

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.

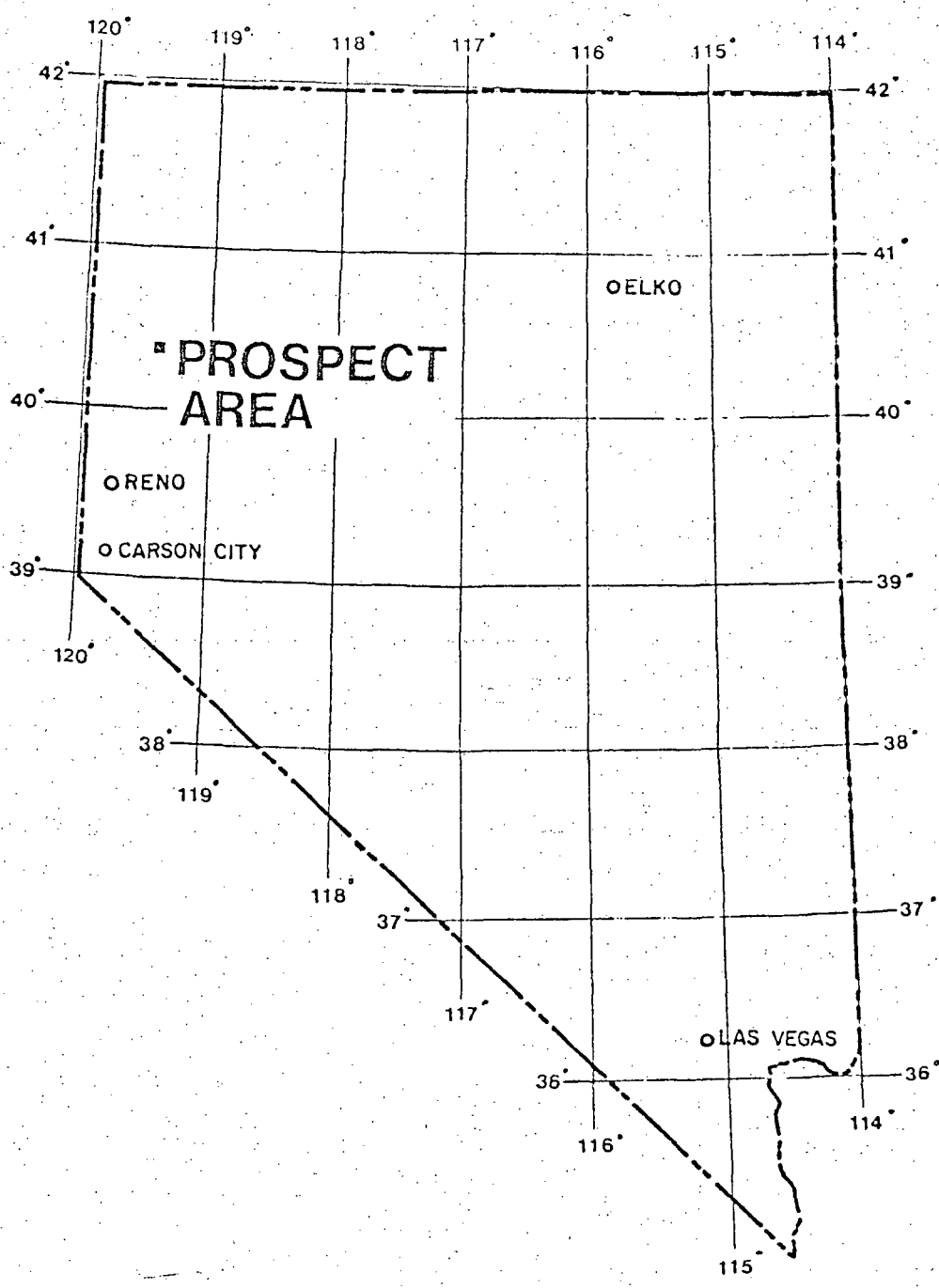


Figure 1. Location map of San Emidio Prospect.

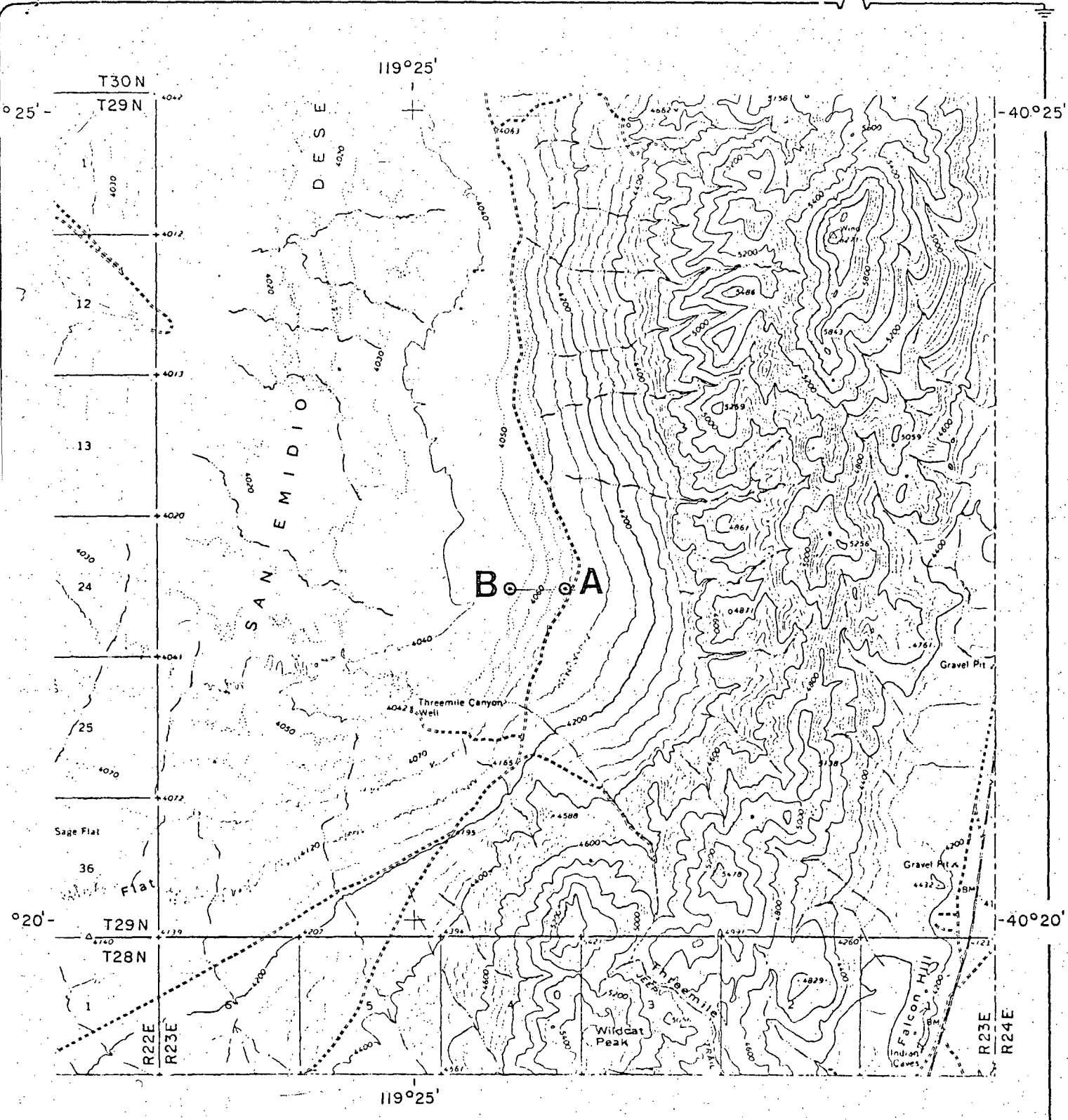


Figure 2. Location of the San Emidio drill holes.



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



# WELL LOG



JOB No.

76.112

PROSPECT

SAN EMIDIO

DATE

7-27-76

LOCATION

SAN EMIDIO  
DESERT, NEV'

WELL No.

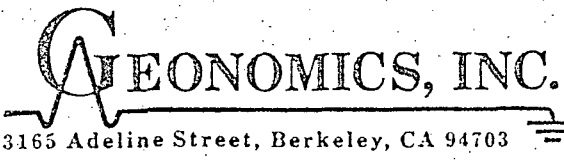
SE. #A

3165 Adeline Street, Berkeley, CA 94703

DRILLING TIME	TIME	DEPTH	COMMENTS
	0730		LEFT GARLOCK TO LOCATE H <sub>2</sub> O SOURCE
	0707		START FILLING H <sub>2</sub> O TANK 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.
	0939	0'	START SPUDDING. MUD TEMP = 96°F
	0952	15'-16'	RX SMP #1. MUD TEMP = 96°F
	0954	20'	END SPUDDING. END 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 (H <sub>2</sub> O 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

# WELL LOG

IC 75-192



JOB No. 76-112 PROSPECT SAN EMIDIO  
 DATE 7-27-74 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 H <sub>2</sub> O AT LESS THAN 0.5 GALS/MIN
	1035	780'	END ROD #3
	1040	80'	START ROD #4 BIT "CHATTERING" FREQUENTLY
<small>SLOW DRILL RATE (~0.1'/MIN)</small>	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
<small>DRILL RATE INCREASE (~1'/MIN)</small>	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
<small>~1'/MIN</small>	1228	130'	END ROD #5
	1232	130'	START ROD #6
	1233	120'-133'	RX SMP #8 MUD TEMP = 98°F SLOW LOSS OF H <sub>2</sub> O FROM MUD PIT CONTINUES; ADD 1-BAG QUIK-GEL + 1-SACK OF QUIK-SEAL + 1/2 BAG QUIK-TROL.
	1254	137'-139'	RX SMP #9 MUD TEMP = 98°F CIRCULATION LOSS HAS CEASED

## WELL LOG

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

JOB No.

76112

PROSPECT

SAN EMIDIO

DATE

7-27-76

LOCATION

SAN EMIDIO  
DESERT, NEV.

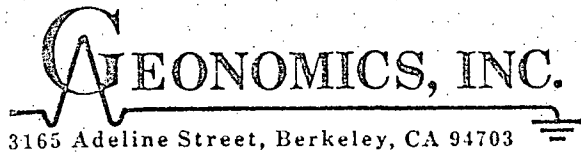
WELL No.

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'	R X SMP # 10 MUD TEMP = 98°F
	1309	160'	END ROD #7
	1310	160'	BEGAN PULLING OUT OF HOLE, TO ALLOW <sup>LOOSE</sup> A ROCK IN UPPER HOLE, WHICH HAS BEEN JAMMING ITSELF 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'	R X SMP # 11 MUD TEMP = 96°F
	1354	180'	END ROD # 8
	1356	180'	START ROD # 9
	1401	180'-190'	R X SMP # 12 MUD TEMP = 96°F
	1406	195'-197'	R X SMP # 13 MUD TEMP = 96°F.
	1410	200'	END ROD # 9
	1413	200'	START ROD # 10

# WELL LOG

IC 75-192



JOB No. 76.112

PROSPECT SAN EMIDIO

DATE 7-27-76

LOCATION SAN EMIDIO  
DESERT, NEW

WELL No. SE # A

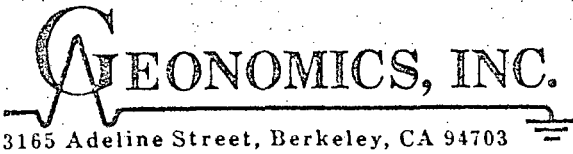
DRILLING TIME	TIME	DEPTH	COMMENTS
	1421	216'-215'	RX SMP #14 MUD TEMP = 97°F
	1424	220'	END ROD #10
	1427	220'	START ROD #11
	1431	225'-227'	RX SMP #15 MUD TEMP = 97°F
	1440	240'	END ROD #11
	1443	240'	START ROD #12
	1445	240'-246'	RX SMP #16 MUD TEMP = 97°F
	1453	255'-259'	RX SMP #17 MUD TEMP = 97°F
	1456	266'	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



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
<i>now</i>	0952	391'	LITHOLOGY CHANGE; GREEN CLAY.
	0957	395'-399'	RX SMP #26 MUD TEMP = 85°F
	0959	400'	END ROD #19

# WELL LOG

IC-75-192

**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 #31
			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.

# WELL LOG

10-75-192

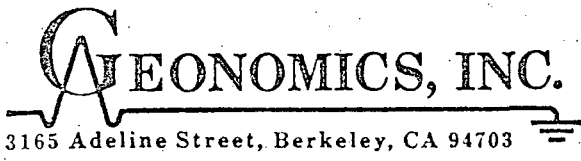
**GEONOMICS, INC.**  
 3165 Adeline Street, Berkeley, CA 94703

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
	12 14		BEGAN PULLING OUT OF HOLE
	12 49		PULLED BIT OUT OF HOLE.
	12 54		MOVED MUD PIT FROM HOLE
	12 56		START INSTALLING TEMP. PIPE
	13 32		START FILLING 1ST 252' OF TEMP. PIPE WITH H <sub>2</sub> O.
	13 52		RESUMED INSTALLING TEMP. PIPE.
	14 50		FILLED NEXT 231' OF PIPE WITH H <sub>2</sub> O
	15 13		ADD 129' PIECE OF PIPE, TOTAL LENGTH OF TEMP PIPE 495'
	15 30		MOVED RIG OFF OF HOLE.
	15 33		BEGAN FILLING HOLE WITH CUTTINGS + QUIK-GEL.
	16 30		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
	16 34		PACKED FOR MOVE TO SITE # B
8 HRS 51 MINS	16 40		RIG LEFT FOR SITE # B
TOTAL = 18	HRS 21 MINS		

# WELL LOG

10.75-192



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 SE.#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 <sub>2</sub> O TRUCK LEFT FOR H <sub>2</sub> O SOURCE; WILL LEAVE TRUCK OVERNIGHT + PICK UP FULL TRUCK IN MORNING
	1810		SHUT DOWN RIG + LEFT TO PICK UP H <sub>2</sub> O TRUCK DRIVER AT H <sub>2</sub> O SOURCE
1 10 HRS 58 MINS	1847		DRILLER ARRIVED AT H <sub>2</sub> O SOURCE + PICKED UP H <sub>2</sub> O TRUCK DRIVER.
TOTAL =			

# WELL LOG

10/75-192



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 H <sub>2</sub> O SOURCE & DROPPED OFF H <sub>2</sub> O TRUCK DRIVER
	0821		DRILLER ARRIVED AT SE.# B & BEGAN PREPS FOR DRILLING
	0838		H <sub>2</sub> O 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

# WELL LOG

10/75-192

## GEONOMICS, INC.

3165 Adeline Street, Berkeley, CA 94703

JOB No.

76.112

PROSPECT

SAN EMIDIO

DATE

7-29-76

LOCATION

SAN EMIDIO  
DESERT, NEV

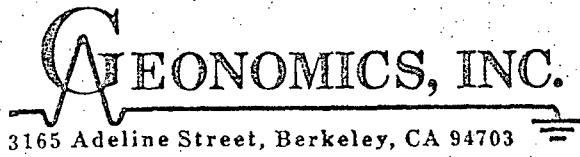
WELL No.

S.E.#13

DRILLING TIME	TIME	DEPTH	COMMENTS
	0959	85'-90'	RX SMP #4 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 SULEUR CONC) 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'-144'	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

# WELL LOG

10/75-192



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 ROD #7 MUD TEMP = 120°F
	1148	160'	START ROD #8
	1152	160'-163'	R & S MP #12 MUD TEMP = 120°F
	1155	168'	BIT "CHATTER" CEASED MUD TEMP = 122°F
	1157	170'-172'	R & S MP #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 SE. #B (≈120') ± NO ROOM AVAILABLE ON DRILLERS TRUCKS TO CARRY MORE PIPE
	1318		SECURED 500' OF TEMP. PIPE ON TOP OF H <sub>2</sub> O TRUCK
	1335		RESUMED PULLING OUT OF HOLE

# WELL LOG

10/75-192

## GEONOMICS, INC.

3165 Adeline Street, Berkeley, CA 94703

JOB No.

76-112

PROSPECT

SAN EMILIO

DATE

7-29-76

LOCATION

SAN EMILIO  
DESERT, NEV

WELL No.

SE.#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 OF HOLE.
			RECOVERED $\approx 6.5''$ OF CORE OUT OF 1' CORING.
			BRECCIA WITH GREEN APHANITIC GROUND MASS, WITH PURITE 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 <sub>2</sub> O.
	1632		INSTALLED 8' PIECE OF PIPE, TOTAL = 176' OF TEMP. PIPE
	1706		MOVED RIG FROM HOLE
	1717		BEGAN PACKING-UP FOR MOVE TO SE #C
	1728		LEFT TO CEMENT SE #A





# WELL LOG

10/75-192



3165 Adeline Street, Berkeley, CA 94703

JOB No. 76.112

PROSPECT SAN EMIDIO

DATE 7-30-76

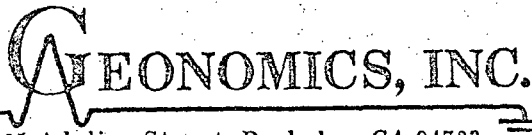
LOCATION SAN EMIDIO DESERT, NEV.

WELL No. SE.#C

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

# WELL LOG

10/75-192



3165 Adeline Street, Berkeley, CA 94703

JOB No.

76.112

PROSPECT

SAN EMIDIO

DATE

7-30-76

LOCATION

SAN EMIDIO  
DESERT, NEV.

WELL No.

6E#C

DRILLING TIME	TIME	DEPTH	COMMENTS
	1407		ELEINER + 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 2 1/2 BAGS OF CEMENT + ALSO FINISHED DISTRIBUTING CUTTINGS AROUND DRILL SITE AREA
	1623		LEFT WITH VEH. FOR SITE #4
	1635		RIG ARRIVED SITE #A + BEGAN DISTRIBUTING CUTTINGS AROUND AREA.
	1712		FINISHED CLEANING UP SITE #A. DRILLER + ELEINER CHECKED ON ANY OTHER POSSIBLE ACCESS TO S.E. #D. CLOSEST APPROACH TO SE #D SITE WAS ≈ 3200' TO THE EAST, BEFORE SOFT GROUND ENCOUNTERED
	1723		SHUT DOWN FOR NIGHT





APPENDIX II

SAMPLE IDENTIFICATION FROM DRILL HOLES

# WELL LOG

10/75-192

**ECONOMICS, INC.**  
 3165 Adeline Street, Berkeley, CA 94703

JOB No. **76.112**

PROSPECT **SAN EM1010**

DATE

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

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.

# WELL LOG

10/75-192

**ECONOMICS, INC.**  
 3165 Adeline Street, Berkeley, CA 94703

JOB No. **76.112**

PROSPECT **SAN EMILIO**

DATE

LOCATION

WELL No. **SF#A**

DRILLING TIME	TIME	DEPTH	COMMENTS
		105'-107'	SMP#7 - Large, ang. frags. of blue-grey slate, quartz 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, quartz and dacite or andesite? with parts of pyrite in slate. Brown clay + silt + carbonate. ang. to sub-ang; fine coarse sand.
		<del>130'-137'</del> 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 - 40% soft, brown clay + silt + some carbonate. ang. to sub-ang; fine coarse sand. ang. frags of blue-grey slate + dacite? or andesite?



# WELL LOG

10/75-192

**ECONOMICS, 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'	Sample #13 - 90% soft, brown clay + silt + some carbonate arg. to sub-arg, fine coarse sand, arg. frags. of blue-grey slate + dacite? or andesite?
		210'-215'	Sample #14 - 90% soft, brown clay + silt + some carbonate arg. to sub-arg, fine coarse sand, arg. frags. of blue-grey slate + dacite? or andesite?
		225'-227'	Sample #15 - soft, brown clay + silt
		240'-246'	Sample #16 - soft, brown clay + silt
		255'-259'	Sample #17 - 90% soft, brown clay + silt, arg. to sub-arg, fine coarse sand
		270'-276'	#18 - 90% soft, brown clay + silt, arg. to sub-arg, fine coarse sand
		285'-290'	#19 - 90% soft, brown clay + silt, arg. to sub-arg, fine coarse sand
		300'-306'	#20 - 90% soft, brown clay + silt, arg. to sub-arg, fine coarse sand

# WELL LOG

10/75-192

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

JOB No.

760112

PROSPECT

SAN EMIDIO

DATE

LOCATION

WELL No.

SE #A

DRILLING TIME	TIME	DEPTH	COMMENTS
		317-320'	#21 - 90% soft, brown clay + silt. arg to sub-arg, fine coarse sand.
		320-335'	#22 - 90% soft, brown clay + large amount of silt. arg to sub-arg, fine med. sand.
		345-350'	#23 - 95% soft, brown clay + large amount of silt. arg to sub-arg, fine med. sand.
		360-369'	#24 - 90% soft, brown clay + large amount of silt. sub-arg to sub-rounded fine coarse sand.
		<del>395-399'</del>	<del>#25 - soft, green clay + silt + carbonate</del>
		360-369'	#25 - 90% soft, brown clay + large amount of silt. sub-arg 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



# WELL LOG

10/75-192

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

JOB No. **76.112** PROSPECT **SAN EMIDIO**  
 DATE  LOCATION **2620'S & 2640'W**  
 WELL No. **S.E.#B** **fr. NE cor. Sec 21**  
**T 29 N. R 23 E**

DRILLING TIME	TIME	DEPTH.	COMMENTS
		15'-16'	#1 - ANG FRAGS OF DARK- GREY, FRIABLE SILTSTONE? CONTAINING CARBONATE. SOFT, GREY CLAY & SILT.
		30'-33'	#2 - Unconsolid, 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 - Finer, grey-green clay + silt + carbonate ang. to sub-ang, fine coarse sand. ang, frags of dark- green sh? + large amount of pyrite
		100'-108'	#7 - Hard <sup>grey</sup> green clay + silt + carbonate + pyrite. ang. to sub-ang, fine coarse sand.

# WELL LOG

10/75-192

**ECONOMICS, INC.**  
 3165 Adeline Street, Berkeley, CA 94703

JOB No. **76.112** PROSPECT **SAN EMIDIO**  
 DATE  LOCATION   
 WELL No. **S.E.#10**

DRILLING TIME	TIME	DEPTH	COMMENTS
		120'-122'	#8 - Hard, gray-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-round, fine coarse sand.
		136'-138'	#10 - Firm, gray-green clay + silt + carbonate. ang. frags of dark green rx? + large amount of pyrite.
		142'-144'	#11 - Poorly consolidated, grey clay + silt. ang. frags of grey friable siltstone? + carbonate + pyrite.
		160'-163'	#12 - Poorly consolidated, 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. ang. frags of grey friable siltstone?

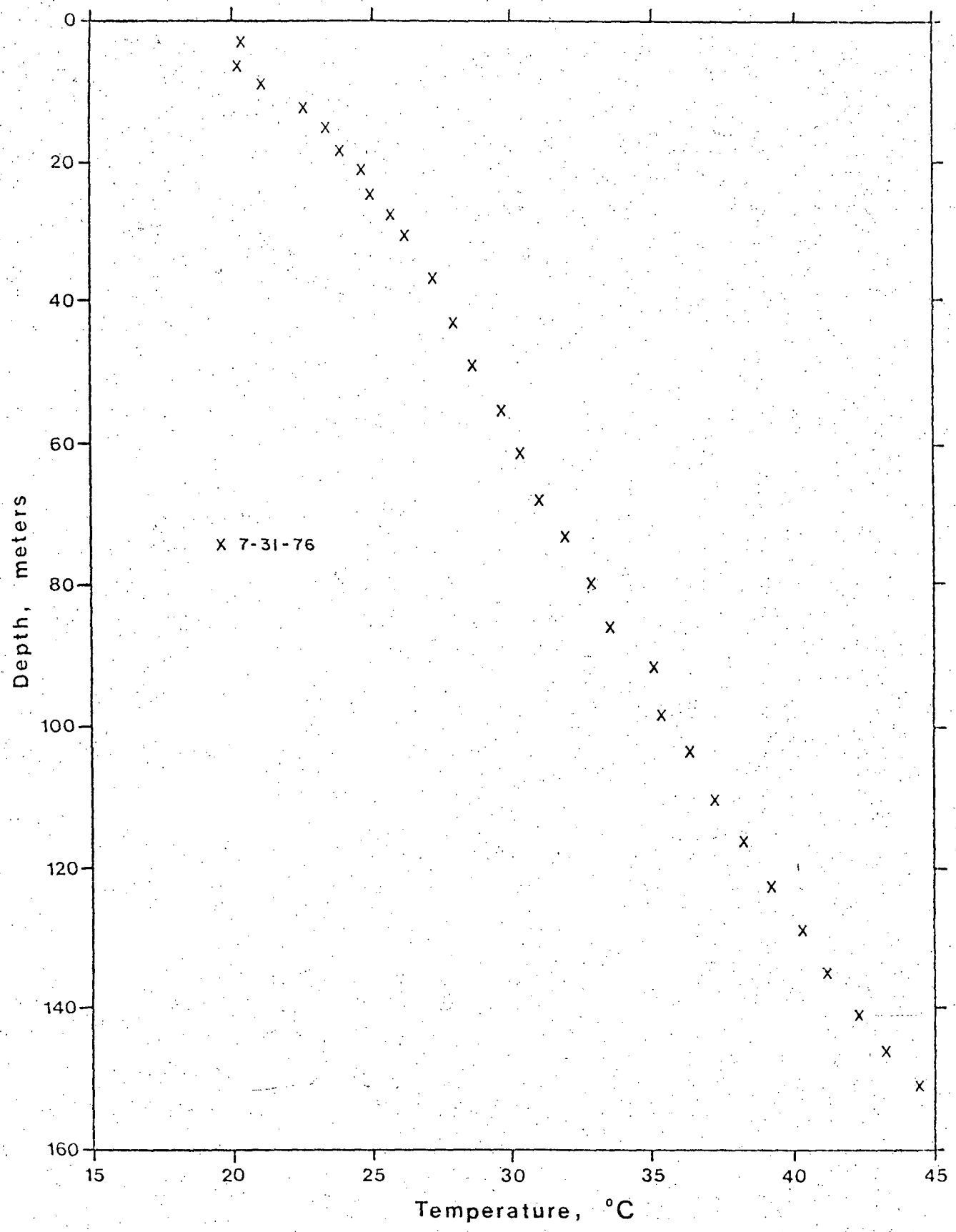
APPENDIX III

TEMPERATURE DATA; FIELD OBSERVATIONS







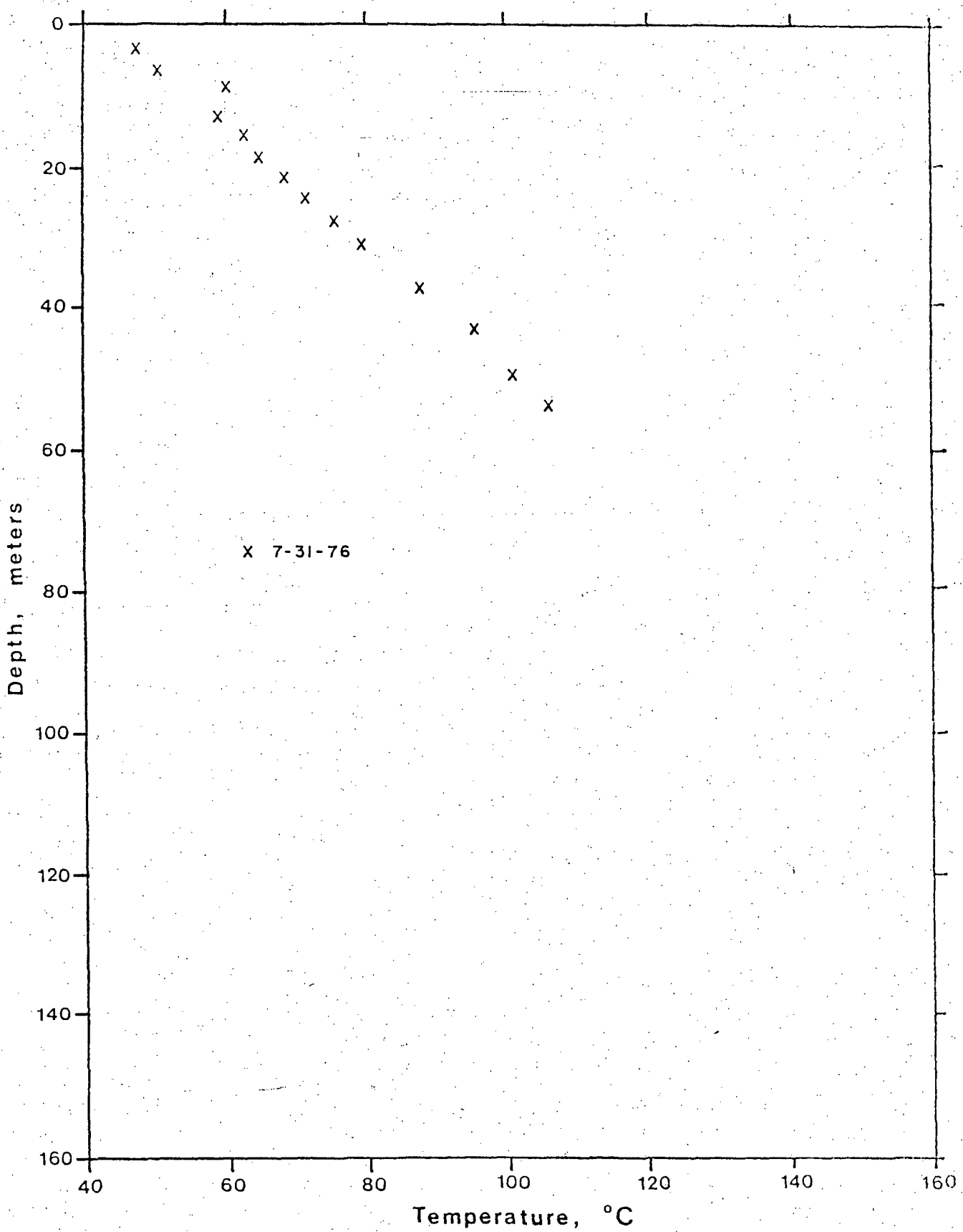


X 7-31-76

S.E. #A

APPENDIX IV

UNCORRECTED TEMPERATURE VERSUS DEPTH PLOTS



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	TEMPERATURE	SMOOTH	RESIDUAL
3.05	20.360	21.148	-.788
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	31.600	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	43.360	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 #R

HEAT FLOW BY LINEAR FITTING OF UNCORRECTED DATA

DEPTH	TEMPERATURE	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

1978 SAN EMIDIO SHALLOW TEMPERATURE HOLE  
PROGRAM

BY K.L. COMSTOCK

CHEVRON RESOURCES



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  
 DATE \_\_\_\_\_ SECTION 20  
 TOWNSHIP 30N  
 RANGE 23E  
 WELL No. 21-78

CHEVRON RESOURCES COMPANY

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-course 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

CHEVRON RESOURCES COMPANY

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

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 sub-ang, 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

PROSPECT San Emidio  
 COUNTY Washoe STATE Nevada  
 DATE \_\_\_\_\_ SECTION 20  
 TOWNSHIP 30N  
 RANGE 23E  
 WELL No. 22-78

CHEVRON RESOURCES COMPANY

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 <sub>2</sub> O 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

PROSPECT San EmidioCOUNTY WashoeSTATE Nevada

CHEVRON RESOURCES COMPANY

DATE \_\_\_\_\_

SECTION 28TOWNSHIP 30NRANGE 23EWELL 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

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

CHEVRON RESOURCES COMPANY

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**

PROSPECT San Emidio

COUNTY \_\_\_\_\_ STATE Nevada

**CHEVRON RESOURCES COMPANY**

DATE \_\_\_\_\_ SECTION \_\_\_\_\_

WELL No. 23-78

TOWNSHIP \_\_\_\_\_  
RANGE \_\_\_\_\_

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

CHEVRON RESOURCES COMPANY

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

CHEVRON RESOURCES COMPANY

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% avg, 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 EmidioCOUNTY WashoeSTATE Nevada

CHEVRON RESOURCES COMPANY

DATE \_\_\_\_\_

SECTION

29

TOWNSHIP

30N

RANGE

23EWELL 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

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

CHEVRON RESOURCES COMPANY

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

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

CHEVRON RESOURCES COMPANY

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

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

CHEVRON RESOURCES COMPANY

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

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

CHEVRON RESOURCES COMPANY

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

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

CHEVRON RESOURCES COMPANY

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
WELL No.	28-78	RANGE	23E

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 siltstone, 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 cobbles.	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  
 RANGE 23E  
 WELL No. 29-78

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 - avg 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 - avg 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  
 RANGE 23E  
 WELL No. 31-78

TIME	DEPTH	LITHOLOGY	COMMENTS
1606	15'-20'	#1 - poorly consolid, brown, silty clay and many carbonate particles.	MT = 89°F (Temp of H <sub>2</sub> O 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
1521	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 \_\_\_\_\_ SECTION 21  
 TOWNSHIP 30N  
 WELL No. 34-78 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, calcareous 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
1035	15'-20'	#1 - ang frags tan siltstone and minor gravel.	MT = 92°F ( temp of H <sub>2</sub> O in truck)
1042	35'-40'	#2 - 50% ang frags, tan siltstone; 50% ang to sub-ang, med-large gravels and cobbles.	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

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
1354	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 32  
 TOWNSHIP 29N  
 RANGE 29E  
 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 \_\_\_\_\_ SECTION 32  
 TOWNSHIP 29N  
 RANGE 23E  
 WELL No. 36-78

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 cobbles; 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-a g 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
0507	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
0951	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

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio  
 COUNTY Washoe STATE Nevada  
 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

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

CHEVRON RESOURCES COMPANY

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
1543	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 - arg to sub-arg, 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% arg to sub-arg sands; 50% arg to sub-arg, 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% arg to sub-arg, fine-coarse sand; 30% arg to sub-arg, gravels and minor, brown clay.	MT = 54°F
0912	275-280	#14 - 70% arg to sub-arg 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  
 RANGE 23E  
 WELL No. 40-78

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

CHEVRON RESOURCES COMPANY

PROSPECT San Emidio  
 COUNTY Washoe STATE Nevada  
 DATE \_\_\_\_\_ SECTION 38 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  
 RANGE 23E  
 WELL No. 41-78

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

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

CHEVRON RESOURCES COMPANY

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 as #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 16  
 TOWNSHIP 29N  
 WELL No. 42-78 RANGE 23E

TIME	DEPTH	LITHOLOGY	COMMENTS
0820	375-380	#19 - same as #8	MT = 85°F (H <sub>2</sub> O 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 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

PROSPECT San Emidio  
 COUNTY Washoe STATE Nevada  
 DATE \_\_\_\_\_ SECTION 15  
 TOWNSHIP 29N  
 WELL No. 44-78 RANGE 23E

CHEVRON RESOURCES COMPANY

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  
 RANGE 23E  
 WELL No. 45-78

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  
 RANGE 23E  
 WELL No. 46-78

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 \_\_\_\_\_ SECTION 15  
 TOWNSHIP 29N  
 WELL No. 46-78 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

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

CHEVRON RESOURCES COMPANY

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 \_\_\_\_\_ SECTION 16  
 TOWNSHIP 29 N  
 WELL No. 50-78 RANGE 23 E

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 <sup>2</sup> 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

# Memorandum

x m/  
3-9-NV9SE373

June 13, 1978

SAN EMIDIO  
1978 SHALLOW TEMPERATURE HOLE  
PROGRAM

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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 reservoir 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

R = reversal on T-Z profile

—| = isothermol or reversal

-- = no data

( ) = TG Turn over T-Z

E = estimated

T hole #	Z	°F/100ft 50	°F/100ft 100	°F/100ft 200	°F/100ft 300	°F/100ft 400	°F/100ft 500	°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	99	
3-77	492	16	7	6.8	11.2	11.2	95	101.2	109	120	131.8	131.8	
4-77	491	10.7	10.7	10.7	10.7	10.7	67.6	78.4	88.4	99	119.5	119.5	
5-77	421	32.6	—	—	13.8	E13.8	92.3	R	R	105.5	E127	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	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	E95	
8-77	100	E184	80°	—	—	—	(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'
14S L-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	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	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	—	—	

