

CDP 326		
TIME MSEC	R.M.S. VEL FT/SEC	R.M.S. VEL FT/SEC
0	8000	8000
50	8000	8000
100	8000	8000
150	8000	8000
200	8000	8000
250	8000	8000
300	8000	8000
350	8000	8000
400	8000	8000

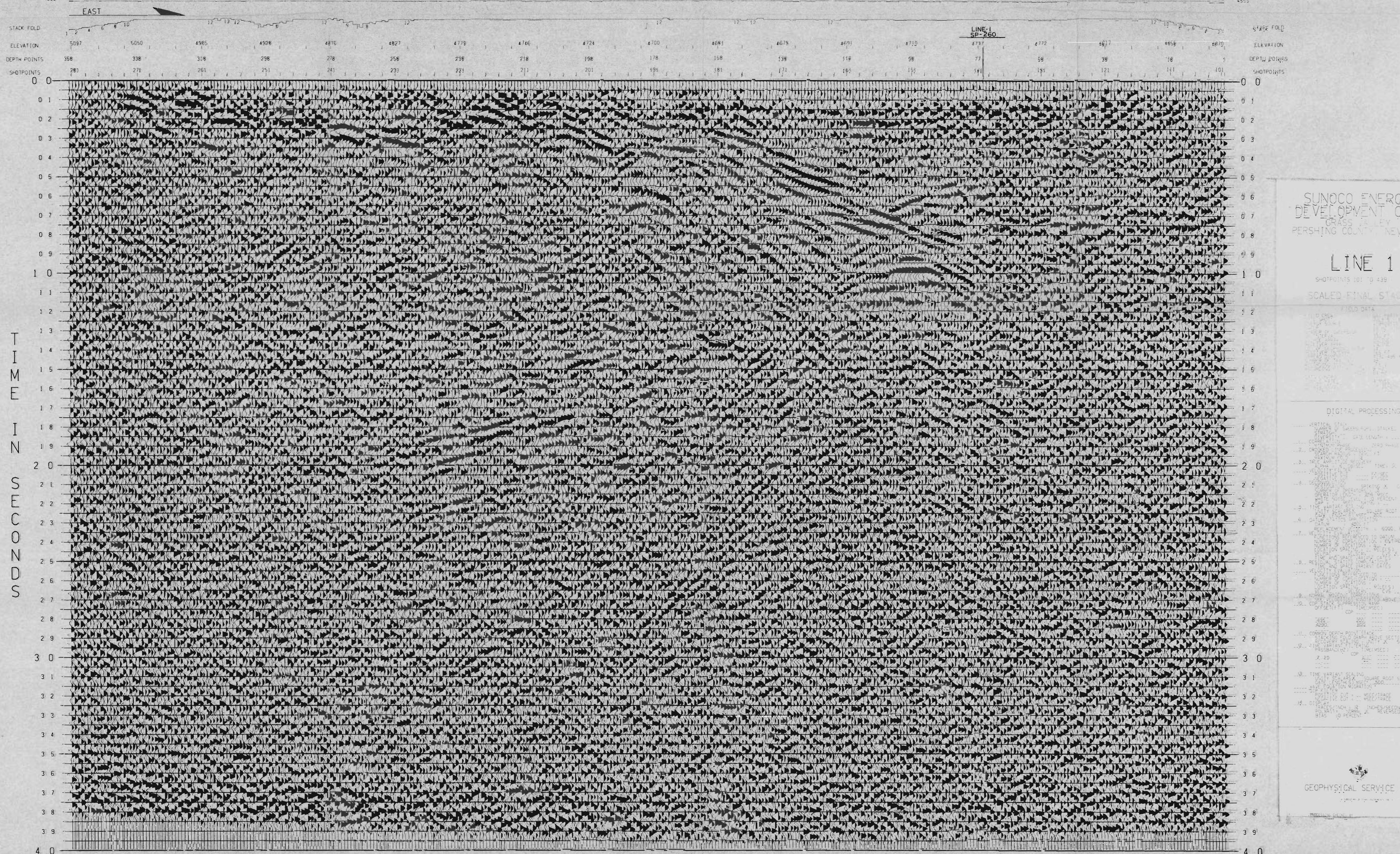
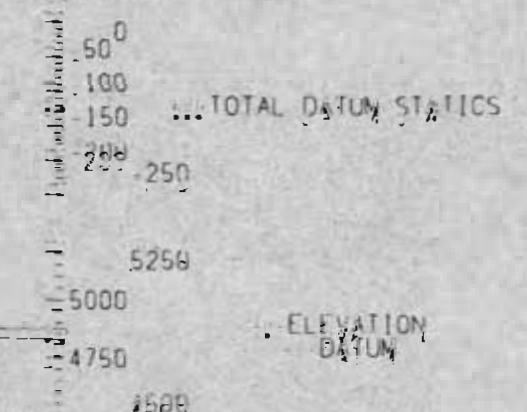
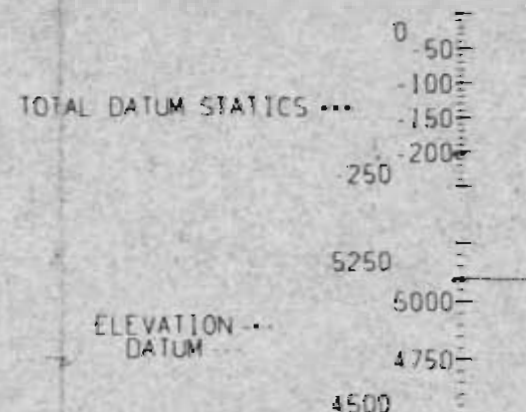
CDP 246			CDP 238		
TIME MSEC	R.M.S. VEL FT/SEC	R.M.S. VEL FT/SEC	TIME MSEC	R.M.S. VEL FT/SEC	R.M.S. VEL FT/SEC
0	8000	8000	0	7000	7000
250	8000	8000	250	7000	7000
500	8000	8000	500	7000	7000
750	8000	8000	750	7000	7000
1000	8000	8000	1000	7000	7000
1250	8000	8000	1250	7000	7000
1500	8000	8000	1500	7000	7000
1750	8000	8000	1750	7000	7000
2000	8000	8000	2000	7000	7000

