MT = 62°F
0956	315'-320'	#16 - 50% soft, green clay, 40% sub-ang to sub-round small gravels; 10% ang to sub-ang sands.	MT = 62°F
1028	335'-340'	#17 - 80% soft, green, blue-grey and brown clays; 10% sands, 10% small gravels.	MT = 58°F 325' - Lost circulation
1041	355'-360'	#18 - 50% ang to sub-ang, fine-coarse sands, 40% soft, brown, green and blue-grey clays; 10% ang to sub-ang, small gravel.	MT = 59°F
1400	375'-380'	#19 - Soft, green and blue-grey sandy clays.	MT = 54°F 375' - Lost circulation
1440	395'-400'	#20 - ang to sub-ang, fine sand	MT = 54°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 15
TOWNSHIP 29N
RANGE 23E
WELL No. 43-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1445	15-20	#1 - cobbles and ang to sub-ang gravels.	MT = 80°F
1510	35-40	#2 - ang to sub-ang sands and some cobbles.	MT = 80°F
1545	55-60	#3 - same as #2	MT = 75°F
1605	75-80	#4 - same as #2	MT = 77°F
1640	95-100	#5 - same as #2	MT = 75°F
1700	115-120	#6 - same as #2	MT = 80°F
0830	135-140	#7 - poorly consolid, grey-brown silty clay and ang to sub-ang gravels and sands and some cobbles.	MT = 55°F
0845	155-160	#8 - same as #7	MT = 55°F
0900	175-180	#9 - same as #7	MT = 65°F
0920	195-200	#10 - same as #7	MT = 74°F
1005	215-220	#11 - same as #7	MT = 75°F
1030	235-240	#12 - same as #7	MT = 80°F
1100	255-260	#13 - same as #7	MT = 80°F
1135	275-280	#14 - same as #7	MT = 80°F
1210	295-300	#15 - same as #7	MT = 84°F
1320	315-320	#16 - Boulders cobbles, gravels and some sand and brown clay	MT = 80°F
1345	335-340	#17 - same as #16	MT =85°F
1415	355-360	#18 - same as #16	MT = 85°F
1445	375-380	#19 - same as #16	MT = 90°F
1530	395-400	#20 - same as #16	MT = 90°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

SECTION 15

TOWNSHIP 29N

WELL No. 44-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1001	15-20	#1 - Boulders, cobbles, and gravels (many frags of slate).	MT = 61°F
1026	35-40	#2 - same as #1	MT = 65°F
1047	55-60	#3 - same as #1	MT = 70°F
1115	75-80	#4 - cobbles and boulders and some brown clay.	MT = 70°F
1202	95-100	#5 - same as #4	MT = 70°F
1325	115-120	#6 - same as #4	MT = 70°F
1405	135-140	#7 - same as #4	MT = 70°F
1425	155-160	#8 - grey-brown clay and some cobbles and boulders.	MT = 70°F
1525	175-180	#9 - same as #8	MT = 75°F
1615	195-200	#10 - same as #8	MT = 75°F
1758	215-220	#11 - same as #8	MT = 75°F
0935	235-240	#12 - same as #8	MT = 65°F
1042	255-260	#13 - same as #8	MT = 65°F
1120	275-280	#14 - same as #8	MT = 70°F
1152	295-300	#15 - same as #8	MT = 70°F
1239	315-320	#16 - same as #8	MT = 70°F
1317	335-340	#17 - same as #8	MT = 70°F
1455	355-360	#18 - same as #8	MT = 70°F
1445	365-370	#19 - same as #8	MT = 70°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 16
TOWNSHIP 29N
WELL No. 45-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0910	15-20	#1 - cobbles, boulders and some sands, gravels and clay.	MT = 68°F
0930	35-40	#2 - same as #1	MT = 70°F
0955	55-60	#3 - same as #1	MT = 80°F
1020	75-80	#4 - same as #1	MT = 90°F
1045	95-100	#5 - grey, sandy and silty clay and sands, gravels, cobbles and boulders	MT = 102°F
1110	115-120	#6 - same as #5	MT = 105°F
1200	135-140	#7 - frags of gray-green silicified siltstone and some frags of dark grey slate; grey-green clay.	MT = 115°F
1240	155-160	#8 - same as #7	MT = 115°F
1325	175-180	#9 - same as #7	MT = 120°F
1350	195-200	#10 - tan clay and cobbles and boulders.	MT = 110°F
1415	215-220	#11 - tan clay and gravels, cobbles and boulders.	MT = 115°F
1450	235-240	#12 - same as #11	MT = 115°F
1600	255-260	#13 - same as #11	MT = 120°F
1625	275-280	#14 - same as #11	MT = 115°F
0855	295-300	#15 - same as #11	MT = 120°F
0920	315-320	#16 - grey clay, gravels, cobbles boulders.	MT = 121°F
1000	335-340	#17 - same as #11	MT = 123°F
1040	355-360	#18 - frags of grey and grey-green siltstone and small amount of grey clay.	MT = 120°F
1110	375-380	#19 - same as #18	MT = 123°F
1135	395-400	#20 - same as #18	MT = 122°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 16
TOWNSHIP 29N
WELL No. 45-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1150	415-420	#21 - brown-grey, sandy and silty clay and frags of siltstone.	MT = 122°F
1220	435-440	#22 - brown-grey, sandy and silty clay and gravels and cobbles.	MT = 120°F
1250	455-460	#23 - same as #22	MT = 122°F
1315	475-480	#24 - same as #22	MT = 122°F
1350	480-485	#25 - same as #22	MT = 122°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 15
TOWNSHIP 29N
WELL No. 46-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0845	15-20	#1 - Boulders, cobbles and some ang to sub-ang gravels (many frags of slate).	MT = 75°F
0920	35-40	#2 - same as #1	MT = 75°F
0955	55-60	#3 - same as #1	MT = 79°f
1036	75-80	#4 - same as #1	
1110	95-100	#5 - Boulders, cobbles, ang to sub-ang gravels (many frags of slate), and some brown clay.	MT = 82°F
1155	115-120	#6 - same as #5	MT = 80°F
1240	135-140	#7 - same as #6	MT = 82°F
1320	155-160	#8 - same as #6	MT = 82°F
1355	175-180	#9 - same as #6	MT = 82°F
1432	195-200	#10 - ang to sub-ang gravels and some cobbles; grey clay.	MT = 82°F
1510	215-220	#11 - grey clay; gravels and some cobbles and sands (many slate frags)	MT = 80°F
1535	235-240	#12 - same as #11	MT = 80°F
1610	255-260	#13 - same as #11	MT = 80°F
1635	275-280	#14 - cobbles, gravels and some sand and grey clay.	MT = 82°F
0912	295-300	#15 - poorly consolid grey clay, cobbles and some gravel and sands (many frags of slate).	MT = 60°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
WELL No. 46-78
SECTION 15
TOWNSHIP 29N
RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0945	315-320	#16 - same as #15	MT = 64°F
1045	335-340	#17 - cobbles and boulders and some grey clay.	MT = 68°F
1205	355-360	#18 - boulders and cobbles (many slate frags).	MT = 70°F
1226	375-380	#19 - poorly consolid grey clay and some cobbles and boulders.	MT = 72°F
1245	395-400	#20 - same as #19	MT = 73°F
1318	415-420	#21 - same as #19	MT = 73°F
1415	435-440	#22 - same as #19	MT = 78°F
1435	455-460	#23 - same as #19	MT = 80°F
1510	462-467	#24 - same as #19	MT = 80°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 22
TOWNSHIP 29N
RANGE 23E
WELL No. 47-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1105	15-20	#1 - boulders, cobbles and ang to sub-ang gravels and some grey clay.	MT = 62°F
1120	35-40	#2 - same as #1	MT = 64°F
1134	55-60	#3 - same as #1	MT = 66°F
1155	75-80	#4 - same as #1	MT = 66°F
1210	95-100	#5 - same as #1	MT = 66°F
1235	115-120	#6 - boulders, cobbles, ang to sub-ang gravels and some sands and brown clay.	MT = 66°F
1257	135-140	#7 - same as #6	MT = 68°F
1334	155-160	#8 - same as #6	MT = 72°F
1405	175-180	#9 - poorly consolid brown clay and sands, gravels and some cobbles.	MT = 72°F
1435	195-200	#10 - same as #9	MT = 70°F
1530	215-220	#11 - grey-brown sandy and silty clay and minor gravels and cobbles.	MT = 70°F
1620	235-240	#12 - same as #11	MT = 70°F
0920	255-260	#13 - boulders and cobbles (many frags of slate), and some grey clay.	MT = 56°F
0959	275-280	#14 - same as #13	MT = 62°F
1054	295-300	#15 - frags of grey slate.	MT = 64°F
1140	315-320	#16 - ang frags of grey slate and minor sub-ang, small gravel.	MT = 66°F
1230	335-340	#17 - same as #16	MT = 66°F
1425	355-360	#18 - same as #16	MT = 66°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

SECTION 10

TOWNSHIP ~~29N~~

RANGE ~~23E~~

WELL No. 48-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1015	15-20	#1 - boulders, cobbles and ang gravels (many frags of slate).	MT = 50°F
1040	35-40	#2 - same as #1	MT = 54°F
1105	55-60	#3 - same as #1	MT = 56°F
1145	75-80	#4 - same as #1	MT = 60°F
1225	95-100	#5 - same as #1	MT = 65°F
1310	115-120	#6 - same as #1	MT = 70°F
1415	135-140	#7 - same as #1	MT = 78°F
1500	155-160	#8 - same as #1	MT = 66°F
1540	175-180	#9 - same as #1	MT = 65°F
1645	195-200	#10 -same as #1	MT = 65°F
1720	215-220	#11 - ang to sub-ang gravels and sands and some cobbles.	MT = 65°F
0855	235-240	#12 - ang to sub-ang gravels and sands and some poorly consolid grey-brown clay.	MT = 55°F
0935	255-260	#13 - same as #12	MT = 58°F
1000	275-280	#14 - same as #12	MT = 60°F
1055	295-300	#15 - grey sand and silty clay and ang to sub-ang gravels and sands.	MT = 60°F
1240	315-320	#16 - same as #15	MT = 65°F
1435	335-340	#17 - same as #15	MT = 68°F
1530	355-360	#18 - same as #15	MT = 72°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 10
TOWNSHIP ~~30N~~
RANGE ~~23E~~
WELL No. 49-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0955	15-20	#1 - boulders, cobbles and some clay.	MT = 60°F
1020	35-40	#2 - gravels, cobbles and some brown clay.	MT = 65°F
1115	55-60	#3 - same as #2	MT = 64°F
1200	75-80	#4 - brown clay and cobbles and boulders (many frags of slate).	MT = 72°F
1240	95-100	#5 - same as 34	MT = 75°F
1320	115-120	#6 - same as #4	MT = 60°F - partial loss of circulation.
1350	135-140	#7 - same as #4	MT = 70°F
1435	155-160	#8 - boulders cobbles, gravels and some grey-brown clay.	MT = 73° F - Partial loss of circulation at 180'.
1525	175-180	#9 - same as #8	MT = 72°F
1640	195-200	#10 - same as #8	MT = 75°F
1010	215-220	#11 - same as #8	MT = 55°F
1050	235-240	#12 - same as #8	MT = 62°F
1120	255-260	#13 - same as #8	MT = 70°F
1215	275-280	#14 - same as #8	MT = 70°F
1330	295-300	#15 - grey-brown and grey clays and some cobbles and boulders.	MT = 72°F
1425	315-320	#16 - same as #15	MT = 70°F
1515	335-340	#17 - same as #15	MT = 70°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