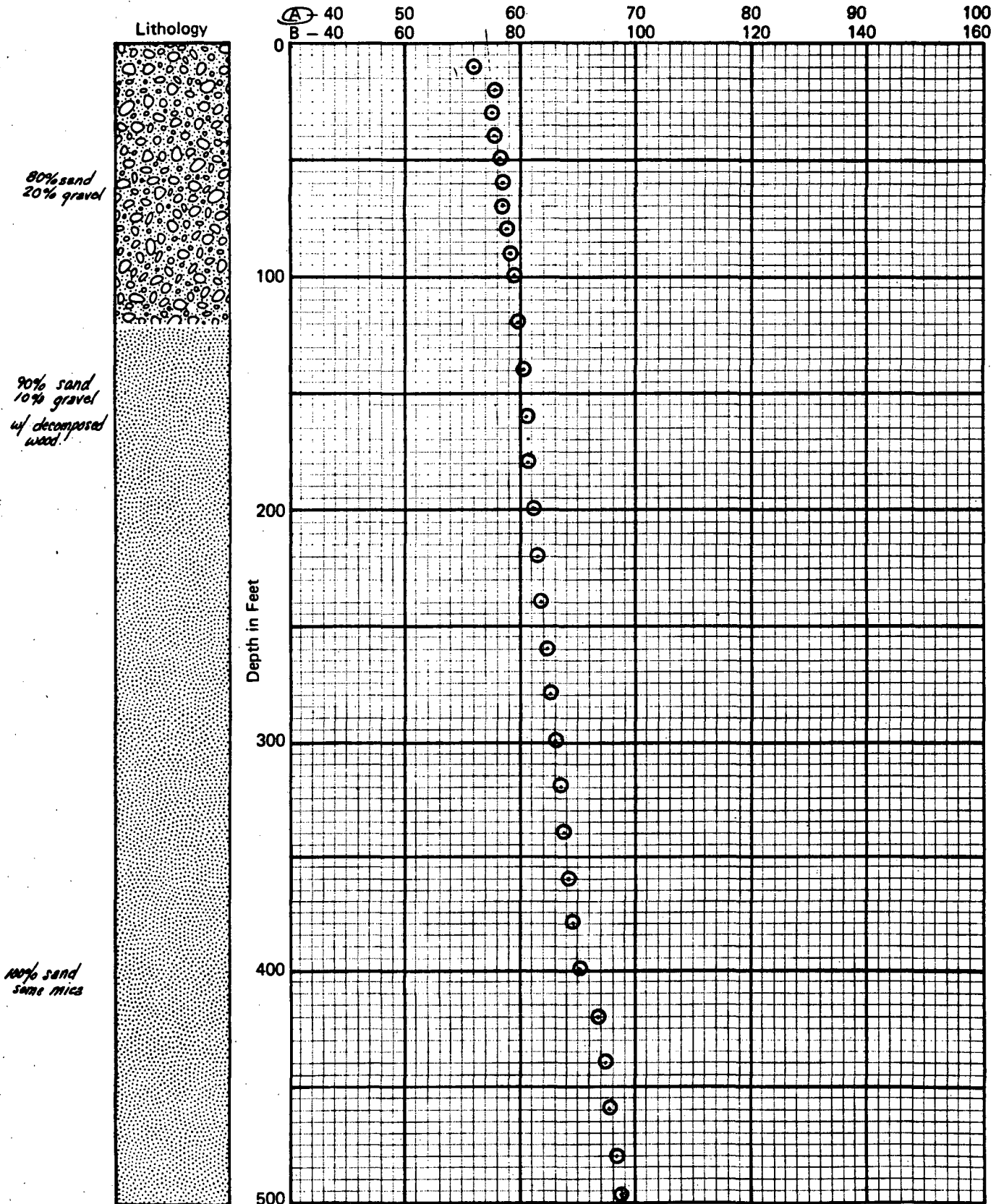
T hole#	Z	°F/100ft 100'	°F/100ft 200'	°F/100ft 300'	°F/100ft 400'	°F/100ft 300'	°F100'	°F200'	°F300'	°F400'	°F500'	Comments
3-74-20	272	5.6	5.6	E5.6	—	—	63.9	70.4	E76.8	—	—	
21-78	496	1.9	1.9	1.9	1.9	3.2	59.1	60.1	63	65.2	69	TG picks up @ 400'
22-78	428	5.2	3.5	3.5	3.5	E3.5	65	69.5	73.2	76	—	
23-78	496	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 &
29-78	495	6.3	6.3	6.3	6.3	6.3	70.2	75.8	82.2	88	93.9	isothermal @ ~215
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.**  
**GEOHERMAL DIVISION**

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

Date Completed: 2-14-78  
 Date Logged: 2-18-78  
 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. : 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	<del>61.5</del> 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	<del>496</del> 500	2,814	68.8

OK AIR

1/2

TIME START: 1510

TIME ON BOTTOM: 1620

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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 : PLEINER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START-BATT.  $\checkmark = 1162$

END-BATT.  $\checkmark = 1133$

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	3,725	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	3,555	59.4	400	3,085	65.2
120	3,525	59.8	420	2,965	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	496 500	2,810	68.8

TIME START: 0910

TIME ON BOTTOM: 10 25

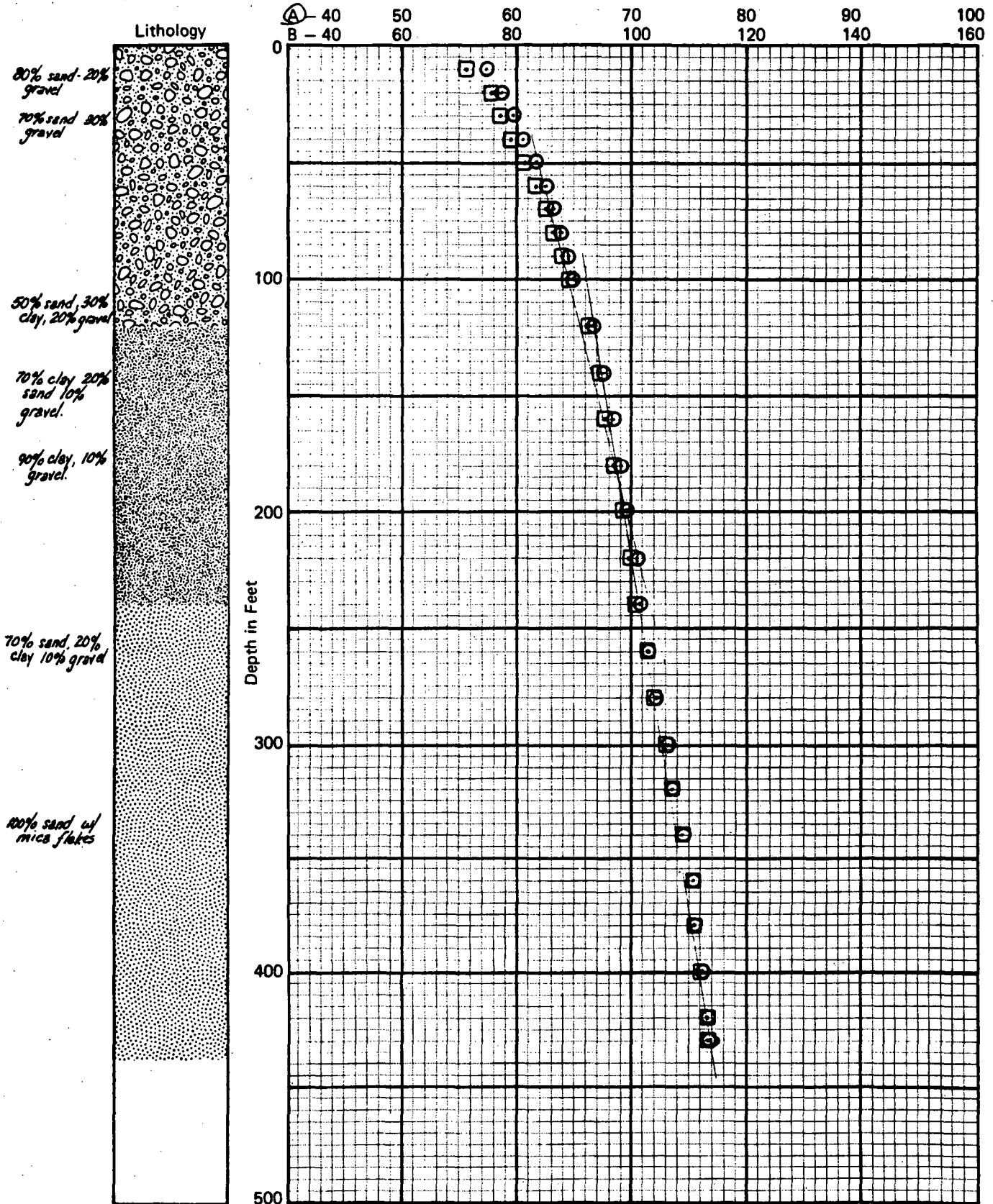


**CHEVRON RESOURCES CO.**  
**GEOTHERMAL DIVISION**

Prospect: San Emida  
 State: Nevada  
 Hole No.: 22-78  
 Sec., 10 Twp., 30N Rge.: 23E

Date Completed: 2-14-78  
 Date Logged: 2-18-78  3-8  
 Logged By: J. Flemer  
 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. : 520 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.  $\checkmark$  = 1178

END - BATT.  $\checkmark$  = 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	2,705	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	<del>440</del> 428	2,319	76.7
160	2,889	67.7	460		
180	2,837	68.4	480		
200	2,788	69.2	500		

TIME START: 1600

TIME ON BOTTOM: 1700

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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	<del>428</del> 440	2,309	76.9
160	2,843	68.3	460		
180	2,797	69.0	480		
200	2,753	69.7	500		

TIME START: 11 15

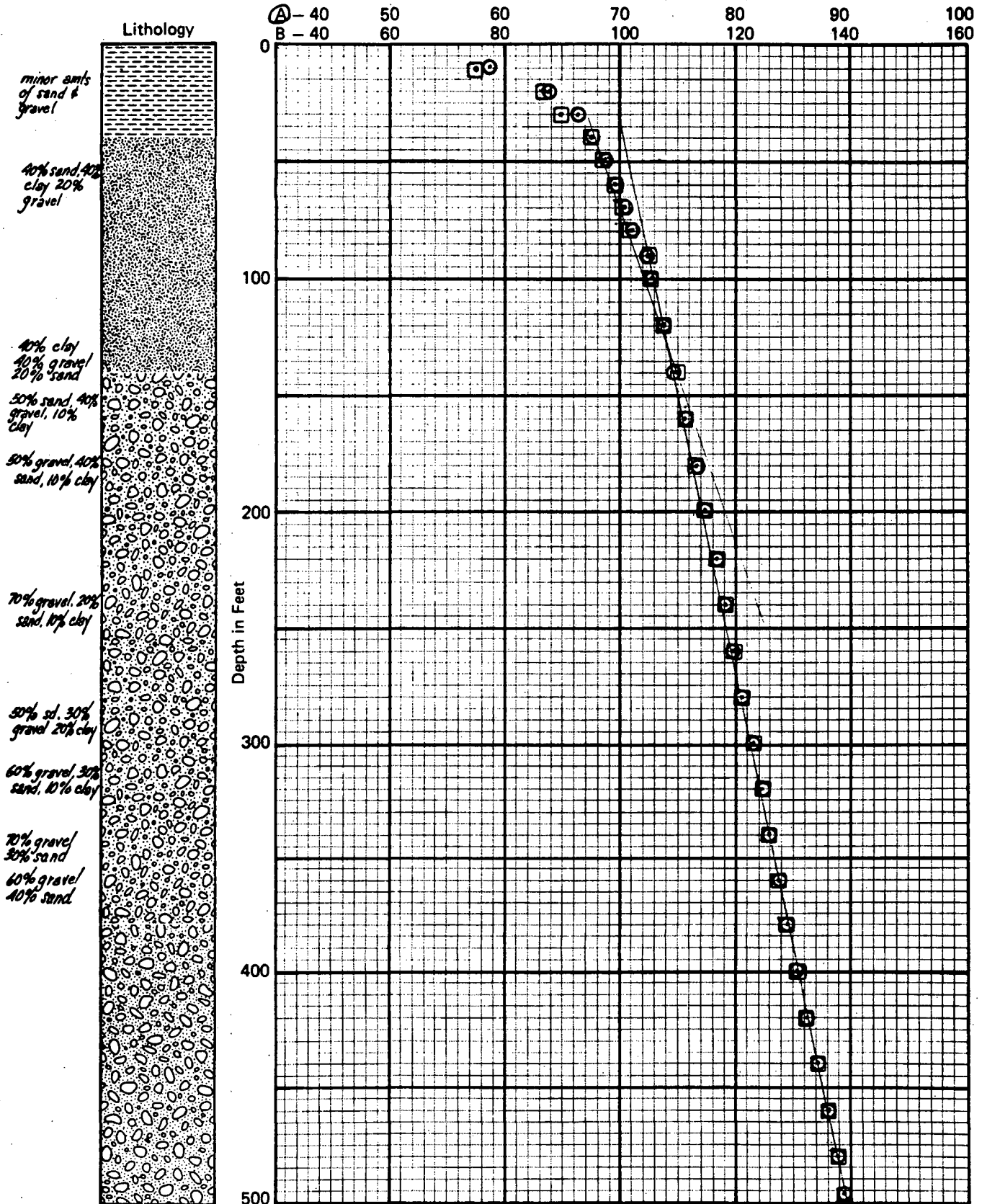
TIME ON BOTTOM: 12 20

**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

Prospect: San Emido  
 State: Nevada  
 Hole No.: 23-78  
 Sec., 28 Twp., 30N Rge.: 03E  
 1250'S & 1900'E of NW cor

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

Temperature in °F  
(Circle Scale Used)



Approved:

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
STATE : NEV.  
HOLE NO. : 23-78  
S.T.R. : 28, T30NR23E

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

10K

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3615	58.7	220	2236	78.3
20	3195	63.9	240	2197	79.1
30	2993	66.4	260	2158	79.9
40	2896	67.6	280	2122	80.7
50	2818	68.7	300	2080	81.5
60	2764	69.6	320	2045	82.3
70	2715	70.4	340	2010	83.0
80	2664	71.2	360	1973	83.8
90	2596	72.3	380	1938	84.5
100	2563	72.8	400	1897	85.3
120	2496	73.9	420	1855	86.2
140	2434	74.9	440	1817	87.2
160	2379	75.7	460	1780	88.2
180	2326	76.6	480	1751	88.9
200	2280	77.4	496	1734	89.4

TIME START: 1015

TIME ON BOTTOM: 1115

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER

START - BATT.  $\checkmark$  = 1124

END - BATT.  $\checkmark$  = 1119

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
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
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: 15 30

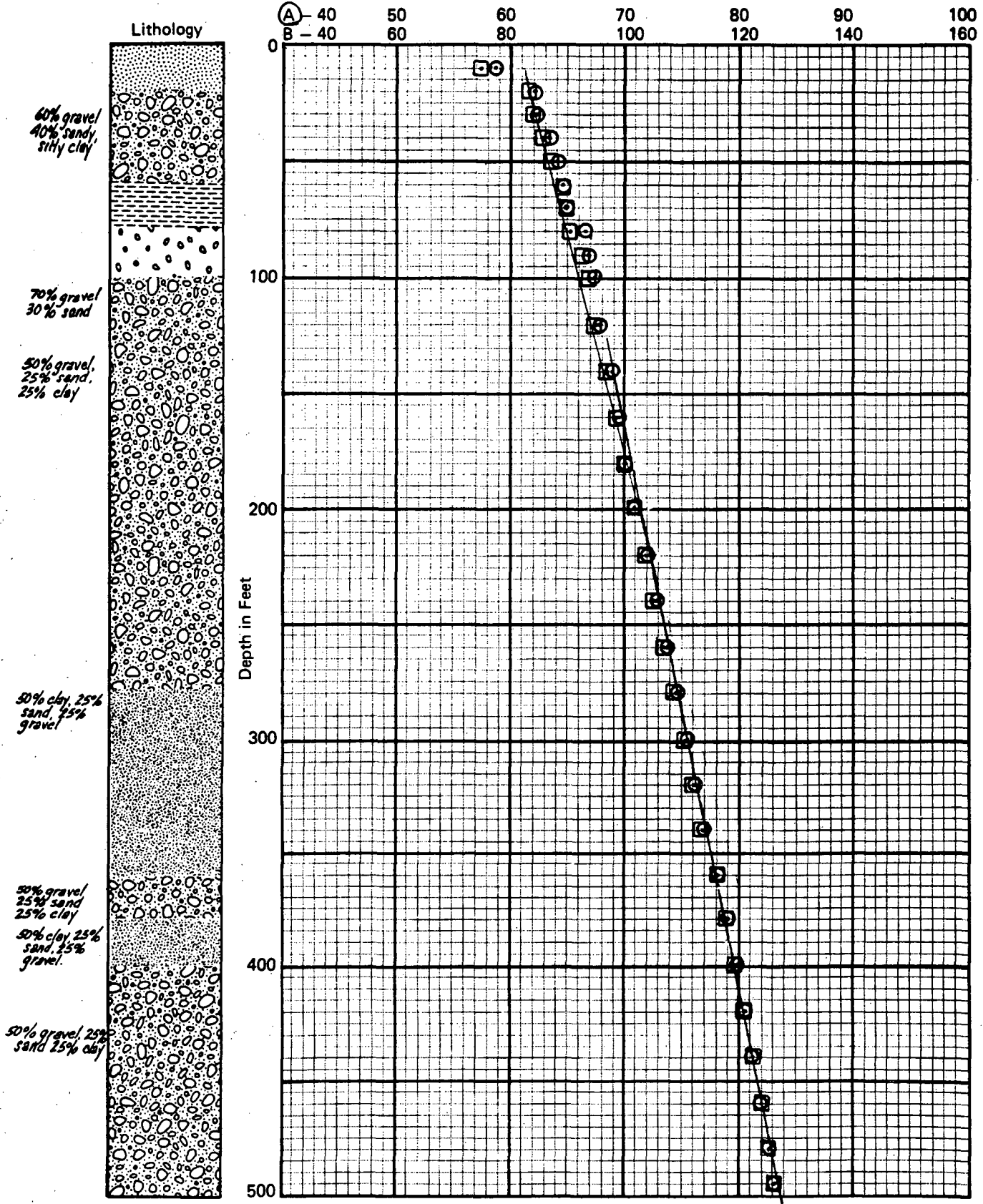
TIME ON BOTTOM: 16 40

**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

Prospect: San Emido  
 State: Nevada  
 Hole No.: 24-78  
 Sec., 28 Twp., 30N Rge.: 23E  
 2350' S & 200' E of NW cor

Date Completed: 1-25-78  
 Date Logged: 1-29-78  2-3   
 Logged By: J. Flinn  
 Temp. Probe: Chevron

Temperature in °F  
 (Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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	3,335	62.1	240	2,557	72.9
30	3,325	62.3	260	2,502	73.8
40	3,245	63.2	280	2,451	74.6
50	3,185	64.0	300	2,400	75.4
60	3,135	64.6	320	2,352	76.2
70	3,105	65.0	340	2,301	77.0
80	2,981	66.5	360	2,248	78.1
90	2,948	66.9	380	2,202	79.0
100	2,918	67.3	400	2,162	79.9
120	2,878	67.8	420	2,125	80.6
140	2,814	68.8	440	2,090	81.3
160	2,771	69.5	460	2,055	82.1
180	2,722	70.2	480	2,023	82.7
200	2,672	71.0	495/508	1,997	83.2

TIME START: 0915

TIME ON BOTTOM: 1025



CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 24-7B  
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)
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
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	495 500	1,999	83.2

TIME START: 14 10

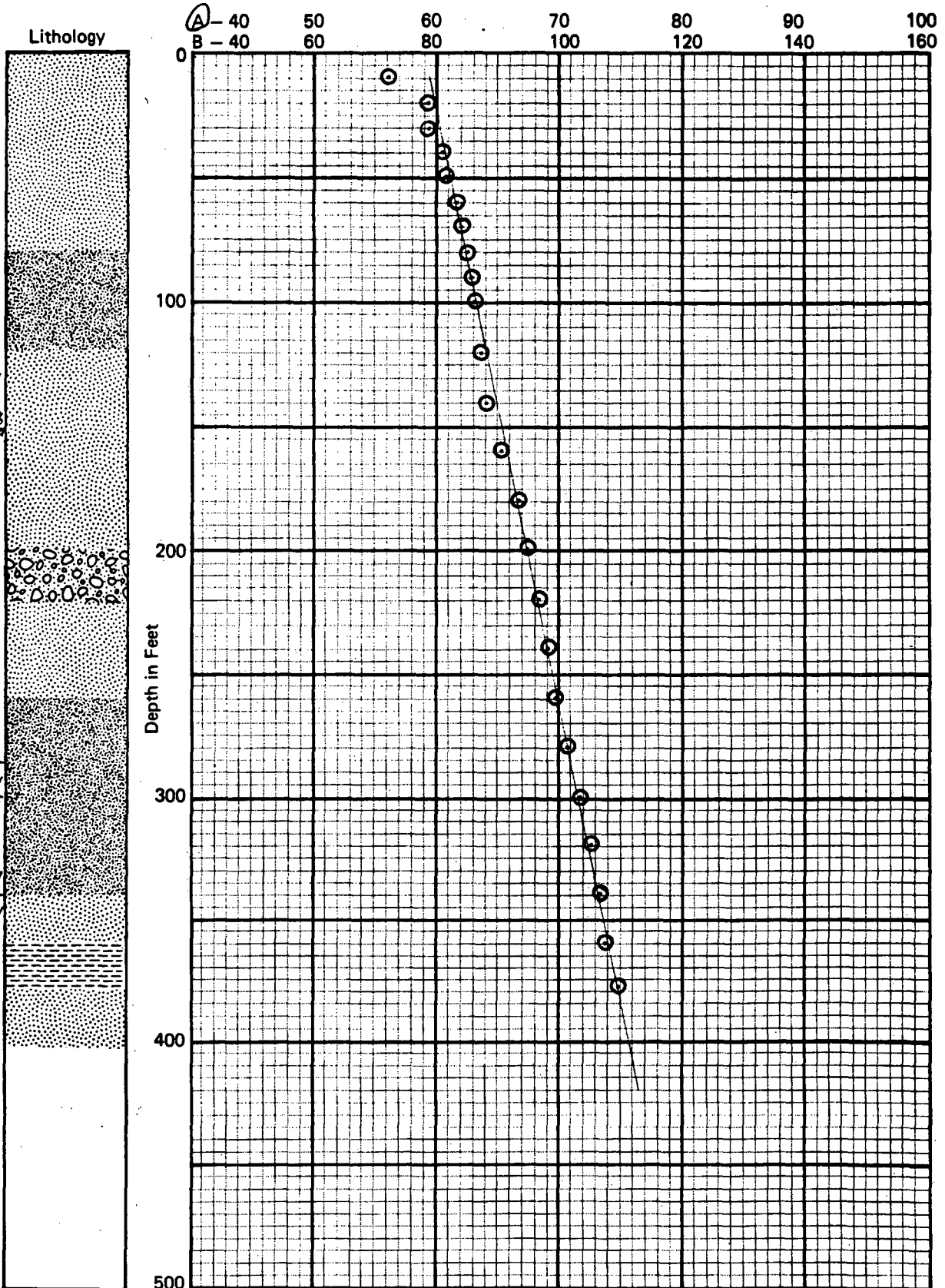
TIME ON BOTTOM: 15 15

**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

Prospect: San Emidio  
 State: Nevada  
 Hole No.: 25-7B  
 Sec., 28 Twp., 38N Rge.: R2E  
 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 EMILIO  
 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. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START - BATT. V = 1204

END - BATT. V = 1168

10KΩ

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	<del>378</del> 380	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		

1KΩ

TIME START: 1050

TIME ON BOTTOM: 1200

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
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	70.6
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	378 380	2,449	74.7
100	3,265	63.0	378 400		
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

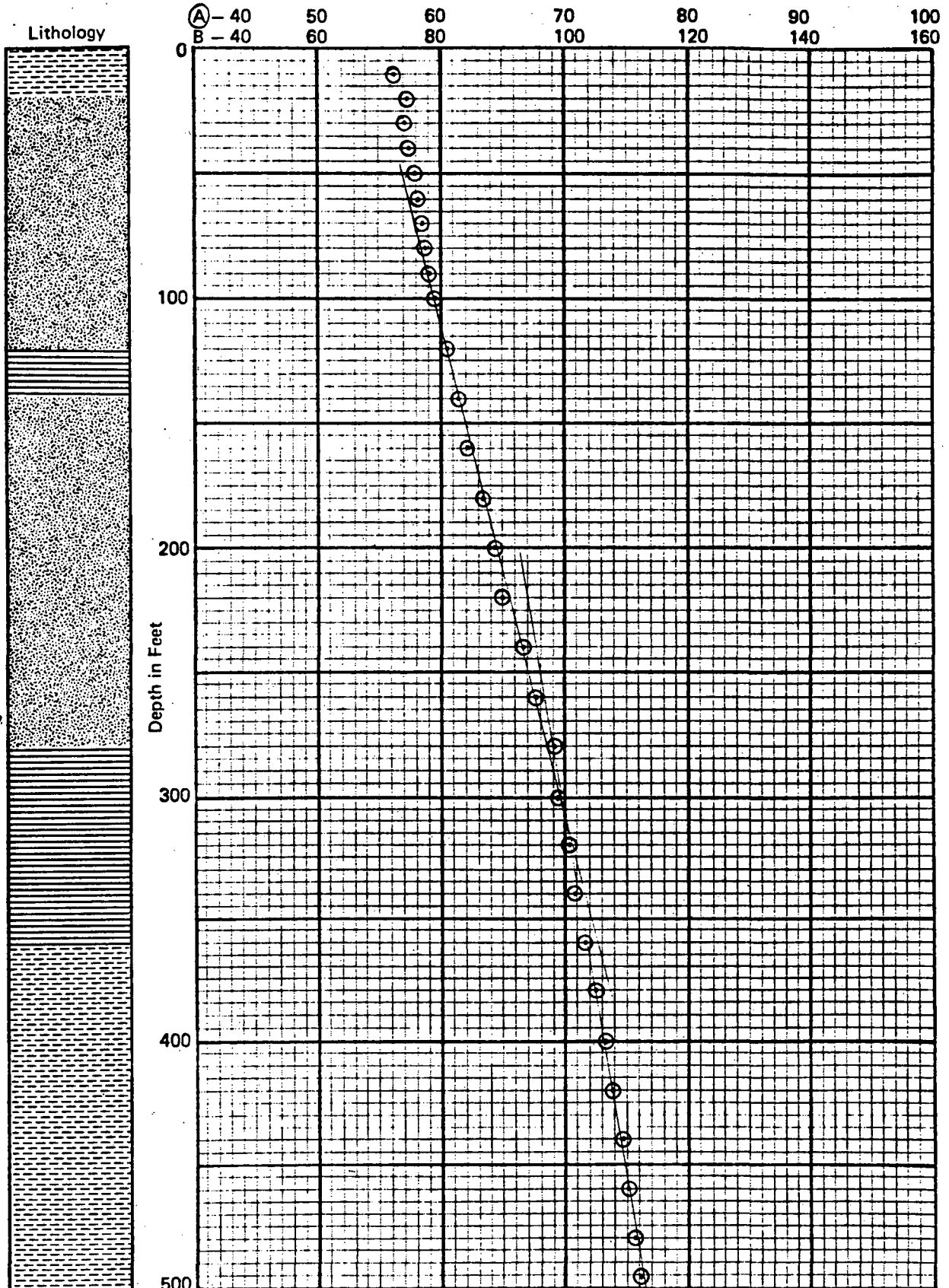
TIME ON BOTTOM: 1100

**CHEVRON RESOURCES CO.  
GEOTHERMAL DIVISION**

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

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

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
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.  $\checkmark$  = 1225

END-BATT.  $\checkmark$  = 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	2,799	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	<del>496</del> 500	2,357	76.1

TIME START: 07 50

TIME ON BOTTOM: 09 10

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 : FLEINER  
 UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START - BATT.  $\checkmark = 1164$

END - BATT.  $\checkmark = 1131$

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,445	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	<del>2,432</del>	<del>74.9</del>
180	3,285	62.7	480	<del>2,395</del>	<del>75.5</del>
200	3,215	63.6	496 500	2,366	76.0

TIME START: 0820

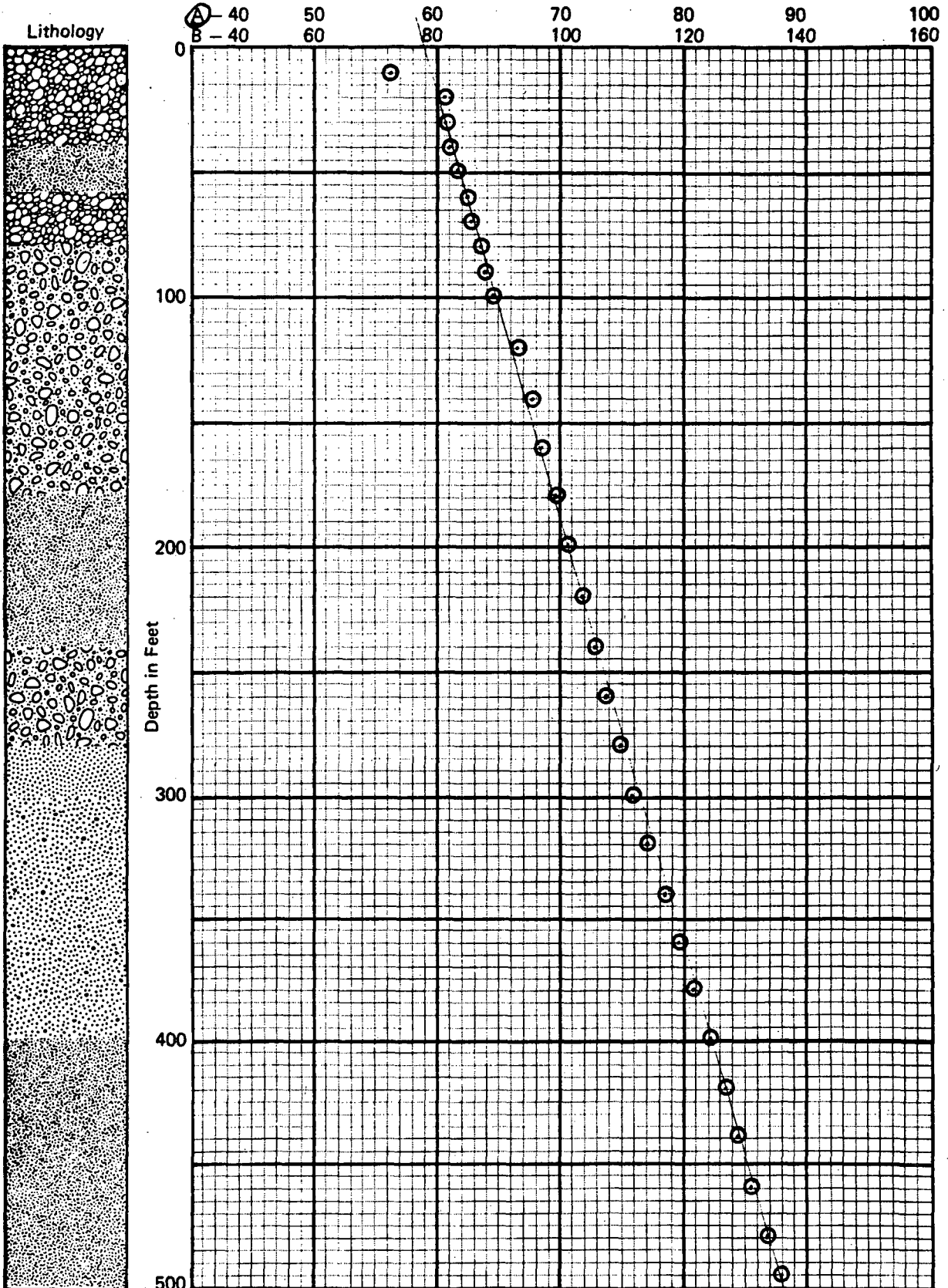
TIME ON BOTTOM: 0925

**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

Prospect: San Emido  
 State: Nevada  
 Hole No.: 27-7B  
 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  
GEOHERMAL 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

10K-2

1K-2

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	<del>495</del> <del>500</del>	1,782	

TIME START: 1430

TIME ON BOTTOM: 1540

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV  
HOLE NO. : 27-78  
S.T.R. : 27-729N, R23E

DATE COMPLETED : 2-12-78  
DATE LOGGED : 2-16-78  
LOGGED BY : FLEJNER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START - BATT.  $\checkmark$  = 1163

END - BATT.  $\checkmark$  = 1140

OKS

OKS

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3085	56.2	220	2622	71.9
20	3465	60.5	240	2558	72.9
30	3455	60.6	260	2498	73.8
40	3425	61.0	280	2435	74.9
50	3375	61.6	300	2369	75.9
60	3325	62.3	320	2302	77.0
70	3285	62.7	340	2237	78.3
80	3235	63.4	360	2178	79.5
90	3195	63.9	380	2118	80.8
100	3155	64.4	400	2055	82.1
120	2977	66.6	420	1992	83.3
140	2886	67.7	440	1946	84.3
160	2842	68.3	460	1886	85.5
180	2763	69.6	480	1833	86.8
200	2692	70.7	495 500	1785	88.0

TIME START: 1145

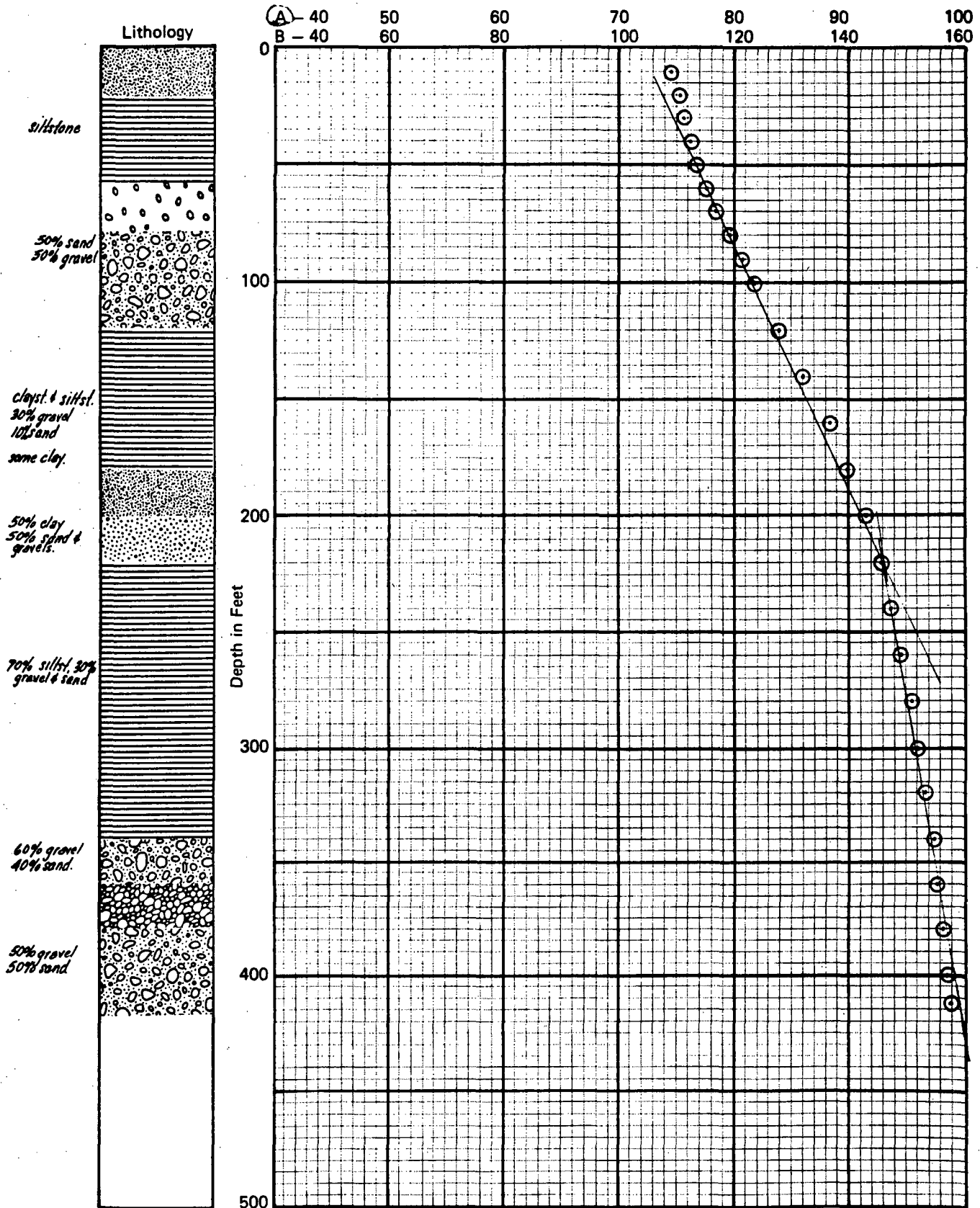
TIME ON BOTTOM: 1300

**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

Prospect: San Emidio  
 State: Nevada  
 Hole No.: 28-78  
 Sec., 33 Twp., 30 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. Flauer  
 Temp. Probe: Chevron (100')

Temperature in °F  
 (Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
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. : 1000

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	<del>420</del> <sup>413</sup>	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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

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

DATE COMPLETED : 1-31-78  
DATE LOGGED : 2-4-78  
LOGGED BY : FLAINER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START - BATT. V = 1144

END - BATT. V = 1109

10 ft

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	<del>2,273</del>	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	<del>413</del> 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