CDP 196			CDP 186		
TIME MSEC	R.M.S. VEL FT/SEC	R.M.S. VEL FT/SEC	TIME MSEC	R.M.S. VEL FT/SEC	R.M.S. VEL FT/SEC
0	7000	7000	0	6000	6000
250	7000	7000	250	6000	6000
500	7000	7000	500	6000	6000
750	7000	7000	750	6000	6000
1000	7000	7000	1000	6000	6000
1250	7000	7000	1250	6000	6000
1500	7000	7000	1500	6000	6000
1750	7000	7000	1750	6000	6000
2000	7000	7000	2000	6000	6000

CDP 140			CDP 135		
TIME MSEC	R.M.S. VEL FT/SEC	R.M.S. VEL FT/SEC	TIME MSEC	R.M.S. VEL FT/SEC	R.M.S. VEL FT/SEC
0	6000	6000	0	5000	5000
250	6000	6000	250	5000	5000
500	6000	6000	500	5000	5000
750	6000	6000	750	5000	5000
1000	6000	6000	1000	5000	5000
1250	6000	6000	1250	5000	5000
1500	6000	6000	1500	5000	5000
1750	6000	6000	1750	5000	5000
2000	6000	6000	2000	5000	5000

CDP 22		
TIME MSEC	R.M.S. VEL FT/SEC	R.M.S. VEL FT/SEC
0	6000	6000
500	6000	6000
1000	6000	6000
1500	6000	6000
2000	6000	6000

CDP 1		
TIME MSEC	R.M.S. VEL FT/SEC	R.M.S. VEL FT/SEC
0	6000	6000
500	6000	6000
1000	6000	6000
1500	6000	6000
2000	6000	6000



SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA

LINE 1

SHOTPOINTS 181 TO 435
SCALED FINAL STACK



DIGITAL PROCESSING

- 1. INPUT DATA
- 2. DATA CHECK
- 3. DATA SORT
- 4. DATA REFORMAT
- 5. DATA FILTER
- 6. DATA CORRECT
- 7. DATA STACK
- 8. DATA SCALE
- 9. DATA PRINT
- 10. DATA CHECK
- 11. DATA SORT
- 12. DATA REFORMAT
- 13. DATA FILTER
- 14. DATA CORRECT
- 15. DATA STACK
- 16. DATA SCALE
- 17. DATA PRINT

GEOPHYSICAL SERVICE INC

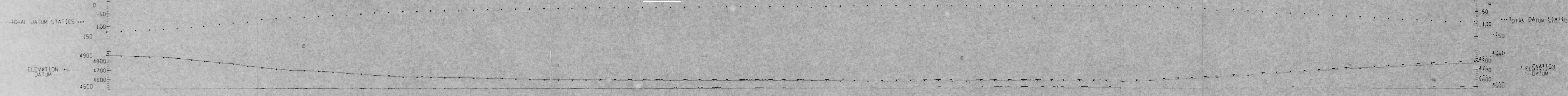
CDP 330		CDP 320	
TIME MSEC	R.M.S. VEL. FT/SEC	TIME MSEC	R.M.S. VEL. FT/SEC
0	9000	0	6000
500	9000	500	6000
1000	10000	1000	7000
1500	10000	1500	7000
2000	12000	2000	8000
2500	13000	2500	9000
3000	13000	3000	9000
3500	13000	3500	9000
4000	13000	4000	9000

CDP 201	
TIME MSEC	R.M.S. VEL. FT/SEC
0	6000
500	6000
1000	6000
1500	6000
2000	6000
2500	6000
3000	6000
3500	6000
4000	6000

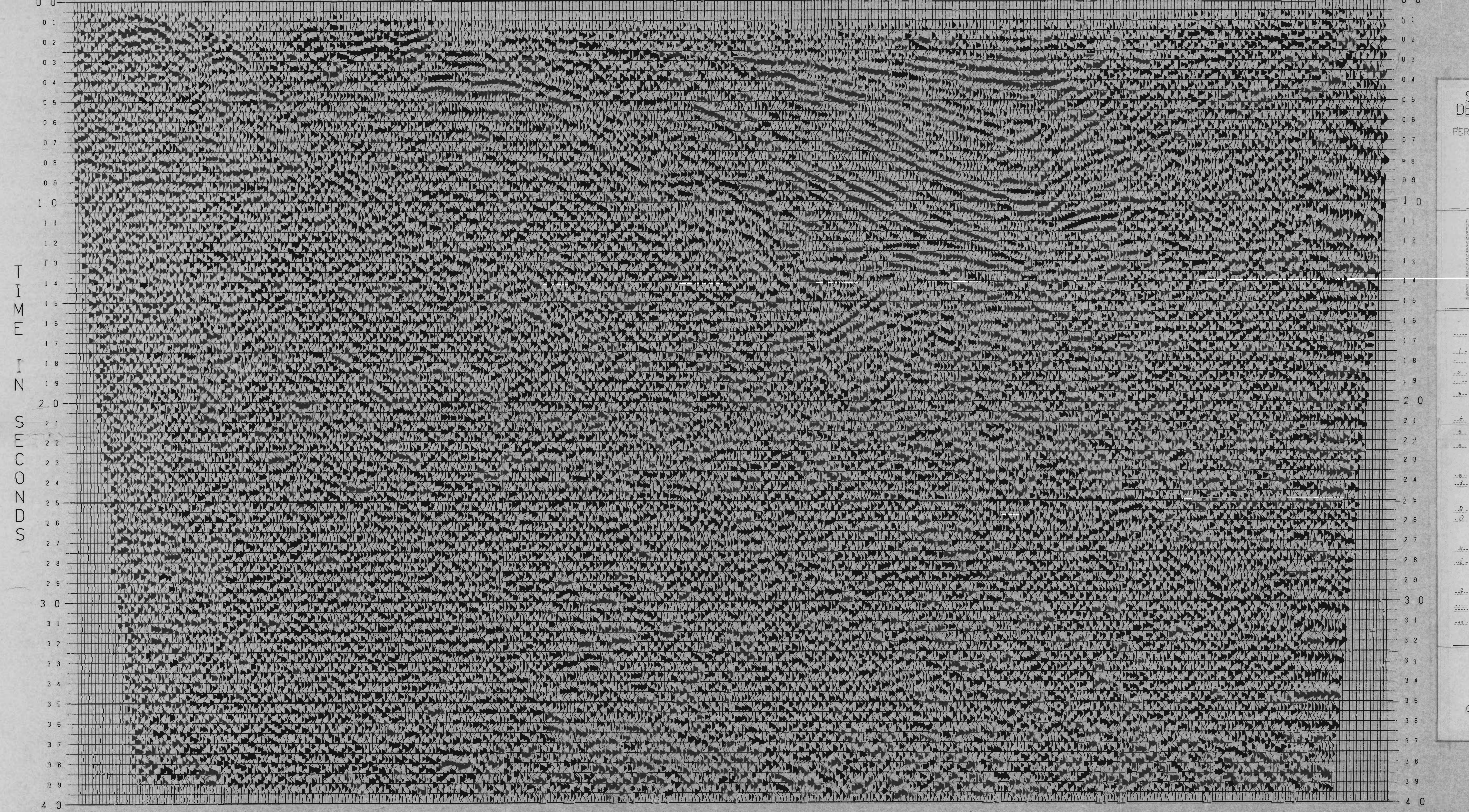
CDP 140	
TIME MSEC	R.M.S. VEL. FT/SEC
0	6000
500	6000
1000	6000
1500	6000
2000	6000
2500	6000
3000	6000
3500	6000
4000	6000