WELL No. 50-78

SECTION 16

TOWNSHIP 29N

RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0905	15-20	#1 - frags of grey and cream siltstone; some frags appear weathered.	MT = 64°F
0920	35-40	#2 - same as #1.	MT = 64°F
0922	55-60	#3 - grey, sticky clay and frags of grey siltstone.	MT = 64°F Lost circulation at ≈ 65'.
1040	70-74	#4 - frags of grey, highly silicified siltstone.	MT = 79°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 3
TOWNSHIP 29N
RANGE 23E
WELL No. 51-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1525	15-20	#1 - yellow-brown, silty clay and some ang gravels.	MT = 48°F
1540	35-40	#2 - ang gravels and some yellow-brown clay.	MT = 48°F
1640	55-60	#3 - yellow-brown and brown, sandy and silty clays and minor gravels.	MT = 46°F
1115	75-80	#4 - same as #3	MT = 44°F
1240	95-100	#5 - same as #3	MT = 48°F
1305	115-120	#6 - ang to sub-ang gravels and yellow-brown and brown silty and sandy clays.	MT = 54°F
1325	135-140	#7 - same as #6	MT = 56
1340	155-160	#8 - same as #6	MT = 56°F
1400	175-180	#9 - same as #6	MT = 56°F
1425	195-200	#10 - same as #6	MT = 56°F
1445	215-220	#11 - blue-grey, grey-green and grey clays and some gravels.	MT = 56°F
1520	235-249	#12 - same as #11	MT = 58°F
1603	255-260	#13 - red-brown and red and grey, silty clays and some gravels.	MT = 58°F
0910	275-280	#14 - ang to sub-ang gravels and some brown and red-brown clays	MT = 50° Partial loss of circulation.

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 3
TOWNSHIP 29N
WELL No. 51-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0930	295-300	#15 - same as #14	MT = 50°F
1000	315-320	#16 - grey, red-brown and brown, and brown, silty clays and ang to sub-ang gravels.	MT = 68°F
1045	335-340	#17 - grey, silty clay and ang to sub-ang gravels and sands.	MT = 70°F
1130	355-360	#18 - same as #17	MT = 74°F
1230	375-380	#19 - same as #17	MT = 74°F
1310	395-400	#20 - same as #17	MT = 74°F
1345	415-420	#21 - same as #17	MT = 74°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 3
TOWNSHIP 29N
RANGE 23E
WELL No. 52-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1030	15-20	#1 - boulders, cobbles and gravels.	MT = 72°F
1040	35-40	#2 - cobbles and gravels and some silty grey clay.	MT = 76°F
1105	55-60	#3 - soft, grey and brown, silty clays and some gravels and cobbles.	MT = 76°F
1115	75-80	#4 - ang to sub-ang gravels and cobbles and some grey clay.	MT = 80°F
1150	95-100	#5 - soft, grey and brown silty clays and some ang gravels and cobbles.	MT = 80°F
1205	115-120	#6 - same as #5	MT = 84°F
1235	135-140	#7 - grey, silty clay and frags of grey siltstone.	MT = 84°F
1307	155-160	#8 - grey, silty clay and cobbles and gravels.	MT = 86°F
1335	175-180	#9 - frags of grey siltstone; some frags silicified and some contain pyrite.	MT = 84°F
1422	195-200	#10 - boulders, cobbles and ang to sub-ang gravels.	MT = 84°F
1512	215-220	#11 - same as #10	MT = 80°F
1615	235-240	#12 - same as #10	MT = 80°F
0845	255-260	#13 - same as #10	MT = 63°F
0935	275-280	#14 - same as #10	MT = 65°f
1120	295-300	#15 - same as #10	MT = 65°F
1410	315-320	#16 - same as #10	MT = 70°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 15
TOWNSHIP 29N
RANGE 23E
WELL No. 53-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0910	15-20	#1 - grey, silty clay and some cobbles and gravels.	MT = 46°F
0940	35-40	#2 - sub-ang gravels, cobbles and some grey, silty clay.	MT = 46°F
1012	55-60	#3 - same as #2	MT = 56°F
1035	75-80	#4 - same as #2	MT = 70°F
1110	95-100	#5 - grey-brown, silty clay and some cobbles and gravels.	MT = 70°F
1158	115-120	#6 - ang to sub-ang gravels and cobbles and some grey clay.	MT = 70°F
1250	135-140	#7 - cobbles, boulders, (many frags of slate) and ang to sub-ang gravels.	MT = 70°F
1400	155-160	#8 - same as #7	MT = 73°F
1435	175-180	#9 - cobbles, boulders (frags of slate) and some ang to sub-ang gravels.	MT = 70°F
1617	195-200	#110 - same as #8	MT = 75°F
1035	215-220	#11 - frags of grey slate	MT = 60°F
1300	235-240	#12 - same as #11	MT = 60°F
1432	245-250	#13 - same as #11	MT = 65°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

SECTION 27

TOWNSHIP 29N

RANGE 23E

WELL No. 27-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1058	355'-360'	#18 - same as #16	MT = 45°F
1107	375'-380'	#19 - same as #16	MT = 45°F
1112	395'-400'	#20 - same as #16	MT = 45°F
1117	415'-420'	#21 - poorly consolid., sandy and silty brown clay and minor gravels.	MT = 45°F
1123	435'-440'	#22 - same as #21	M% = 48°F
1135	455'-460'	#23 - same as #21	MT =50°F
1140	475'-480'	#24 - same as #21	MT = 50°F
1159	495'-500'	#25 - same as #21	MT = 52°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 33
TOWNSHIP 30N
RANGE 23E
WELL No. 28-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0818	15'-20'	#1 - soft, brown, sandy and silty, calcareous clay.	MT = 66°F
0822	35'-40'	#2 - frags of brown silstone, with calcareous cement.	MT = 66°F
0826	55'-60'	#3 - same as #2	MT = 64°F - Partial loss of circulation.
0830	75'-80'	#4 - sub-ang, small-large gravels and cobbles and some frags of grey siltstone.	MT = 64°F
0835	95'-100'	#5 - 50% ang to sub-ang, fine-coarse sand ; 50% ang to sub-round gravels and cobbles and frags of sandstone and siltstone.	MT = 66°F
0839	115-120'	#6 - same as #5	MT = 66°F
0842	135'-140'	#7 - 60% grey and blue-grey calcareous claystone and siltstone; 30% ang to sub-ang gravels; 10% ang to sub-ang sands.	MT = 66°F
0846	155'-160	#8 - same as #7	MT = 67°
0850	175'-180'	#9 - same as #7 and some soft, green clay.	
0854	195'-200'	#10 - 90% poorly consolid. grey, calcareous clay; 10% sands and gravels.	MT = 68°F
0858	215'-220'	#11 - 50% soft, grey and brown silty and sandy calcareous clay; 50% ang to sub-ang sands and gravels.	MT = 68°F
0903	235'-240'	#12 - 70% grey-green and grey-brown calcareous siltstone; 30% ang to sub-ang gravels and sands.	MT = 70°F
0907	255'-260'	#13 - same as #12	MT = 70°F
0912	275'-280'	#14 - same as #12	MT = 70°F
0920	295'-300'	#15 - same as #12	MT = 70°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 33
TOWNSHIP 30N
WELL No. 28-78 RANGE 3E

TIME	DEPTH	LITHOLOGY	COMMENTS
0927	315'-320'	#16 - same as #12	MT = 70°F
0937	335'-340'	#17 - same as #12	MT -72°F
0943	355' -360'	#18 - 60% ang to sub-ang, small-large gravels and cobbles, 40% ang to sub-ang sands and some frags of grey siltstone.	MT = 74°F
0952	375'-380'	#19 - ang to sub-ang, small-large gravels and cobbl .es.	MT = 72°F
1001	395'-400'	#20 - 50% ang to sub-ang, small large gravels and cobbles; 50% ang to sub-ang, fine-coarse sands.	MT = 76°F
1030	415'-417'	#21 - same as #20	MT = 82°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

SECTION 33

TOWNSHIP 30N

WELL No. 29-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0901	15'-20'	#1 - 60% soft, brown silty clay; 40% ang to sub-ang gravels.	MT = 66°F
0911	35'-40'	#2 - 75% ang to sub-ang. gravels and cobbles; 25% soft, brown and grey clays.	MT = 64°F
0924	55'-60'	#3 - same as #2	MT = 64°F Lost Circulation at 45' - 57'.
0932	75'-80'	#4 - Soft, dark-grey, sandy and silty clay and minor, small gravel.	MT = 64°F
0945	95'-100'	#5 - same as #4	MT = 62°F
0952	115'-120'	#6 - Soft, dark-grey, clay and minor, small gravel and sands.	MT = 62°F
1002	135'-140'	#7 - Firm, grey, silty clay and minor gravels and sands.	MT = 71°F
1011	155'-160'	#8 - same as #7	MT = 72°F
1021	175'-180'	#9 same as #7	MT = 74°F
1030	195'-200'	#10 - soft, blue-grey, silty clay.	MT = 72°F
1038	215'-220'	#11 - same as #10	MT = 76°F
1047	235'-240'	#12 - same as #10	MT = 76°F
1055	255'-260'	#13 - same as #10	MT = 78°F
1107	275'-280'	#14 - same as #10	MT = 75°F 270' - Lost circulation
1121	295'-300'	#15 - soft, grey clay and minor gravels.	MT = 78°F 285' - Regained full circulation.
1148	315'-320'	#16 - same as #15	MT = 78°F
1202	335'-340'	#17 - same as #15	MT = 77°F
1222	355'-360'	#18 - same as #15	MT = 79°F
1241	375'-380'	#19 - same as #15	MT = 79°F
1304	395'-400'	#20 - same as #15	MT = 80°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

SECTION 33

TOWNSHIP 30N

RANGE 23E

WELL No. 29-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1320	415'-420'	#21 - soft, green-grey, silty clay	MT = 80°F
1337	435'-440'	#22 - green and green-grey, silty calcareous clays.	MT = 80°F
1400	455'-460'	#23 - same as #22	MT = 80°F
1419	475'-480'	#24 - same as #22	MT = 80°F
1555	495'-500'	#25 - 50% frags of grey and grey-green siltstone; 25% grey clay; 25% ang to sub-ang small gravel and sands.	MT = 84°F Partial loss of circulation.