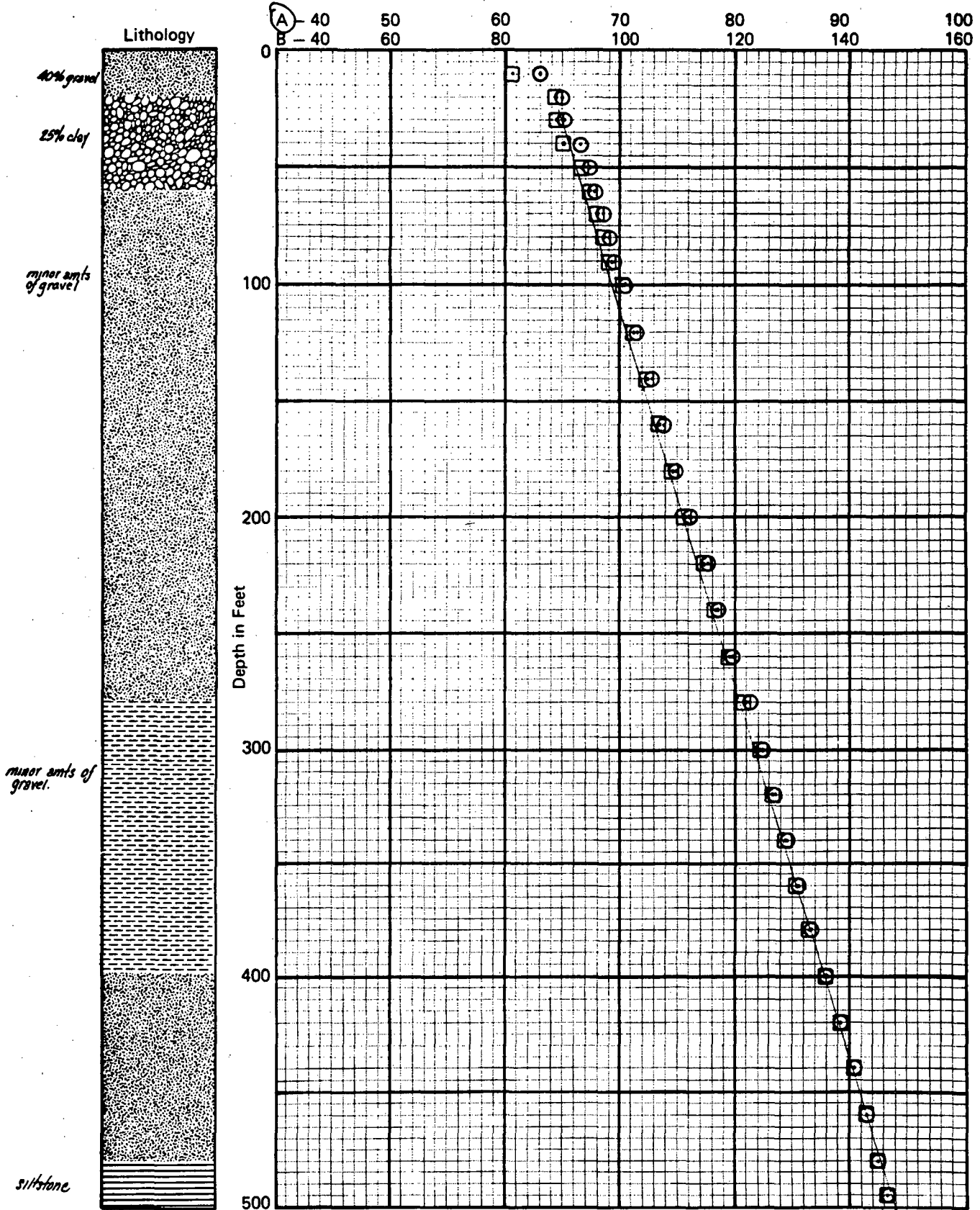
TIME ON BOTTOM: 0900

**CHEVRON RESOURCES CO.  
GEOTHERMAL DIVISION**

Prospect: Sam Emidio  
 State: Nevada  
 Hole No.: 29-78  
 Sec., 33 Twp., 30N Rge.: 23E  
 1400 S & 1350' W of NE cor

Date Completed: 1-29-78  
 Date Logged: 2-2-78  2-6-78   
 Logged By: J. Fleiner  
 Temp. Probe: Chevron (100)

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. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 112.8

END - BATT. V = 110.3

10KΩ  
AIR

1KΩ

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	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	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	92.5
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	3265	63.0	220	2261	77.8
20	3105	65.0	240	2216	78.7
30	3095	65.1	260	2158	79.9
40	2978	66.6	280	2098	81.2
50	2919	67.3	300	2038	82.4
60	2880	67.8	320	1985	83.5
70	2837	68.4	340	1934	84.5
80	2798	69.0	360	1883	85.6
90	2757	69.7	380	1834	86.8
100	2714	70.4	400	1785	88.0
120	2635	71.6	420	1739	89.2
140	2555	72.9	440	1694	90.4
160	2495	73.9	460	1652	91.5
180	2429	74.9	480	1611	92.6
200	2358	76.1	495 500	1583	93.3

10K AIR

1K2

TIME START: 1125

TIME ON BOTTOM: 1240

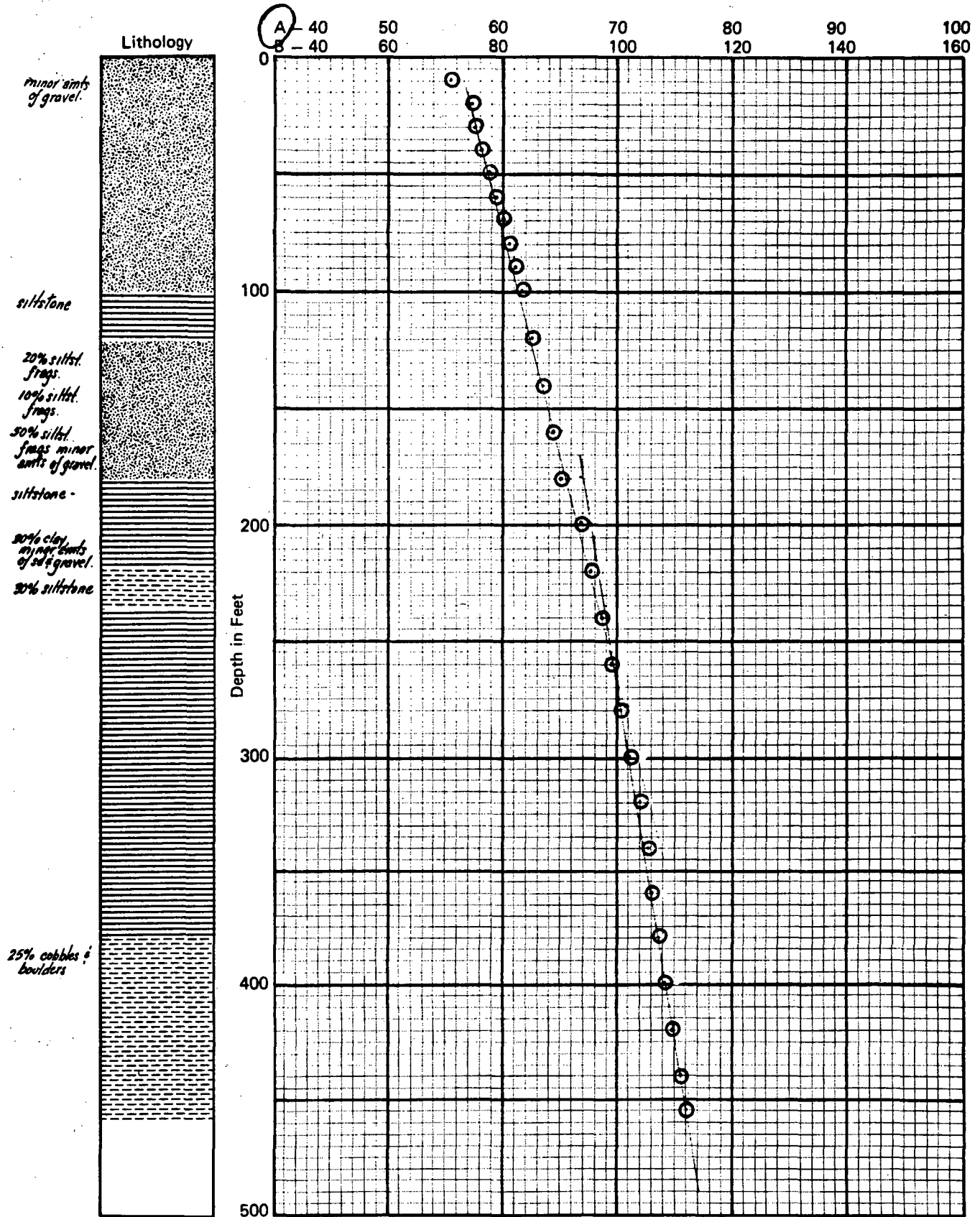


**CHEVRON RESOURCES CO.  
GEOTHERMAL DIVISION**

Prospect: San Emidio  
 State: Nevada  
 Hole No.: 30-78  
 Sec., 27 Twp., 30N Rge.: 29E  
 1200' S e 100' E of NW cor

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

Temperature in °F  
 (Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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 : FLEINER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START- BATT.  $\checkmark$  = 1132

END- BATT.  $\checkmark$  = 1107

10KR

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,955	55.5	220	2,807	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	<del>455</del> 460	2,355	76.1
180	3,095	65.1	480		
200	2,951	66.9	500		

1KR

TIME START: 1110

TIME ON BOTTOM: 12 15

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN ENIDIO  
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

10KS

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	2,5 <sup>45</sup> <del>45</del>	73.1
80	3,425	61.0	360	2,537	73.2
90	3,385	61.5	380	2,501	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	455 <del>460</del>	2,350	76.2
180	2,993	66.4	480		
200	2,935	67.1	500		

1KS

TIME START: 1610

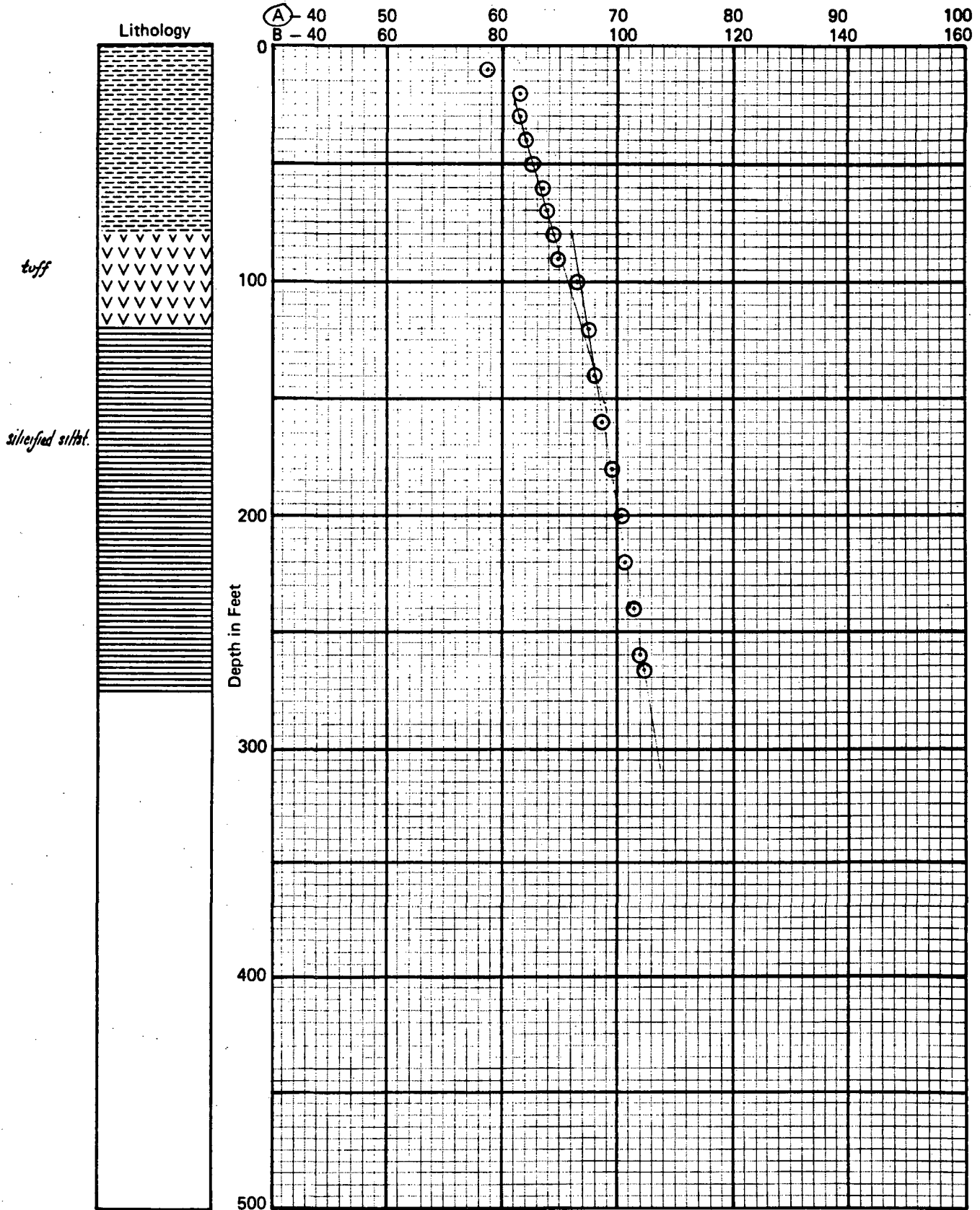
TIME ON BOTTOM: 1715

**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

Prospect: San Emidio  
 State: \_\_\_\_\_  
 Hole No.: 51-78  
 Sec., 28 Twp., 30 Rge.: 23E  
*1122' S & 153' W of N.E. 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  
GEOHERMAL 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. : 1000

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	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	<del>267</del> 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	2,980	66.5	400		
120	2,907	67.4	420		
140	2,862	68.0	440		
160	2,820	68.7	460		
180	2,771	69.5	480		
200	2,727	70.2	500		

TIME START: 12 35

TIME ON BOTTOM: 13 30

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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

10ks

(C)

1ks

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	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	<del>267</del> 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	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: 14 10

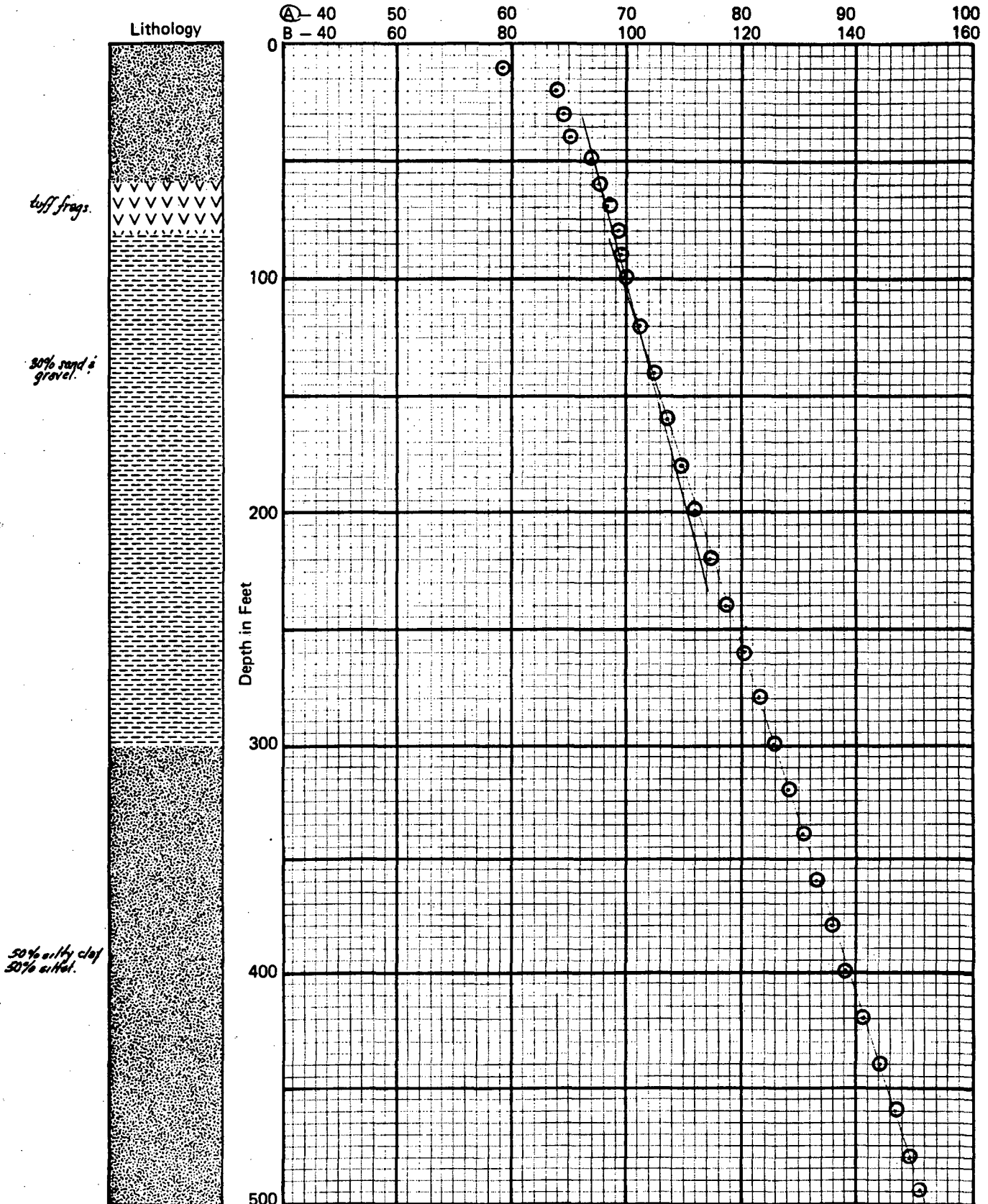
TIME ON BOTTOM: 15 05

**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: J. Fleiner  
 Temp. Probe: Chevron

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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. : 1900

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)
10kΩ AIR	10	3,575	59.1	220	2,291	77.2
AIR	20	3,195	63.9	240	2,218	78.7
(	30	3,145	64.5	260	2,147	80.2
	40	<del>3,095</del>	65.1	280	2,081	81.5
1kΩ	50	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	<del>495</del> 500	1,500	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 : 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	3,485	60.3	220	2,295	77.1
20	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	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	1,820	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	<del>495</del> 500	1,496	95.8

TIME START: 1115

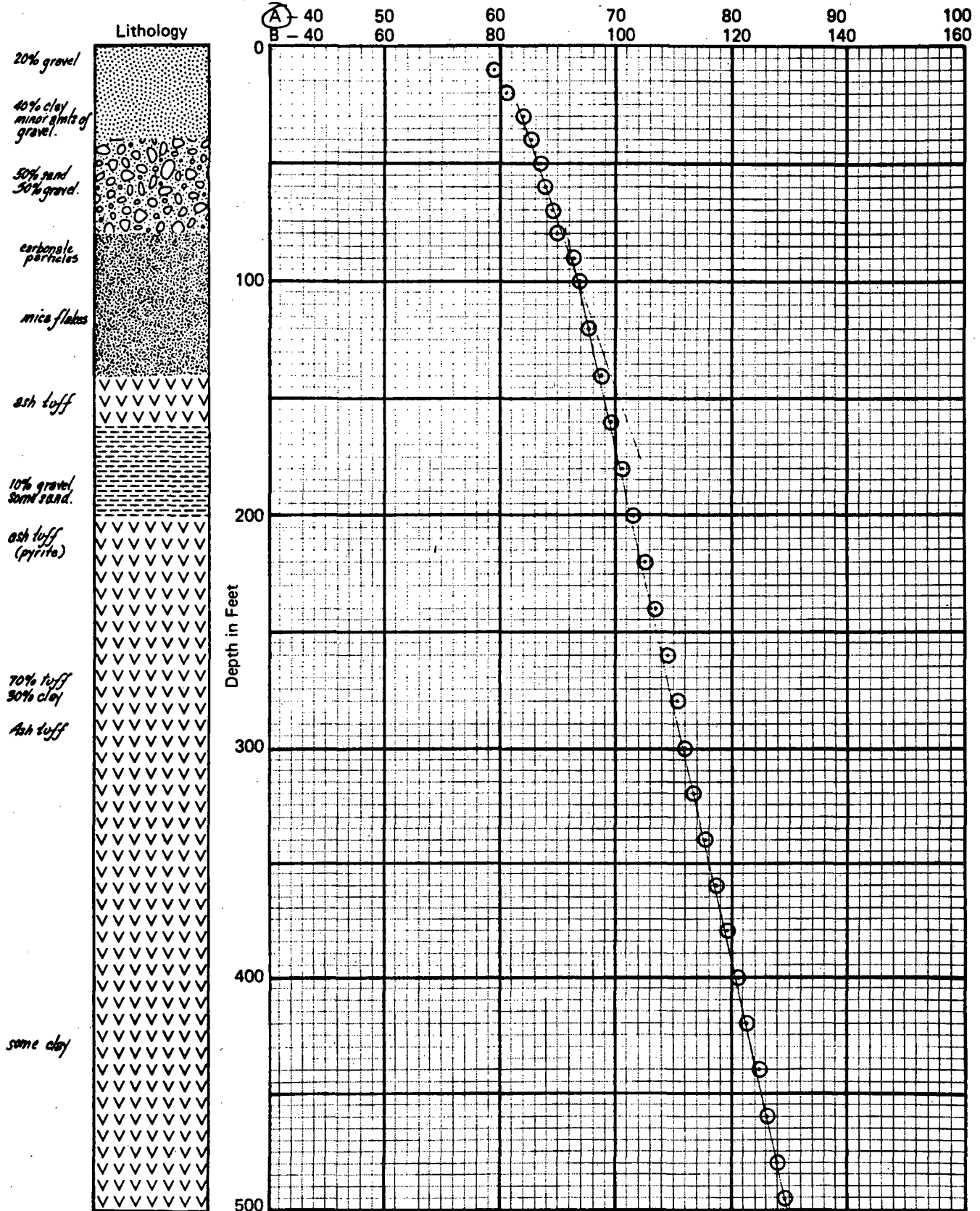
TIME ON BOTTOM: 1220

**CHEVRON RESOURCES CO.**  
**GEOHERMAL 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 & 2-9-78  
 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 : 1-3-78  
 DATE LOGGED : 2-8-78  
 LOGGED BY : FLEINER  
 UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START-BATT.  $\checkmark = 1132$

END-BATT.  $\checkmark = 1092$

10K AIR

1K

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	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	2,989	66.4	380	2,165	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 <del>500</del>	1,922	84.8

TIME START: 08.55

TIME ON BOTTOM: 10/6

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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 : 2-4-78  
LOGGED BY : FLEINER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START - BATT. V = 1124

END - BATT. V = 1108

10KΩ  
AIR

1KΩ

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
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
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	496 500	1,927	84.7

TIME START: 1405

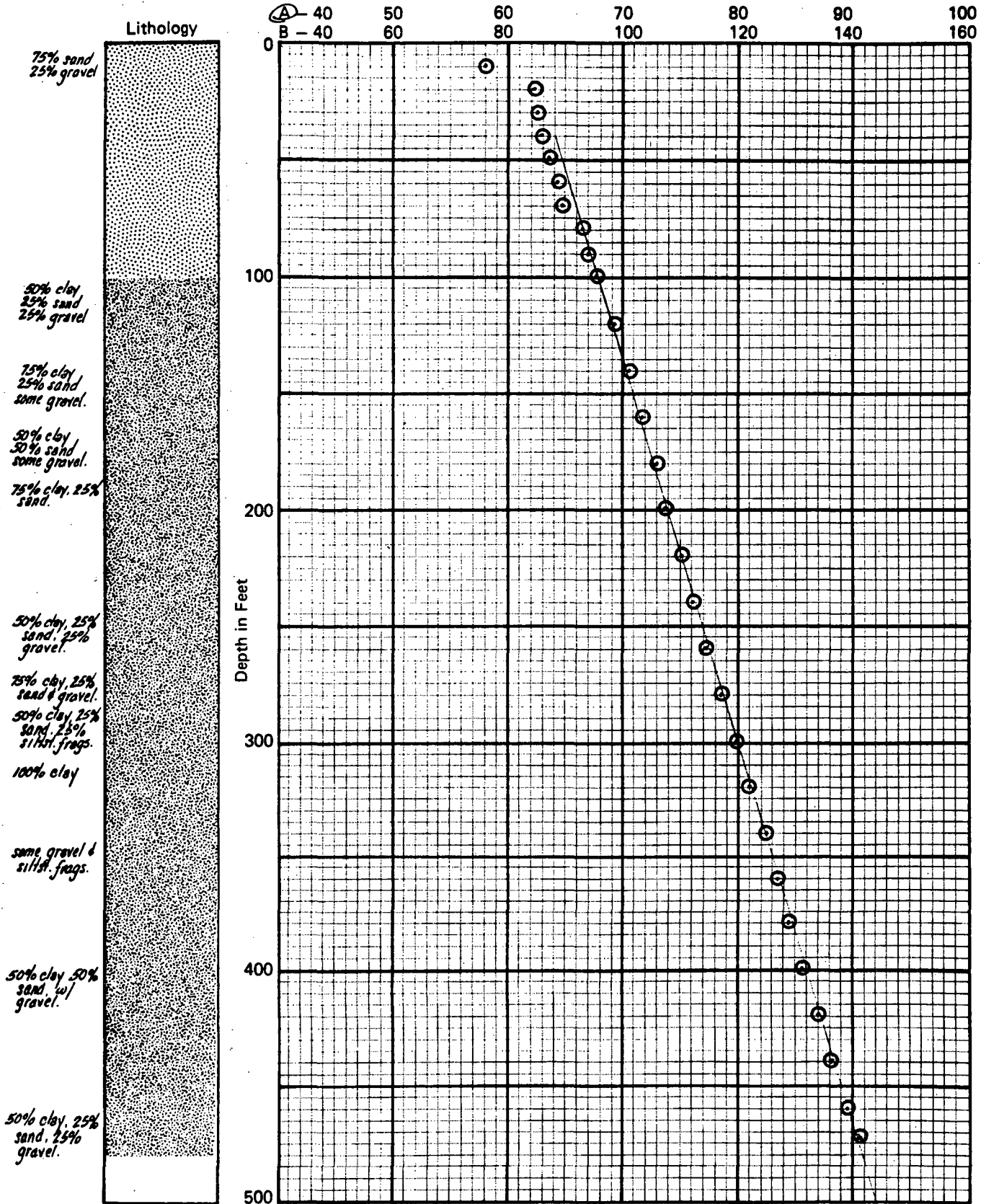
TIME ON BOTTOM: 1520

**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

Prospect: San Emido  
 State: Nevada  
 Hole No.: 34-7B  
 Sec., Twp., Rge.:

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

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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 : FLEJNER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER.

START-BATT.V = 1162

END-BATT.V = 1141

10K

1K

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3815	56.8	220	2437	74.8
20	3375	61.6	240	2367	75.9
30	3365	61.8	260	2298	77.1
40	3325	62.3	280	2234	78.4
50	3255	63.1	300	2163	79.8
60	3195	63.9	320	2106	81.0
70	3155	64.4	340	2034	82.5
80	3095	65.1	360	1991	83.4
90	2978	66.6	380	1924	84.8
100	2932	67.1	400	1871	85.8
120	2818	68.7	420	1824	87.0
140	2731	70.1	440	1775	88.3
160	2652	71.4	460	1724	89.6
180	2570	72.7	477 480	1689	90.6
200	2522	73.5	500		

TIME START: 0730

TIME ON BOTTOM: 0840

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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. 1240

END-BATT. V = 1188

10KΩ

1KΩ

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	3,275	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	2,991	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

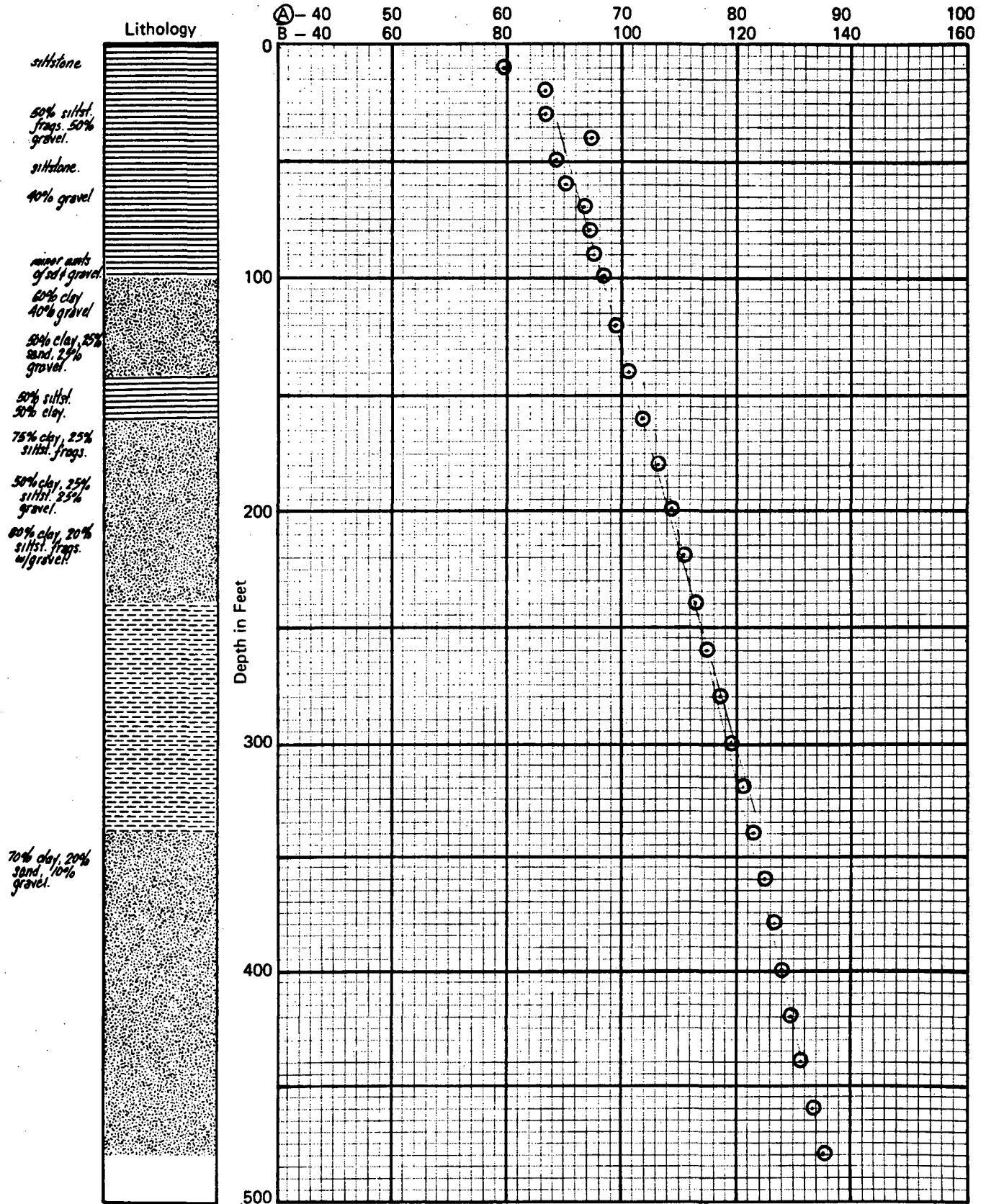
TIME ON BOTTOM: 0950

**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

Prospect: San Emido  
 State: Nevada  
 Hole No.: 35-7B  
 Sec., 27 Twp., \_\_\_\_\_ Rge.: \_\_\_\_\_

Date Completed: 2-6-78  
 Date Logged: 2-9-78 & 2-11-78 & 2-15-78  
 Logged By: J. Flemer  
 Temp. Probe: Chevron

Temperature in °F  
(Circle Scale Used)





CHEVRON RESOURCES COMPANY  
GEOHERMAL 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. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1178

END - BATT. V = 1152

10 KR

1 KR

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
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	3,255	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
90	2,986	66.5	380	2,016	82.9
100	2,939	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: 11 45

TIME ON BOTTOM: 12 55

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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. : 1000

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	69.2	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	1,798	87.7
200	2,466	74.4	500		

TIME START: 0945

TIME ON BOTTOM: 1055

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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. : 1000

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	2,089	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	482 500	1,789	87.9

TIME START: 1105

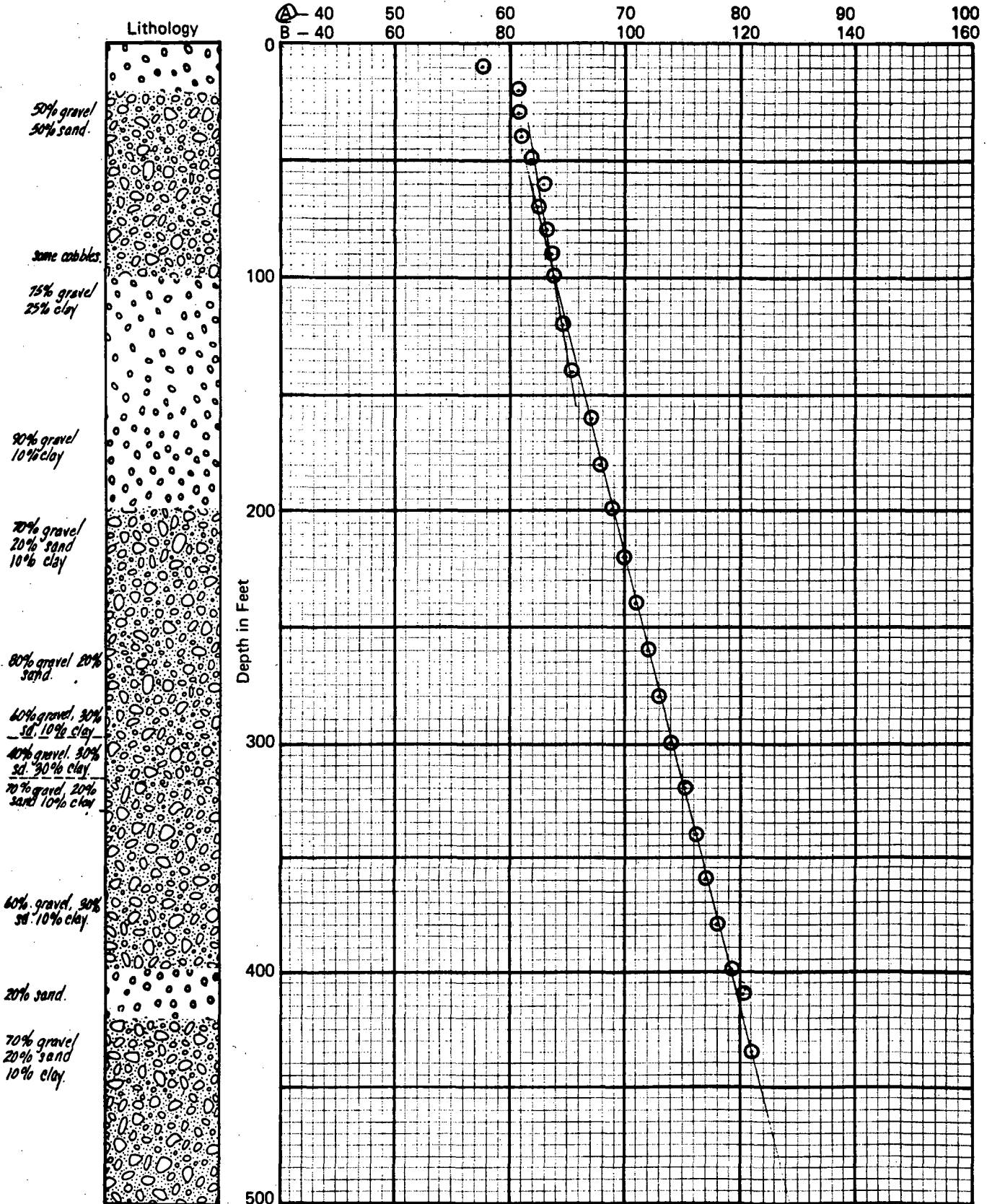
TIME ON BOTTOM: 1250

**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. Flainer  
 Temp. Probe: Chevron

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
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	3925	55.8	220	2764	69.6
20	3515	59.9	240	2694	70.7
30	3525	59.8	260	2627	71.8
40	3495	60.1	280	2565	72.8
50	3435	60.9	300	2499	73.8
60	3365	61.8	320	2433	74.9
70	3355	61.9	340	2371	75.9
80	3325	62.3	360	2310	76.9
90	3285	62.7	380	2258	77.9
100	3255	63.1	400	2206	79.0
120	3195	63.9	420	2152	80.1
140	3125	64.7	435 <del>440</del>	2110	80.9
160	2971	66.6	460		
180	2907	67.4	480		
200	2842	68.3	500		

TIME START: 0945

TIME ON BOTTOM: 1050

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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)
10K <sup>s</sup> 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	<del>435</del> 440	2,108	81.0
1K <sup>s</sup> 160	2,932	67.1	460		
180	2,871	67.9	480		
200	2,809	68.9	500		

TIME START: 0835

TIME ON BOTTOM: 0910

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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.  $\checkmark$  = 1124

END-BATT.  $\checkmark$  = 1072

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,745	57.5	220	2,735	70.0
20	3,985	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	3,335	62.1	340	2,347	76.3
80	3,285	62.7	360	2,288	77.3
90	3,245	63.2	380	2,236	78.3
100	3,225	63.5	400	2,186	79.4
120	3,165	64.2	420	2,133	80.5
140	3,085	65.2	<del>435</del> 440	2,094	81.3
160	2,948	66.9	460		
180	2,881	67.8	480		
200	2,808	68.9	500		