CDP 87	
TIME MSEC	R.M.S. VEL. FT/SEC
0	6000
500	6000
1000	6000
1500	6000
2000	6000
2500	6000
3000	6000
3500	6000
4000	6000

CDP 1	
TIME MSEC	R.M.S. VEL. FT/SEC
0	6000
500	6000
1000	6000
1500	6000
2000	6000
2500	6000
3000	6000
3500	6000
4000	6000



STACK FOLD	ELEVATION	DEPTH POINTS	SHOTPOINTS
12	4842	378	291
11	4778	358	281
10	4696	338	271
9	4656	318	261
8	4622	298	251
7	4607	278	241
6	4591	258	231
5	4588	238	221
4	4584	218	211
3	4582	198	201
2	4573	178	191
1	4573	158	181
0	4575	138	171
0	4574	118	161
0	4573	98	151
0	4605	78	141
0	4627	58	131
0	4703	38	121
0	4745	18	111
0	4769	1	101



SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA

LINE 2
SHOTPOINTS 101 TO 299
SCALED FINAL STACK

FIELD DATA

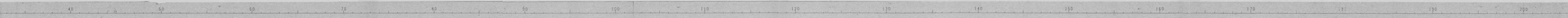
FIELD NO. 051 PARTY 17379
 COMPANY SOURCE 17379
 NUMBER OF GAPS/HP 15
 DISTANCE BETWEEN GAPS 100 FT
 RECEPTOR ARRAY 12 LINE
 SURFACE INTERVAL 40 FT
 DISTANCE BETWEEN SURF. 25 FT
 SURFACE TO FIRST GROUND 25 FT
 SURFACE TO LAST GROUND 25 FT
 SURFACE TO DEPTH 25 FT

DATUM CONTROL 4 MSEC
 SURFACE TO DEPTH 10 FT

DIGITAL PROCESSING

1. VERTICAL STACK
 2. GATE LENGTH 1.000 MSEC
 3. CORRELATION
 4. CROSS CORRELATION
 5. TIME VARIATION
 6. DATA VARIATION
 7. DATA VARIATION
 8. DATA VARIATION
 9. DATA VARIATION
 10. DATA VARIATION
 11. DATA VARIATION
 12. DATA VARIATION
 13. DATA VARIATION
 14. DATA VARIATION
 15. DATA VARIATION
 16. DATA VARIATION
 17. DATA VARIATION
 18. DATA VARIATION
 19. DATA VARIATION
 20. DATA VARIATION
 21. DATA VARIATION
 22. DATA VARIATION
 23. DATA VARIATION
 24. DATA VARIATION
 25. DATA VARIATION
 26. DATA VARIATION
 27. DATA VARIATION
 28. DATA VARIATION
 29. DATA VARIATION
 30. DATA VARIATION
 31. DATA VARIATION
 32. DATA VARIATION
 33. DATA VARIATION
 34. DATA VARIATION
 35. DATA VARIATION
 36. DATA VARIATION
 37. DATA VARIATION
 38. DATA VARIATION
 39. DATA VARIATION
 40. DATA VARIATION