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 27
TOWNSHIP 30N
RANGE 23E
WELL No. 30-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1603	15'-20'	#1 - soft, brown, sandy and silty clay and minor gravels.	MT = 68°F
1613	35'-40'	#2 - soft, green-brown sandy and silty clay and minor small gravel.	MT = 68°F
1619	55'-60'	#3 - same as #2	MT = 68°F
1626	75'-80'	#4 - soft, green-brown, green and red-brown sandy and silty clays.	MT = 68°F
1635	95'-100'	#5 - soft, green-brown and grey, sandy and silty clays.	MT = 68°F
0936	115'-120'	#6 - ang frags of grey-green siltstone and minor gravels and sands.	MT = 52°F
0943	135'-140'	#7 - 80% soft, green-brown, sandy and silty clay; 20% avg frags of grey-green siltstone and minor gravels.	MT - 52°F
0947	155'-160'	#8 - 90% soft, grey-green silty and sandy clay; 10% frags of grey-green siltstone.	MT = 52°F
0952	175'-180'	#9 - 50% soft, grey and grey-green, silty and sandy clays, 50% frags of grey-green siltstone and minor gravels.	MT = 58°F
1007	195'-200'	#10 - ang frags of grey and grey-green siltstone and minor gravels and sands.	MT = 58°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 27
TOWNSHIP 30N
RANGE 23E
WELL No. 30-78

TIME	DEPTH	LITHOLOGY	COMMENTS	
1012	215'-220'	#11 - 70% frags of grey-green siltstone, with some pyrite, 30% soft grey-green clay and minor gravels of sand.	MT = 58°F	
1022	235'-240'	#12 - 70% soft grey-green, silty clay, 30% frags of grey-green siltstone and minor gravels.	MT = 58°F	
1028	255'-260'	#13 - frags of grey-green siltstone	MT = 60°F	
1034	275'-280'	#14 - same as #13	MT = 64°F	
1050	295'-300'	#15 - same as #13	MT = 66°F	
1140	315'-320'	#16 - frags of partially silicified dark grey-green siltstone, containing some particles of pyrite and some grey clay.	MT = 64°F	
1211	335'-340'	#17 - same as #16	MT = 66°F	Lost circulation at 340'
1306	355'-360'	#18 - same as #16	MT = 72°F	
1318	375'-380'	#19 - same as #16	MT = 74°F	
1331	395'-400'	#20 - 75% soft, brown, red-brown, red clays, 25% cobbles and boulders.	MT = 72°F	390' - Lost circulation
1348	415'-420'	#21 - soft grey and green clays and cobbles, boulders and some gravels.	MT = 74° F	Partial loss of circulation.
1357	435'-440'	#22 - same as #21	MT = 76°F	Partial loss of circulation
1409	455'-460'	#23 - same as #21	MT = 76°F	Partial loss of circulation continues.

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 28
TOWNSHIP 30N
WELL No. 31-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1606	15'-20'	#1 - poorly consolid, brown, silty clay and many carbonate particles.	MT = 89°F (Temp of H_2O in truck)
1618	35'-40'	#2 - same as #1	MT = 86°F
1626	55'-60	#3 - red-brown, silty clay, with many carbonate particles and minor gravels.	MT = 84°F
1632	75'-80'	#4 - same as #3	MT = 86°F
1639	95'-100'	#5 - frags of brown, grey, cream and brown tuff.	MT = 86°F
1656	115'-120'	#6 - weathered, appearing frags of cream and light-green tuff.	MT = 84°F
1703	135'-140'	#7 - frags, grey-green dark-green and green silicified siltstone with calcite frags and many pyrite crystals.	MT = 84°F
0825	155'-160'	#8 - same as #7	MT = 54°F
0924	175'-180'	#9 - same as #7	MT = 60°F
0953	195'-200'	#10 - same as #7	MT = 60°F
1047	215'-220'	#11 - same as #7	MT - 61°F
1123	235'-240'	#12 - same as #7	MT = 65°F
1200	255'-260'	#13 - same as #7	MT = 68°F
1247	275'-280'	#14 - same as #7	MT = 70°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

SECTION 28

TOWNSHIP 30N

RANGE 23E

WELL No. 32-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0809	15'-20'	#1 - Poorly consolid, brown, sandy and silty, calcareous clay.	MT = 51°F
0812	35'-40'	#2 - same as #1	MT = 51°F
0821	55'-60'	#3 - same as #1	MT = 54°F
0830	75'-80'	#4 - 60% frags of tan and grey tuff, 40% soft, brown and grey clays.	MT =54°F
0837	95'-100'	#5 - soft, grey clay.	MT =54°F
0843	115'-120'	#6 - same as #5	MT =54°F
0846	135'-140'	#7 - 70% soft, grey and yellow-brown clays; 30% ang to sub-ang gravels and sands.	MT =58°F
0850	155'-160'	#8 - soft, grey clay	MT = 62°F
0855	175'-180'	#9 - same as #8	MT = 64°F
0900	195'-200'	#10 - same as #8	MT = 64°F
0906	215'-220'	#11 - same as #8	MT = 66°F
0912	235'240'	#12 - soft, grey-brown, beige and green, silty, calcareous clays.	MT = 66°F
0919	255'-260'	#13 - same as #12	MT = 66°F
0930	275'-280'	#14 - same as #12	MT = 66°F
0942	295'-300'	#15 - same as #12	MT = 66°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 28
TOWNSHIP 30N
RANGE 23E
WELL No. 32-78

TIME	DEPTH	LITHOLOGY	COMMENTS
0953	315-320'	#16 - 50% ang frags of grey-green siltstone; 50% soft, grey-green silty calcareous clay and minor gravels and sands.	MT = 67°F
1007	335'-340'	#17 - same as #16	MT = 67°F
1024	355'-360'	#18 - same as #16	MT = 68°F
1041	375'-380'	#19 - 50% soft, red-brown and grey-green, silty calcareous clays; 50% frags of red-brown and grey-green siltstone.	MT = 68°F
1057	395'-400'	#20 - same as #19	MT = 68°F
111	415'-420'	#21 - same as #19	MT = 69°F
1129	435'-440'	#22 - same as #19	MT = 70°F
1144	455'-460'	#23 - same as #19	MT = 70°F
1159	475'-480'	#24 - same as #19	MT = 70°F
1218	485'-500'	#25 - same as #19	MT = 71°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 21
TOWNSHIP 30N
WELL No. 33-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0836	15'-20'	#1 - 80% ang to sub-ang, fine-coarse sands; 20% ang-sub-ang, small-med. gravels.	MT = 64°F
0841	35'-40'	#2 - 60% ang to sub-ang sands; 40% poorly consolid. Red-brown clay & minor gravels.	MT = 64°F - Partial loss of circulation.
0846	55'-60'	#3 - 50% ang to sub-ang small-large gravels; 50% ang to sub-ang fine-coarse sands and some brown clay.	MT = 64°F
0855	75'-80'	#4 - same as #3	MT = 64°F
0925	95'-100'	#5 - soft, grey-brown, yellow and orange sandy and silty clays and some carbonate particles.	
0933	115'-120'	#6 - hard, blue-grey, silty clay with many flakes of mica.	MT = 64°F
0937	135'-140'	#7 - same as #6	MT = 64°F
0943	155'-160'	#8 - frags of grey, ash tuff.	MT = 64°F
0950	175'-180'	#9 - 90% blue-grey and brown-grey silty clays; 10% ang to sub-ang gravels and some sands	MT = 64°F
0955	195'-200'	#10 - same as #9	MT = 66°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 21
TOWNSHIP 30N
RANGE 23E
WELL No. 33-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1002	215'-220'	#11 - grey, ash tuff; some frags weathered appearing and some pyrite.	MT = 66°F
1007	235'-240'	#12 - same as #11	MT = 66°F
1012	255'-260'	#13 - grey, ash tuff.	MT = 66°F
1020	275'-280'	#14 - 70% frags of grey and red-brown, ash tuff; 30% yellow-brown and blue-grey clays.	MT = 66°F
1026	295'-300'	#15 - same as #11	MT = 68°F
1033	315'-320'	#16 - same as #11	MT = 68°F
1040	335'-340'	#17 - same as #11	MT = 68°F
1048	355'-360'	#18 - same as #11	MT = 68°F
1058	375'-380'	#19 - same as #11	MT = 68°F
1106	395'-400'	#20 - same as #11 & some pyrite	MT = 70°F
1126	415'-420'	#21 - same as #11	MT = 70°F
1133	435'-440'	#22 - same as #11 and some red-brown clay.	MT = 70°F
1144	455'-460'	#23 - same as #11	MT = 70°F
1152	475'-480'	#24 - same as #11	MT = 70°F
1202	495'-500'	#25 - same as #11	MT = 70°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

SECTION 21

TOWNSHIP 30N

WELL No. 34-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1450	15'-20'	#1 - 75% ang, med-coarse sand and some mica flakes, 25% ang to sub-ang, small-large gravels.	MT = 64°F
1455	35'-40'	#2 - same as #1	MT = 64°F
1500	55'-60'	#3 - same as #1	MT = 64°F
1505	75'-80'	#4 - same as #1	MT = 64°F
1510	95'-100'	#5 - same as #1	MT = 64°F
1515	115'-120'	#6 - 50% soft, brown, silty clay, 25% ang, coarse sand, 25% ang to sub-round, small gravel.	MT = 66°F
,21	135'-140'	#7 - same as #6	MT = 66°F
1533	155'-160'	#8 - 75% soft, brown, silty clay, 25% ang to sub-ang, coarse sand and small gravel.	MT = 66°F
1535	175'-180'	#9 - 50% soft, brown, silty clay, 50% ang to sub-ang, fine coarse sand and small gravel.	MT = 66°F
1545	195'-200'	#10 - 75% soft, grey and green-grey silty and calcareous clays, 25% ang to sub-ang coarse sand and small gravel.	MT = 68°F
0900	215'-220'	#11 - same as #10	MT = 60°F
0907	235'-240'	#12 - same as #10	MT = 60°F
0912	255'-260'	#13 - 50% soft, sandy and silty clay 25% ang, med-coarse sands, 25% ang to sub-ang, small-coarse gravels.	MT = 60°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
WELL No. 34-78
SECTION 21
TOWNSHIP 30N
RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0921	275'-280'	#14 - 75% soft, green-grey, sandy and silty clay; 25% ang, coarse sand and small gravels.	MT = 60°F - Partial loss of circulation
0926	295'-300'	#15 -50% soft, grey-green, silty clay; 25% ang, med-coarse sand; 25% frags of grey-green siltstone.	MT = 60°F
0932	315'-320'	#16 - soft, grey and green-grey, silty and sandy calcareous clay.	MT = 64°F
0940	335'-340'	#17 - same as #16	MT = 66°F
0950	355'-360'	#18 - soft, grey and grey-green and red-brown, sandy and silty, calcareous clays, and minor gravels and frags of siltstone.	MT = 68°F
1000	375'-380'	#19 - soft, red-brown and grey, sandy and silty, calcareous clays and minor gravels.	MT = 68°F
1009	395'-400'	#20 - soft, grey and brown and red-brown, sandy and silty calcareous clays and minor gravels.	MT = 70°F
1020	415'-420'	#21 - 50% soft, grey, brown and red-brown, silty and sandy, calcerous clays; 50% ang, med-coarse sands & minor gravels.	MT = 72°F
1030	435'-440'	#22 - 50% poorly consolid, brown, silty clay and some carbonate particles; 50% ang to sub-ang, med-coarse sands and some small gravels.	MT = 76°F
1039	455'-460'	#23 - same as #22	MT = 76°F
1432	475'-480'	#24 - 50% soft, brown, sandy and silty clay and some carbonate particles; 25% ang, med-coarse sand; 25% ang to sub-ang, small-med gravels.	MT = 70°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio

COUNTY Washoe STATE Nevada

DATE

SECTION 27

TOWNSHIP 29N

RANGE 23E

WELL No. 35-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1225	335'-340'	#17 - same as #13	MT = 92°F
1235	355'-360'	#18 - 70% soft, red-brown, silty clay; 20% sub-ang to sub-round coarse sand; 10% sub-ang to sub-round small, gravel.	MT = 92°F
1258	375'-380'	#19 - same as #18	MT = 94°F
1310	395'-400'	#20 - same as #18	MT = 94°F
1325	415'-420'	#21 - same as #18	MT = 92°F
1341	435'-440'	#22 - same as #18	MT = 92°F
354	455'-460'	#23 - same as #18	MT = 92°F
1413	475'-480'	#24 - same as #18	MT = 92°F

LITHOLOGIC WELL LOG

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio
COUNTY Washoe STATE Nevada
DATE
SECTION 27
TOWNSHIP 29N
WELL No. 35-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
1035	15'-20'	#1 - ang frags tan siltstone and minor gravel.	MT = 92°F (temp of H_2O in truck)
1042	35'-40'	#2 - 50% ang frags, tan siltstone; 50% ang to sub-ang, med-large gravels and cobles.	MT = 90°F
1046	55'-60'	#3 - ang. frags tan siltstone.	MT = 90°F
1052	75'-80'	#4 - 60% ang frags of tan siltstone; 40% ang to sub-ang small-med gravels.	
1057	95'-100'	#5 - ang frags tan siltstone and minor gravels and sands.	MT = 90°F
1102	115'-120'	#6 - 60% soft, tan, silty clay; 40% ang to sub-ang, small-large gravels.	MT = 94°F
1107	135'-140'	#7 - 50% soft, tan, silty clay; 25% ang to sub-ang, small-large gravels; 25% ang to sub-ang sands.	MT = 94°F
1112	155'-160'	#8 - 50% frags, tan siltstone; 50% soft, tan, silty clay.	MT = 94°F
1117	175'-180'	#9 - 75% soft, tan, silty clay - 25% frags, tan, siltstone and minor gravels.	MT = 94°F
1322	195-200'	#10 - 50% soft, tan, silty clay; 25% frags tan siltstone, 25% ang to sub-ang gravels.	MT = 94°F
1327	215'-220'	#11 - 80% soft, brown, silty clay; 20% frags, tan siltstone and minor gravels.	MT = 96°F
1137	235'-240'	#12 - same as #11	MT = 92°F
1146	255'-260'	#13 - soft, brown, yellow-green, dark grey, orange and red clays.	MR = 92°F
54	275'-280'	#14 - same as #13	MT = 92°F
1203	295'-300'	#15 - soft, tan and green-grey, silty clays.	MT = 92°F
1212	315'-320'	#16 - same as #15	MT = 92°F

SUMMARY OF RESULTS FROM A THERMAL GRADIENT SURVEY OF THE SAN EMIDIO WELLS WASHOE COUNTY, NEVADA

submitted to

CHEVRON OIL COMPANY

August, 1976

by

Allan M. Katzenstein
Subir K. Sanyal

Project No. 76.112

GEONOMICS, INC.
3165 Adeline Street
Berkeley, California 94703

SUMMARY OF RESULTS

This summary describes the results obtained from a temperature gradient survey of the San Emidio wells drilled in Washoe County, Nevada. The temperature gradient survey was performed during the month of July, 1976, by Geonomics, Inc., for the Chevron Oil Company. The approximate location of the survey is shown in Figure 1. A total of two holes were drilled (S.E. #A and S.E. #B) with locations plotted on Figure 2.

Logging operations, which consisted of rock sampling and temperature-depth determinations, were undertaken by Geonomics, Inc. with data being presented in the following appendices:

Appendix I - Drilling Operations Log for each Hole
Appendix II - Sample Identification from each Hole
Appendix III- Field Observed Temperature from each Hole
Appendix IV - Uncorrected Temperature from each Hole
Appendix V - Uncorrected Temperature Gradient Computer Calculations for each Hole

In addition, Table 1 presents vital statistics for each hole.

Both of the San Emidio holes were drilled in alluvial fill surrounded by relatively flat terrain; therefore, no terrain corrections were made on the temperature data and the thermal gradients remain uncorrected. A core was taken from S.E. #B, but due to the sedimentary character of the area and sample, no conductivity or density determinations were carried out, and, therefore, no heat flow is calculated for this area. Also, at the request of the Chevron Oil Company, no further interpretation is given on the data beyond this presentation of the calculated thermal gradients.

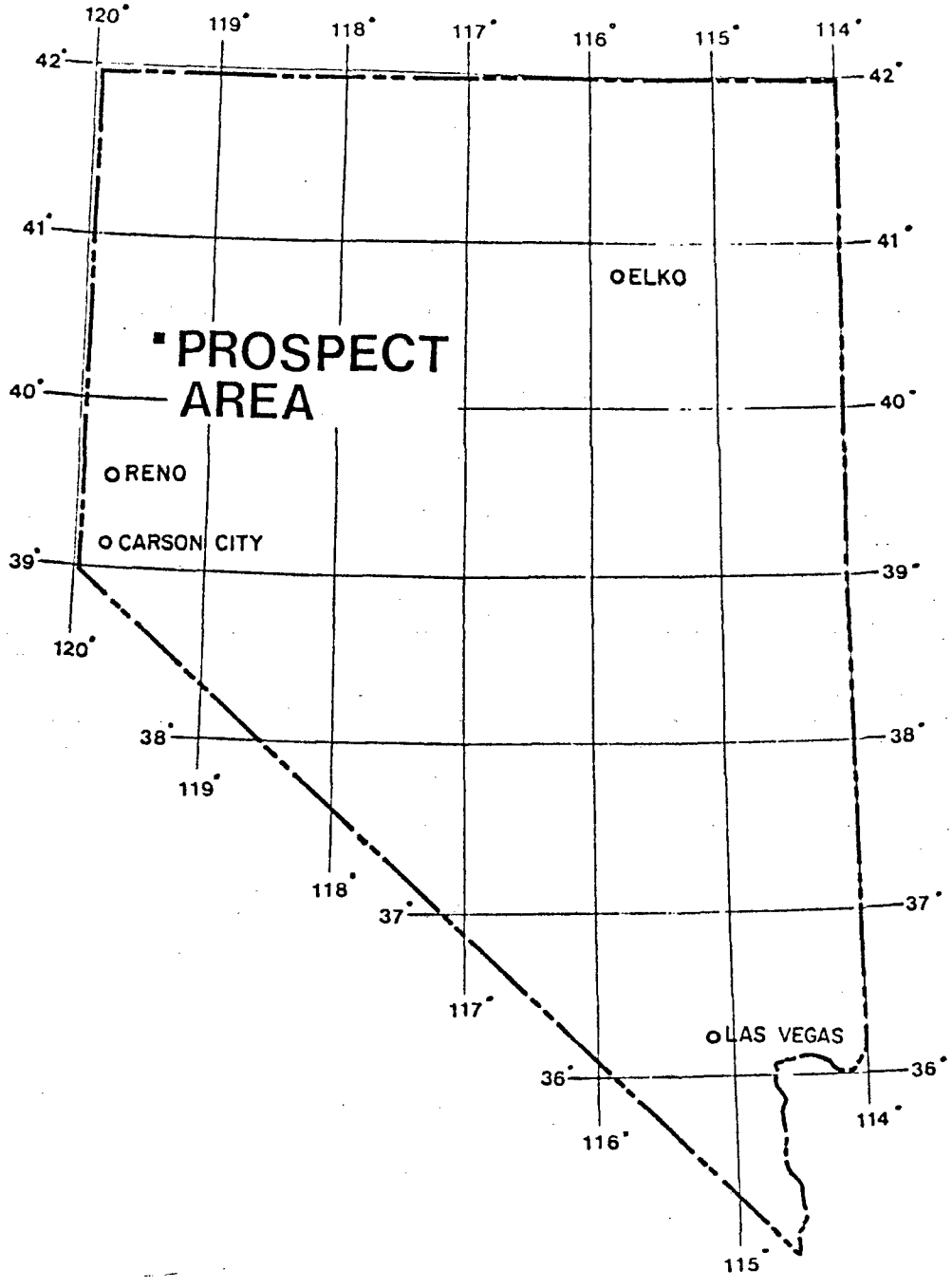

Figure 1. Location map of San Emidio Prospect.

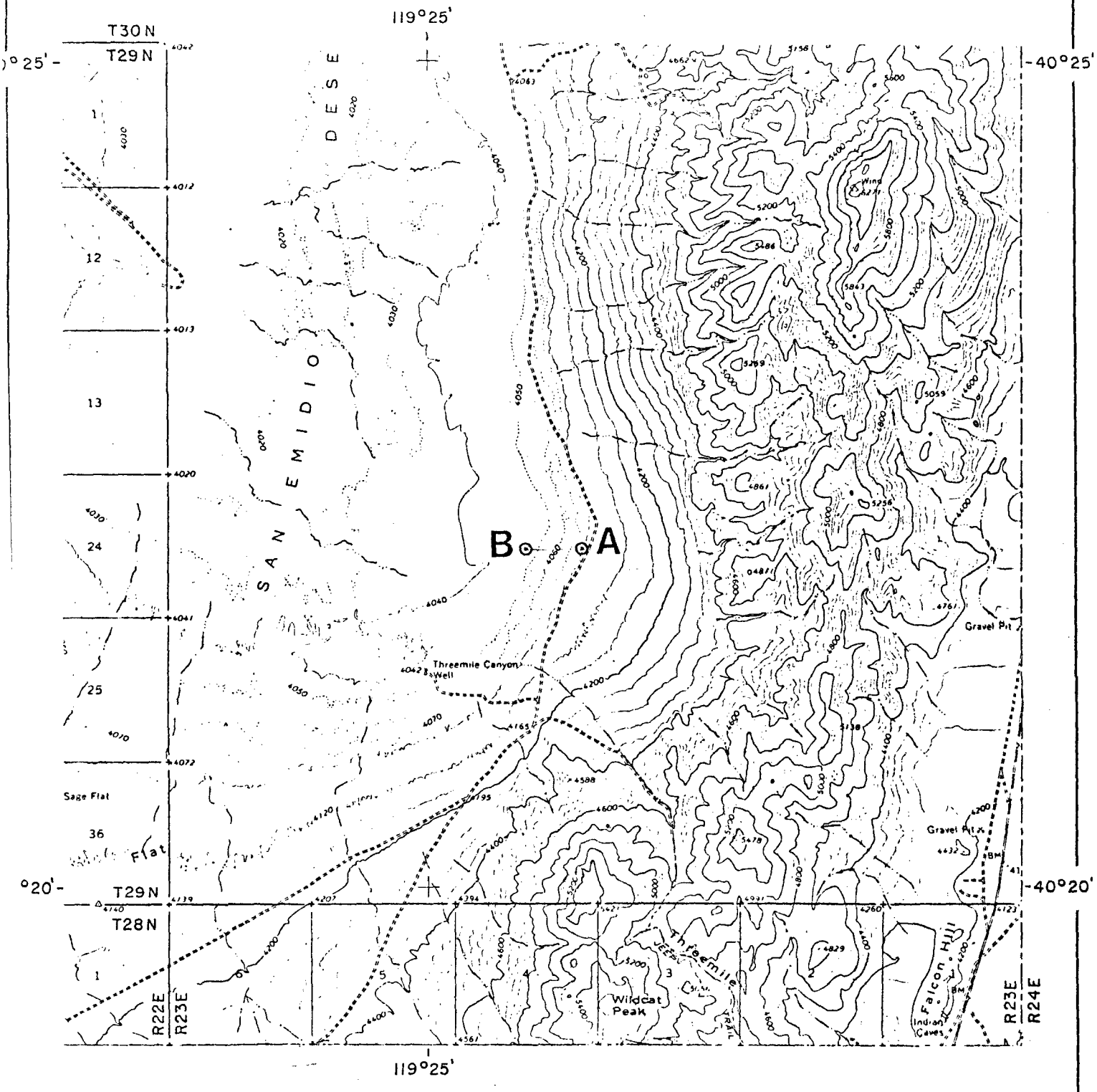

Figure 2. Location of the San Emidio drill holes.