TIME START: 0800

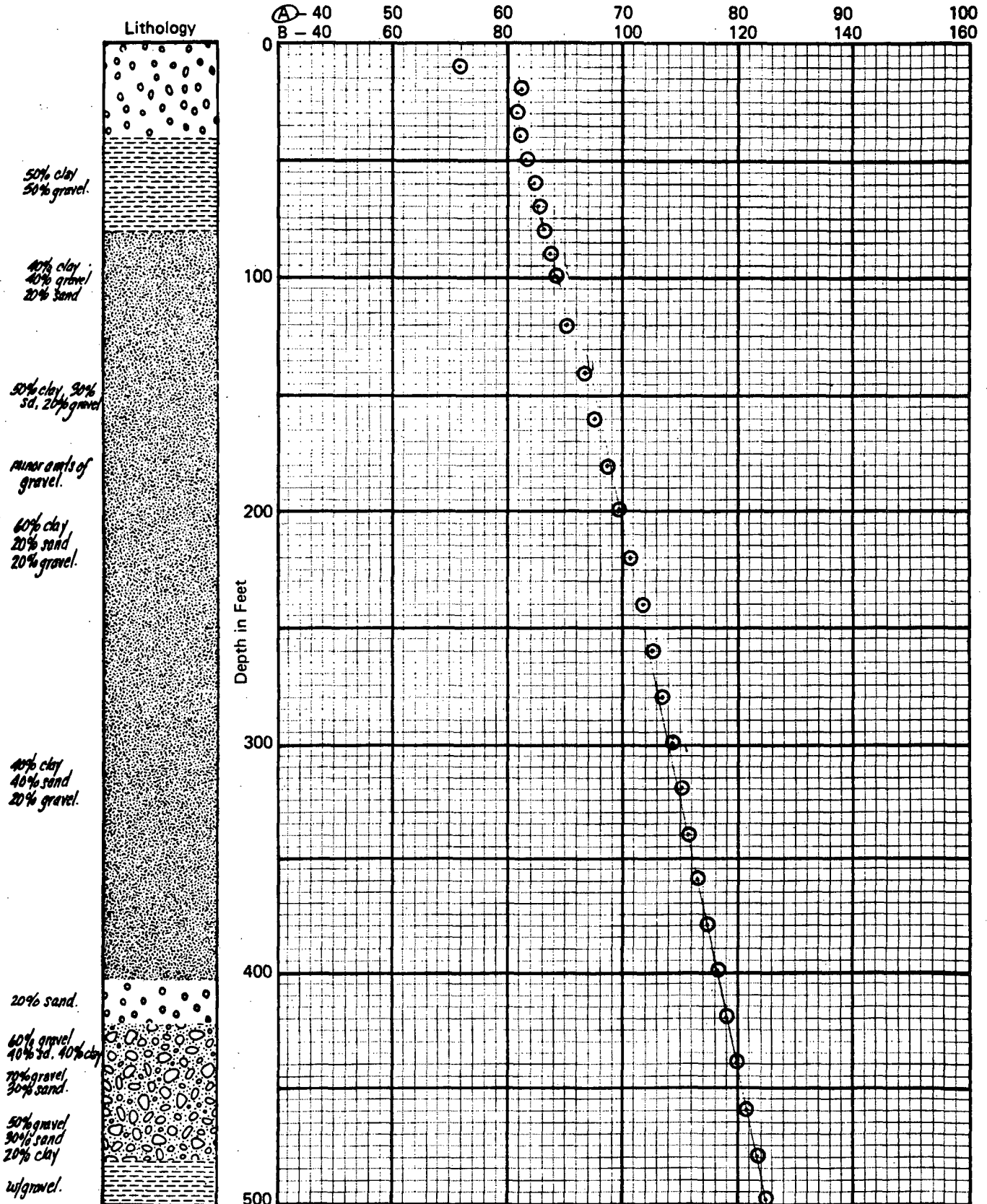
TIME ON BOTTOM: 0905

**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

Prospect: San Emidio  
 State: Nevada  
 Hole No.: 37-28  
 Sec., Twp., Rge.: \_\_\_\_\_

Date Completed: 2-8-78  
 Date Logged: 2-12-78 2-16-78  
 Logged By: J. Flinn  
 Temp. Probe: Chardon

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_



CHEVRON RESOURCES COMPANY  
GEOTHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
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. : 1000

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 KN 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	3,395	61.4	300	2,477	74.2
60	3,345	62.0	320	2,426	75.0
70	3,305	62.5	340	2,378	75.8
80	3,265	63.0	360	2,334	76.5
90	3,225	63.5	380	2,291	77.2
100	3,175	64.1	400	2,246	78.1
120	3,105	65.0	420	2,204	79.0
1 KN 140	2,962	66.8	440	2,160	79.9
160	2,898	67.6	460	2,118	80.8
180	2,828	68.5	480	2,075	81.6
200	2,758	69.7	497 500	2,041	82.3

TIME START: 0940

TIME ON BOTTOM: 1050

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT.  $\checkmark = 1184$

END - BATT.  $\checkmark = 1160$

10k  
AIR

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,925	55.8	220	2,682	70.9
20	3,905	61.3	240	2,619	71.9
30	3,435	60.9	260	2,575	72.6
40	3,415	61.1	280	2,520	73.5
50	3,375	61.6	300	2,471	74.3
60	3,325	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
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	2,074	81.7
200	2,748	69.8	497 <del>500</del>	2,038	82.4

1K

TIME START: 13 15

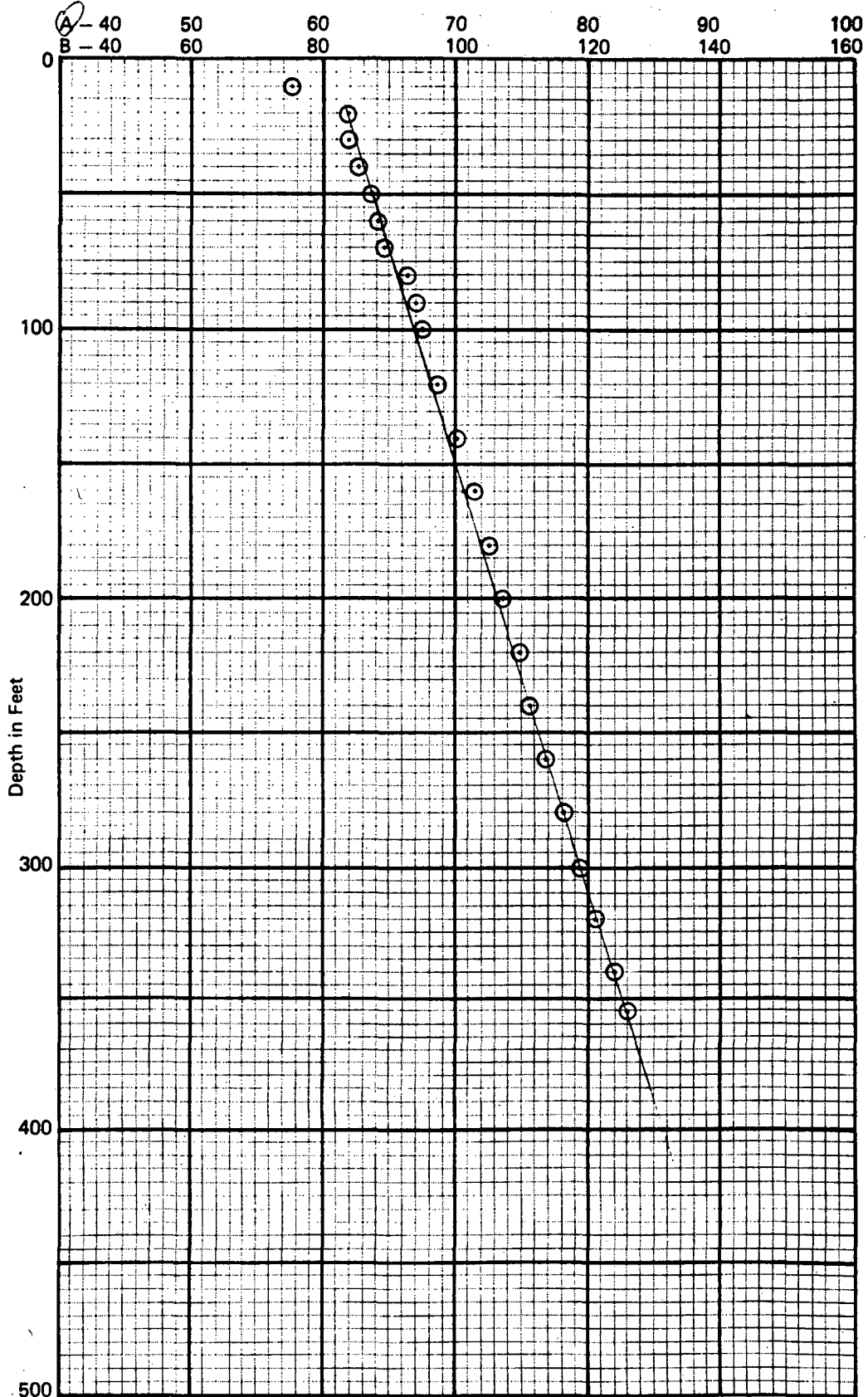
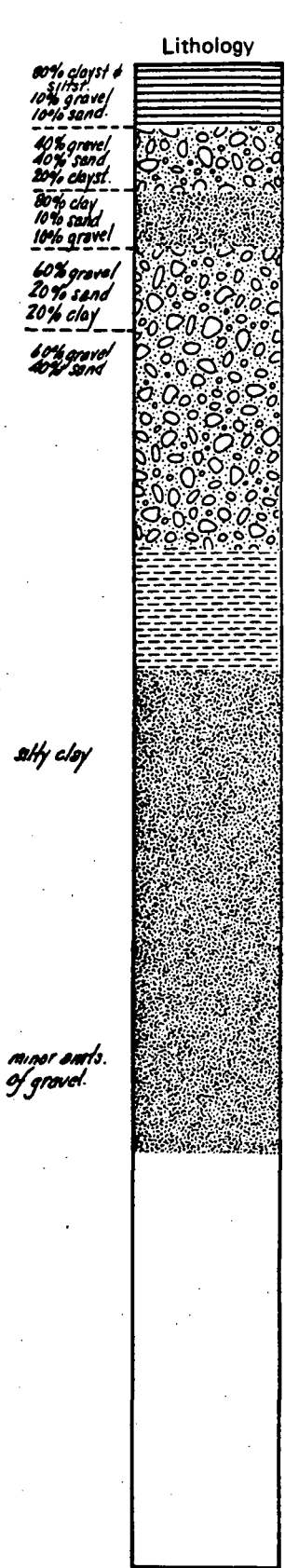
TIME ON BOTTOM: 14 50

**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

Prospect: San Emidio  
 State: Nevada  
 Hole No.: 38-78  
 Sec., 23 Twp., 29N Rge.: 23E  
 1000' S & 2500' W of NE cor

Date Completed: 1-28-78  
 Date Logged: 2-6-78 (2nd log)  
 Logged By: J. Fleiner  
 Temp. Probe: Chevron (100')

Temperature in °F  
 (Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START- BATT. V = 1164

END- BATT. V = 1139

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	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	2,965	66.7	<del>356</del> 360	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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV  
HOLE NO. : 38-7B  
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

END - BATT. V = 1108

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,735	57.6	220	2,133	74.9
20	3,355	61.9	240	2,375	75.8
30	3,355	61.9	260	2,310	76.9
40	3,285	62.7	280	2,246	78.1
50	3,225	63.5	300	2,183	79.4
60	3,175	64.1	320	2,125	80.6
70	3,125	64.7	340	2,060	82.0
80	2,992	66.4	<del>356</del> 360	2,008	83.0
90	2,945	67.0	380		
100	2,906	67.5	400		
120	2,817	68.7	420		
140	2,730	70.1	440		
160	2,638	71.6	460		
180	2,567	72.7	480		
200	2,499	73.8	500		

TIME START: 12 20

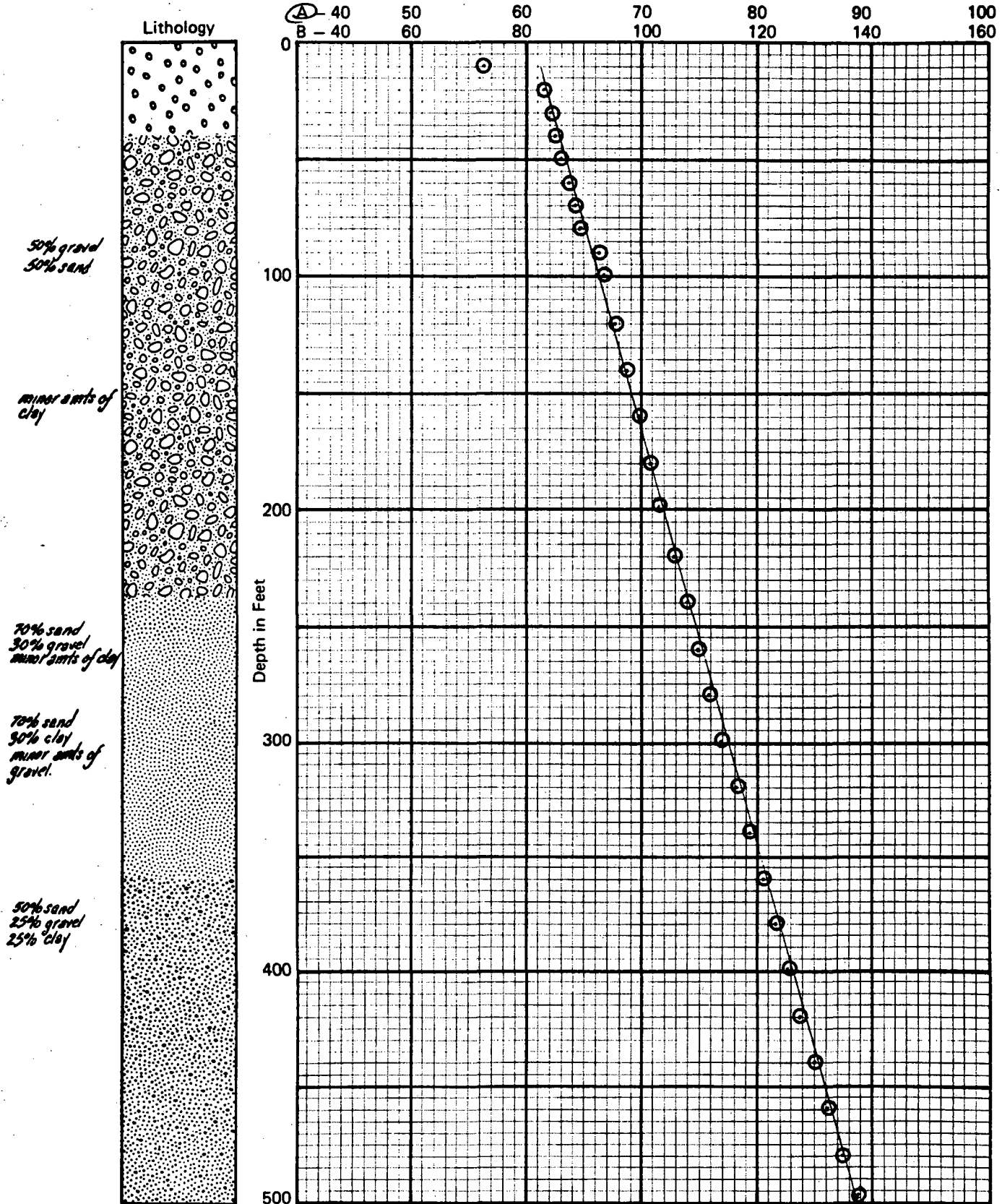
TIME ON BOTTOM: 13 10

**CHEVRON RESOURCES CO.**  
**GEOTHERMAL DIVISION**

Prospect: San Emido  
 State: Nevada  
 Hole No.: 39-7B  
 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)



CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 39-78  
S.T.R. : 221 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	3,385	61.5	240	2,489	74.0
30	3,335	62.1	260	2,429	74.9
40	3,315	62.4	280	2,369	75.9
50	3,265	63.0	300	2,308	76.9
60	3,215	63.6	320	2,245	78.2
70	3,165	64.2	340	2,190	79.3
80	3,125	64.7	360	2,133	80.5
90	2,988	66.4	380	2,077	81.6
100	2,966	66.7	400	2,023	82.7
120	2,896	67.6	420	1,968	83.8
140	2,825	68.6	440	1,913	85.0
160	2,752	69.8	460	1,860	86.1
180	2,689	70.8	480	1,809	87.4
200	2,645	71.5	497 500	1,764	88.6

TIME START: 1435

TIME ON BOTTOM: 1555

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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. : 1000

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	497 500	1,763	88.4

TIME START: 0815

TIME ON BOTTOM: 0920

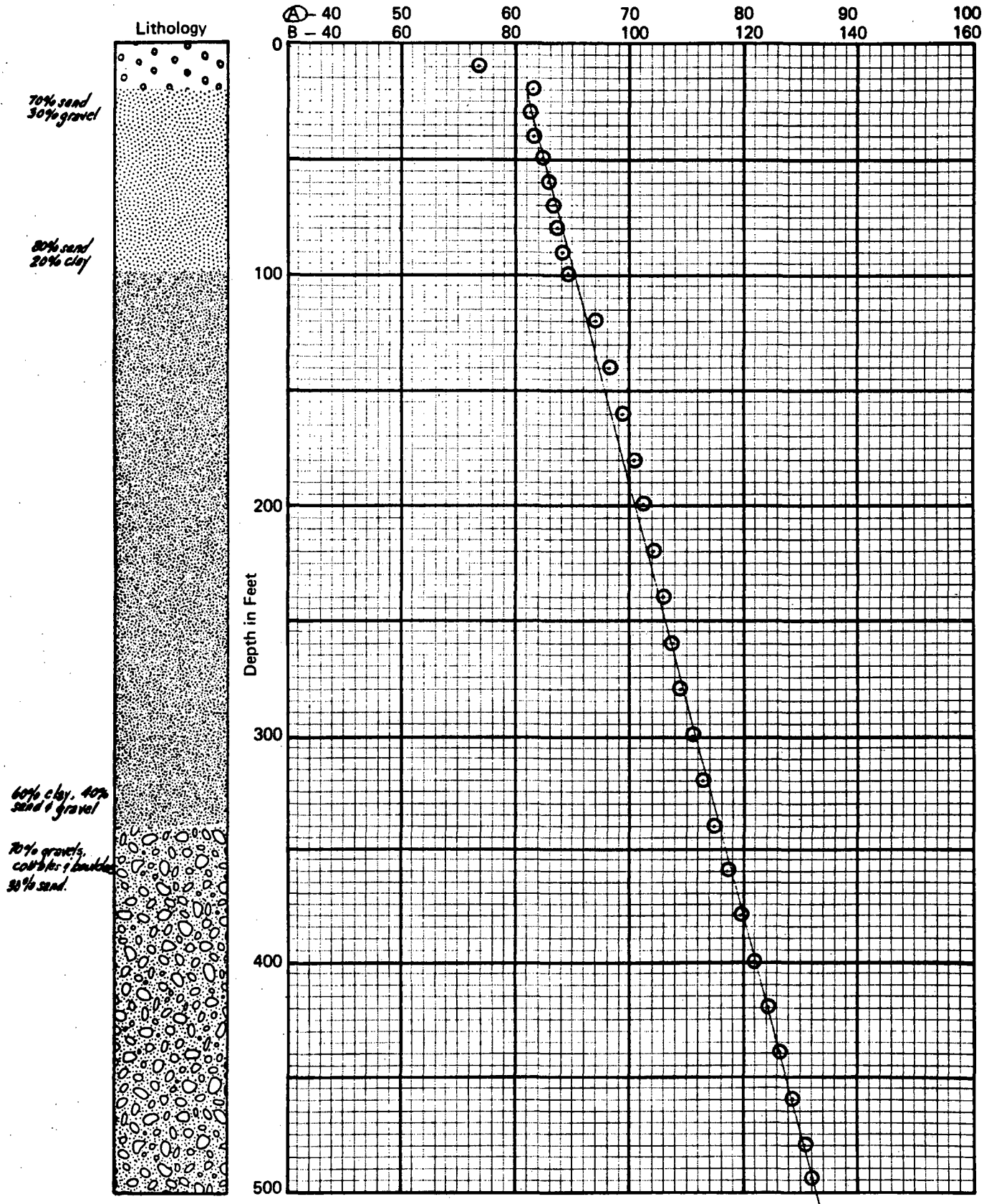


**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

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

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

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 40-78  
S.T.R. : 27, T29N, R23E

DATE COMPLETED : 2-13-78  
DATE LOGGED : 2-16-78  
LOGGED BY : FLEINER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER

START - BATT.  $\checkmark$  = 1144

END - BATT.  $\checkmark$  = 1136

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,815	56.8	220	2,604	72.1
20	3,385	61.5	240	2,552	73.0
30	3,405	61.3	260	2,507	73.7
40	3,375	61.6	280	2,458	74.5
50	3,325	62.3	300	2,400	75.4
60	3,275	62.9	320	2,344	76.3
70	3,245	63.2	340	2,286	77.3
80	3,205	63.7	360	2,226	78.5
90	3,175	64.1	380	2,166	79.8
100	3,125	64.7	400	2,105	81.0
120	2,941	67.0	420	2,047	82.2
140	2,851	68.2	440	1,998	83.2
160	2,778	69.3	460	1,942	84.4
180	2,714	70.4	480	1,899	85.3
200	2,665	71.2	494 500	1,865	86.0

TIME START: 13 40

TIME ON BOTTOM: 14 55

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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 : FLEINER  
 UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START - BATT.  $\checkmark$  = 1182

END - BATT.  $\checkmark$  = 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	<del>498</del> 500	1,863	86.0

TIME START: 1305

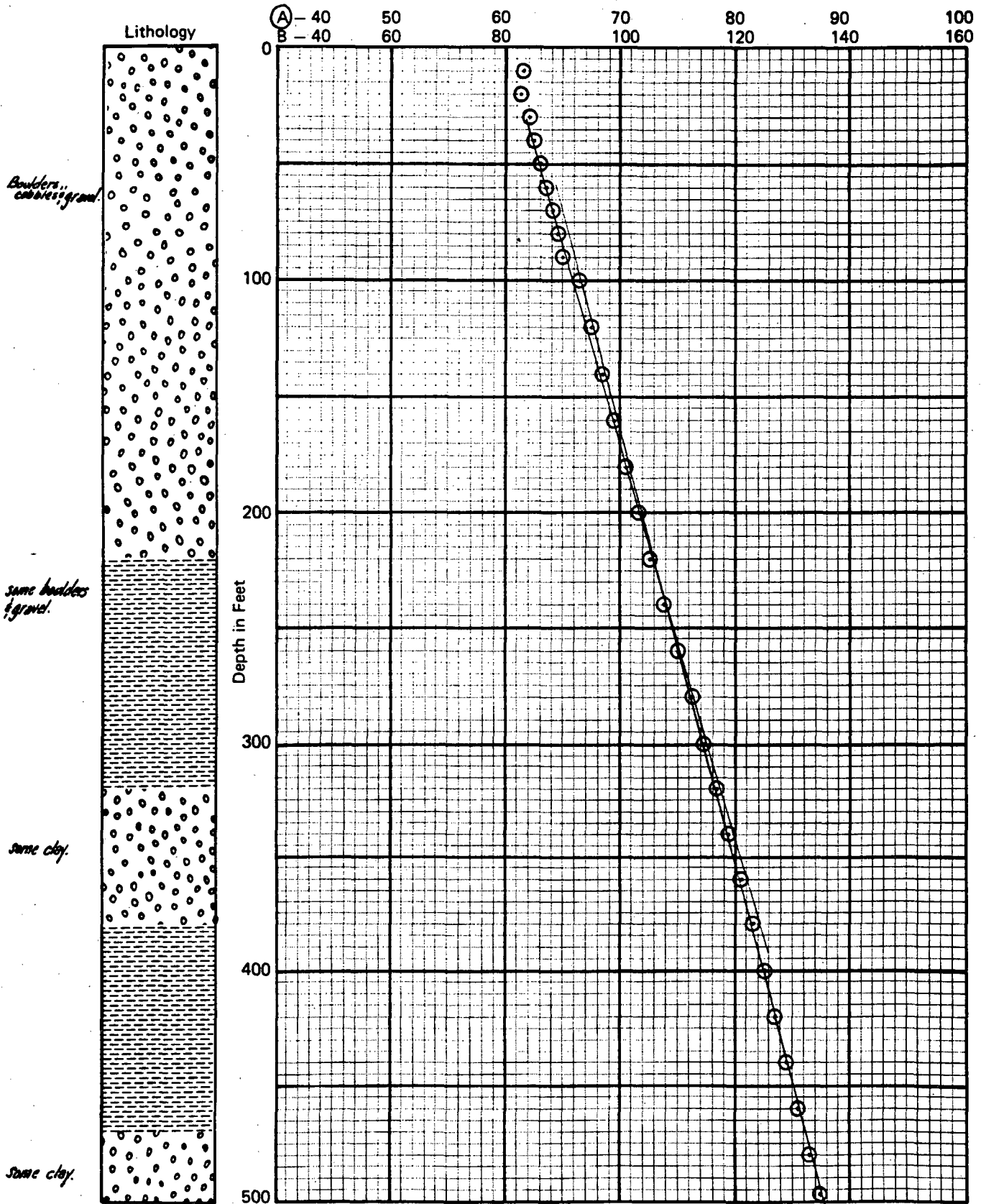
TIME ON BOTTOM: 1410

**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

Prospect: San Emidio  
 State: Nevada  
 Hole No.: 41-78  
 Sec., 22 Twp., 29N Rge.: 23E

Date Completed: 3-6-78  
 Date Logged: 3-15-78  
 Logged By: Jack Fleiner  
 Temp. Probe: Chevron 1000  
2nd log

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 41-78  
S.T.R. : S. 38 T29N R23E

DATE COMPLETED : 3-6-78  
DATE LOGGED : 3-9-78  
LOGGED BY : FLEINER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER

START - BATT.  $\checkmark$  = 1169

END - BATT.  $\checkmark$  = 1147

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	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	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	496 500	1,804	87.5

TIME START: 1020

TIME ON BOTTOM: 1130

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV  
HOLE NO. : 41-78  
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

10%  
AIR

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3385	61.5	220	2564	72.8
20	3405	61.3	240	2494	73.9
30	3335	62.1	260	2420	75.1
40	3315	62.4	280	2354	76.2
50	3265	63.0	300	2292	77.2
60	3225	63.5	320	2236	78.3
70	3175	64.1	340	2184	79.4
80	3145	64.5	360	2133	80.5
90	3105	65.0	380	2079	81.6
100	2976	66.6	400	2026	82.7
120	2903	67.5	420	1978	83.6
140	<del>2834</del>	68.4	440	1934	84.5
160	2768	69.5	460	1889	85.5
180	2700	70.6	480	1845	86.5
200	2630	71.7	<del>496</del> 500	1810	87.4

TIME START: 1115

TIME ON BOTTOM: 12 25

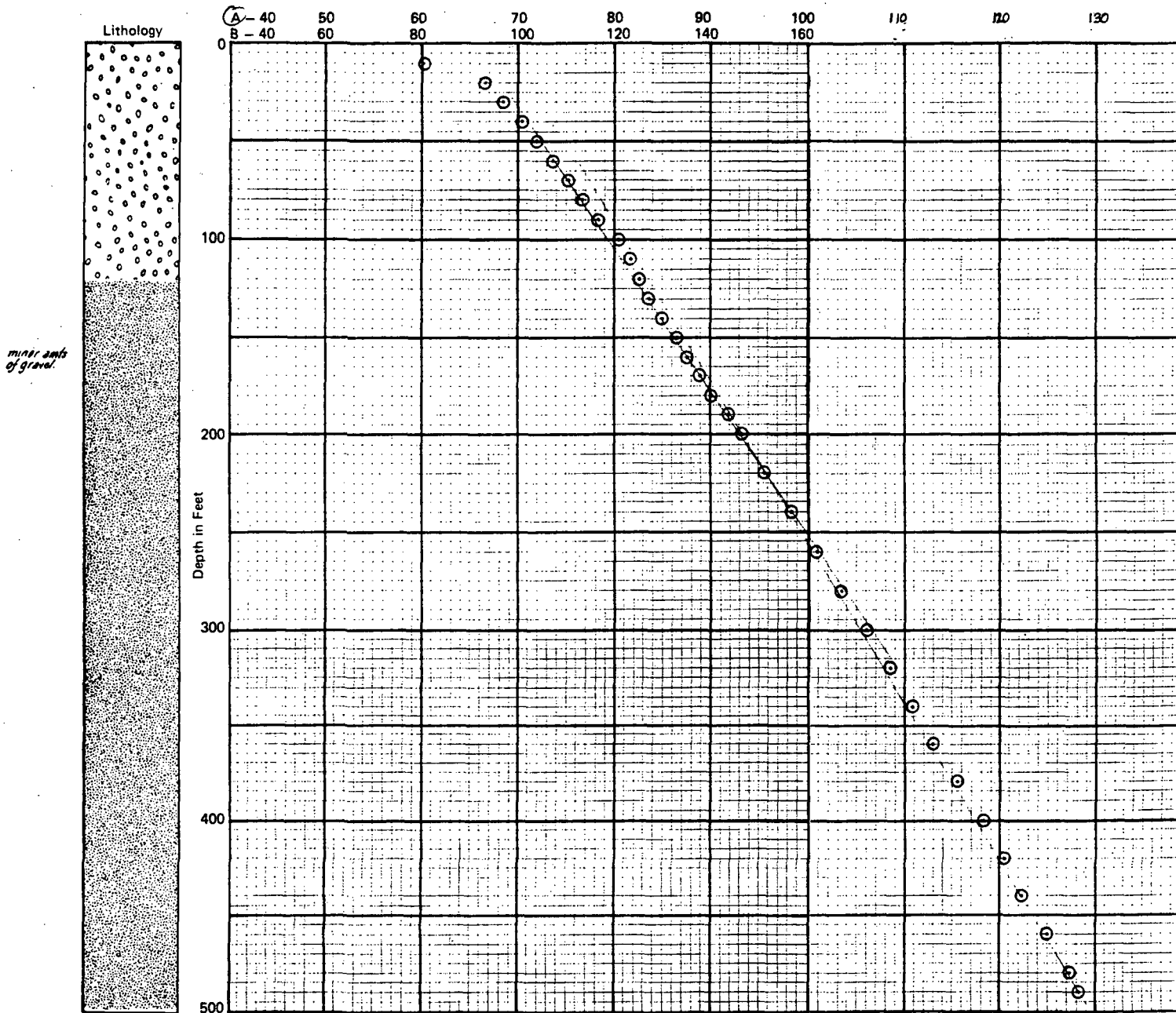
2nd log

**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

Prospect: San Emidio  
State: Ariz  
Hole No.: 42-78  
Sec., Twp., Rge.:

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

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EM1010  
 STATE : NEV  
 HOLE NO. : 42-78  
 S.T.R. : 516 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 RESISTOR & THERMOMETER.

START- BATT. V = 1161

END- BATT. V = 1141

15 KA  
AIR  
1 KA

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3165	64.6	220	1505	95.5
20	2921	67.3	240	1422	98.2
30	2821	68.7	260	1345	100.8
40	2714	70.4	280	1273	103.2
50	2596	72.3	300	1201	106.0
60	2493	73.9	320	1143	108.4
70	2396	75.5	340	1086	110.8
80	2307	76.9	360	1035	112.9
90	2230	78.5	380	985	115.5
100	2155	80.0	400	935	118.1
120	2018	82.8	420	896	120.1
140	1920	84.8	440	858	122.1
160	1815	87.3	460	819	125.0
180	1691	90.5	480	779	127.2
200	1592	93.1	490 <del>500</del>	764	128.2

TIME START: 14 25

TIME ON BOTTOM: 15 40



CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 42-78  
S.T.R. : 516 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 = 1151

END-BATT. V = 1129

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3495	60.1	220	1498	95.7
20	2968	66.7	240	1417	98.4
30	2837	68.4	260	1340	100.9
40	2716	70.3	280	1267	103.4
50	2612	72.0	300	1197	106.1
60	2506	73.7	320	1139	108.5
70	2411	75.2	340	1082	110.9
80	2317	76.7	360	1032	113.0
90	2242	78.2	380	982	115.6
100	2138	80.9	400	933	118.2
110	2068	81.8	420	892	120.3
120	2020	82.8	440	856	122.2
130	1971	83.8	460	813	125.0
140	1912	85.0	480	779	127.2
150	1842	86.6	500	764	128.2
160	1797	87.7			
170	1750	89.0			
180	1706	90.1			
190	1634	92.0			
200	1586	93.2			

TIME START: 1125

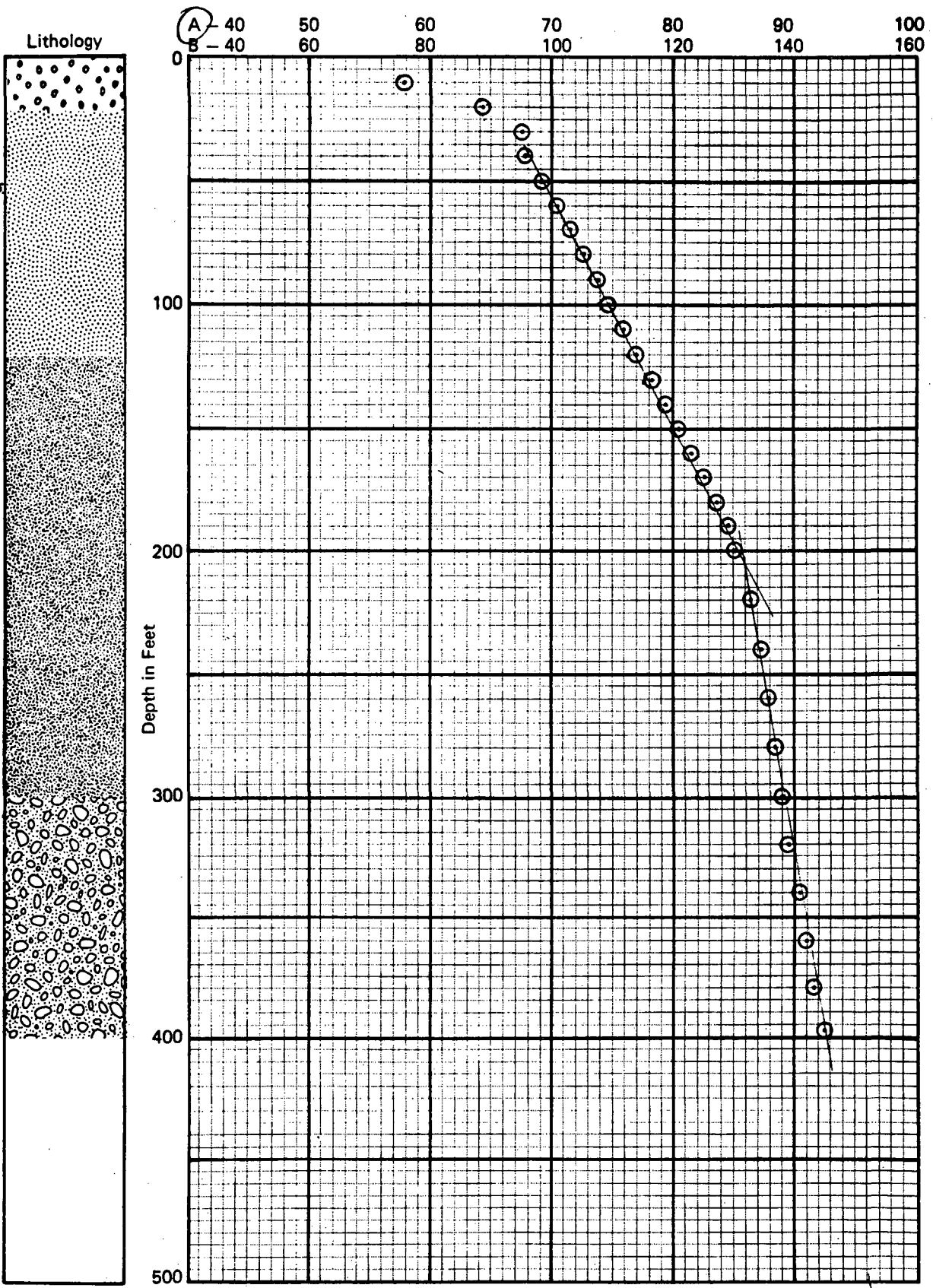
TIME ON BOTTOM: 1205

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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV  
HOLE NO. : 43-78  
S.T.R. : S15 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

1000  
AIR

1000

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,755	57.4	220	1,850	86.3
20	3,085	65.2	240	1,816	87.2
30	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	<del>397</del> 400	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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 23-78  
S.T.R. : 515 T29N R23E

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

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START - BATT.  $\checkmark = 1162$

END - BATT.  $\checkmark = 1134$

10 ft  
IK

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	1,749	89.0
60	<del>2,715</del>	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	<del>397</del> 400	1,611	92.6
110	2,366	76.0			
120	2,303	77.0	420		
130	2,243	78.2			
140	2,184	79.4	440		
150	2,132	80.5			
160	2,076	81.6	460		
170	2,021	82.8			
180	1,968	83.8	480		
190	1,926	84.7			
200	1,909	85.1	500		