GEOPHYSICAL SERVICE INC
 17379
 OCT 20 1978



COP 540

LINE NO.	R.M.S.	P.P.S/SEC
540	120	1500
540	120	1500
540	120	1500
540	120	1500
540	120	1500

COP 540

LINE NO.	R.M.S.	P.P.S/SEC
540	120	1500
540	120	1500
540	120	1500
540	120	1500
540	120	1500

COP 370

LINE NO.	R.M.S.	P.P.S/SEC
370	120	1500
370	120	1500
370	120	1500
370	120	1500
370	120	1500

COP 330

LINE NO.	R.M.S.	P.P.S/SEC
330	120	1500
330	120	1500
330	120	1500
330	120	1500
330	120	1500

COP 202

LINE NO.	R.M.S.	P.P.S/SEC
202	120	1500
202	120	1500
202	120	1500
202	120	1500
202	120	1500

COP 142

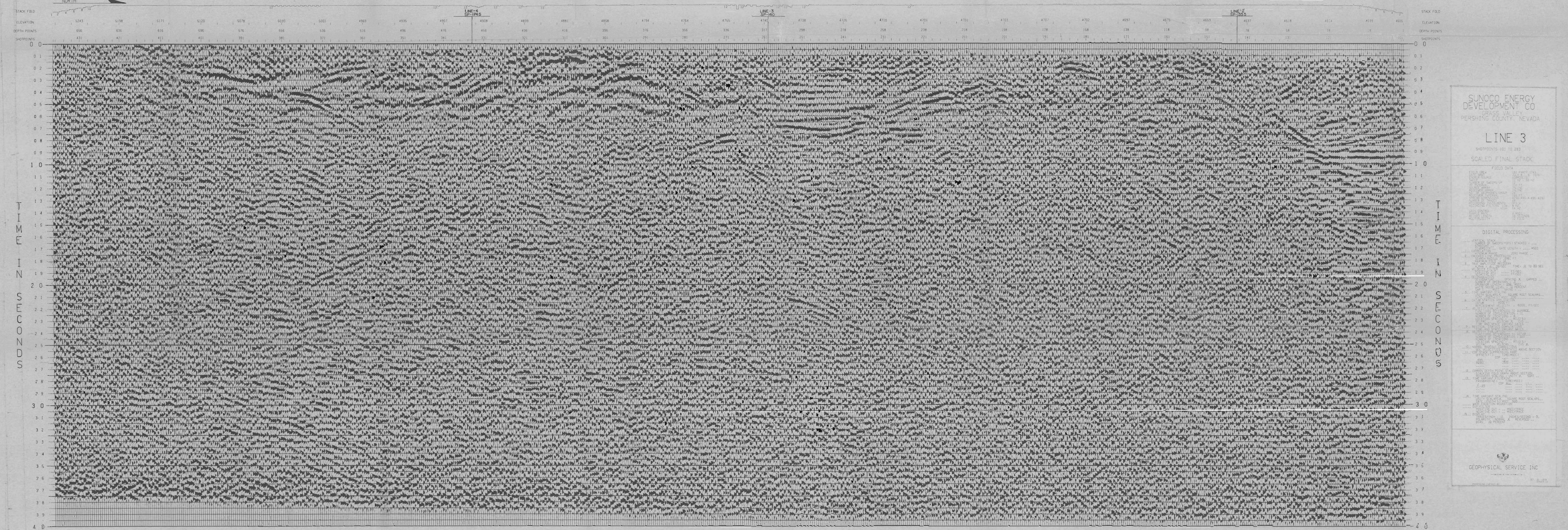
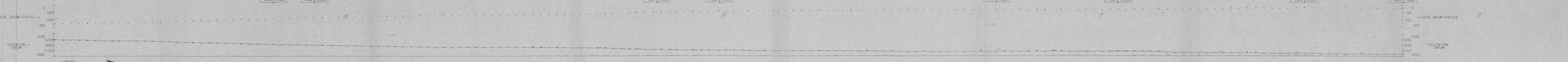
LINE NO.	R.M.S.	P.P.S/SEC
142	120	1500
142	120	1500
142	120	1500
142	120	1500
142	120	1500