Table 1

SUMMARY OF VITAL STATISTICS

S.E. #A

Date completed: July 28, 1976
Bottom hole depth: 500 feet (152.4 meters)
Date of last temperature measurement: July 31, 1976
Bottom Hole Temperature: 112.3°F (44.6°C)
Temperature probe used: Geonomics*
Uncorrect thermal gradient: 154.2°C/km
Uncorrect thermal gradient (depth of 50 feet and below): 149.1°C/km

S.E. #B

Date completed: July 29, 1976
Bottom hole depth: 176 feet (53.6 meters)-coring depth
Date of last temperature measurement: July 31, 1976
Bottom hole temperature: 222°F (105.6°C)
Temperature probe used: Geonomics*
Uncorrected thermal gradient: 1134.0°C/km
Uncorrected thermal gradient (depth of 50 feet and below): 1187.0°C/km

*Enviro-labs, Inc.
Model DT-101, Digital Thermometer
Range: 0-100°C
Accuracy: ± 0.3°C

APPENDIX I

DRILLING OPERATIONS LOG

IC. 75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO

DATE 7-26-76 LOCATION SAN EMIDIO DESERT, NEV

WELL No. SE1 #A

DRILLING TIME	TIME	DEPTH	COMMENTS
	0428		LEFT S.F FOR RENO.
	0907		ARRIVE RENO, NEV. & MET AL NETT, AT TRUCK STOP.
	1358		DRILLER ARRIVED AT TRUCK STOP WITH RIG.
	1417		LEFT FOR SAN EMIDO
	1643		AL NETT & FLEINER WENT TO LOCATE SITE #A.
	1723		RIG LEFT HIGHWAY FOR SITE #A.
	1742		RIG ARRIVED SITE A & BEGAN SETTING UP. COULD NOT FIND A H_2O SOURCE IN AREA TO ENABLE FILLING H_2O TRUCK.
	1810		POSITIONED MUD PIT. HAD TROUBLE POSITIONING RIG JACKS, BECAUSE OF SOFTNESS OF GROUND
	1815		A GREAT DEAL OF CALCAREOUS TUFA, PRESENT AT SURFACE OF SITA #A AREA.
1 HR 2 MINS	1844		SHUT DOWN FOR NIGHT

IC. 75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE 7-27-76 LOCATION SAN EMIDIO DESERT, NEV'
WELL No. SE. #A

DRILLING TIME	TIME	DEPTH	COMMENTS
	0730		LEFT GARLOCK TO LOCATE H2O SOURCE
	0707		START FILLING H2O TRUCK AT HOT SPRINGS OUTSIDE OF GARLOCK
	0737		LEFT FOR SITE #A
	0843		DRILLERS ARRIVED SITE #A & BEGAN SETTING UP.
	0918		BEGAN FILLING MUD PIT. ADD 1-SACK QUIK-GEL TO PIT.
	0929	0'	START SPUDDING. MUD TEMP = 96°F
	0952	15'-16'	RX SMP #1. MUD TEMP = 96°F
	0954	20'	END SPUDDING. ~~ROD #1~~
	0958	20'	START ROD #1
	1003	25'-28'	RX SMP #2 MUD TEMP = 96°F
	1009	40'	END ROD #1
	1012	40'	START ROD #2
	1014	45'-48'	RX SMP #3 MUD TEMP = 94°F (H2O TABLE?)
	1018	60'	END ROD #2 DRILL RATE ≈ 3'/MIN.
	1022	60'	START ROD #3
	1023	60'-62'	RX SMP #4 MUD TEMP = 93°F.

IC 75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE 7-27-76 LOCATION SAN. EMIDIO DESERT, NEV.
WELL No. SE # A

DRILLING TIME	TIME	DEPTH	COMMENTS
	1033	74'-76'	RX SMP #5 MUD TEMP = 93°F LOSING H2O AT LESS THAN 0.5 GAL/MIN
	1035	80'	END ROD #3
	1040	80'	START ROD #4 BIT "CHATTERING" FREQUENTLY
SLOW DRILL RATE (≈ 0.1'/MIN.	1049	90'-92'	RX SMP #6 MUD TEMP = 94°F BIT "CHATTERING" ALMOST CONSTANTLY.
	1057	93'	SMALL WASHOUT AT NECK OF MUD PIT. PACKED WITH QUIK-GEL
	1106	93'	RESUME DRILLING ADD 1-SACK OF QUIK-GEL
DRILL RATE INCREASE (≈ 1'/MIN.	1202	99'	BIT CEASED "CHATTERING"
	1203	100'	END ROD #4.
	1207	100'	START ROD #5
	1209	101'	BIT "CHATTERING" OCCASIONALLY.
	1212	105'-107'	RX SMP #7 MUD TEMP = 98°F.
≈ 1'/MIN.	1228	120'	END ROD #5
	1232	120'	START ROD #6
	1233	120'-133'	RX SMP #8 MUD TEMP = 98°F. SLOW LOSS OF H2O FROM MUD PIT CONTINUES; ADD 1-BAG QUIK-GEL + 1-SACK OF KWIK-SEAL + ½ BAG QUIK-TROL.
	1259	137'-139'	RX SMP #9 MUD TEMP = 98°F. CIRCULATION LOSS HAS CEASED

IC 75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE 7-27-76 LOCATION SAN EMIDIO DESERT, NEV.
WELL No. SE #A

DRILLING TIME	TIME	DEPTH	COMMENTS
	1254	140'	END ROD #6
	1256	140'	START ROD #7
	1258	141'	BIT "CHATTERING" HAS CEASED.
	1307	150-157'	RX SMP #10 MUD TEMP = 98°F
	1309	160'	END ROD #7
	1310	160'	BEGAN PULLING OUT OF HOLE, TO ALLOW LOOSE ROCK IN UPPER HOLE, WHICH HAS BEEN JAMMING IT SELF IN HOLE, TO FALL INTO HOLE + THEN DRILL THROUGH IT
	1324	160'	PULLED BIT OUT; BIT WORN REPLACED WITH NEW BIT
	1329	160'	START RE-ENTERING HOLE.
	1336	160'	START ROD #8
	1343	165-170'	RX SMP #11 MUD TEMP = 96°F
	1354	180'	END ROD #8
	1356	180'	START ROD #9
	1401	180-190'	RX SMP #12 MUD TEMP = 96°F
	1406	195-197'	RX SMP #13 MUD TEMP = 96°F.
	1410	200'	END ROD #9
	1413	200'	START ROD #10

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WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE 7-27-76 LOCATION SAN EMIDIO DESERT, NEV
WELL No. SE #A

DRILLING TIME	TIME	DEPTH	COMMENTS
	1421	210'-215'	RX SMP #14 MUD TEMP. =97°F
	1424	220'	END ROD #10
	1427	220'	START ROD #11
	1431	225'-227'	RX SMP #15 MUD TEMP = 97°F
	1440	240'	END ROD #11
	1443	240'	START ROD #12
	1446	240'-246'	RX SMP #16 MUD TEMP - 97°F
	1453	255'-259'	RX SMP #17 MUD TEMP = 97°F
	1456	260'	END ROD #12
	1459	260'	START ROD #13
	1506	270'-276'	RX SMP #18 MUD TEMP = 98°F
	1513	280'	END ROD #13
	1516	280'	START ROD #14
	1523	285-290'	RX SMP #19
	1525	292'	ADD 1/2-GAL BARA-FOS TO MUD PIT, TO SETTLE OUT SAND
	1530	300'	END ROD #14
	1532	300'	START ROD #15

WELL LOG

IC 75-192

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE 7-27-76 LOCATION SAN EMIDIO DESERT, NEV.
WELL No. S.E. #A

DRILLING TIME	TIME	DEPTH	COMMENTS
	1535	~~280'-286'~~ 300'-306'	RX SMP #20 MUD TEMP = 99°F.
	1545	317'-320'	RX SMP #21 MUD TEMP = 99°F
	1545	320'	END ROD #15
	1546		H_2O TRUCK EMPTY; LEFT FOR H_2O HOLE.
	1547		PULLED BIT UP 20' & SHUT OFF RIG.
	1749		H_2O TRUCK ARRIVED; CLEANED OUT MUD PIT
	1803		BEGAN PULLING BIT UP.
	1810		PULLED BIT UP 120' FROM BOTTOM.
~~15~~ 9 HRS 30 MINS	1813		SHUT DOWN FOR NIGHT.

IC 75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.117 PROSPECT SAN EMIDIO
DATE 7-28-76 LOCATION SAN EMIDIO DESERT, NEV.
WELL No. S.E. #A

DRILLING TIME	TIME	DEPTH	COMMENTS
	0749		DRILLERS ARRIVED + BEGAN RIG. MAINT. + PREPS FOR DRILLING
	0817		REPOSITIONED RIG JACKS, BECAUSE OF RIG SETTLING INTO SOFT GROUND
	0827		START LOWERING BIT TO BOTTOM OF HOLE
	0833		START FILLING MUD PIT
	0846	320'	START ROD #16
	0851	330'-335'	RX SMP #22 MUD TEMP = 80°F
	0901	340'	END ROD #16
	0905	340'	START ROD #17
	0912	345'-350'	RX SMP #23 MUD TEMP = 82°F CLEAN SAND FROM MUD PIT
	0917	360'	END ROD #17
	0932	360'	START ROD #18
	0938	360'-364'	RX SMP #24 MUD TEMP = 83°F.
	0944	375'-380'	RX SMP #25 MUD TEMP = 84°F
	0944	380'	END ROD #18
	0947	380'	START ROD #19
	0952	391'	LITHOLOGY CHANGE; GREEN CLAY.
	0957	395'-399'	RX SMP #26 MUD TEMP = 85°F
	0959	400'	END ROD #19

IC-75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76-112 PROSPECT SAN EMIDIO

DATE 7-28-76 LOCATION SAN EMIDIO DESERT, NEV.

WELL No. SE #A

DRILLING TIME	TIME	DEPTH	COMMENTS
	1002	400'	START ROD #26 BIT "CHATTERING" CONSTANTLY.
	1007	410'-418'	RX SMP #26 MUD TEMP = 86°F.
	1009	420'	END ROD #20
	1014	420'	START ROD #21
	1018	425'-435'	RX SMP #27 MUD TEMP = 87°F.
	1023	440'	END ROD #21
	1027	440'	START ROD #22
		440'-451'	RX SMP #28 MUD TEMP = 87°F
	1035	455'-460'	RX SMP #29 MUD TEMP = 88 F
	1035	460'	END ROD #22
	1038	460'	START ROD #23
	1046	470-480'	RX SMP #30 MUD TEMP = 89°F.
	1046	480'	END ROD #23
	1050	480'	START ROD #24 BIT NOT "CHATTERING" AT ALL
	1056	485'-495'	RX SMP #32 MUD TEMP = 89°F NO CORE POSSIBLE DUE TO CLAY COMPOSITION OF LITHOLOGY.
	1058	500'	END ROD #24 CONTINUE CIRCULATING TO CLEAN HOLE.
	1112		BEGAN UNLOADING & MAKING UP TEMP. PROBE PIPE.