TIME START: 0920

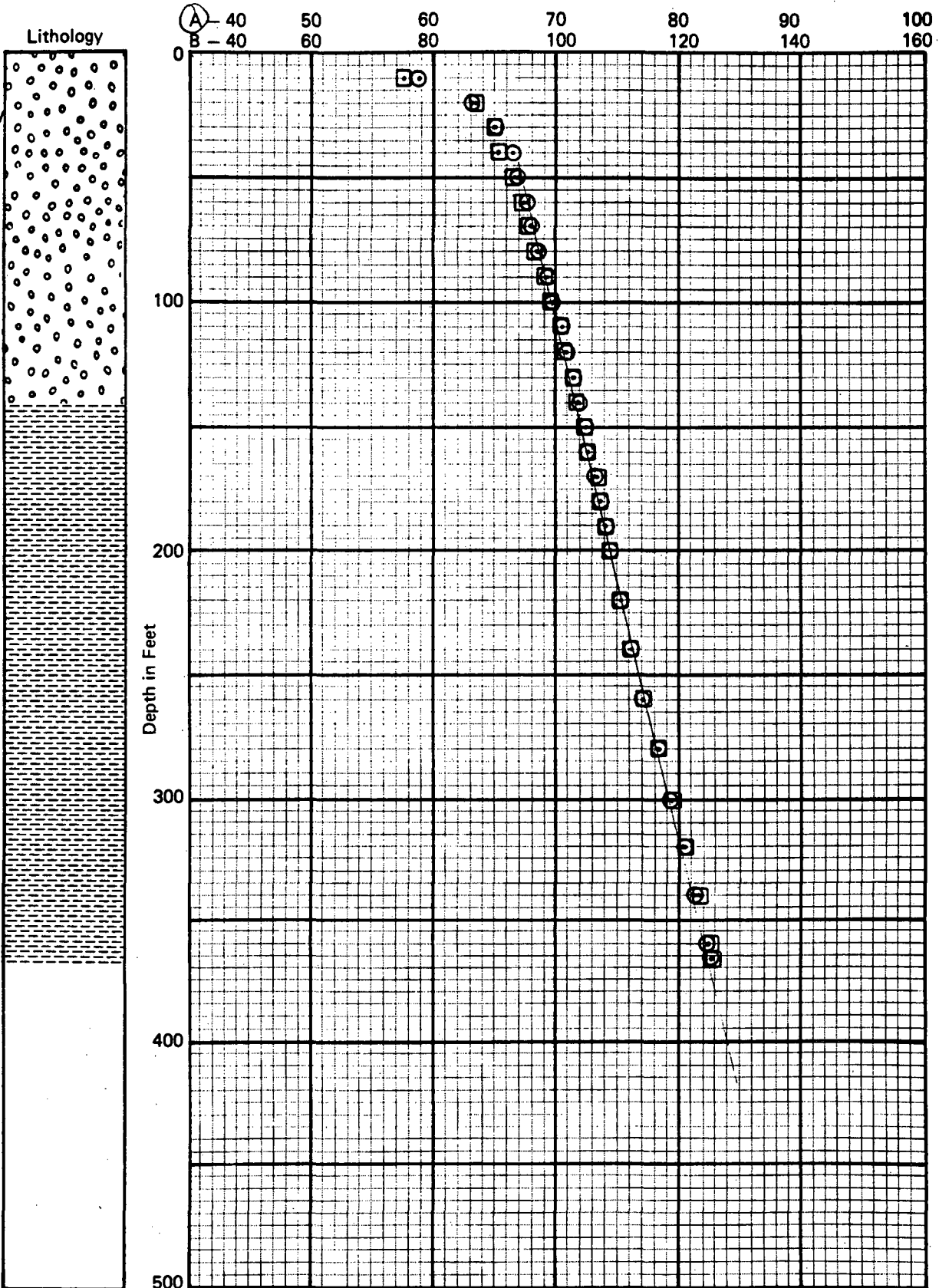
TIME ON BOTTOM: 0955

**CHEVRON RESOURCES CO.  
GEOHERMAL 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 Fleener  
 Temp. Probe: Chevron 1000

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : JAN EMIDIO  
STATE : NEV.  
HOLE NO. : 44-78  
S.T.R. : S.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

10KΩ

1KΩ

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	2,908	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	<del>368</del> 380	2,030	82.6
100	2,741	69.9	400		
110	2,709	70.5			
120	2,678	71.0	420		
130	2,642	71.5			
140	2,615	72.0	440		
150	2,586	72.4			
160	2,562	72.8	460		
170	2,536	73.2			
180	2,507	73.7	480		
190	2,483	74.1			
200	2,459	74.5	500		

TIME START: 1150

TIME ON BOTTOM: 1305

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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.  $\sqrt{}$  = 1146

END-BATT.  $\sqrt{}$  = 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	<del>380</del> 380	2,025	82.7
100	2,745	69.9	400		
110	2,710	70.4			
120	2,679	70.9	420		
130	2,644	71.5			
140	2,616	71.9	440		
150	2,588	72.4			
160	2,562	72.8	460		
170	2,533	73.3			
180	2,505	73.7	480		
190	2,481	74.1			
200	2,455	74.5	500		

TIME START: 1105

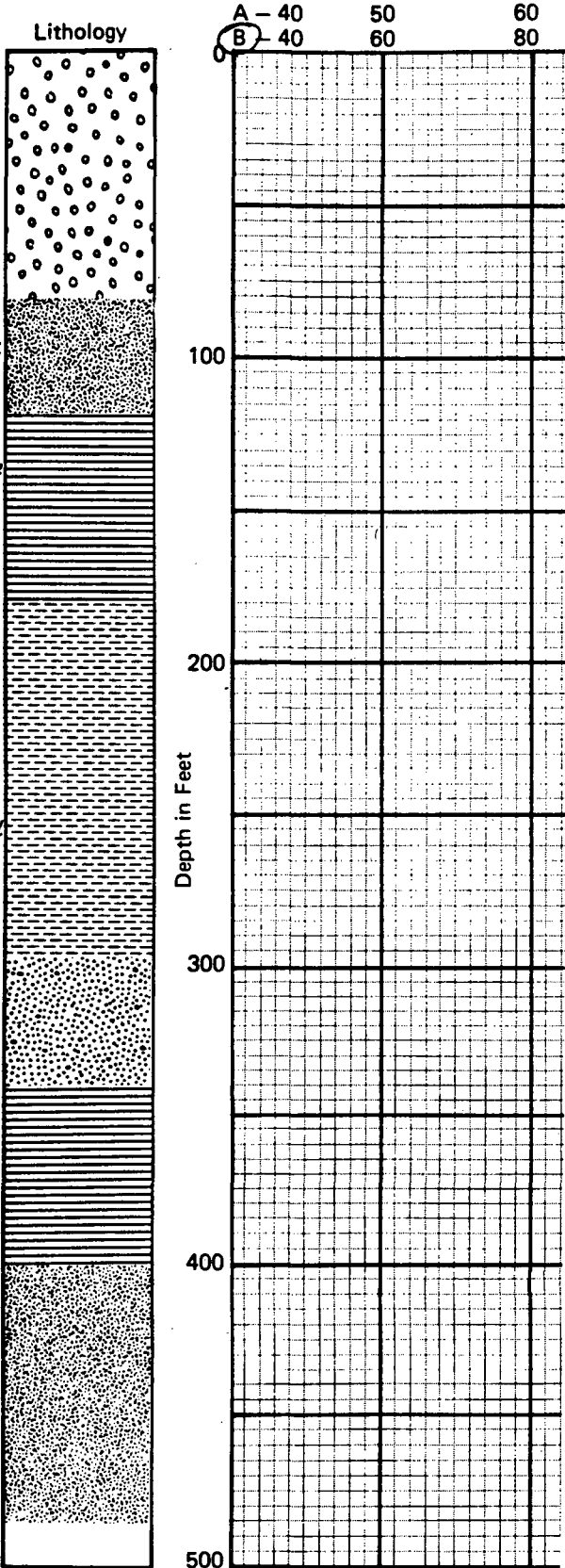
TIME ON BOTTOM: 1215

**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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
STATE : NEV  
HOLE NO. : 45-78  
S.T.R. : 516 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	1840	86.6	220	535	147.3
20	1160	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	440	550	145.8
130	323	177.7	460	518	148.9
140	352	172.3	480	489	152.4
150	379	167.5	482		
160	401	164.1	500	487	152.7
170	420	161.4			
180	441	158.3			
190	464	155.5			
200	486	152.8			

TIME START: 0940

TIME ON BOTTOM: 1055

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 45-78  
S.T.R. : 516 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

1K-AIR

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			
120	309	180.8	420	592	141.7
130	337	175.0			
140	368	169.4	440	552	145.6
150	393	165.3			
160	413	162.4	460	518	148.9
170	433	159.5			
180	454	156.7	480	489	152.4
190	477	153.9	482		
200	498	151.3	500	487	152.7

TIME START: 14 20

TIME ON BOTTOM: 15 40

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN ENIDIO  
STATE : NEV.  
HOLE NO. : 45-78  
S.T.R. : S16 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

1 KPa  
AIR

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	273	189.2	420	589	141.9
120	300	182.7			
130	329	176.5			
140	359	171.0			
150	385	166.5			
160	406	163.7			
170	426	160.5			
180	447	157.5			
190	470	154.7			
200	492	152.1			
			500	487	152.7

TIME START: 1335

TIME ON BOTTOM: 1450

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 45-78  
S.T.R. : 514 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

1K2

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	266	191.0	420	584	142.4
120	293	184.2	440	542	146.6
130	322	178.0	460	512	149.7
140	352	172.3	480	485	152.9
150	378	167.6	500	484	153.0
160	400	164.3			
170	419	161.5			
180	440	158.4			
190	463	155.6			
200	485	152.9			

TIME START: 0940

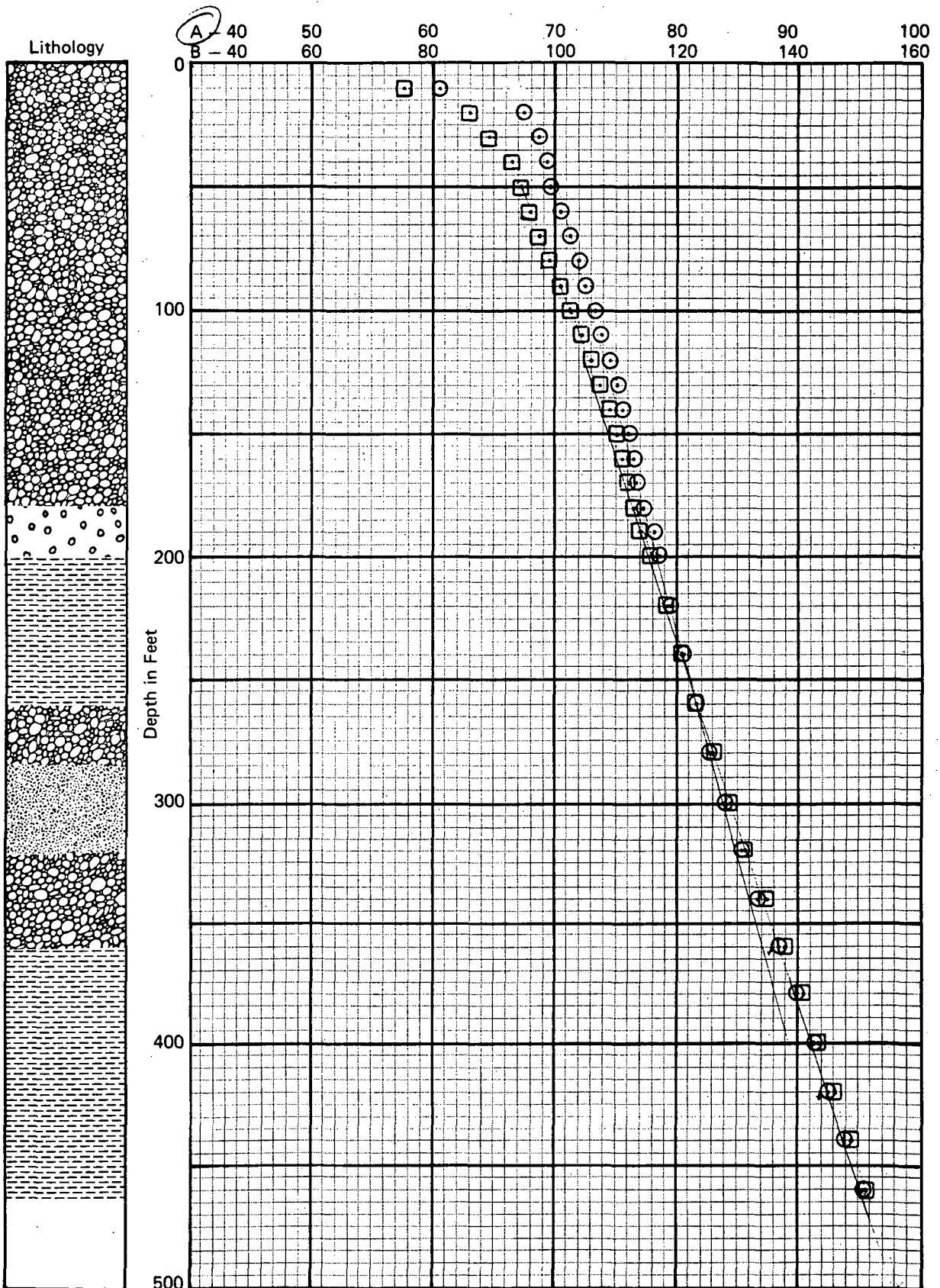
TIME ON BOTTOM: 1055

**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

Prospect: San Emidio  
 State: Nevada  
 Hole No.: 46-7B  
 Sec., 15 Twp., 29N Rge.: 23E

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

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_



CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EM 1010  
 STATE : NEV.  
 HOLE NO. : 46-78  
 S.T.R. : S 15 T 29 N R 23 E

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. ✓ = 1151                      END - BATT. ✓ = 1123

10k  
AIR

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	<del>2355</del> 3455	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			
120	2,452	74.6	420	1,611	92.6
130	2,421	75.1			
140	2,387	75.6	440	1,561	93.9
150	2,356	76.1	460		
160	2,336	76.4	460	1,510	95.3
170	2,312	76.8			
180	2,289	77.2	480		
190	2,249	78.1			
200	2,223	78.6	500		

TIME START: 11 15

TIME ON BOTTOM: 12 20

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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	440	1,545	94.3
130	2,505	73.7	460	1,501	95.6
140	2,458	74.5			
150	2,419	75.1			
160	2,388	75.6			
170	2,355	76.1			
180	2,325	76.6			
190	2,300	77.0			
200	2,254	78.0			

TIME START: 1105

TIME ON BOTTOM: 12 10

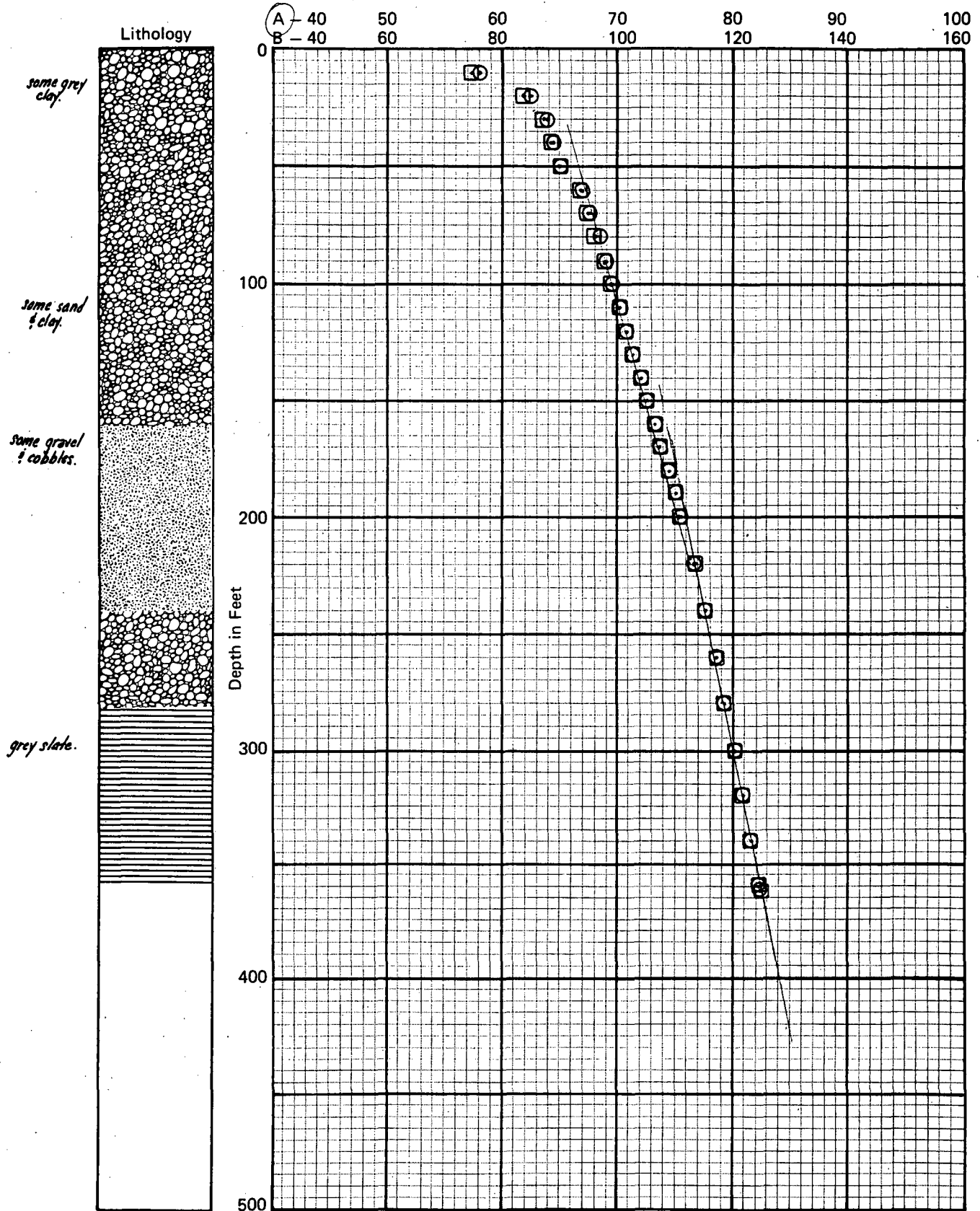


**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

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

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

Temperature in °F  
(Circle Scale Used)



CHEVRON RESOURCES COMPANY  
GEOHERMAL 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 = 1194

END - BATT. V = 1168

10KΩ

1KΩ

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
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
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	<del>380</del> 362	2,038	82.4
100	2,769	69.5	400		
110	2,728	70.2	420		
120	2,687	70.8			
130	2,650	71.4			
140	2,610	72.0	440		
150	2,571	72.7			
160	2,534	73.3	460		
170	2,498	73.8			
180	2,445	74.7	480		
190	2,415	75.2			
200	2,399	75.4	500		

TIME START: 1245

TIME ON BOTTOM: 1400

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

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

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. ✓ = 1138

END- BATT. ✓ = 1114

10K

1K

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	<del>362</del> 380	2,042	82.3
100	2,762	69.6	400		
110	2,724	70.2			
120	2,684	70.9	420		
130	2,649	71.4			
140	2,609	72.1	440		
150	2,569	72.7			
160	2,531	73.3	460		
170	2,499	73.8			
180	2,448	74.6	480		
190	2,417	75.1			
200	2,390	75.6	500		

TIME START: 11 50

TIME ON BOTTOM: 1300

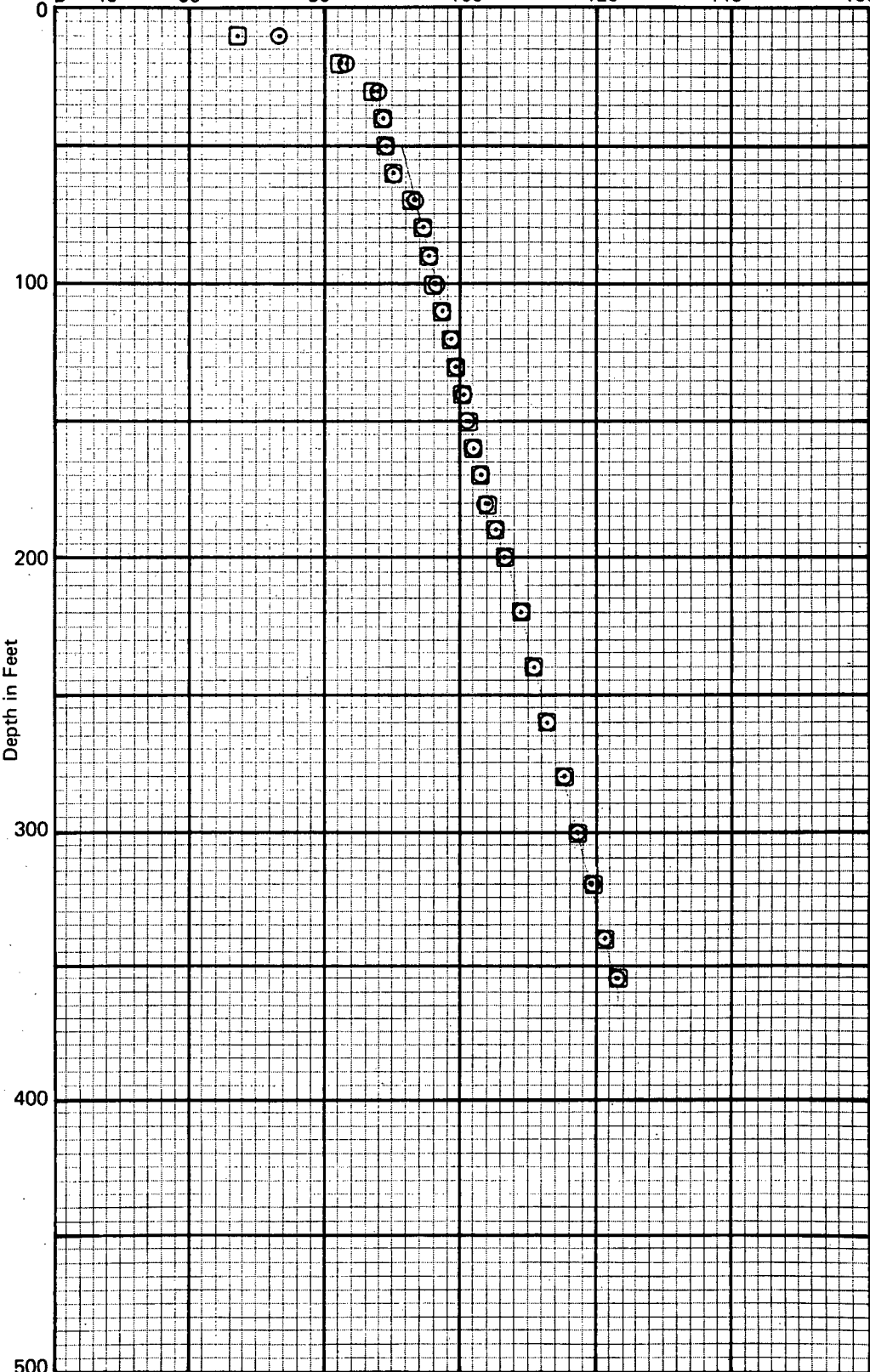
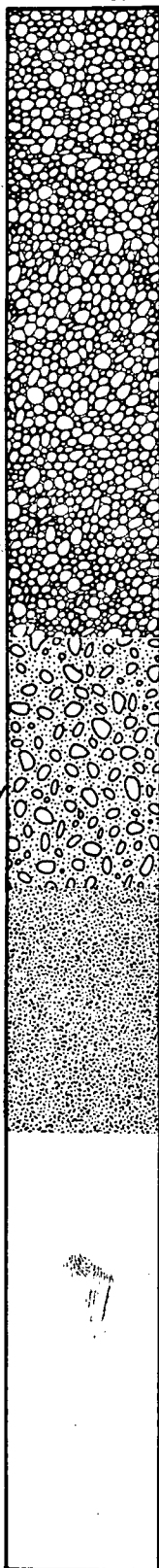
**CHEVRON RESOURCES CO.  
GEOTHERMAL DIVISION**

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 1000'

Temperature in °F  
(Circle Scale Used)

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



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 48-78  
S.T.R. : S 10 T29 N R23 E

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

10KΩ

1KΩ

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	355 <del>360</del>	2,082	81.5
90	2,896	67.6	380		
100	2,859	68.0	400		
110	2,820	68.7			
120	2,786	69.2	420		
130	2,755	69.7			
140	2,726	70.2	440		
150	2,695	70.7			
160	2,667	71.1	460		
170	2,636	71.6			
180	2,606	72.1	480		
190	2,568	72.7			
200	2,532	73.3	500		

TIME START: 15 15

TIME ON BOTTOM: 17 25

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

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

DATE COMPLETED : 3-24-78  
DATE LOGGED : 4-2-78  
LOGGED BY : FLEINER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

START - BATT. V = 1204

END - BATT. V = 1178

10KΩ

1KΩ

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	3,385	61.5	240	2,402	75.4
30	3,195	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	3,095	65.1	320	2,172	79.7
70	2,962	66.8	340	2,122	80.7
80	2,930	67.2	355	2,085	81.4
			360		
90	2,899	67.6	380		
100	2,857	68.1	400		
110	2,815	68.7			
120	2,784	69.3	420		
130	2,757	69.7			
140	2,727	70.2	440		
150	2,700	70.6			
160	2,668	71.1	460		
170	2,639	71.6			
180	2,618	71.9	480		
190	2,571	72.7			
200	2,536	73.2	500		

TIME START: 0950

TIME ON BOTTOM: 1025

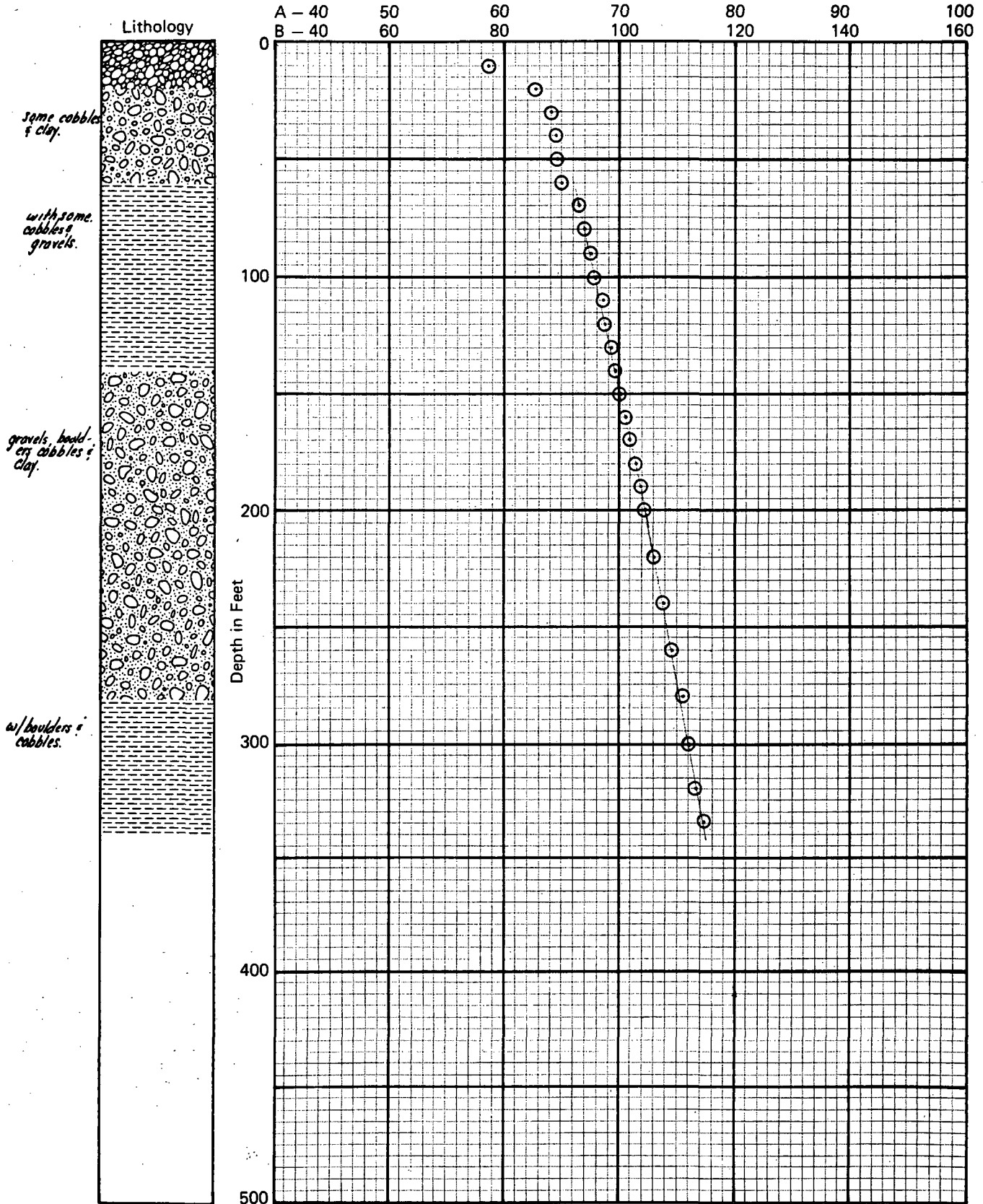
**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

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: \_\_\_\_\_

Temperature in °F  
 (Circle Scale Used)

*first log*



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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 : 4-7-78  
LOGGED BY : FLEINER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START-BATT.  $\checkmark = 1168$

END-BATT.  $\checkmark = 1154$

10K $\Omega$

1K $\Omega$

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	<del>334</del> 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			
140	2,772	69.4			
150	2,745	69.9			
160	2,718	70.3			
170	2,689	70.8			
180	2,658	71.3			
190	2,633	71.7			
200	2,606	72.1	500		

TIME START: 1525

TIME ON BOTTOM: 1645



CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

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

DATE COMPLETED : 3-30-78  
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

10KΩ

1KΩ

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	334 340	2,286	77.3
80	2,940	67.0	360		
90	2,904	67.5	380		
100	2,872	67.9	400		
110	2,820	68.5			
120	2,812	68.8	420		
130	2,767	69.2			
140	2,755	69.7	440		
150	2,729	70.1			
160	2,703	70.6	460		
170	2,675	71.0			
180	2,646	71.5	480		
190	2,621	71.9			
200	2,598	72.2	500		

TIME START: 10 35

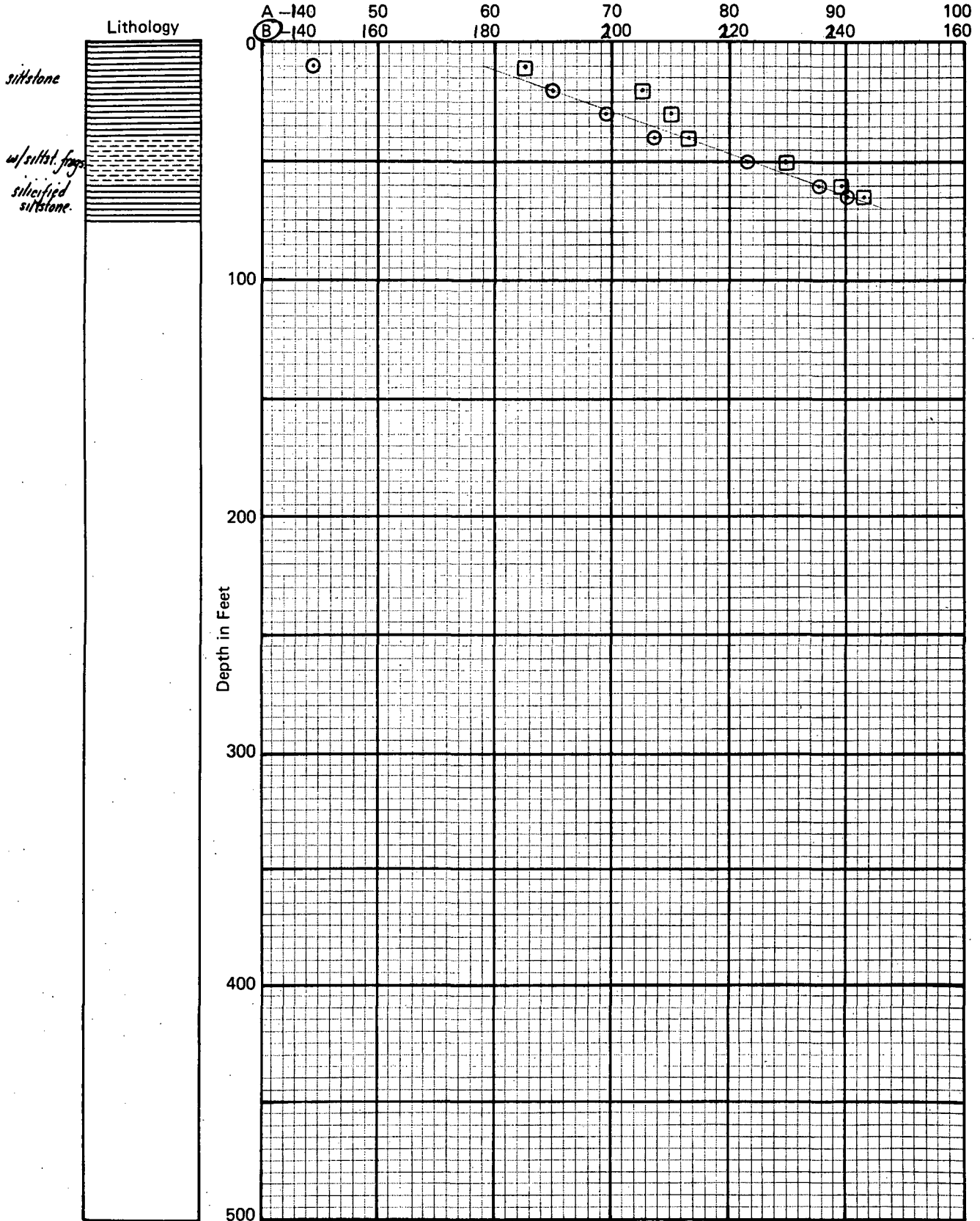
TIME ON BOTTOM: 11 50

**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

Prospect: San 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. : 1000

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		
61	143	243.0	340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 0820

TIME ON BOTTOM: 0845

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EM 1010  
 STATE : NEV.  
 HOLE NO. : 50-70  
 S.T.R. : S16 T29N R23E

DATE COMPLETED : 3-31-78  
 DATE LOGGED : 4-2-78  
 LOGGED BY : FLEJNER  
 UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS & THERMOMETER

START - BATT. V = 1210

END - BATT. V = 1188

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	517	149.0	220		
20	268	190.5	240		
30	237	199.4	260		
40	213	207.6	280		
50	179	221.9	300		
60	154	235.7	320		
<del>64</del> 70	147	240.1	340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 0900

TIME ON BOTTOM: 0915

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 50-78  
S.T.R. : S-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 - BATT. V = 1168

END - BATT. 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		
<del>70</del> 64	143	243.0	340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 1010

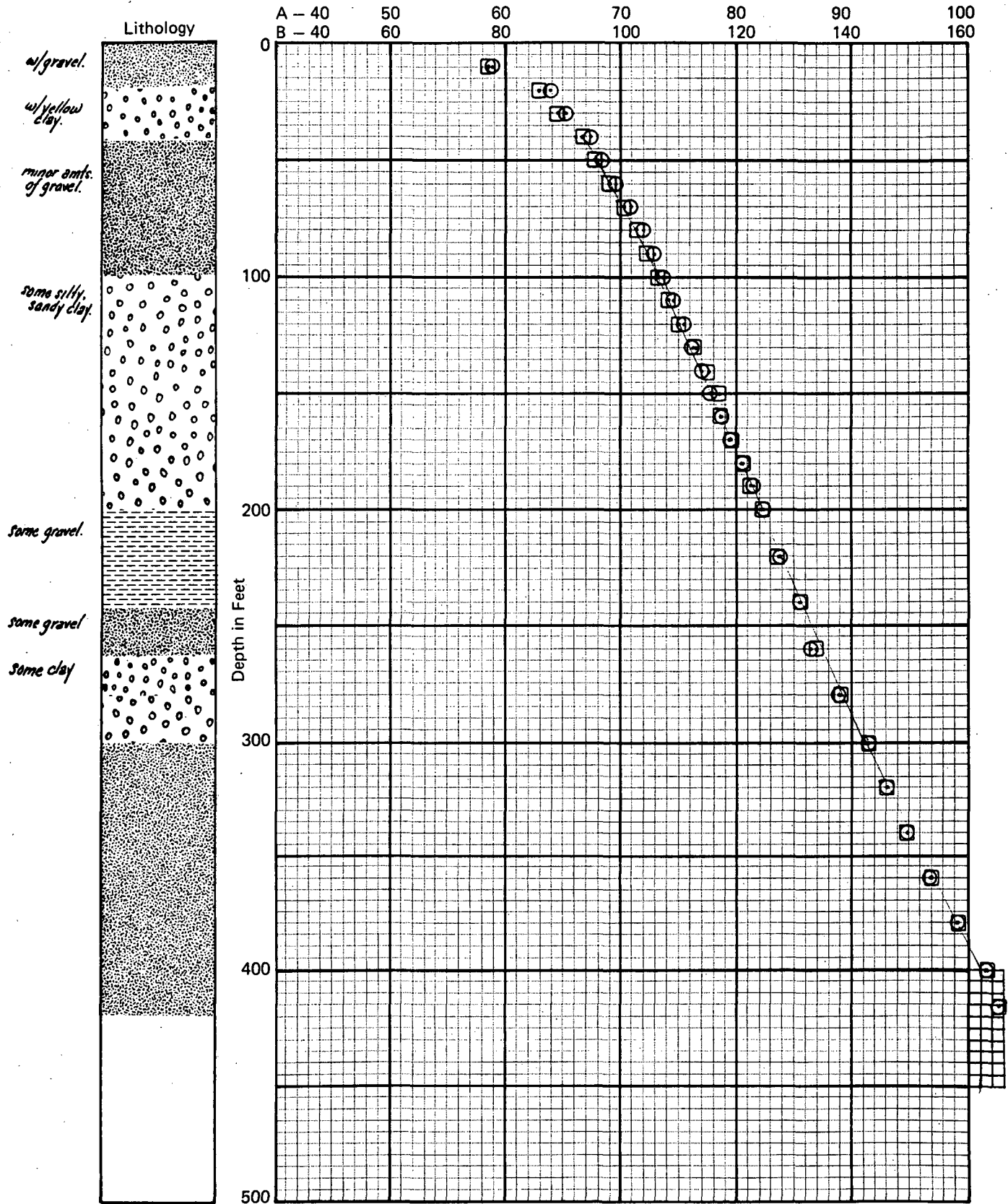
TIME ON BOTTOM: 1040

**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

Prospect: San Emidio  
 State: Nevada  
 Hole No.: 91-78  
 Sec., 3 Twp., 29N Rge.: 23E