COP 82

LINE NO.	R.M.S.	P.P.S/SEC
82	120	1500
82	120	1500
82	120	1500
82	120	1500
82	120	1500

COP 1

LINE NO.	R.M.S.	P.P.S/SEC
1	120	1500
1	120	1500
1	120	1500
1	120	1500
1	120	1500



SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA

LINE 3
SHOTPOINTS 181 TO 283
SCALED FINAL STACK

FIELD DATA

DIGITAL PROCESSING

GEOPHYSICAL SERVICE INC

CDP 90	
TIME MSEC	RMS VEL FT/SEC
0	7000
100	7000
175	9000
450	9000
1000	11000
1200	12000
2000	13000
4000	14000

CDP 247		CDP 239	
TIME MSEC	RMS VEL FT/SEC	TIME MSEC	RMS VEL FT/SEC
0	8000	0	6000
800	8000	500	6000
750	8000	700	8000
875	9000	850	9000
1000	10000	1000	10000
2000	12000	1700	12000
3000	13000	2500	13000
4000	14000	4000	14000

CDP 152		CDP 142	
TIME MSEC	RMS VEL FT/SEC	TIME MSEC	RMS VEL FT/SEC
0	8000	0	7000
500	8000	300	7000
700	8000	350	9000
850	8000	420	9000
1000	10000	450	9000
2000	12000	1000	11000
3000	13000	1400	13000
4000	14000	2400	14000

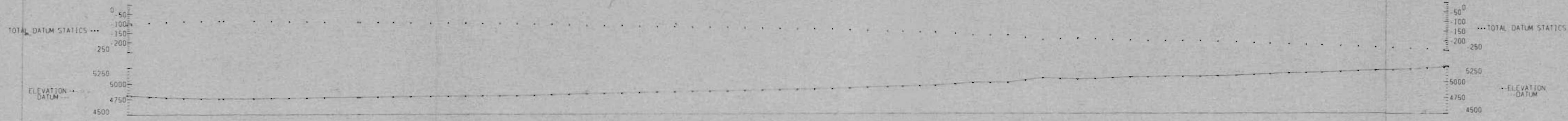
CDP 122	
TIME MSEC	RMS VEL FT/SEC
0	7000
250	7000
300	8000
450	8000
450	9000
1000	11000
1300	13000
2200	14000