IC 75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO

DATE 7-28-76 LOCATION SAN EMIDIO DESERT, NEV.

WELL No. SE#A

DRILLING TIME	TIME	DEPTH	COMMENTS
	1214		BEGAN PULLING OUT OF HOLE
	1249		PULLED BIT OUT OF HOLE.
	1254		MOVED MUD PIT FROM HOLE.
	1256		START INSTALLING TEMP. PIPE
	1332		START FILLING 1ST 252' OF TEMP. PIPE WITH H2O.
	1352		RESUMED INSTALLING TEMP. PIPE.
	1450		FILLED NEXT 231' OF PIPE WITH H2O
	1513		ADD 12' PIECE OF PIPE, TOTAL LENGTH OF TEMP PIPE 495'
	1530		MOVED RIG OFF OF HOLE.
	1533		BEGAN FILLING HOLE WITH CUTTINGS + QUIT-GEL.
	1630		HOLE FILLED TO WITHIN 11' OF SURFACE WITH CUTTINGS + 1-SACK OF QUIK-GEL. HAD DIFFICULTY CAUSED BY CUTTINGS JAMMING AT CLAMP 3' BELOW SURFACE (TO SUPPORT PIPE IN CEMENT). NEEDED TO BLEAT UP BLOCKAGES ALMOST CONSTANTLY
	1634		PACKED FOR MOVE TO SITE #B
8 HRS SIMING	1640		RIG LEFT FOR SITE #B
TOTAL = 18	HRS SIMING		

WELL LOG

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GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE 7-28-76 LOCATION SAN EMIDIO DESERT, NEV
WELL No. SE #B

DRILLING TIME	TIME	DEPTH	COMMENTS
	1701		RIG ARRIVED AT S.E. #B & BEGAN SETTING UP.
	1735		FUELED RIG.
	1738		MUD PIT POSITIONED
	1743		FILLED MUD PIT
	1744		ADD 1-SACK QUIK-GEL TO MUD PIT
	1755		H_2O TRUCK LEFT FOR H_2O SOURCE; WILL LEAVE TRUCK OVERNIGHT & PICK UP FULL TRUCK IN MORNING.
	1810		SHUT DOWN RIG & LEFT TO PICK UP H_2O TRUCK DRIVER AT H_2O SOURCE
~~1~~ ~~10~~ HRS ~~46~~ ~~58~~ MINS	1847		DRILLER ARRIVED AT H_2O SOURCE & PICKED UP H_2O TRUCK DRIVER.
TOTAL = ~~1~~ HR			

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO

DATE 7-29-76 LOCATION SAN EMIDIO DESERT, NEV

WELL No. S.E. #B

DRILLING TIME	TIME	DEPTH	COMMENTS
	0744		DRILLER ARRIVED AT H2O SOURCE + DROPPED OFF H2O TRUCK DRIVER
	0821		DRILLER ARRIVED AT SE. #B + BEGAN PREPS FOR DRILLING
	0838		H2O TRUCK ARRIVED AT SE#B
	0854	0'	START SPUDDING MUD TEMP. = 76°F.
	0920	15'-16'	RX SMP #1 MUD TEMP = 78°F
	0924	20'	END SPUDDING
	0926	20'	START ROD #1
	0929	30'-33'	RX SMP #2 MUD TEMP = 83°F
	0934	40'	END ROD #1
	0938	40'	START ROD #2
	0940	45'-48'	RX SMP #3 MUD TEMP = 86°F
	0943	55'-57'	RX SMP #4 MUD TEMP = 90°F
	0945	60'	END ROD #2
	0946	60'	START ROD #3
	0947	64'	LITHOLOGY CHANGE
	0949	68'-78'	RX SMP #5 MUD TEMP = 92°F
	0950	80'	END ROD #3
	0954	80'	START ROD #4

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WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76-112 PROSPECT SAN EMIDIO
DATE 7-29-76 LOCATION SAN EMIDIO DESERT, NEV.
WELL No. S.E.#13

DRILLING TIME	TIME	DEPTH	COMMENTS
	0959	85'-90'	RX SMP #6
			MUD TEMP = 96°F.
			DRILLER SLOWED DRILL RATE, TO
			AVOID PACKING CLAY AROUND DRILL
			PIPE + CAUSE LOSS OF CIRCULATION
	1002	100'	END ROD #4
	1005	100'	START ROD #5
	1006	100'-108'	RX SMP #7
			MUD TEMP = 101°F
	1013	120'	END ROD #5
	1017	120'	START ROD #6
	1017	120-122'	RX SMP #8 (SLIGHT SULFUR ODOR)
			MUD TEMP = 107°F
	1023	124-126'	RX SMP #9 (PYRITE FLAKES)
			MUD TEMP = 108°F.
	1037	135'	BIT "CHATTERING"
	1039	136'-138'	RX SMP #10
			MUD TEMP = 113°F.
	1045	140'	END ROD #6
	1049	140'	START ROD #7
	1057	142'	BIT "CHATTERING" INTENSELY
			+ INTENSELY CONSTANTLY.
	1106	142'-194'	RX SMP #11 (SMP GROUND (1/2-3/4") TO SAND SIZE
			MUD TEMP = 114°F
			ADD 1/2 GAL OF BARA-FOS.
	1116	148'-149.5	BIT "CHATTER" CEASED
	1117	149.5	BIT "CHATTERING" RESUMED

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76-112 PROSPECT SAN EMIDIO
DATE 7-29-76 LOCATION SAN EMIDIO DESERT, NEV
WELL No. S.E. #B

DRILLING TIME	TIME	DEPTH	COMMENTS
	1130	156'	MUD TEMP = 119°F
	1145	160'	END RON #7 MUD TEMP = 120°F
	1148	160'	START RON #8
	1152	160'-163'	RY SMP #12 MUD TEMP = 120°F
	1155	168'	BIT "CHATTER" CEASED MUD TEMP = 122°F
	1157	170'-172	RY SMP #13 MUD TEMP = 123°F BIT "CHATTERING" INTERMITTENTLY
	1159	175'	CEASED DRILLING, BEGAN CIRCULATING IN PREP. FOR CORING. MUD TEMP = 124°F ADD 1-BAG QUIK-TROL TO MUD PIT
	1212	175'	START PULLING OUT OF HOLE
	1215		TEMP PIPE + CEMENT ARRIVED
	1218		TEMP PIPE DELIVERY MAN KEPT 15 #21' SECTIONS (315'), TO BE KEPT AT CASING CO. YARD FOR CHEVRON. PIPE WAS NOT NEEDED, DUE TO SHALLOWNESS OF S.E. #B (≈160') + NO ROOM AVAILABLE ON DRILLERS TRUCKS TO CARRY MORE PIPE
	1318		SECURED 500' OF TEMP. PIPE ON TOP OF H2O TRUCK
	1335		RESUMED PULLING OUT OF HOLE

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76-112 PROSPECT SAN EMIDIO
DATE 7-29-76 LOCATION SAN EMIDIO DESERT, NEV
WELL No. S.E. #B

DRILLING TIME	TIME	DEPTH	COMMENTS
	1339		PULLED BIT OUT OF HOLE.
	1348		START CORING RUN
	1418	175'	BEGAN CORING MUD TEMP = 124°F
	1435	176'	MUD TEMP = 125°F CEASED CORING. TEMP. FINALLY REACHED 129°F.
	1436	176'	BEGAN PULLING CORING TOOL OUT OF HOLE.
			PULLED CORING TOOL OUT OF HOLE. RECOVERED ≈ 6.5" OF CORE OUT OF 1' CORED. BRECCIA WITH GREEN APHANITIC GROUND MASS, WITH PYRITE X-L'S, CARBONATE PARTICLES + CARBONATE VEINING.
	1516		BEGAN EMPTYING MUD PIT.
	1523		START MAKING UP TEMP PIPE,
	1545		START INSTALLING TEMP. PIPE.
	1629		BEGAN FILLING 1ST 168' OF PIPE, WITH H_2O.
	1632		INSTALLED 8' PIECE OF PIPE, TOTAL = 176' OF TEMP PIPE
	1716		MOVED RIG FROM HOLE
	1717		BEGAN PACKING-UP FOR MOVE TO SE #C
	1726		LEFT TO CEMENT SE #A

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 7[illegible]2 PROSPECT SAN EMIDIO

DATE 7-29-76 LOCATION SAN EMIDIO DESERT, NEV

WELL No. S.E #B

DRILLING TIME	TIME	DEPTH	COMMENTS
	1738		ARRIVED SITE ~~#~~ A +
			BEGAN CEMENTING.
	1833		STOPPED CEMENTING SE #A)
			HAD A HARD TIME GETTING
			CEMENT PAST A BLOCK
	1835		SHUT DOWN FOR NIGHT

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76-112 PROSPECT SAN EMIDIO
DATE 7-30-76 LOCATION SAN EMIDIO DESERT, NEV.
WELL No. S.E. #C

DRILLING TIME	TIME	DEPTH	COMMENTS
	0707		H_2O TRUCK LEFT OAKLEAF FOR H_2O SOURCE ON EDGE OF TOWN.
	0733		H_2O TRUCK LEFT FOR S.E. #A.
	0839		H_2O TRUCK ARRIVED SE #A + FILLED HOLE WITH AN ADDITIONAL ≈ 1/2 SACK OF CEMENT + AGGREGATE. CEMENT WAS DIFFICULT TO FORCE INTO HOLE DUE TO BLOCKAGES.
	0923		LEFT S.E. #A TO PICK UP RIG AT SE #B, IN PREP FOR MOVEMENT TO SE #C.
	0935		ARRIVE S.E #B + BEGAN SERVICING RIG.
	0945		LEAVE S.E. #B FOR SE #C
	0957		CROSSED WASH, PROCEEDED ≈ 50', RIG SUNK INTO SOFT GROUND UP TO [redacted] AXLES.
	1010		FLEINER + DRILLER LEFT TO CALL CHEVRON + THEN HIRE A CAT.
	1107		CALLED CHEVRON + REPORTED RIG BEING STUCK + THEN STARTED OUT WITH CAT. EAT SE #B + THEN TO RIG.
	1248		CAT. ARRIVED AT RIG.
	1402		RIG PULLED FREE OF SOFT GROUND AREA.