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

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIA  
STATE : NEV.  
HOLE NO. : 51-78  
S.T.R. : 53 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

10kΩ  
1kΩ

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	2,475	74.2	416		
120	2,424	75.0	428	1,288	102.7
130	2,325	76.6			
140	2,278	77.5	440		
150	2,230	78.5			
160	2,222	78.6	460		
170	2,182	79.4			
180	2,136	80.4	480		
190	2,091	81.3			
200	2,048	82.2	500		

TIME START: 1700

TIME ON BOTTOM: 1805

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV  
HOLE NO. : 51-78  
S.T.R. : S3 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

10KΩ  
  
1KΩ

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	1,887	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			
140	2,304	77.0			
150	2,262	77.8			
160	2,214	78.8			
170	2,172	79.7			
180	2,128	80.6			
190	2,082	81.5			
200	2,043	82.3	500		

TIME START: 1115

TIME ON BOTTOM: 1230

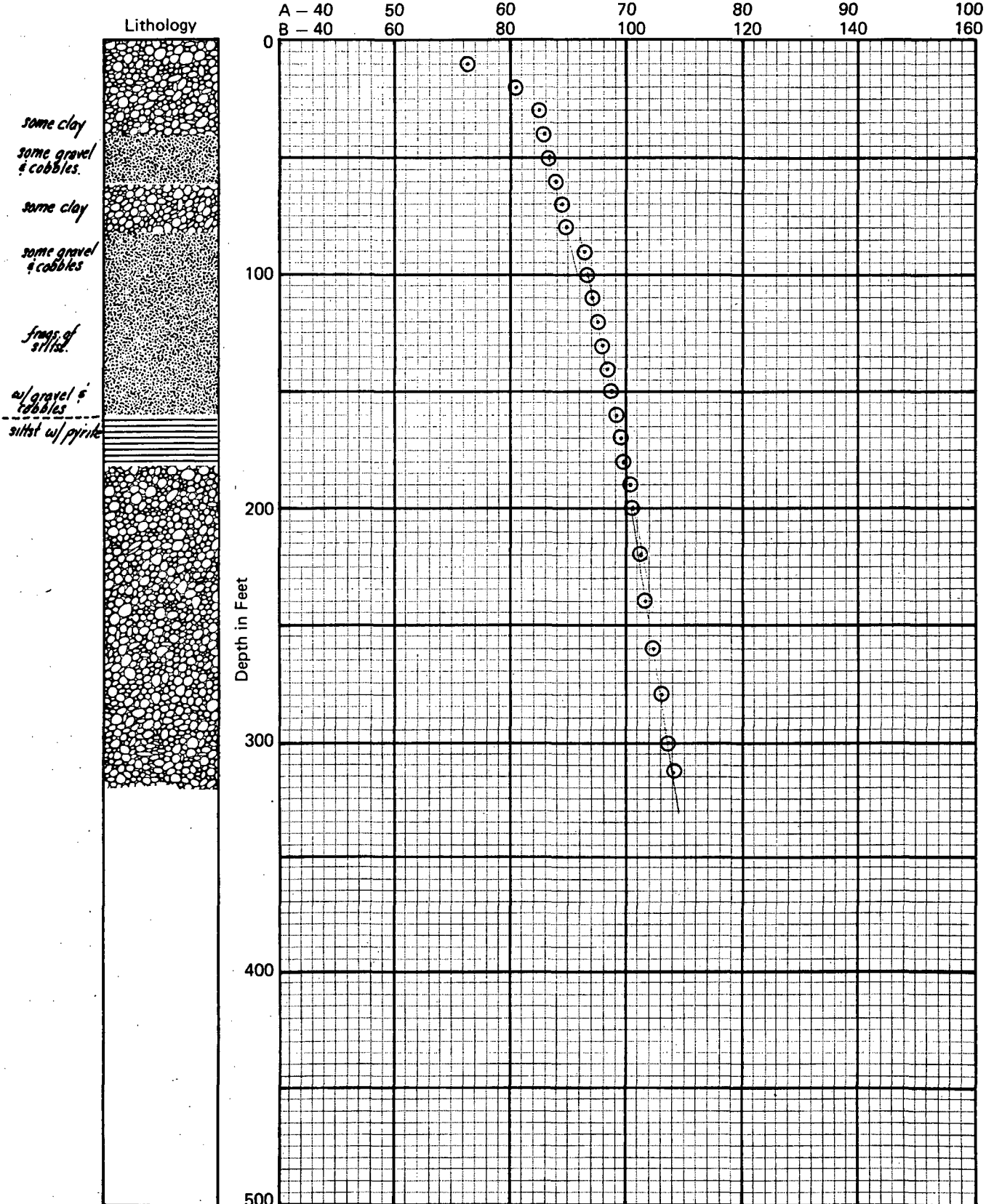


**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV  
HOLE NO. : 52-78  
S.T.R. : 53 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

10KΩ

1KΩ

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	<del>313</del> 320	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	2,830	68.5	420		
120	2,810	68.8			
130	2,791	69.1			
140	2,771	69.5	440		
150	2,744	69.9			
160	2,723	70.2	460		
170	2,702	70.6			
180	2,681	70.9	480		
190	2,670	71.1			
200	2,654	71.3	500		

TIME START: 1305

TIME ON BOTTOM: 1415

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV.  
HOLE NO. : 52-78  
S.T.R. : 53 T 29N R23E

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

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

START - BATT. V = 1165

END - BATT. V = 1144

10 KR

1 KR

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	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	<del>320</del> 313	2,484	74.1
70	3,155	64.4	340		
80	3,115	64.9	360		
90	2,994	66.4	380		
100	2,965	66.7	400		
110	2,934	67.1			
120	2,897	67.6	420		
130	2,871	67.9			
140	2,842	68.3	440		
150	2,812	68.8			
160	2,791	69.1	460		
170	2,767	69.5			
180	2,741	69.9	480		
190	2,721	70.3			
200	2,702	70.6	500		

TIME START: 1505

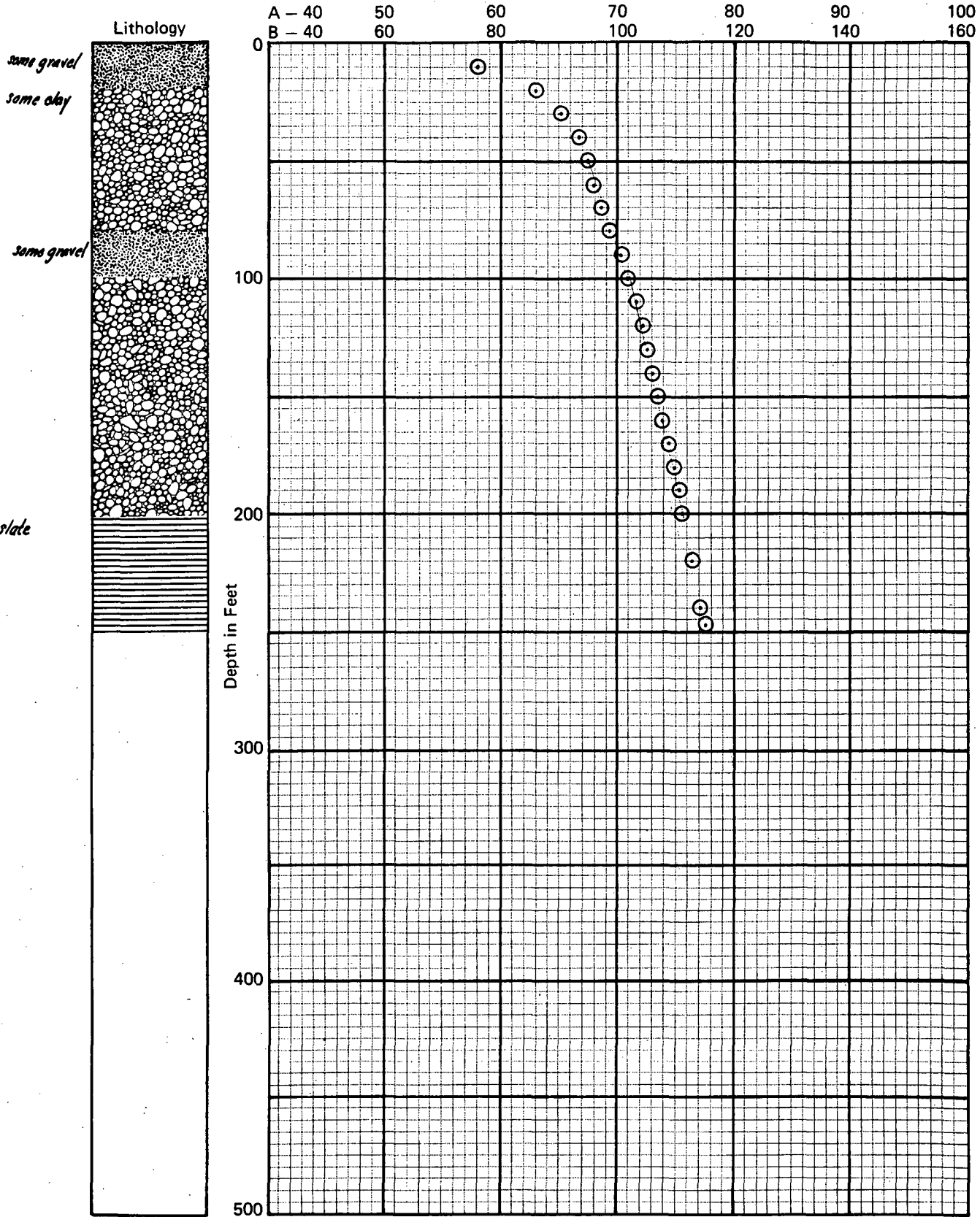
TIME ON BOTTOM: 1620

**CHEVRON RESOURCES CO.**  
**GEOTHERMAL DIVISION**

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

Date Completed: 4-6-78  
 Date Logged: 4-13-78  
 Logged By: Jack Fleiner  
 Temp. Probe:     

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV  
HOLE NO. : 53-78  
S.T.R. : 515 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 = 1162

END-BATT. V = 1137

10K<sub>Ω</sub>

1K<sub>Ω</sub>

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3699	57.9	220	2,336	76.4
20	3268	63.0	240	2,295	77.1
30	3086	65.2	<del>240</del> 260	2,279	77.5
40	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	2,627	71.8	420		
120	2,602	72.2			
130	2,578	72.6			
140	2,549	73.0	440		
150	2,521	73.5			
160	2,492	73.9	460		
170	2,467	74.3			
180	2,437	74.8	480		
190	2,404	75.3			
200	2,392	75.5	500		

TIME START: 0805

TIME ON BOTTOM: 0910

CHEVRON RESOURCES COMPANY  
GEOTHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EM1010  
STATE : NEV  
HOLE NO. : 534-78  
S.T.R. : 515 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

10kΩ  
  
1kΩ

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,695	58.0	220	2,338	76.4
20	3,265	63.0	240	2,294	77.1
30	3,085	65.2	<del>247</del> 260	2,279	77.5
40	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	2,629	71.7	420		
120	2,601	72.2			
130	2,574	72.6			
140	2,547	73.1			
150	2,521	73.5			
160	2,494	73.9	460		
170	2,466	74.4			
180	2,435	74.9	480		
190	2,405	75.3			
200	2,389	75.6	500		

TIME START: 11 45

TIME ON BOTTOM: 13 10

# 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  $\approx 9^\circ\text{F}/100'$  (300-400') and  $\approx 11^\circ\text{F}/100'$  (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<sub>2</sub> 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<sub>2</sub> no steam loss 71°F.

During 1977 a seismic survey was conducted in the prospect area during this survey. Chevron representatives Bob Bainer 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

	<u>T.D. (ft)</u>	<u>°F @ 100'</u>	<u>°F @ 200'</u>	<u>°F/100'</u> <u>(100-200')</u>	<u>°F @ 300'</u>	<u>°F @ T.D.</u>	<u>°F/100'</u> <u>(300-400')</u>
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

—| = isothermol or reversal

-- = no data

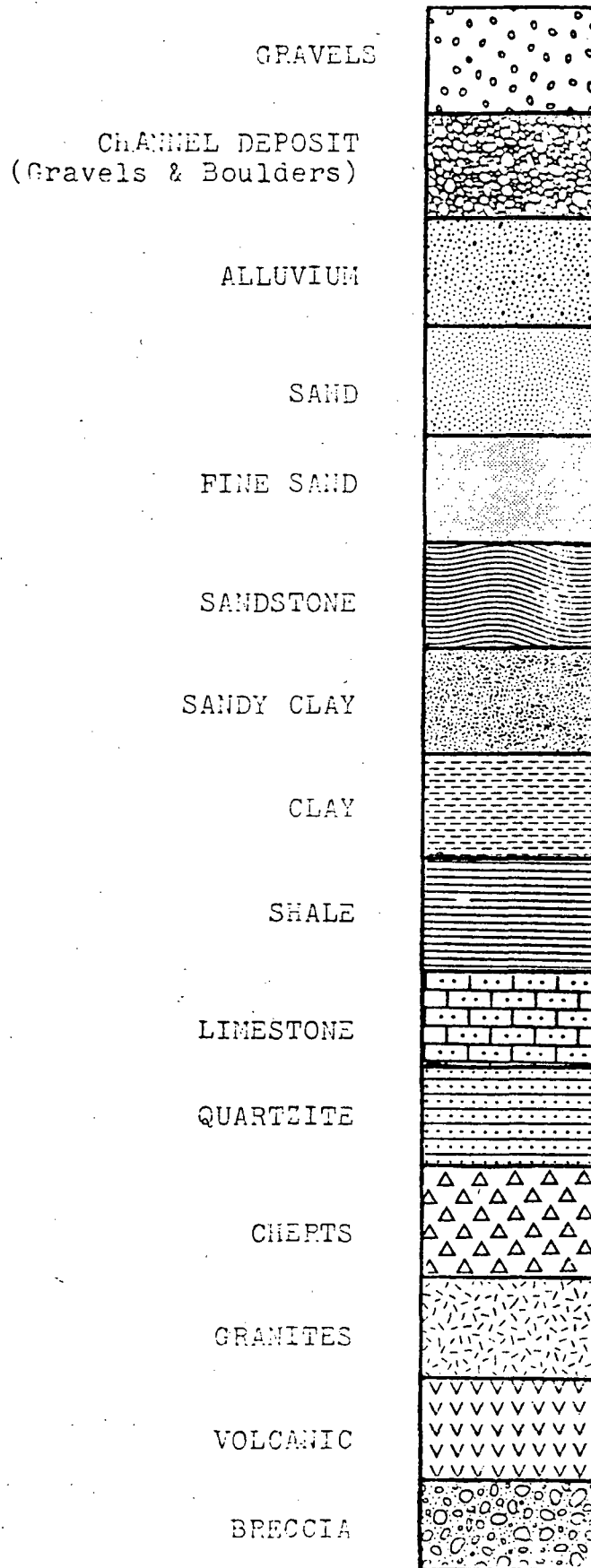
( ) = TG Turn over T-Z

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
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'	—		—	—	—		(232.1)	—	—	—	—			( ) @ 75'
9-77	180	56	30'	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	—			

T hole#	Z	100' °F	200' °F	300' °F	400' °F	300' °F	100' °F	200' °F	300' °F	400' °F	500' °F	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 &
29-78	495	6.3	6.3	6.3	6.3	6.3	70.2	75.8	82.2	88	93.9	isothermal @ 21
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 @ 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'
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' grad
49-78	340	6.4	4.3	3.9	—	—	67.9	72.2	76.1	—	—	kick @ 70' 50-100' er
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	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

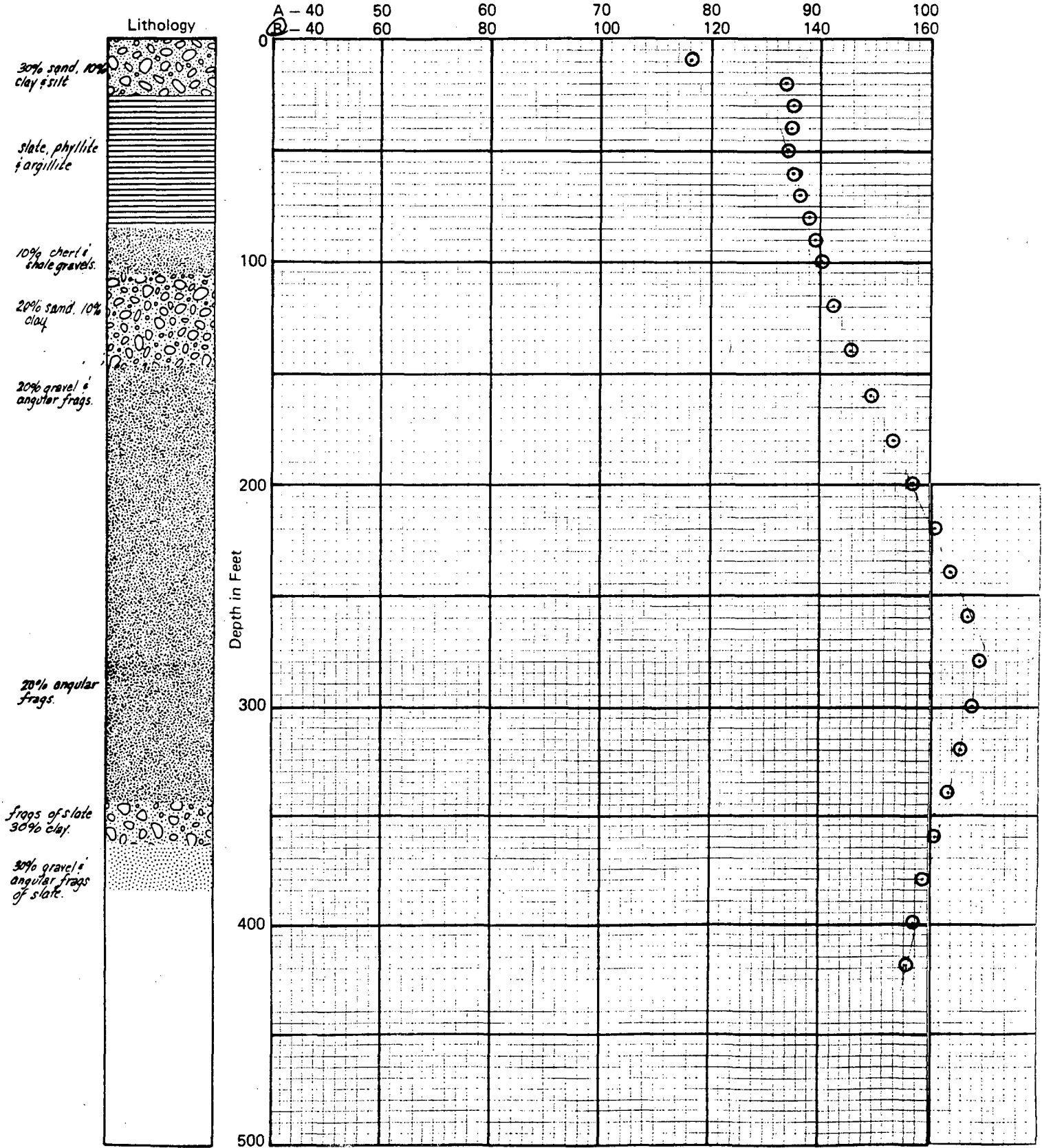


**CHEVRON RESOURCES CO.**  
**GEOTHERMAL DIVISION**

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: J. Flemer  
 Temp. Probe: Chern

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_





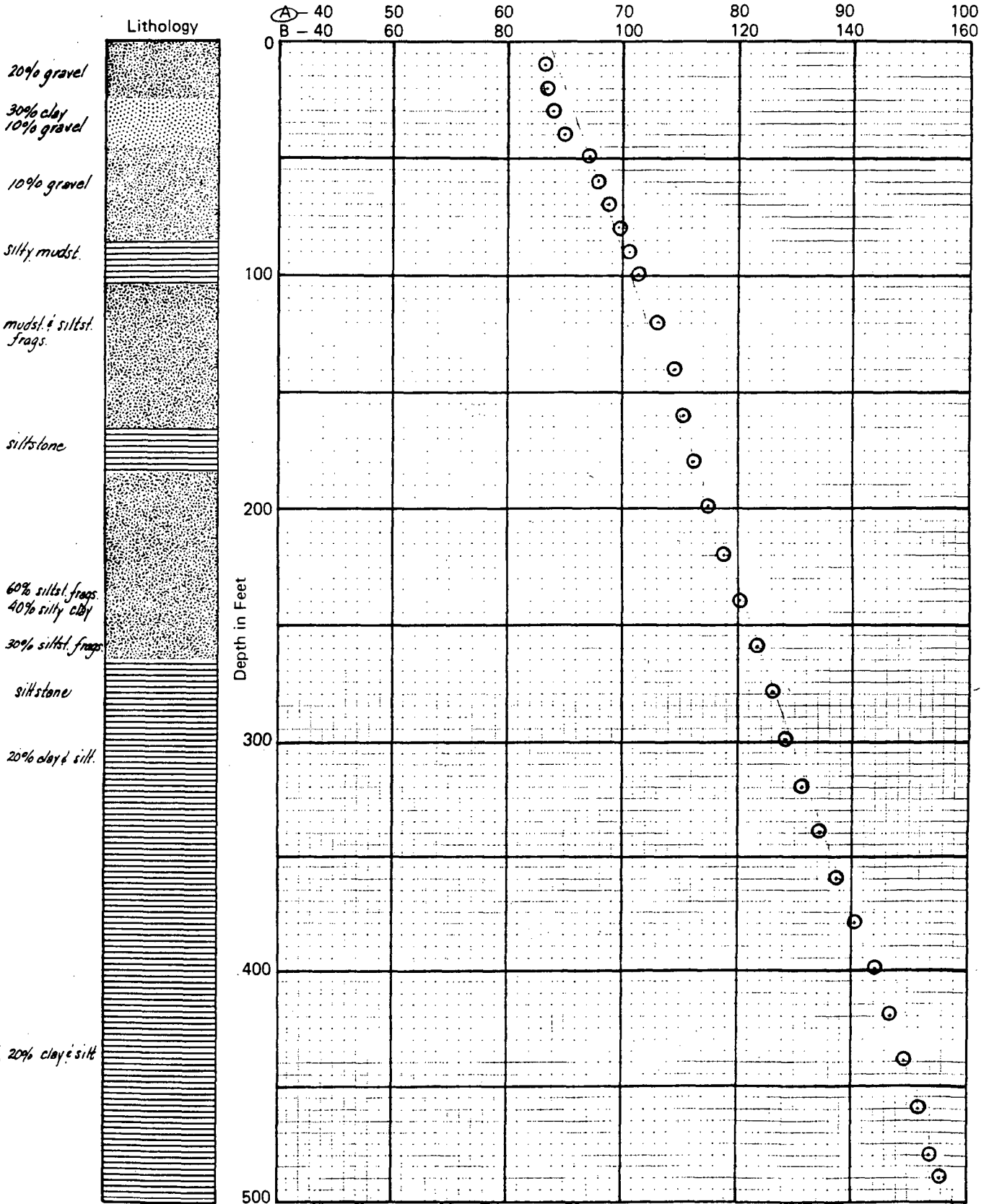


**CHEVRON RESOURCES CO.  
GEOTHERMAL DIVISION**

Prospect: San Emido  
 State: Nevada  
 Hole No.: 7-77  
 Sec., 33 Twp., 30a 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: \_\_\_\_\_





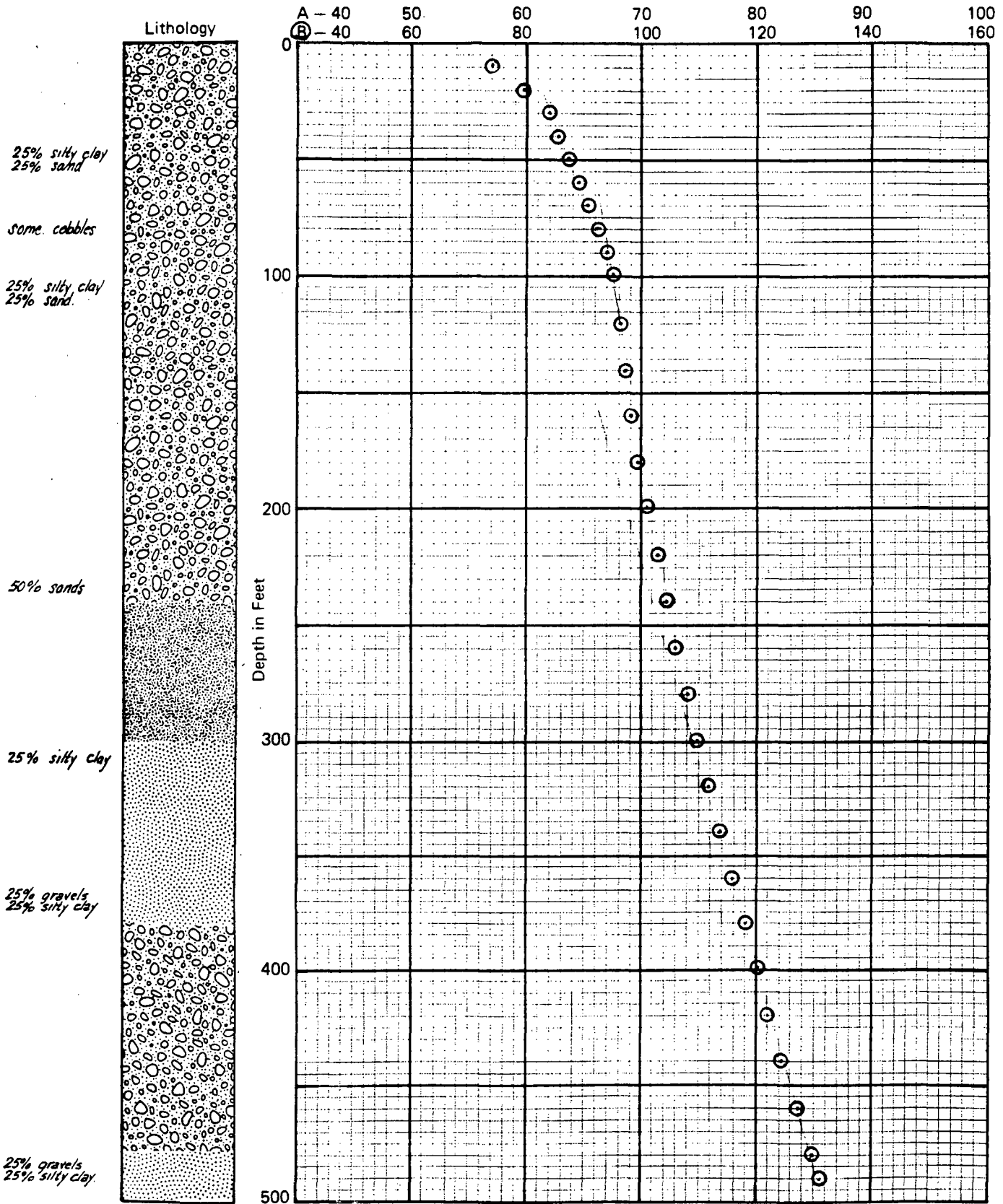


**CHEVRON RESOURCES CO.**  
**GEOTHERMAL DIVISION**

Prospect: San Emido  
 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. Flemer  
 Temp. Probe: Chevron

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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	2,900	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	492 500	732	130.3

TIME START: 1010

TIME ON BOTTOM: 1130

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
 STATE : NEV  
 HOLE NO. : 377  
 S.T.R. : S 21 T 23 N R 23 E

DATE COMPLETED : 11-13-77  
 DATE LOGGED : 12-21-77  
 LOGGED BY : FLEINER  
 UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN - BATT. V = 1195

END - BATT. V = 1167

1 KΩ  
AIR  
H<sub>2</sub>O

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2483	74.1	220	1282	102.9
20	2161	79.9	240	1236	104.5
30	1960	84.0	260	1195	106.2
40	1886	85.5	280	1151	108.0
50	1813	87.3	300	1107	109.9
60	1742	89.2	320	1060	111.8
70	1679	90.8	340	1019	113.7
80	1613	92.5	360	977	115.9
90	1557	94.0	380	934	118.1
100	1519	95.0	400	891	120.4
120	1480	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	1332	101.2	492 500	721	131.0

TIME START: 0820

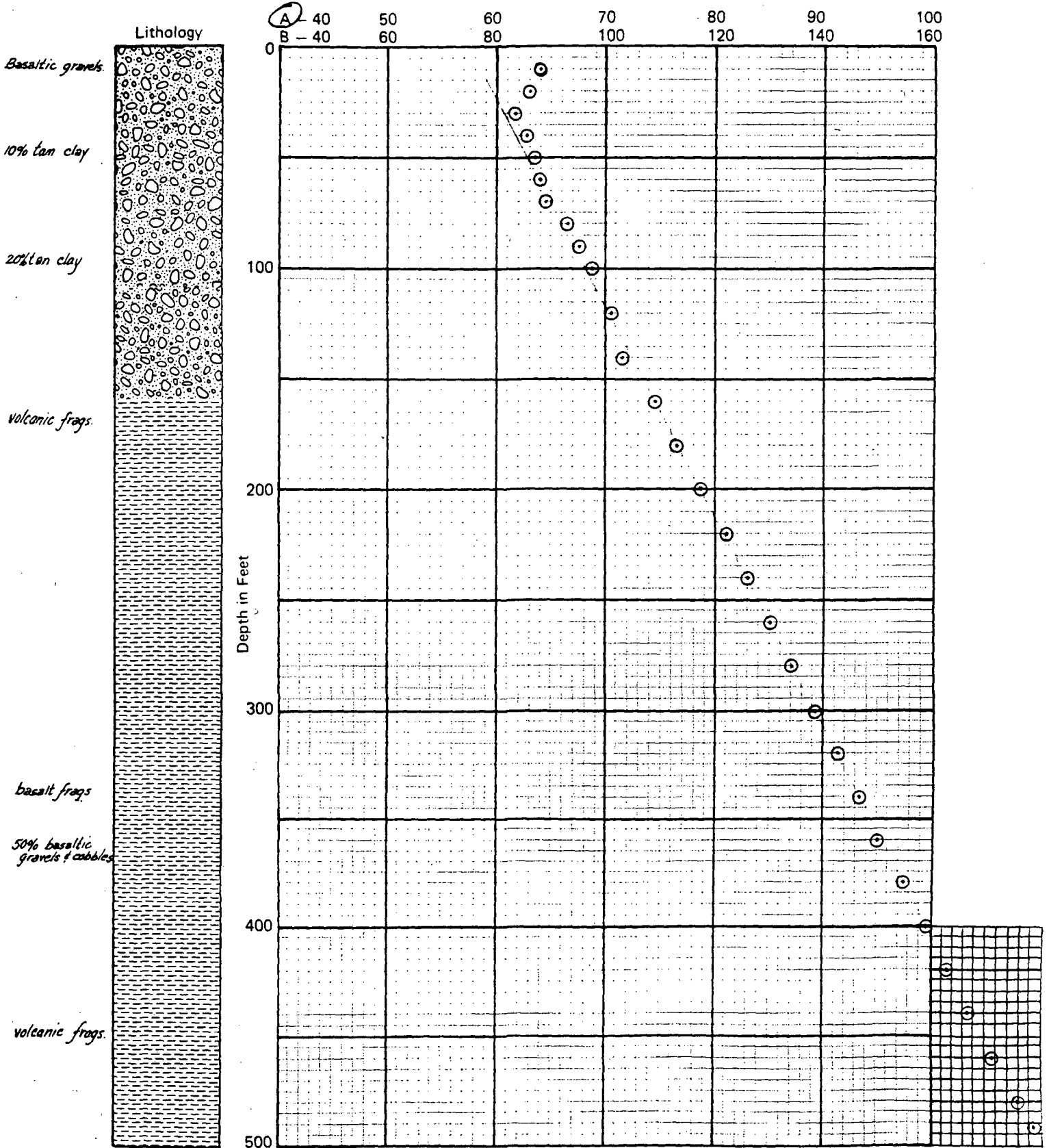
TIME ON BOTTOM: 0750

**CHEVRON RESOURCES CO.  
GEOHERMAL 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 Fleiner  
 Temp. Probe: 1100

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
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	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	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: 1730

TIME ON BOTTOM: 1610

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO  
STATE : NEV  
HOLE NO. : 4-77  
S.T.R. : 521 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

10K5

1K5

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	2,231	78.4	492 500	1,111	109.7

TIME START: 07 30

TIME ON BOTTOM: 107 5

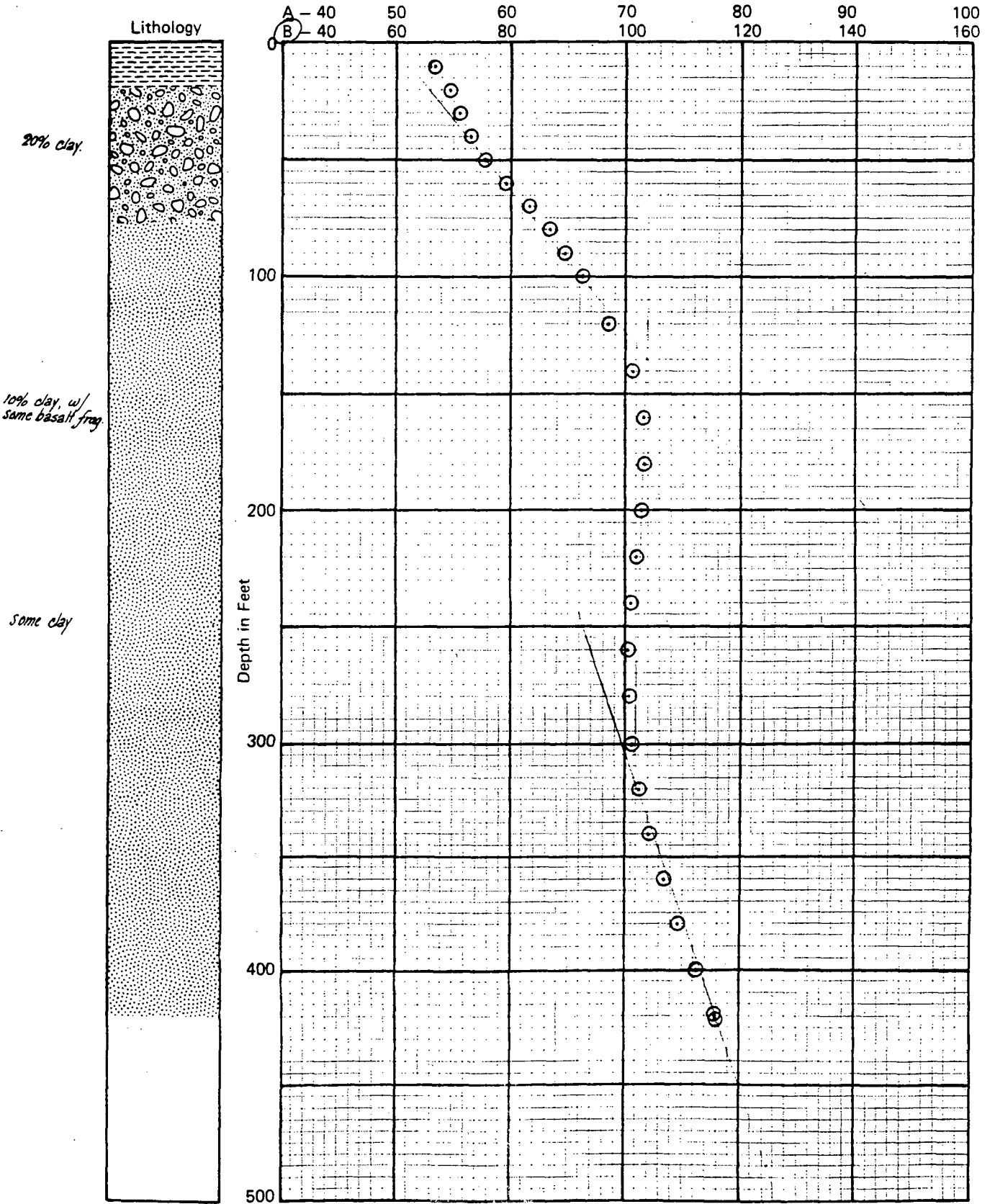


**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

Prospect: San Emidio  
 State: Nevada  
 Hole No.: 5-77  
 Sec., 28 Twp., 29N 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  
GEOHERMAL 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.  $\checkmark$  = 1128

END - BATT.  $\checkmark$  = 1107

1K $\Omega$

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	<del>420</del> 440	976	115.9
160	1,270	103.3	460		
180	1,259	103.6	480		
200	1,278	103.0	500		

TIME START: 1415

TIME ON BOTTOM: 1.550

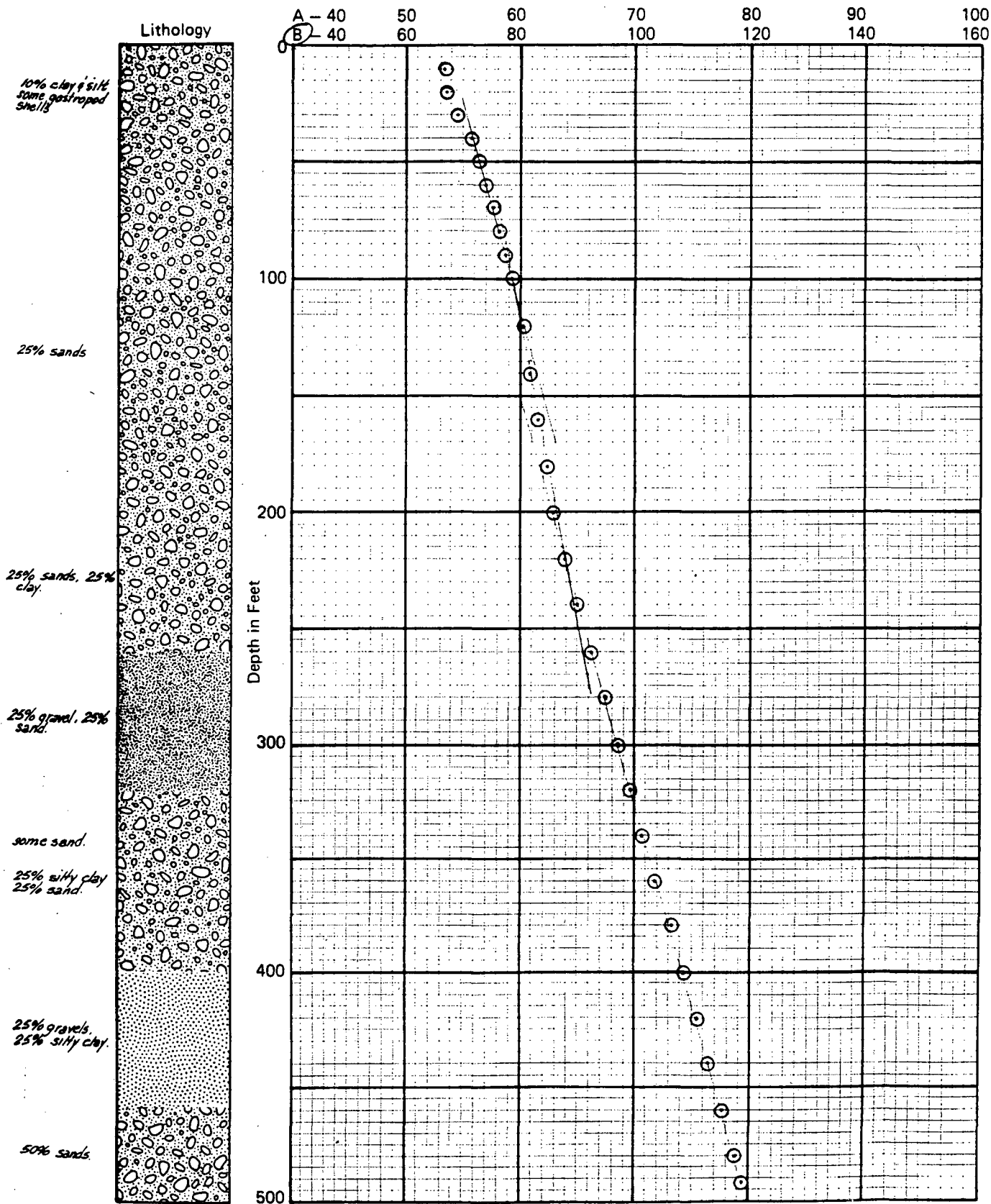


**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

Prospect: Sam 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. Fleiner  
 Temp. Probe: 1100'

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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 : H-13-77  
LOGGED BY : FLEINER  
UNIT NO. : \_\_\_\_\_

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

BEGIN - BATT.  $\checkmark = 1128$

END - BATT.  $\checkmark = 1107$

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	<del>492</del> 500	919	118.9

TIME START: 1040

TIME ON BOTTOM: 1210

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN JEMIDIO  
 STATE : NEV.  
 HOLE NO. : 6-77  
 S.T.R. : 522 T-21N 223E

DATE COMPLETED : 11-10-77  
 DATE LOGGED : 12-19-77  
 LOGGED BY : FLEINER  
 UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER.