CDP 102	
TIME MSEC	RMS VEL FT/SEC
0	7000
125	7000
250	9000
450	9000
850	9000
1000	11000
1200	13000
2200	14000

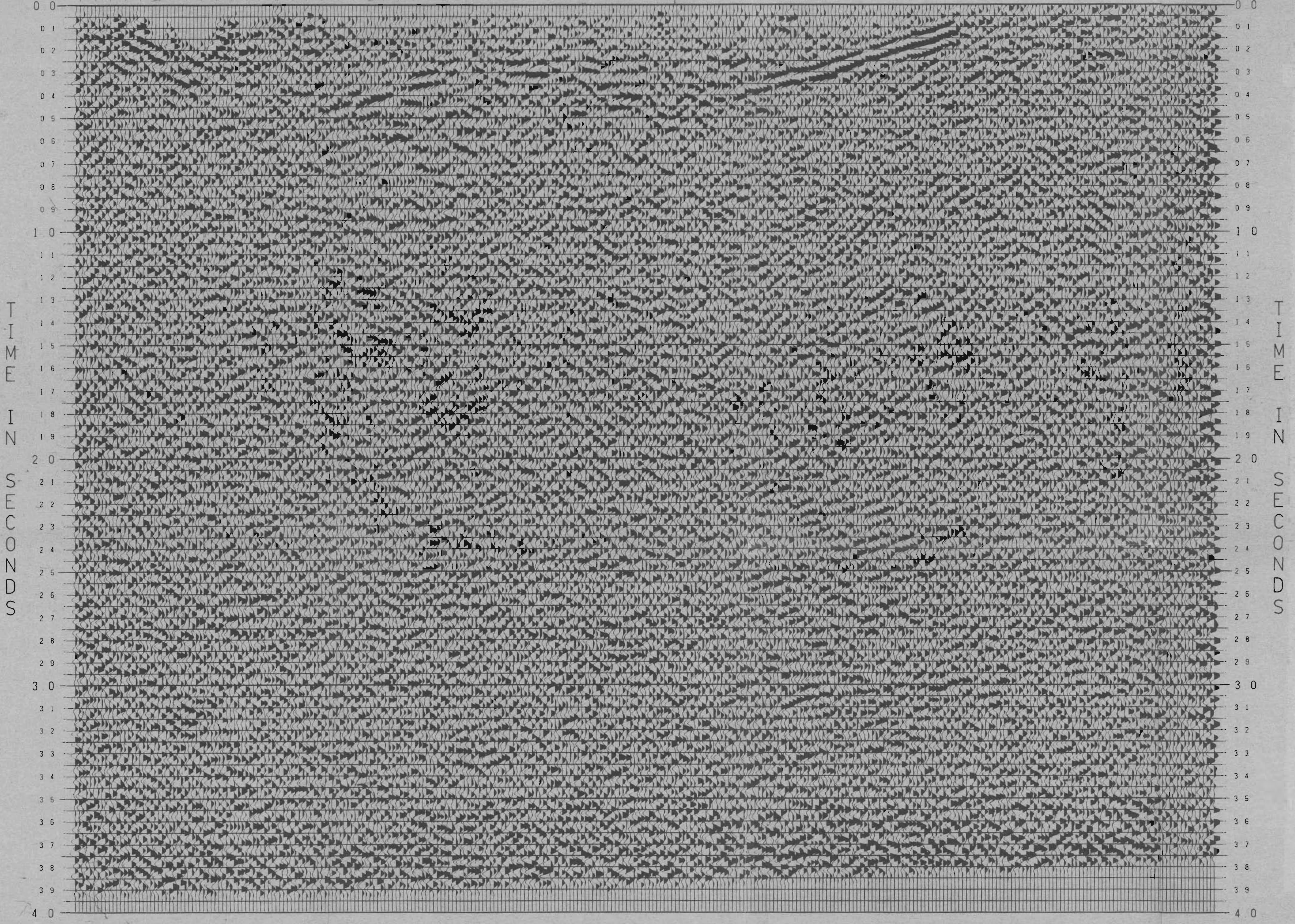
CDP 82	
TIME MSEC	RMS VEL FT/SEC
0	7000
50	8000
125	9000
450	9000
850	11000
1000	13000
2000	14000

CDP 67	
TIME MSEC	RMS VEL FT/SEC
0	9000
150	9000
300	9000
450	9000
850	10000
1200	12000
1800	13000
4000	14000

CDP 1	
TIME MSEC	RMS VEL FT/SEC
0	9000
150	9000
300	9000
450	9000
850	10000
1200	12000
1800	13000
4000	14000



EAST		LINE-1 SP-334																EAST																				
STACK FOLD		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	STACK FOLD																
ELEVATION		4788	4758	4773	4788	4799	4823	4819	4881	4914	4952	5034	5059	5090	5142	5187	5245	ELEVATION																				
DEPTH POINTS		298	281	258	238	218	198	178	158	138	119	98	78	58	38	18	DEPTH POINTS																					
SHOTPOINTS		251	241	231	221	211	201	191	181	171	161	151	141	131	121	111	101	SHOTPOINTS																				



SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA

LINE 4

SHOTPOINTS 101 TO 255
SCALED FINAL STACK

FIELD DATA

WELL AREA	WELL PARTY	1743
SOURCE	DATE	10/18/19
DEPTH OF OBSERVATION	DATE	6/6/19
WELL NAME	WELL	
WELL TYPE	WELL	
WELL DEPTH	WELL	495 - 105 - 4200