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE 7-30-76 LOCATION SAN EMIDIO DESERT, NEV.
WELL No. GEO #C

DRILLING TIME	TIME	DEPTH	COMMENTS
	1607		FLEINER + DRILLER STARTED OFF TO RETURN CAT.
	1437		FLAT-BED TRUCK ARRIVED, WHILE RETURNING CAT TO RANCH + PICKED UP CAT
	1449		ARRIVED AT SITE #B.
	1456		BOTTOM HOLE TEMP. OF S.E. #B IS 100°C + (176'); 166' TEMP = 98.7°C 156' TEMP = 97.4°C
	1618		CEMENTED ≈ UPPER 13' OF HOLE, WITH 2½ BAGS OF CEMENT + ALSO FINISHED DISTRIBUTING CUTTINGS AROUND DRILL SITE AREA
	1623		FLEET WITH VEHS. FOR SITE #4
	1635		RIG ARRIVED SITE #4 + BEGAN DISTRIBUTING CUTTINGS AROUND AREA.
	1712		FINISHED CLEANING UP S.E. #A. DRILLER + FLEINER CHECKED ON ANY OTHER POSSIBLE ACCESS TO S.E. #D. CLOSEST APPROACH TO SE #D SITE WAS ≈ 320' TO THE EAST, BEFORE SOFT GROUND ENCOUNTERED
	1723		SHUT DOWN FOR NIGHT

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76112 PROSPECT SAN EMIDIO
DATE 7-31-76 LOCATION SAN EMIDIO DESERT, NEV.
WELL No.

DRILLING TIME	TIME	DEPTH	COMMENTS
	0732		BEGAN PACKING FOR MOVE TO ROOSEVELT HOT SPRS. UTAH.
	0834		LEFT GERLACH FOR SAN EMIDIO DESERT
	0938		ARRIVED SAN EMIDIO RANCH + MADE ARRANGEMENTS TO STORE ≈ 450' TEMP PIPE + 80' OF 6" CASING.
	1046		BEGAN MEASURING SE #B + LOADING TEMP. PIPE FOR TRANSPORT TO RANCH.
	1300		BEGAN MEASURING SE. #A
	1357		BEGAN LOADING ≈ 1000' OF TEMP PIPE ONTO H_2O TRUCK. TRADED 9-SACKS OF CEMENT TO PEOPLE AT SAN EMIDIO RANCH IN PAYMENT FOR 3-TRUCK LOADS OF H_2O, ≈ 3 HRS. USE OF CAT, USED TO PULL DRILL RIG OUT OF SOFT GROUND ON THE PREVIOUS DAY + STORAGE OF TEMP PIPE + CASING.
	1410		RAIN BEGAN IN SAN EMIDIO DESERT
	1450		LEFT SE #B FOR UTAH
	1916		ARRIVED FRENCHMAN STATION NEV. + STOPPED FOR NIGHT.

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76-112
DATE 8-1-76
WELL No.
PROSPECT
LOCATION

DRILLING TIME	TIME	DEPTH	COMMENTS
	0803		LEFT FRENCHMAN, NEV.
	1117		ARRIVE AUSTIN, NEV.
	1521		ARRIVE ELY, NEV.
	2117		ARRIVE MILFORD, UTAH.

APPENDIX II

SAMPLE IDENTIFICATION FROM DRILL HOLES

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO

DATE

LOCATION 2620'S & 500'W NE cor Sec 21 T 29N, R 23E

WELL No. S.E. #A

DRILLING TIME	TIME	DEPTH	COMMENTS
		15-16'	SMP #1 - Large ang. frags of calcareous tuffa, blue-grey slate, dacite? or andesite, unsolidified tan silt + clay. ang - sub-ang, fine - coarse sand.
		25'-28'	Smp #2 - ang. frags of calcareous tuffa, blue-grey slate, + dacite? or andesite, ? & unsolid. brown clay + silt.
		45'-48'	Smp #3 - ang. frags of blue-grey slate, and dacite? or andesite? unconsolid. brown clay + silt.
		60'-62'	Smp #4 - ang. frags of blue-grey slate + dacite? or andesite? unconsolid. brown clay + silt. weathered looking white carbonate.
		74'-76'	Smp #5 - Small ang. frags of blue-grey slate, and dacite? or andesite? ang to sub-ang, fine-coarse sand.
		90'-92'	Smp #6 - Large, ang frags of blue-grey slate, quartz, and dacite? or andesite, Brown clay + silt + carbonate, ang to sub-ang fine - coarse sand

(1)

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE LOCATION
WELL No. SE#A

DRILLING TIME	TIME	DEPTH	COMMENTS
		105'-107'	SMP#7 - Large, ang. frags of blue-grey slate, quartzy and dacite? or andesite?/ Brown clay + silt + carbonate ang. to sub-ang, fine - coarse sand.
		120'-123'	Smp #8 - ang. frags of blue-grey slate, quartzy and dacite? or andesite?/ with spots of pyrite in slate. Brown, clay + silt + carbonate. ang. to sub-ang, fine - coarse sand.
		~~150'-157'~~ 137'-139'	Smp #9 - ang. frags of blue-grey slate and dacite? or andesite?. Soft, brown clay or silt. ang. to sub-ang, fine - coarse sand.
		150'-157'	Smp #10 - 90% soft, brown clay + silt. ang. to sub-ang, fine coarse sand.
		165'-170'	Smp #11 - 90% soft brown clay + silt + some carbonate. ang. to sub-ang, fine coarse sand. ang. frags of blue-grey slate + dacite? or andesite?
		180'-190'	Smp #12 - 90% soft, brown clay + silt + some carbonate, ang. to sub-ang, fine-coarse sand. ang. frags of blue-grey slate + dacite? or andesite?.

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE
LOCATION
WELL No. SE.#A

DRILLING TIME	TIME	DEPTH	COMMENTS
		195'-197'	Smp #13 - 90% soft, brown clay + silt + some carbonate, ang. to sub-ang., fine-coarse sand, ang. frags. of blue-grey slate + dacite? or andesite?
		210'-215'	Smp #14 - 90% soft, brown clay + silt + some carbonate, ang. to sub-ang., fine-coarse sand, ang. frags. of blue-grey slate + dacite? or andesite?
		225'-227'	Smp #15 - Soft, brown clay + silt
		240'-246'	Smp #16 - Soft, brown clay + silt.
		255'-259'	Smp #17 - 90% soft, brown clay + silt, ang. to sub-ang., fine-coarse sand.
		270'-276'	#18 - 90% soft, brown clay + silt, ang. to sub-ang., fine-coarse sand.
		285'-240'	#19 - 90% soft, brown clay + silt, ang. to sub-ang., fine-coarse sand.
		300'-306'	#20 - 90% soft, brown clay + silt, ang. to sub-ang., fine-coarse sand

WELL LOG

10/75-192

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76-112 PROSPECT SAN EMIDIO
DATE LOCATION
WELL No. SE #A

DRILLING TIME	TIME	DEPTH	COMMENTS
		317-320'	#21 - 90% soft, brown clay + silt. ang to sub-ang, fine coarse sand.
		330-335'	#22 - 90% soft, brown clay + large amount of silt. ang to sub-ang, fine med. sand.
		345-350'	#23 - 95% soft, brown clay + large amount of silt. ang to sub-ang, fine med. sand.
		360-369'	#24 - 90% soft, brown clay + large amount of silt sub-ang to sub-rounded fine coarse sand.
		~~395-399'~~	~~#25 - Soft, green clay + silt + carbonate~~
		360-369'	#25 - 90% soft, brown clay + large amount of silt sub-ang to sub-rounded fine-coarse sand.
		395-399'	#26 - Soft, green clay + silt + carbonate
		410-418'	#27 - Soft, green clay + silt + carbonate.
		425-435'	#28 - Soft, green clay + silt + carbonate

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE
LOCATION
WELL No. S.E. #A

DRILLING TIME	TIME	DEPTH	COMMENTS
		440'-445'	#29 - Soft, green clay + silt + carbonate
		455'-460'	#30 - Soft, green clay + silt + carbonate
		470'-480'	#31 - Soft, green clay + silt + carbonate
		485'-495'	#32 - Soft, green clay + silt + carbonate

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO

DATE

LOCATION 2620'S & 2640'W fr. NE cor Sec 21 T 29N-R 23E

WELL No. S.E. #B

DRILLING TIME	TIME	DEPTH.	COMMENTS
		15'-16'	#1 - ANG FRAGS OF DARK-GREY FRIABLE SILTSTONE?, CONTAINING CARBONATE. SOFT, GREY CLAY & SILT.
		30'-33'	#2 - Uncompolid grey clay + silt + carbonate ang, fine - coarse sand ang, frags of friable, grey siltstone?
		45'-48'	#3 - dark - grey clay + silt + carbonate ang, fine - coarse sand. ang frags of dark - grey friable siltstone?
		55'-57'	#4 - Soft, grey clay + silt + carbonate ang, fine - coarse sand.
		68'-78'	#5 - Soft, grey clay + silt + carbonate ang frags of grey friable siltstone? ang, fine - coarse sand.
		85'-90'	#6 - Firm, grey - green clay + silt + carbonate ang to sub - ang, fine - coarse sand. ang frags of dark - green ark? # large amount of pyrite
		100'-108'	#7 - Hard, green clay + silt + carbonate + pyrite ang to sub - ang, fine - coarse sand

10/75-192

WELL LOG

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE
LOCATION
WELL No. SE.#B

DRILLING TIME	TIME	DEPTH	COMMENTS
		120'-122'	#8 - Hard, grey-green clay + silt + carbonate + pyrite. ang. to sub-ang., fine-coarse sand.
		134'-136'	#9 - Firm dark-green clay + silt + carbonate + pyrite ang. to sub-rounded fine-coarse sand.
		136'-138'	#10 - Firm, grey-green clay + silt + carbonate ang. frags of dark green rx? + large amount of pyrite.
		142'-144'	#11 - Poorly consolid. grey clay + silt ang. frags of grey friable siltstone? + carbonate + pyrite
		160'-163'	#12 - Poorly consolid. grey-green clay + silt + carbonate ang. frags of grey friable siltstone ? ang. fine-coarse sand
		170'-172'	#13 - Soft grey clay + silt + carbonate + pyrite ang. fine-coarse sand and frags of grey friable siltstone ?

APPENDIX III

TEMPERATURE DATA; FIELD OBSERVATIONS

TEMPERATURE DATA

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112 PROSPECT SAN EMIDIO
DATE 7-31-76 LOCATION S.E. # A

TIME	OBSERVATION DEPTH	TEMPERATURE °C	INSTRUMENT No.	COMMENTS
1300	10'	20.38	1	IN AIR
1302	20'	20.29	"	" "
1304	30'	21.03	"	IN IN 1 and
1306	40'	22.50	"	
1308	50'	23.22	"	
1310	60'	23.81	"	
1312	70'	24.44	"	
1314	80'	24.97	"	
1316	90'	25.62	"	
1318	100'	26.12	"	
1320	120'	27.02	"	
1322	140'	27.85	"	
1324	160'	28.52	"	
1326	180'	29.42	"	
1328	200'	30.30	"	
1330	220'	30.91	"	
1332	240'	31.68	"	
1334	260'	32.74	"	
1336	280'	33.53	"	
1338	300'	34.97	"	
1340	320'	35.27	"	
1342	340'	36.23	"	
1346	360'	37.18	"	
1349	380'	38.14	"	
1352	400'	39.25	"	
1355	420'	40.39	"	
1358	440'	41.28	"	
1401	460'	42.31	"	
1404	480'	43.38	"	
1408	495'	44.59	"	