BEGIN - BATT.  $\checkmark = 1148$

END - BATT.  $\checkmark = 1116$

10K-  
1K-

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3315	62.4	220	1784	88.1
20	2979	66.5	240	1699	90.3
30	2826	68.6	260	1614	92.5
40	2639	71.6	280	1518	95.0
50	2579	72.5	300	1441	97.6
60	2494	73.9	320	1369	100.0
70	2408	75.3	340	1302	102.2
80	2347	76.3	360	1235	104.5
90	2289	77.2	380	1173	107.1
100	2234	78.4	400	1118	109.4
120	2142	80.3	420	1067	111.6
140	2069	81.8	440	1015	113.9
160	2015	82.9	460	971	116.2
180	1951	84.2	480	928	118.4
200	1876	85.7	<del>492</del> 500	905	119.6

TIME START: 1225

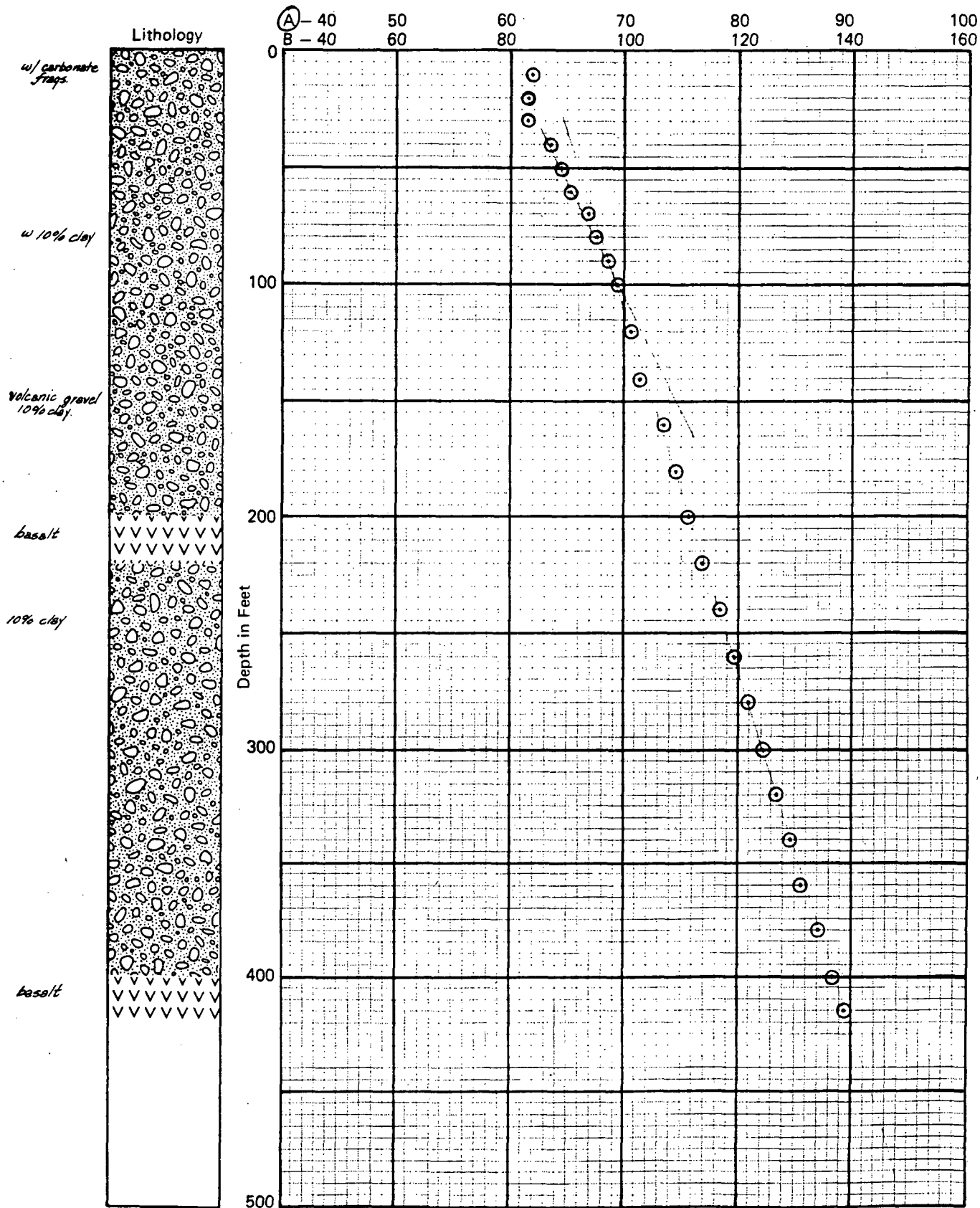
TIME ON BOTTOM: 1305

**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

Prospect: Sam F. midio  
 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: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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	76.4
20	3,245	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	415 <del>420</del>	1,737	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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
STATE : NEV  
HOLE NO. : 7-77  
S.T.R. : SEC 22 T29N R23E

DATE COMPLETED : 11-9-77  
DATE LOGGED : 12-19-77  
LOGGED BY : FLEINER  
UNIT NO. : 1,000

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	3,375	61.6	260	2,180	79.5
40	3,355	61.9	280	2,116	80.8
50	3,255	63.1	300	2,054	82.1
60	3,185	64.0	320	1,993	83.3
70	3,105	65.0	340	1,935	84.5
80	2,946	67.0	360	1,880	85.7
90	2,874	67.8	380	1,826	87.0
100	2,818	68.7	400	1,776	88.3
120	2,718	70.3	<del>420</del> 415	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

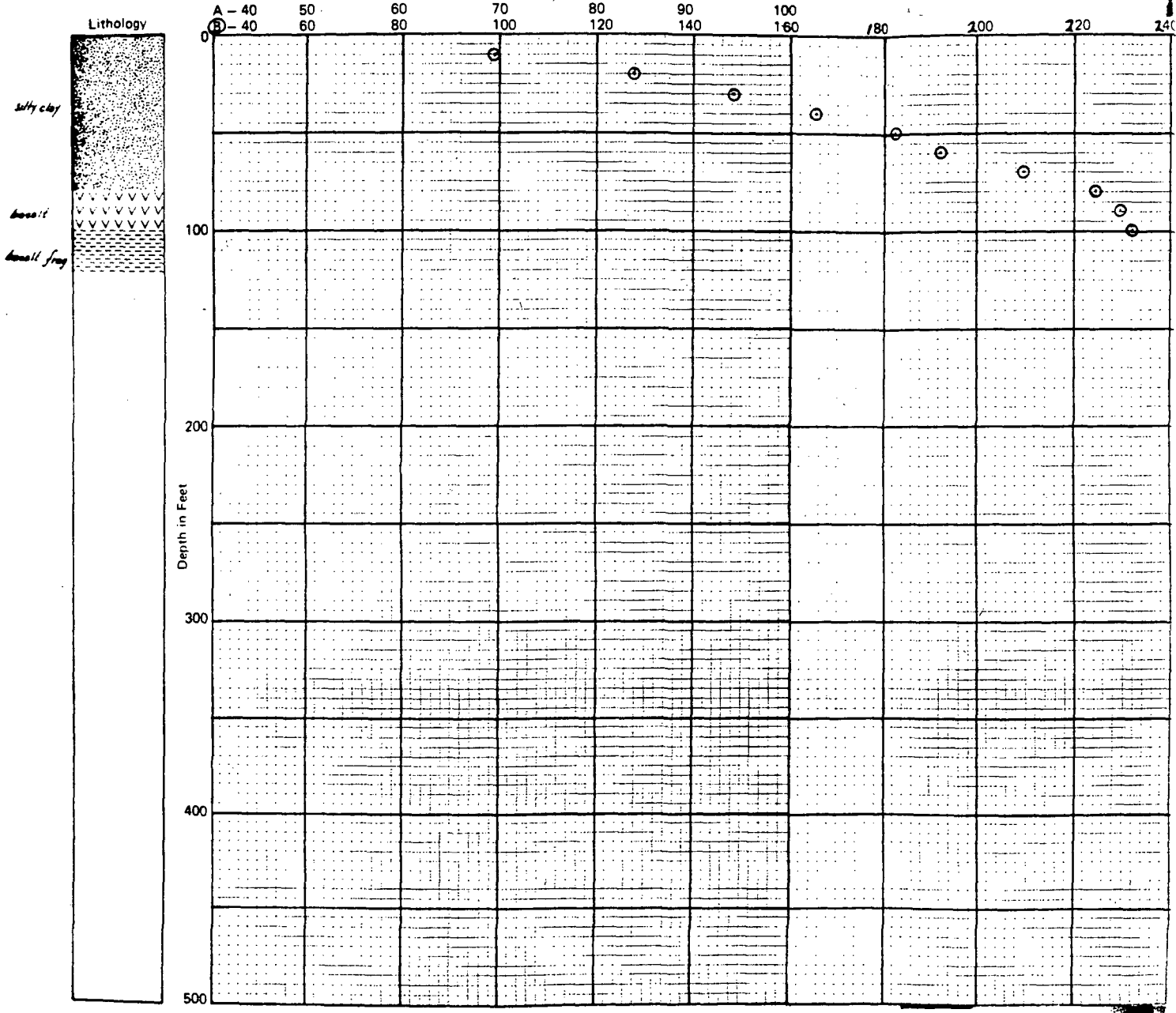
TIME ON BOTTOM: 1420

**CHEVRON RESOURCES CO.**  
**GEOHERMAL DIVISION**

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

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

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : DAV FORD  
STATE : NEL  
HOLE NO. : A-77  
S.T.R. : SEC 7 T22N R22E

DATE COMPLETED : 11-12-77  
DATE LOGGED : 12-21-77  
LOGGED BY : FLEWELLER  
UNIT NO. : 200

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: WAS CHECKED WITH GEOTECH + THERMOMETER

RESISTANCE - 0.177 F  
TEMPERATURE - 0.177 F

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	177	74.0	220		
20	437	127.4	240		
30	525	145.4	260		
40	375	105.2	280		
50	287	132.5	300		
60	200	172.0	320		
70	235	224.5	340		
80	177	224.5	360		
90	177	229.7	380		
100	100	222.0	400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 10:45

TIME ON BOTTOM: 1:15

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMIDIO

DATE COMPLETED : 11-17-77

STATE : NEV.

DATE LOGGED : 12-20-77

HOLE NO. : 8-77

LOGGED BY : FLEINER

S.T.R. : SEC 9 T29N R23E

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	1317	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		
<del>110</del> 120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 1025

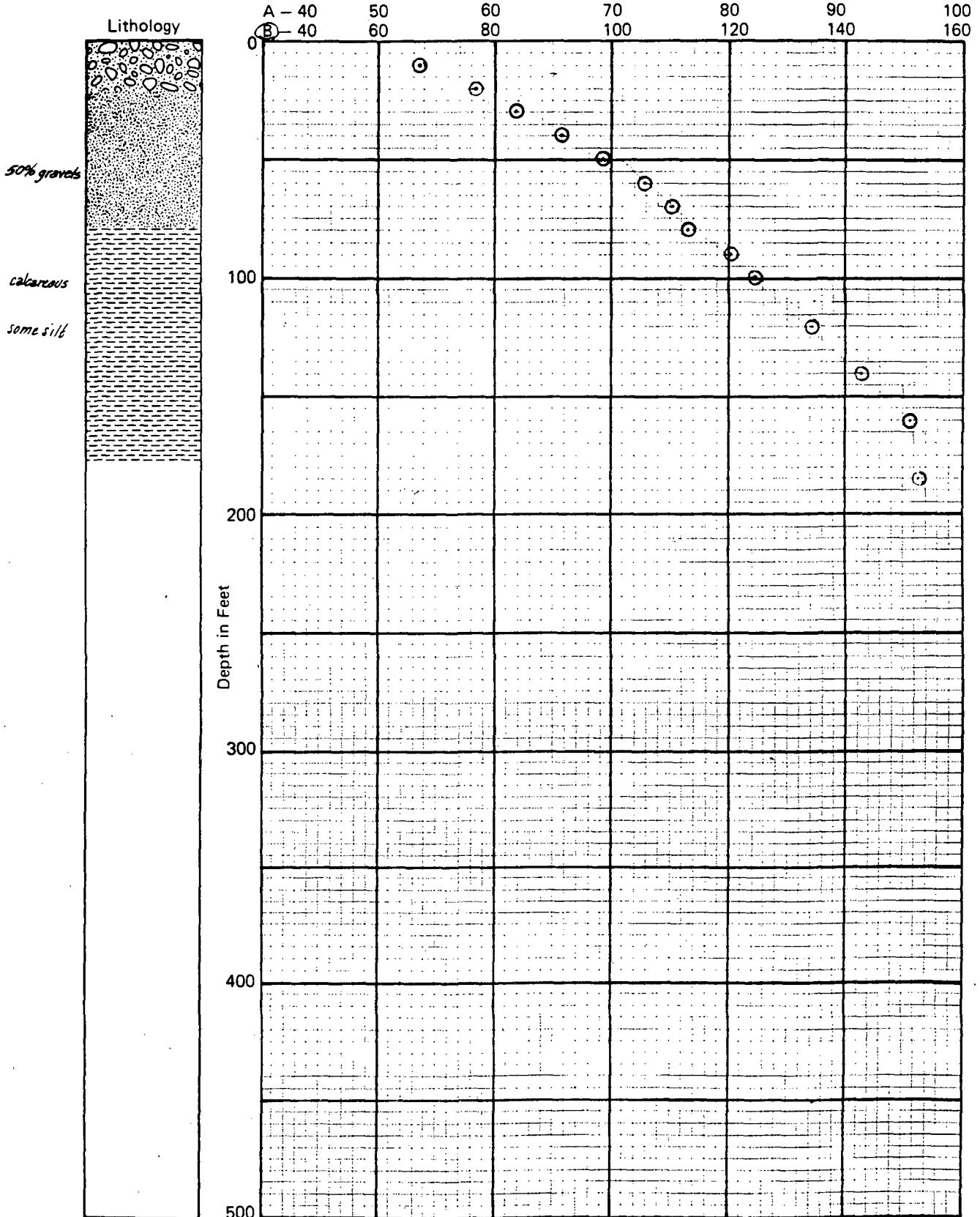
TIME ON BOTTOM: 1725

**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

Prospect: San Emido  
 State: Nevada  
 Hole No.: 9-77  
 Sec., 9 Twp., 242 Rge.: 23E

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

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
STATE : NEV  
HOLE NO. : 10-77  
S.T.R. : 59 T27N 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.  $V = 1126$

END - BATT.  $V = 1196$

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1855	86.7	<del>220</del>	530	147.0
20	1678	90.8	240		
30	1612	92.6	260		
40	1501	95.6	280		
50	1280	102.9	300		
60	1162	107.6	320		
70	1019	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: 1510

TIME ON BOTTOM: 1605

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
STATE : NEW  
HOLE NO. : 9-77  
S.T.R. : 57 TOWN 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 + THERMISTORS  
BEGIN - BATT. V = 11.61      END - BATT. V = 11.5

11/23  
A/M  
H

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	23374	67.9	220		
20	23321	76.7	240		
30	1967	83.9	260		
40	1679	91.6	280		
50	1716	98.4	300		
60	1232	105.7	320		
70	1045	110.4	340		
80	1031	113.1	360		
90	943	120.3	380		
100	819	127.7	400		
120	674	134.8	420		
140	584	142.4	440		
160	496	151.6	460		
180	430	152.8	480		
200			500		

TIME START: 12 15

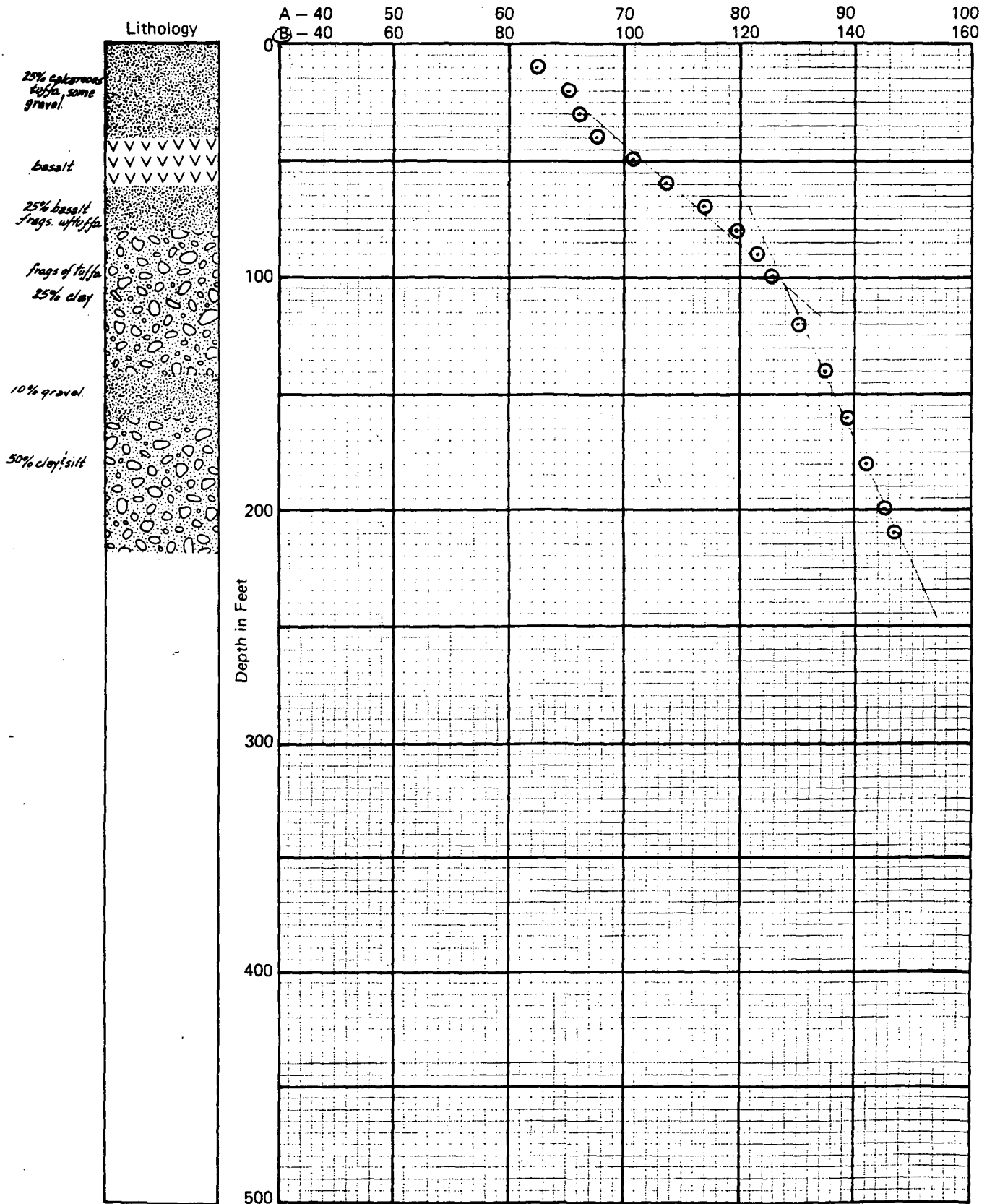
TIME ON BOTTOM: 13.5

**CHEVRON RESOURCES CO.  
GEOTHERMAL DIVISION**

Prospect: San Emidio  
 State: Nevada  
 Hole No.: 10-77  
 Sec., 9 Twp., 29N 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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EM 100  
 STATE : NEV  
 HOLE NO. : 10-77  
 S.T.R. : 27 TRN 823E

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

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTION + THERMOMETER

RESISTION - 10 FT = 117      TEMP - 10 FT = 112

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1720	87.7	220	570	140.5
20	1642	90.5	240		
30	1625	92.3	260		
40	1610	95.3	280		
50	1317	101.7	300		
60	1100	107.3	320		
70	1017	113.8	340		
80	915	119.1	360		
90	842	123.9	380		
100	801	125.8	400		
120	700	130.7	420		
140	677	134.5	440		
160	621	137.0	460		
180	580	142.2	480		
200	503	145.5	500		

TIME START: 12:00

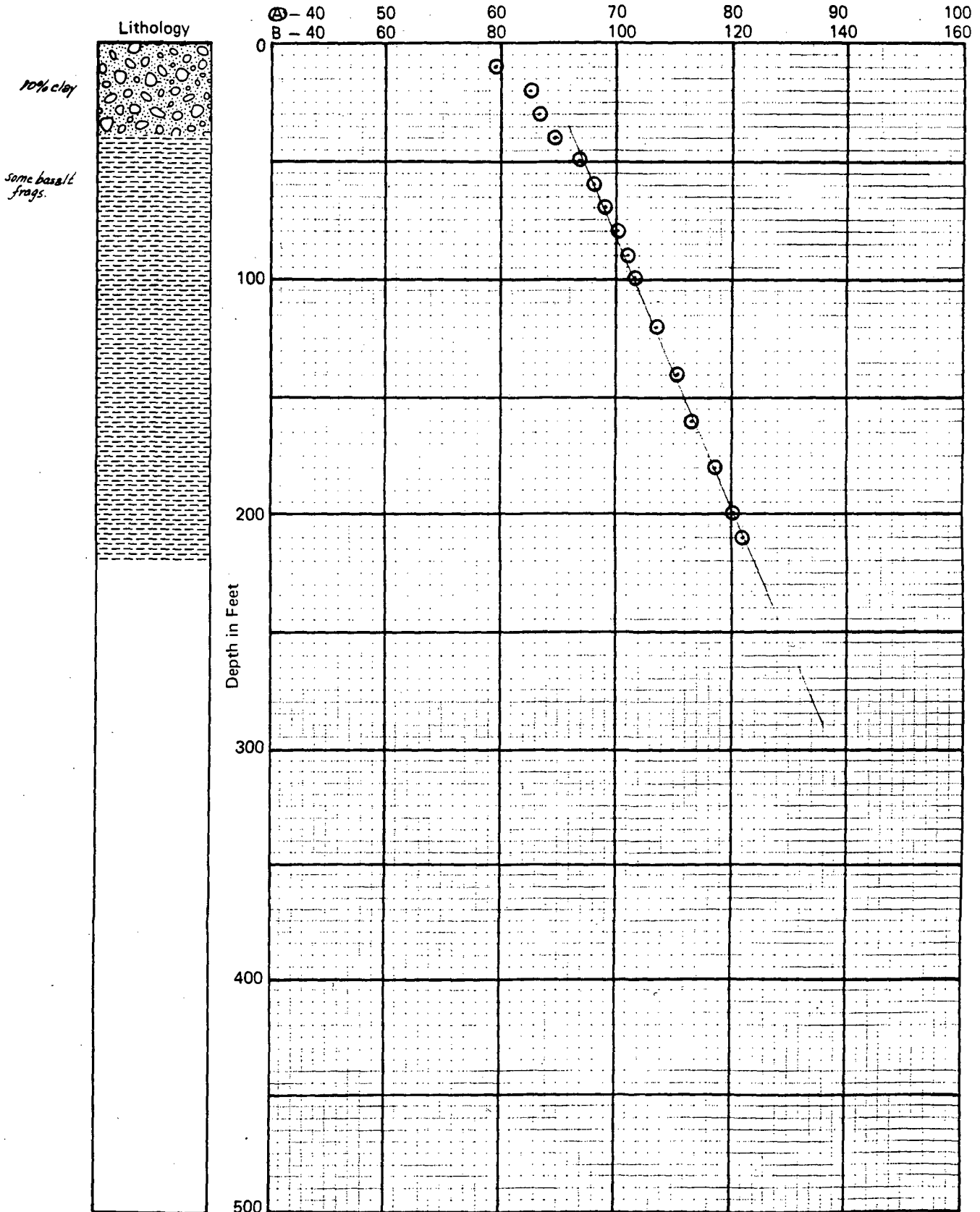
TIME ON BOTTOM: 1:25

**CHEVRON RESOURCES CO.**  
**GEOTHERMAL DIVISION**

Prospect: San Felipe  
 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)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EM1010  
 STATE : NEV.  
 HOLE NO. : 11-77  
 S.T.R. : 5 / T2-3A 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	<del>220</del> 217	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: 1445

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
STATE : NEV  
HOLE NO. : 11-77  
S.T.R. : 59 T29 N 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 = 10.14

END - BATT V = 10.20

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,331	59.7	220	2,156	81.0
20	3,307	62.5	240		
30	3,241	63.3	260		
40	2,117	64.3	280		
50	2,757	66.4	300		
60	2,867	69.0	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	2,508	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

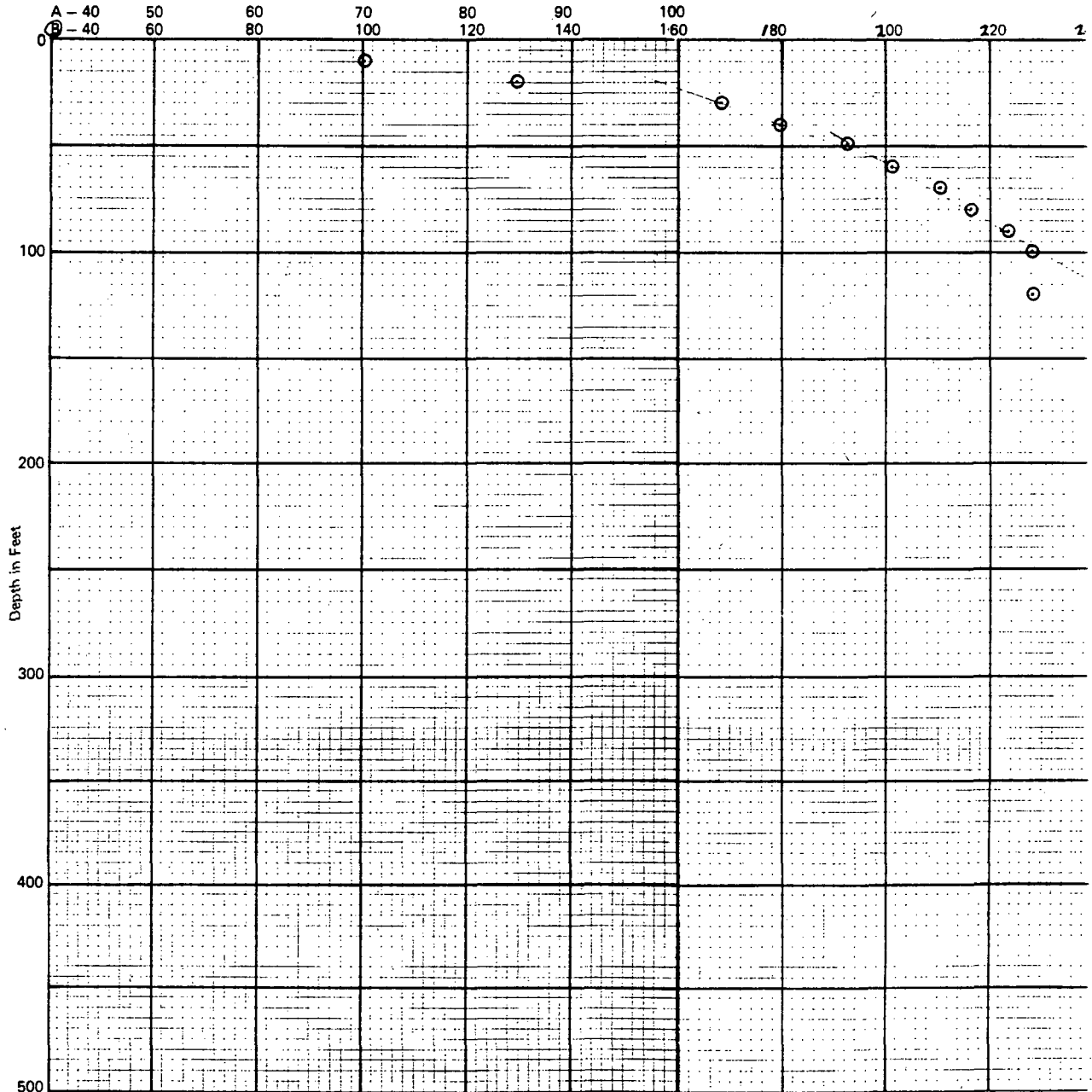
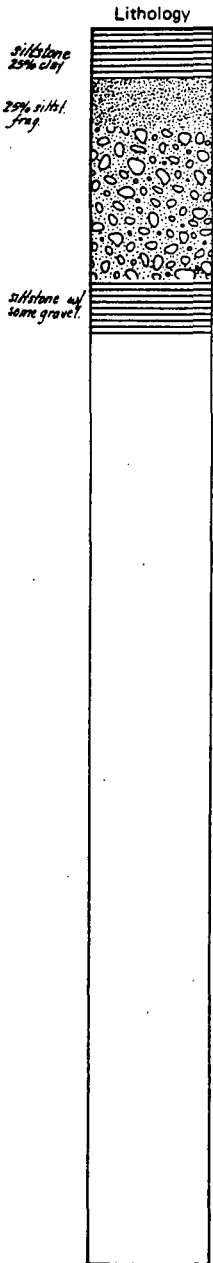
TIME ON BOTTOM: 1820

**CHEVRON RESOURCES CO.  
GEOHERMAL DIVISION**

Prospect: San Emido  
 State: Nevada  
 Hole No.: 12-77  
 Sec., 4 Twp., 28N Rge.: 13E

Date Completed: 11-16-77  
 Date Logged: 12-21-77  
 Logged By: J. F. GARDNER  
 Temp. Probe: CHEVRON

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN FELIX 10  
 STATE : NEV  
 HOLE NO. : 12-77  
 S.T.R. : 24 T29N R23E

DATE COMPLETED : 11-16-77  
 DATE LOGGED : 12-21-77  
 LOGGED BY : FLENER  
 UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETERS

BECK - BATT V = 112.2

END - BATT V = 110.7

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	13.1	100.2	220		
20	7.7	127.8	240		
30	3.75	163.2	260		
40	3.11	179.3	280		
50	2.50	192.6	300		
60	2.32	201.0	320		
70	2.05	210.6	340		
80	1.92	216.1	360		
90	1.71	223.5	380		
100	1.67	228.2	400		
120	1.5	228.7	420		
140			440		
160			460		
180			480		
200			500		

TIME START: 1530

TIME ON BOTTOM: 1556

CHEVRON RESOURCES COMPANY  
 GEOTHERMAL DIVISION  
 SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
 STATE : NEV  
 HOLE NO. : 12-77  
 S.T.R. : ST TRAIN R33E

DATE COMPLETED : 11-16-77  
 DATE LOGGED : 12-20-77  
 LOGGED BY : FLEINER  
 UNIT NO. : 1000  
 /

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS + THERMOMETER.

BEGIN-BATT  $\checkmark$  = 1236

END-BATT  $\checkmark$  = 1212

1/15

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1139	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		
<del>110</del> 120	165	229.2	420		
140			440		
160			460		
180			480		
200			500		

TIME START: 0755

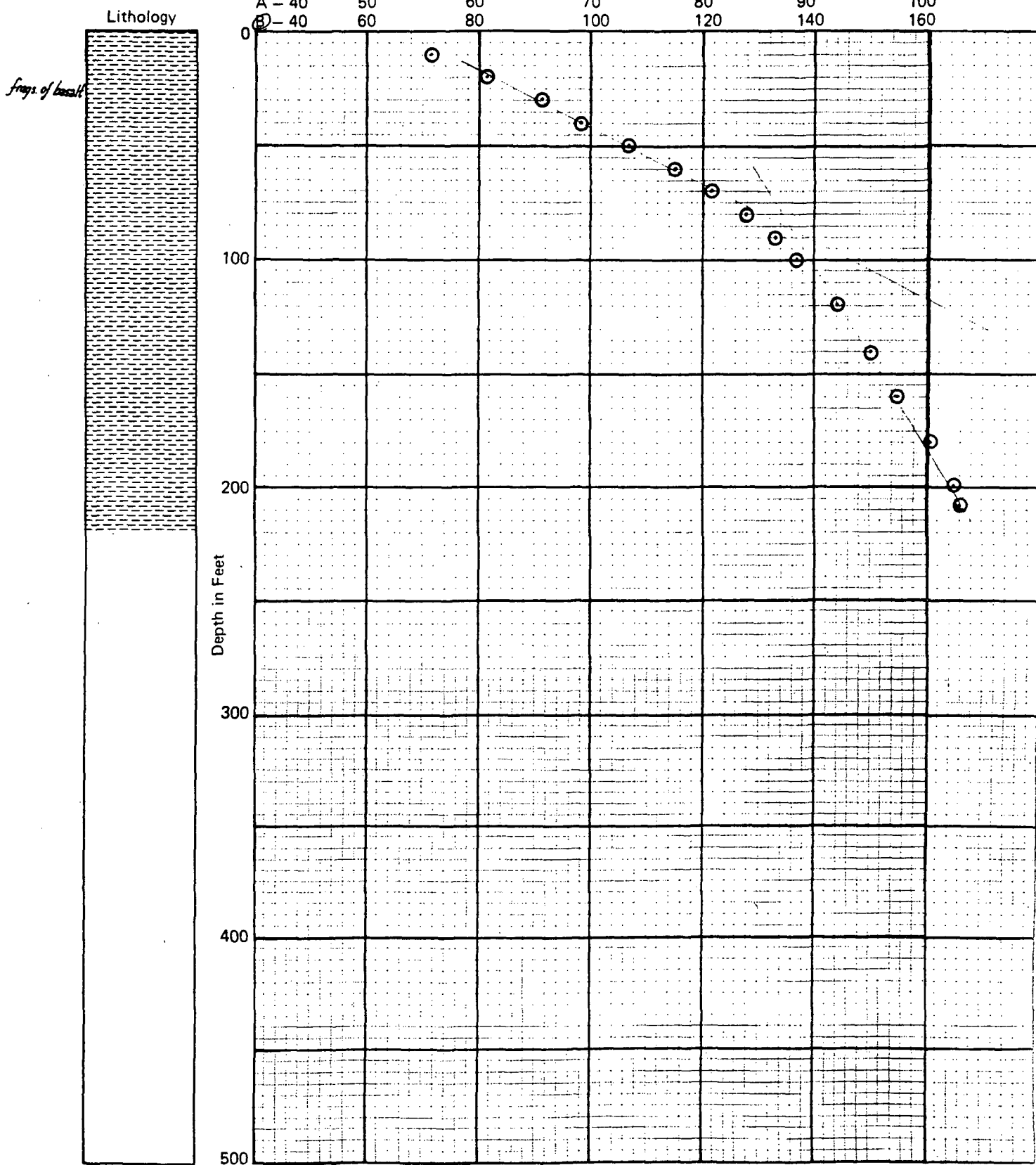
TIME ON BOTTOM: 0900

**CHEVRON RESOURCES CO.**  
**GEOHERMAL 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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
STATE : NEV  
HOLE NO. : 13-77  
S.T.R. : S# T29 N R23E

DATE COMPLETED : 11-12-77  
DATE LOGGED : 12-21-77  
LOGGED BY : FLINER  
UNIT NO. : 100

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED WITH RESISTORS + THERMOMETER

WELL NO. 13-77

WELL-BATTERY

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2620	71.9	220		106.0
20	2900	81.7	240		
30	1000	91.7	260		
40	1200	99.2	280		
50	1500	107.1	300		
60	1900	114.9	320		
70	3000	121.6	340		
80	4000	127.9	360		
90	6000	132.5	380		
100	6000	137.1	400		
120	5000	144.1	420		
140	5000	150.1	440		
160	4000	157.9	460		
180	4000	160.5	480		
200	3000	164.7	500		

TIME START: 10:20

TIME ON BOTTOM: 17:00

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
STATE : NEV.  
HOLE NO. : 13-77  
S.T.R. : S F TREN R23E

DATE COMPLETED : 11-16-77  
DATE LOGGED : 12-20-77  
LOGGED BY : FLAENER  
UNIT NO. : 1000

SUMMARY OF LITHOLOGY:

CALIBRATION NOTES: CHECKED, WITH RESISTORS & THERMOMETER

BEGIN - BATT.  $\checkmark = 1145$

END - BATT.  $\checkmark = 1119$

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	2595	72.3	<del>220</del> 207	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

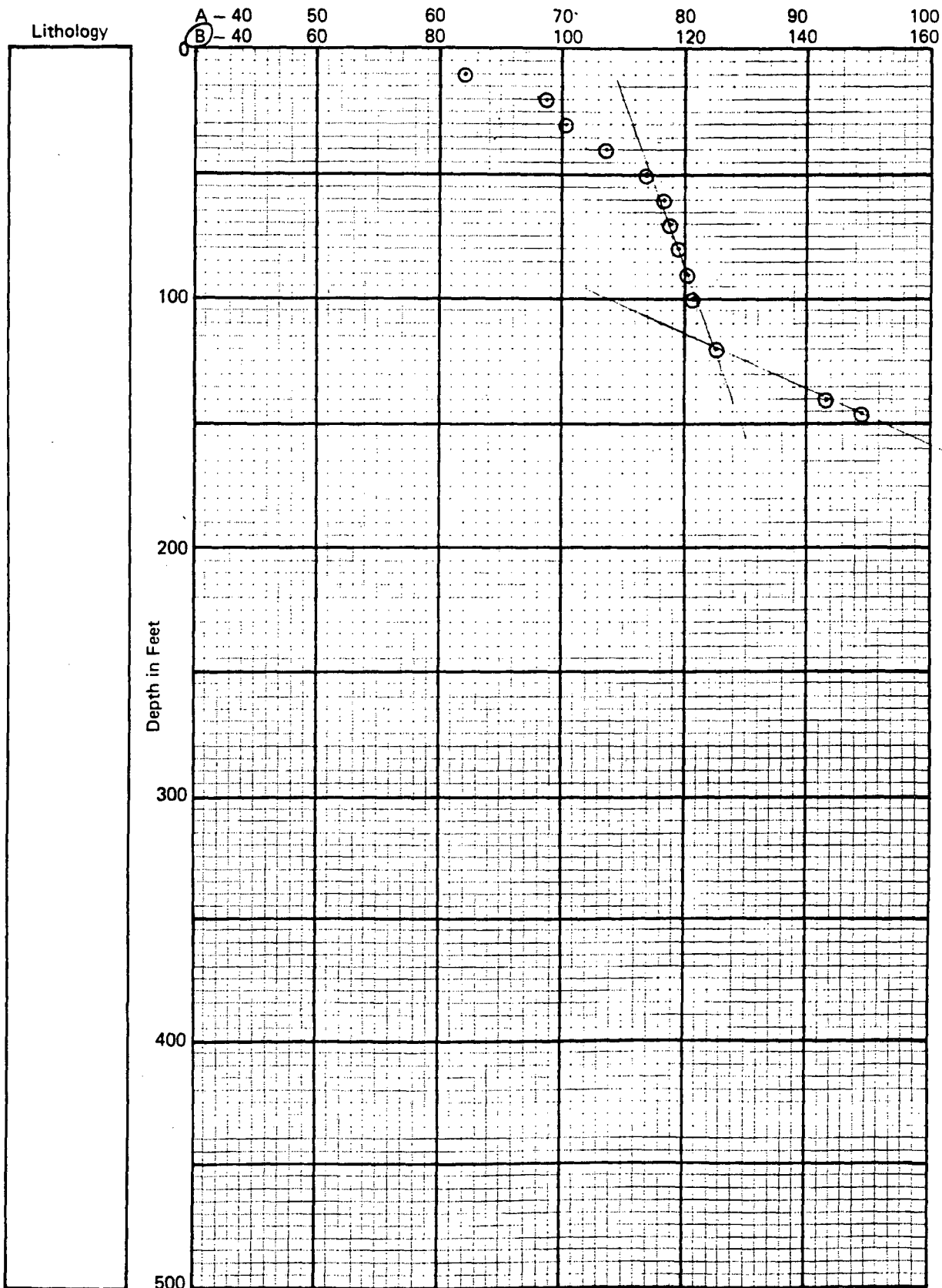
TIME ON BOTTOM: 1310

**CHEVRON RESOURCES CO.  
GEOHERMAL 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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
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.  $\checkmark = 1129$

END - BATT.  $\checkmark = 1108$

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1453	84.2	220		
20	1438	97.7	240		
30	1347	100.7	260		
40	1166	107.4	280		
50	1016	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		
<del>146</del> 160	518	148.9	460		
180			480		
200			500		

TIME START: 0905

TIME ON BOTTOM: 0935

CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
 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 RESISTOR & THERMOMETER.

BEGIN - BATT. V = 11.28

END - BATT. V = 11.08

1KΩ

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		
<del>140</del> 160	523	148.5	460		
180			480		
200			500		

TIME START: 11 55

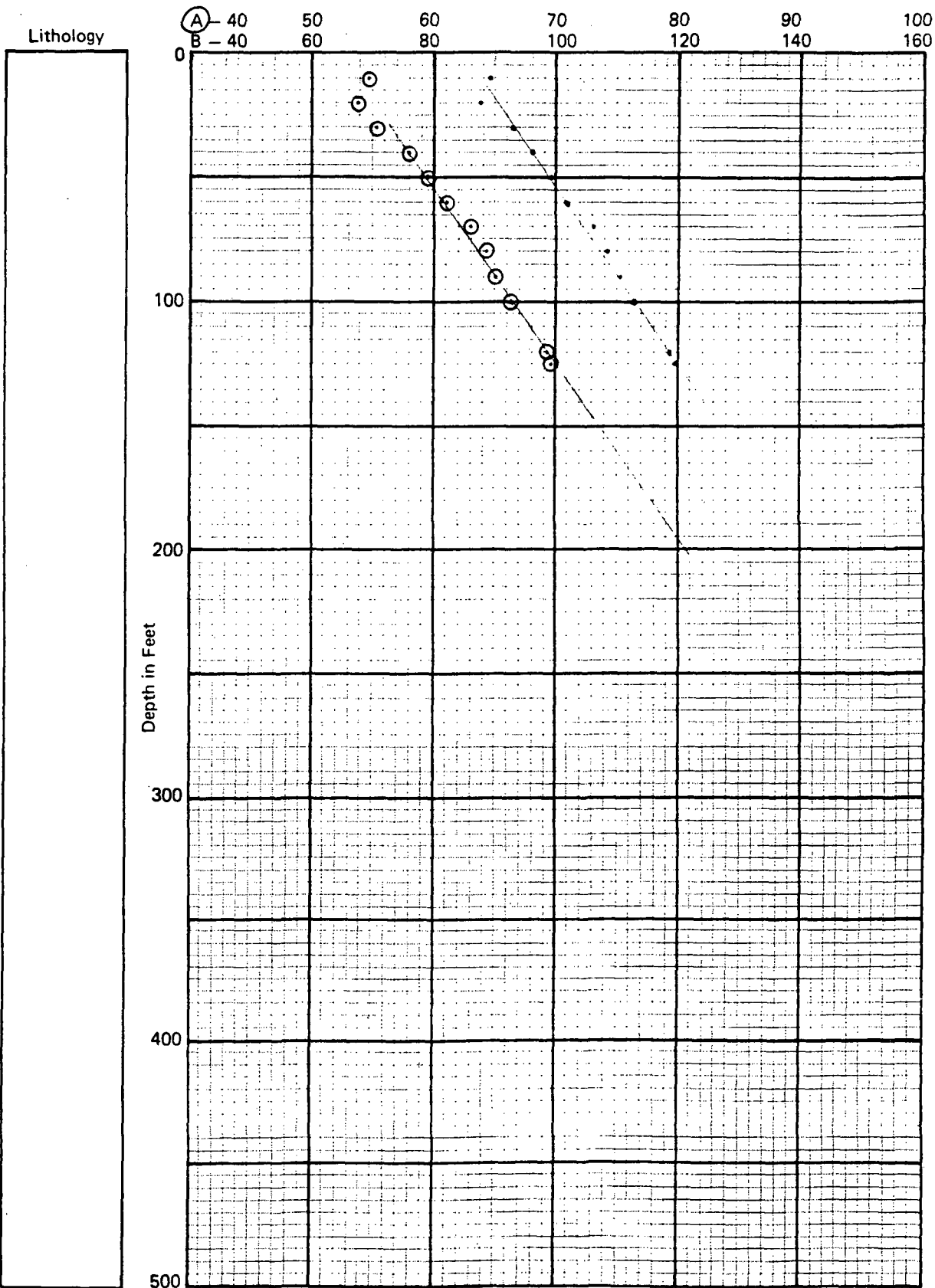
TIME ON BOTTOM: 1 2 35

**CHEVRON RESOURCES CO.  
GEOHERMAL 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  
GEOHERMAL 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.  $\checkmark = 1142$       END - BATT.  $\checkmark = 1118$

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	3,125	64.7	220		
20	3,195	63.4	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		
<del>125</del> 140	2,164	79.8	440		
160			460		
180			480		
200			500		

TIME START: 1045

TIME ON BOTTOM: 1130

CHEVRON RESOURCES COMPANY  
GEOHERMAL 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  $\sqrt{V} = 1125$

END - BATT  $\sqrt{V} = 1107$

10K $\Omega$

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		
125 140	2,165	79.8	440		
160			460		
180			480		
200			500		

TIME START: 12 50

TIME ON BOTTOM: 13 25

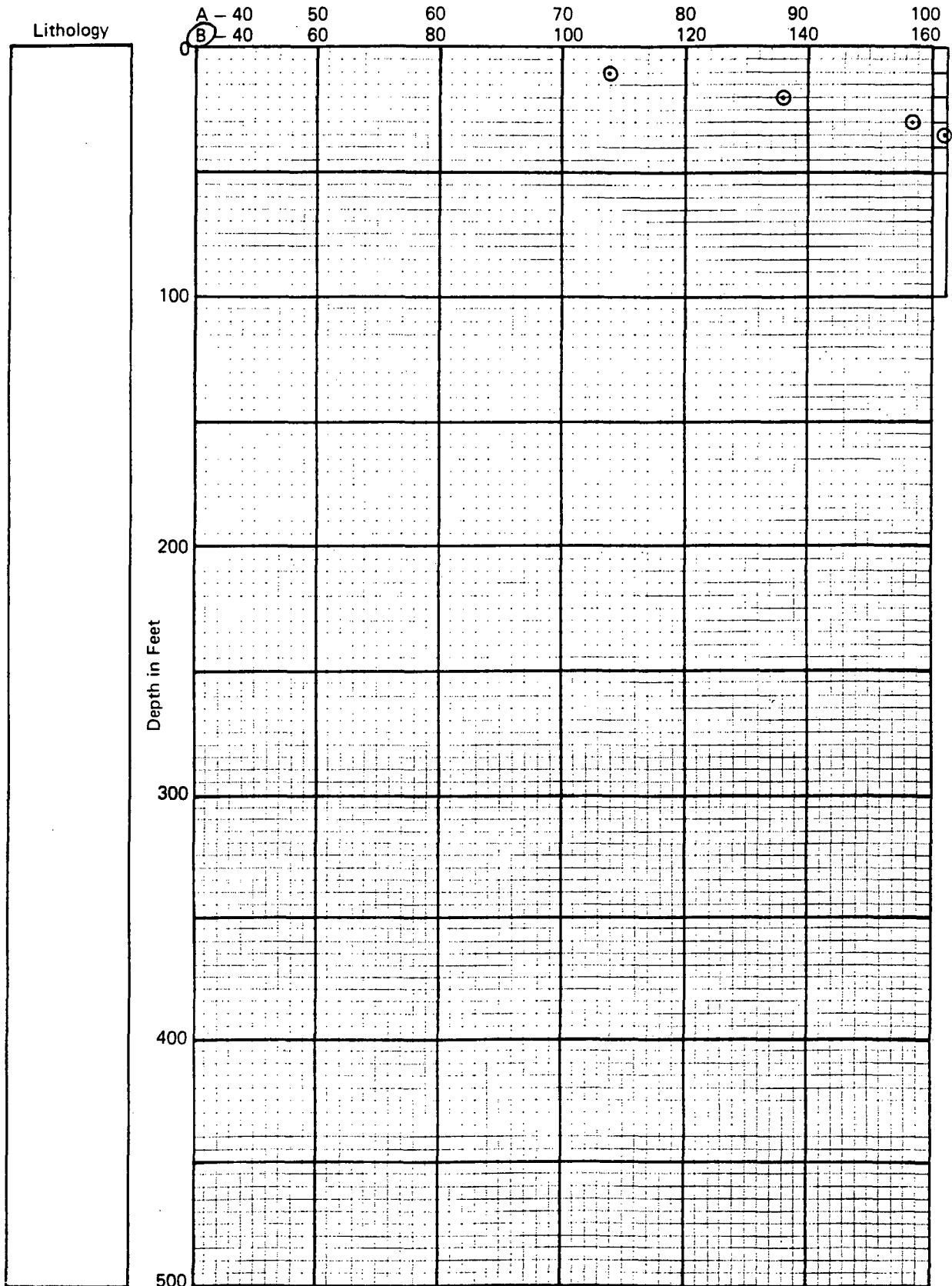


**CHEVRON RESOURCES CO.**  
**GEOTHERMAL DIVISION**

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. Flemer  
 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.  $\checkmark = 1132$

END-BATT.  $\checkmark = 1119$

1 K-

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		
<del>35</del> 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: 12 10

TIME ON BOTTOM: 12 45

CHEVRON RESOURCES COMPANY  
 GEOTHERMAL DIVISION  
 SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
 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		

TIME START: 1400

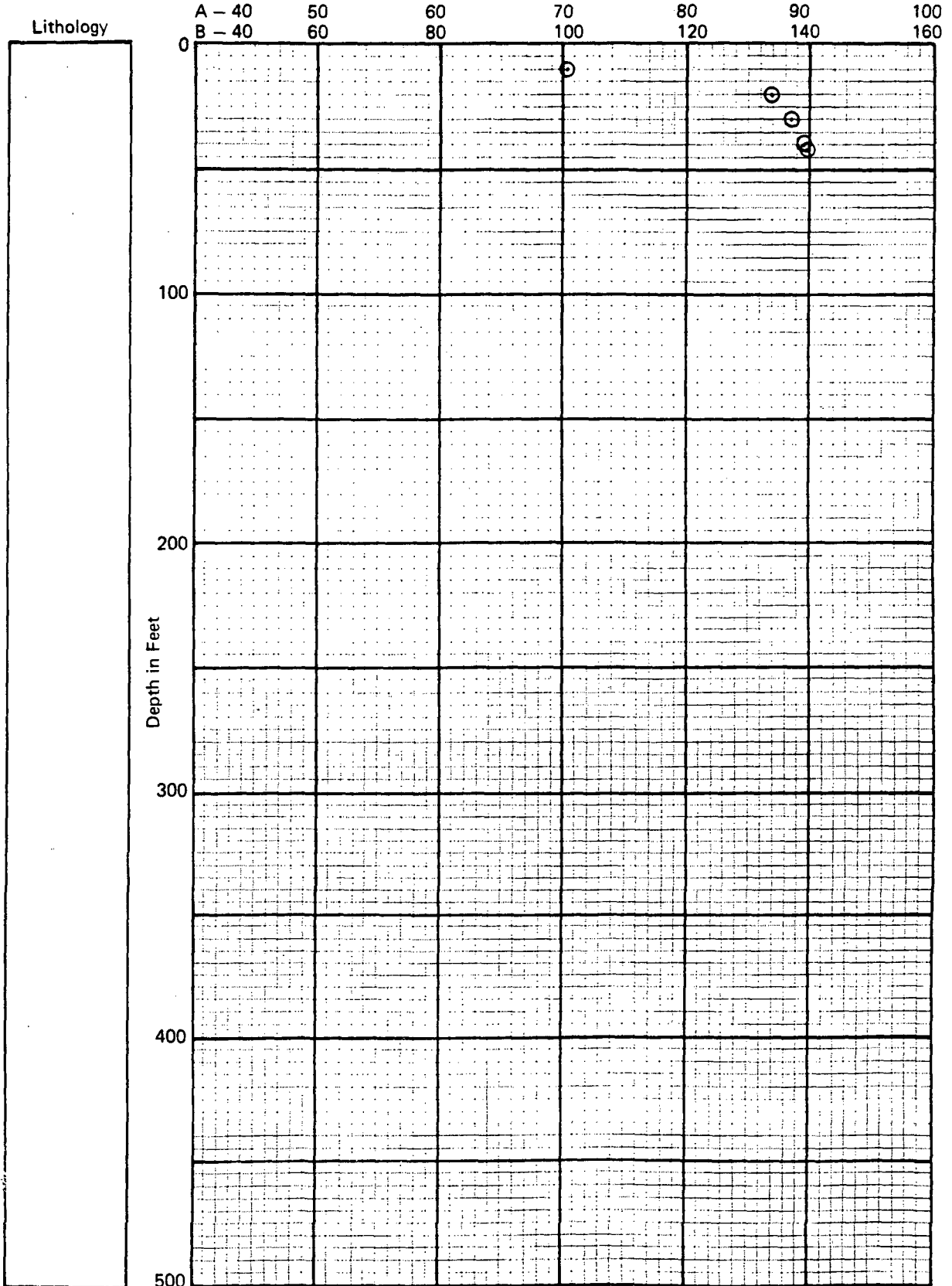
TIME ON BOTTOM: 1935

**CHEVRON RESOURCES CO.**  
**GEO THERMAL 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: Flemer  
 Temp. Probe: 1100'

Temperature in °F  
(Circle Scale Used)



Approved: \_\_\_\_\_

CHEVRON RESOURCES COMPANY  
 GEOTHERMAL DIVISION  
 SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
 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

1K-2

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1355	100.4	220		
20	683	134.0	240		
30	646	137.0	260		
40	617	139.3	280		
<del>42</del> 50	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  
GEOHERMAL 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.  $\checkmark = 1128$

END - BATT.  $\checkmark = 1108$

1150

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		
<del>42</del> 50	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

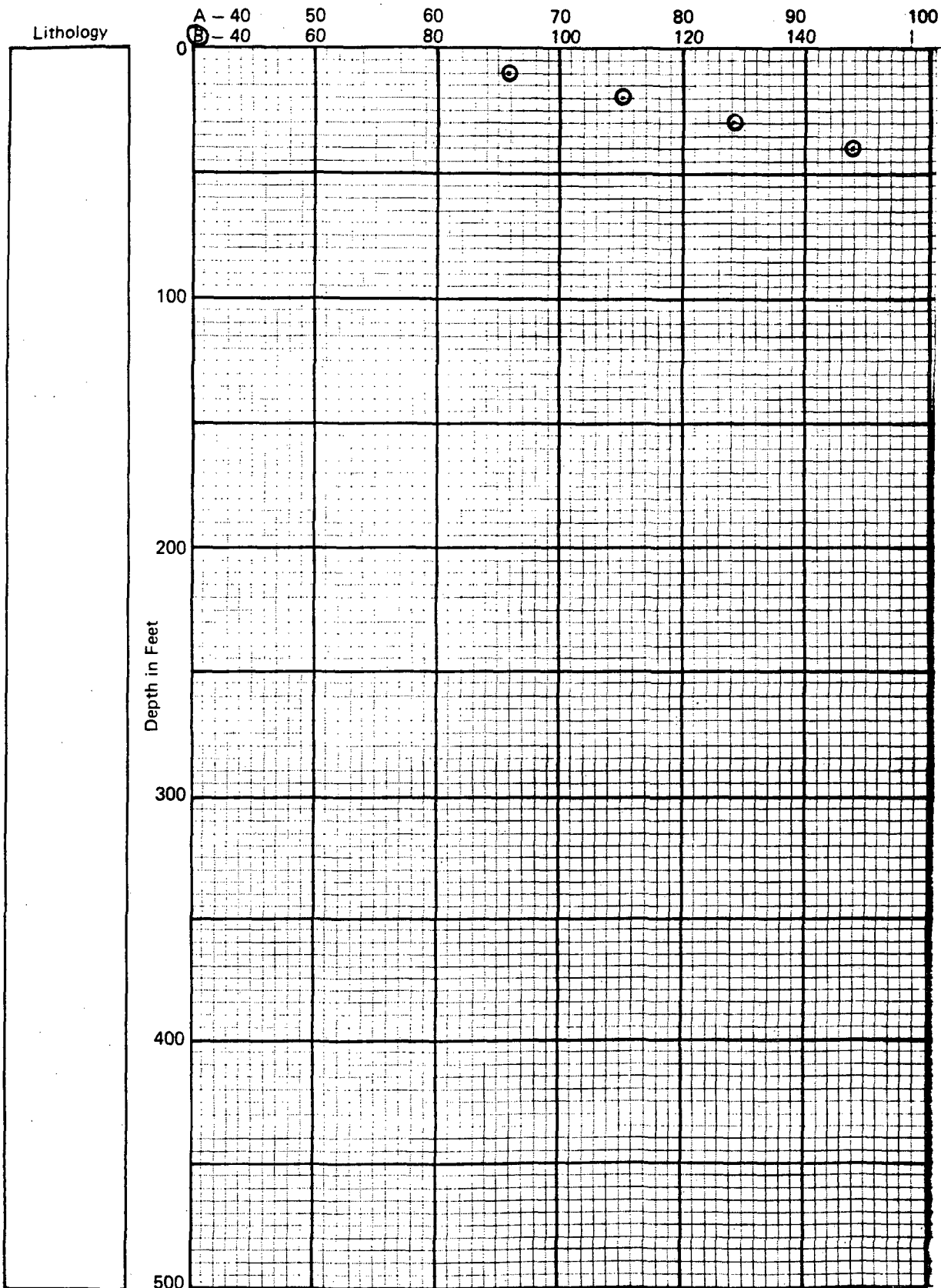
TIME ON BOTTOM: 1755

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

1K-2

DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)	DEPTH (Ft)	RESISTANCE (ohms)	TEMPERATURE (°C/°F)
10	1648	91.6	220		
20	1094	<del>110.4</del>	240		
30	763	128.3	260		
40	529	147.9	280		
50	392	165.5	300		
<del>50</del> 58	321	178.2	320		
70			340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 1320

TIME ON BOTTOM: 1350



CHEVRON RESOURCES COMPANY  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
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		
<del>50</del> 58	323	177.7	320		
70			340		
80			360		
90			380		
100			400		
120			420		
140			440		
160			460		
180			480		
200			500		

TIME START: 16 10

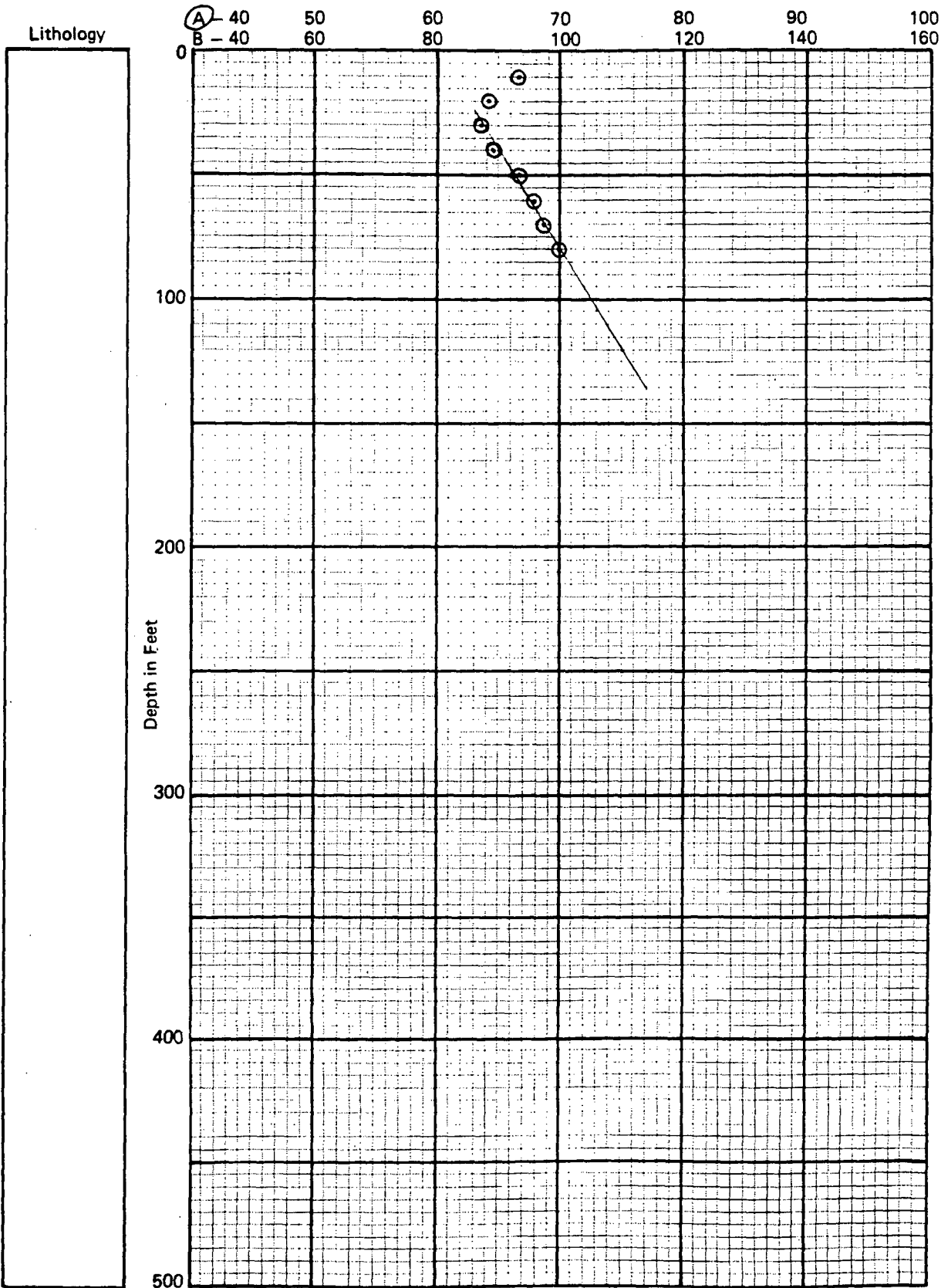
TIME ON BOTTOM: 16 45

**CHEVRON RESOURCES CO.**  
**GEOTHERMAL DIVISION**

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

Date Completed: \_\_\_\_\_  
 Date Logged: 11-16-77  
 Logged By: Flaner  
 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.  $\checkmark = 1131$

END - BATT.  $\checkmark = 1111$

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	2,738	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  
GEOHERMAL DIVISION  
SHALLOW TEMPERATURE HOLE LOG

PROSPECT : SAN EMILIO  
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	3085	65.2	220		
20	3185	64.0	240		
30	3245	63.2	260		
40	3135	64.6	280		
50	2956	66.8	300		
60	2873	67.9	320		
70	2803	68.9	340		
80	2739	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

<u>Well No.</u>	<u>Depth</u>	<u>Lithology</u>	<u>Comments</u>
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 <sub>2</sub> O 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

<u>Well No.</u>	<u>Depth</u>	<u>Lithology</u>	<u>Comments</u>
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 <sub>2</sub> O.
	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 <sub>2</sub> O
	360'-365'	#18 - 70% ang. to sub-ang., small gravel + frags of grey slate, phyllite, 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

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

PROSPECT SAN EMIDIO

<u>Well No.</u>	<u>Depth</u>	<u>Lithology</u>	<u>Comments</u>
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

<u>Well No.</u>	<u>Depth</u>	<u>Lithology</u>	<u>Comments</u>
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 <sub>2</sub> O at 380'. H <sub>2</sub> O Temp. = 78° F.
	400'-405'	#20 - frags of brown-grey and grey-green siltstone.	H <sub>2</sub> O Temp. = 78° F.
	420'-425'	#21 - frags of brown-grey and grey-green siltstone.	H <sub>2</sub> O 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 <sub>2</sub> O 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 <sub>2</sub> O Temp. = 79° F.
	480'-485'	#24 - frags of brown and green siltstone.	H <sub>2</sub> O Temp. = 79° F.
	495'-500'	#25 - frags of brown and green siltstone.	H <sub>2</sub> O Temp. = 80° F.

## LITHOLOGIC WELL LOG

San Emidio  
Nevada  
Well No. 3-77

<u>Time</u>	<u>Depth (Ft.)</u>		
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
1203	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

<u>Time</u>	<u>Depth (Ft.)</u>		
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 = 75°F
1140	215-220	#11 - same as #9	MT = 80°F
1150	235-240	#12 - same as #9	MT = 75°F
1200	255-260	#13 - same as #9	MT = 80°F
1205	275-280	#14 - same as #9	MT = 80°F
1210	295-300	#15 - same as #9	MT = 82°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 = 80°F
1300	395-400	#20 - same as #19	MT = 81°F

<u>Time</u>	<u>Depth (Ft.)</u>		
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

<u>Time</u>	<u>Depth (Ft.)</u>		
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

<u>Time</u>	<u>Depth (Ft.)</u>		
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

<u>Time</u>	<u>Depth (Ft.)</u>		
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

<u>Time</u>	<u>Depth (Ft.)</u>		
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
1500	415-420	#21 - ang. frags. of basalt	MT = 75°F

Hard rock at 405'

## LITHOLOGIC WELL LOG

Sam Emidio  
Nevada  
Well No. 8-77

<u>Time</u>	<u>Depth (Ft.)</u>		
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

<u>Time</u>	<u>Depth (Ft.)</u>		
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

<u>Time</u>	<u>Depth (Ft.)</u>		
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

<u>Time</u>	<u>Depth (Ft.)</u>		
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

<u>Time</u>	<u>Depth (Ft.)</u>		
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

<u>Time</u>	<u>Depth (Ft.)</u>		
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 1-77A

LOCATION NE 1/4 of SE 1/4 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 <sub>4</sub>	220
Na	1300	CO <sub>3</sub>	< 2
K	120	HCO <sub>3</sub>	50
Ca	130	F	3.1
Mg	2.1	B	3.6
Mn	.07	SiO <sub>2</sub>	140
Hg		pH (lab)	7.7
As	.14	Other	
U	< 2		
Al	< .1		
Fe	.5		
Li	3.0		

ESTIMATED BASE TEMPERATURES

SiO <sub>2</sub> , Max steam loss:	302° F	SiO <sub>2</sub> , 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 SE 1/4 of SE 1/4 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 <sub>4</sub>	1750
Na	640	CO <sub>3</sub>	22
K	6.6	HCO <sub>3</sub>	35
Ca	310	F	1.4
Mg	7.3	B	.7
Mn	.49	SiO <sub>2</sub>	5.6
Hg		pH (lab)	7.2
As	<.05	Other	
U	<.2		
Al	.6		
Fe	.4		
Li	.38		

ESTIMATED BASE TEMPERATURES

SiO <sub>2</sub> , Max steam loss:	-0-	SiO <sub>2</sub> , no steam loss:	71°F
Na/K:	61°F	Na/K/Ca:	119°F
Other:			

PRER: SED&EM

OATTON GEOTHERMOMETRY

STATION	PPM NA	PPM K	PPM CH	NA-K TEMP C	NA-K TEMP F	NAKCH TEMP C	NAKCH TEMP F	CONST. USED
SEDI	1300.0	120.0	130.0	175.	345.	197.	386.	1/3
SED2	640.0	6.6	310.0	16.	61.	48.	119.	4/3
EM16	74.0	9.6	30.0	216.	421.	85.	185.	4/3

SILICA GEOTHERMOMETRY

STATION	PPM NA	MAX STEAM LOSS TEMP C	NO STEAM LOSS TEMP C	CHERT TEMP C	CRISTOB TEMP C	GLASS TEMP C
SEDI	140.0	149.	157.	133.	107.	35.
SED2	5.6	8888.	22.	8888.	-25.	9999.
EM16	40.0	8888.	92.	61.	42.	8888.

SILICA GEOTHERMOMETRY

STATION	PPM NA	MAX STEAM LOSS TEMP F	NO STEAM LOSS TEMP F	CHERT TEMP F	CRISTOB TEMP F	GLASS TEMP F
SEDI	140.0	301.	314.	271.	224.	95.
SED2	5.6	8888.	71.	8888.	-13.	9999.
EM16	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; SEND

10.40.59 XLDG  
INVRLLID OSS COMMAND

10.41.09 XLDG  
WPU=8 0.29, I/D=8 0.00, CON=8 1.76, TOT=8 1.75.  
{ 20 WPU/S, 24 CONNECT HRS, 300 I/D  
LOGGED OFF RT 10.41.19 ON 0380677

# 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

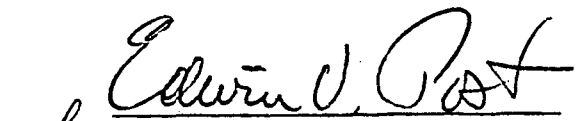
Item	Sample Number		Na (mg/l)	K (mg/l)	Mg (mg/l)	Ca (mg/l)	Li (mg/l)
1.	San Emidio #1	acid	1,300	120.	2.1	130	3.0
2.	San Emidio #2	acid	640	6.6	7.3	310	.38
3.	Battle Mountain #16	raw	74	9.6	7.0	30	.08

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 <sub>4</sub> (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 <sub>3</sub> (mg/l)	HCO <sub>3</sub> (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 <sub>2</sub> (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.

  
 Charles E. Thompson  
 Chief Chemist

\* Analysis not requested

San Emido Desert

Seismic Shot Point Temperatures

Line # 1

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

26 with pipe

30 with pipe

36 with pipe

60 with pipe

64 with pipe

San Emido Desert  
 Seismic Shot Point Temperatures  
 Line # 2

<u>S. P. #</u>	<u>Depth</u>	<u>Temperature</u>
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

*66 with 77*

*35 for 44*

San Emido Desert  
Seismic Shot Point Temperatures

Line # 3

<u>S. P. #</u>	<u>Depth</u>	<u>Temperature</u>
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)

<u>S. P. #</u>	<u>Depth</u>	<u>Temperature</u>
62	20'	140°F - #1 130°F - #2
64	20'	157.6°F at 14'
66	60'	167°F
68	160'	185°F at 150'
70	80'	75°F at 70'
76		