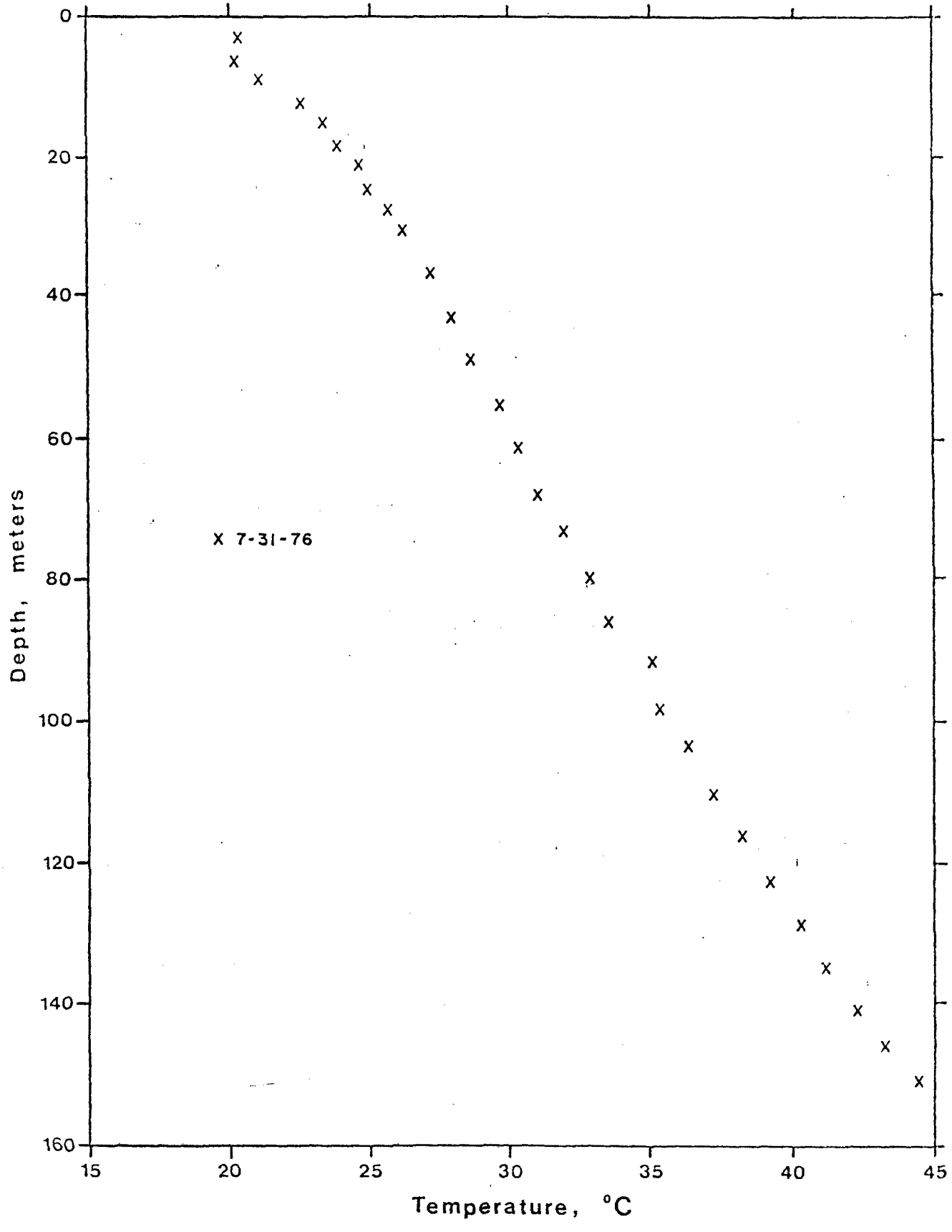
TEMPERATURE DATA

GEONOMICS, INC.
3165 Adeline Street, Berkeley, CA 94703

JOB No. 76-112 PROSPECT SAN EMIDIO

DATE 7-31-76 LOCATION S.E. II B

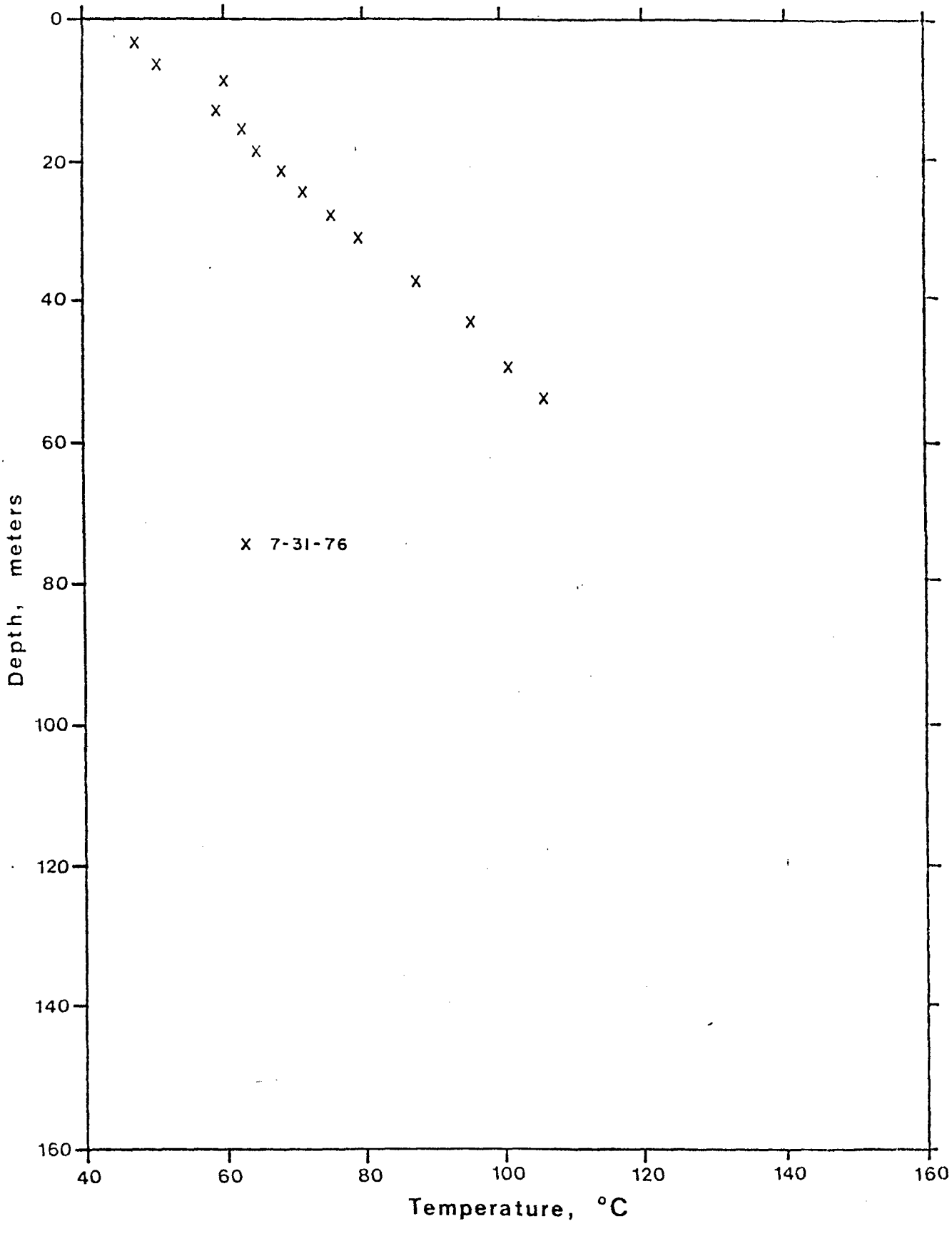
TIME	OBSERVATION DEPTH	TEMPERATURE °C	INSTRUMENT No.	COMMENTS
1046	10'	47.34	#1	IN H2O
1049	20'	50.58	11	
1052	30'	59.70	11	
1055	40'	59.49	11	
1059	50'	62.53	11	
1102	60'	64.19	11	
1105	70'	68.00	4	
1108	80'	71.22	4	
1111	90'	75.23	4	
1114	100'	78.86	11	
1117	120'	87.18	11	
1120	140'	94.91	11	
1123	160'	[redacted] 100.02	4 MAX. REGIST. THERMOMETER	(105.56°C)
1204	176'	222°F		


0
20
40
60
80
100
120
140
160
Depth, meters
X 7-31-76
15
20
25
30
35
40
45
Temperature, °C

S.E. #A

APPENDIX IV

UNCORRECTED TEMPERATURE VERSUS DEPTH PLOTS


0
20
40
60
80
100
120
140
160
Depth, meters
X 7-31-76
40
60
80
100
120
140
160
Temperature, °C

S.E #B

APPENDIX V

UNCORRECTED TEMPERATURE GRADIENT COMPUTER CALCULATIONS

COMPUTER TEMPERATURE GRADIENT/HEAT FLOW CALCULATIONS

Computer Output Format:

Depth	=	Depth in meters to position in borehole. For uncorrected case, depths are in accordance with raw data. For steady state case, depths are from a computed function due to topographic and geologic corrections.
Temperature	=	Corresponding temperature at given depth in °C.
Smooth	=	Machine generated smoothed temperature in °C.
Residual	=	Difference between temperature and smoothed temperature in °C.
Grad	=	Calculated temperature gradient in °C/km.
Ster	=	Value of two student T-tests for 95% confidence limit.
95CL	=	95% confidence limit.

Note: Ster and 95CL = 0 when only one value is used.

SE =A

HEAT FLOW BY LINEAR FITTING OF UNCORRECTED DATA

DEPTH	TEMPRATURE	SMOOTH	RESIDUAL
3.05	20.360	21.148	-.768
6.10	20.290	21.618	-1.328
9.14	21.030	22.087	-1.057
12.19	22.500	22.558	-.058
15.24	23.220	23.028	.192
18.29	23.810	23.498	.312
21.34	24.440	23.969	.471
24.38	24.970	24.438	.532
27.43	25.620	24.908	.712
30.48	26.120	25.378	.742
36.58	27.020	26.319	.701
42.67	27.850	27.258	.592
48.77	28.520	28.199	.321
54.86	29.420	29.138	.282
60.96	30.300	30.079	.221
67.06	30.910	31.020	-.110
73.15	31.680	31.959	-.279
79.25	32.740	32.899	-.159
85.35	33.530	33.840	-.310
91.44	34.970	34.779	.191
97.54	35.270	35.720	-.450
103.63	36.230	36.659	-.429
109.73	37.180	37.600	-.420
115.83	38.190	38.541	-.351
121.92	39.250	39.480	-.230
128.02	40.390	40.421	-.031
134.11	41.280	41.360	-.080
140.21	42.310	42.301	.009
146.31	43.380	43.241	.139
150.88	44.590	43.946	.644

GRAD= 154.218 DEG/KM

STER= 2.05 DEG/KM
95CL= 4.72 DEG/KM

SE #8

HEAT FLOW BY LINEAR FITTING OF UNCORRECTED DATA

DEPTH	TEMPRATURE	SMOOTH	RESIDUAL
3.05	47.340	48.366	-1.026
6.10	50.580	51.824	-1.244
9.14	59.700	55.272	4.428
12.19	59.490	58.730	.760
15.24	62.530	62.189	.341
18.29	64.190	65.648	-1.458
21.34	68.000	69.106	-1.106
24.38	71.220	72.554	-1.334
27.43	75.230	76.012	-.782
30.48	78.860	79.471	-.611
36.58	87.180	86.388	.792
42.67	94.910	93.294	1.616
48.77	100.020	100.211	-.191
53.65	105.560	105.745	-.185

GRAD= 1133.987 DEG/KM

STER= 28.67 DEG/KM
95CL= 66.17 DEG/KM