DIGITAL PROCESSING

- 1. VERTICAL STACK
- 2. HORIZONTAL STACK
- 3. GAIN
- 4. GATE LENGTH
- 5. GAIN
- 6. ZERO PHASE
- 7. FILTERING
- 8. TIME GAIN
- 9. SPLITTING X
- 10. SPLITTING X CAPPED
- 11. SPLITTING X
- 12. SPLITTING X
- 13. SPLITTING X
- 14. SPLITTING X
- 15. SPLITTING X
- 16. SPLITTING X
- 17. SPLITTING X
- 18. SPLITTING X
- 19. SPLITTING X
- 20. SPLITTING X
- 21. SPLITTING X
- 22. SPLITTING X
- 23. SPLITTING X
- 24. SPLITTING X
- 25. SPLITTING X
- 26. SPLITTING X
- 27. SPLITTING X
- 28. SPLITTING X
- 29. SPLITTING X
- 30. SPLITTING X
- 31. SPLITTING X
- 32. SPLITTING X
- 33. SPLITTING X
- 34. SPLITTING X
- 35. SPLITTING X
- 36. SPLITTING X
- 37. SPLITTING X
- 38. SPLITTING X
- 39. SPLITTING X
- 40. SPLITTING X

GEOPHYSICAL SERVICE INC
101 W. 11th St., Reno, NV 89501
702.785.1234

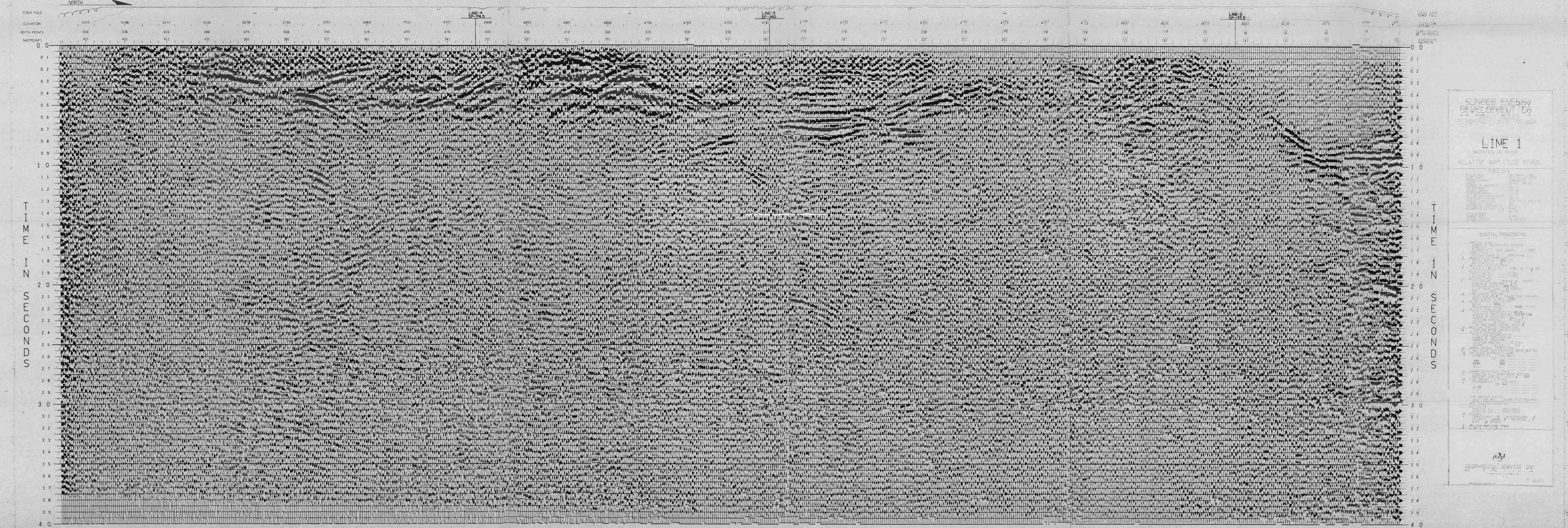
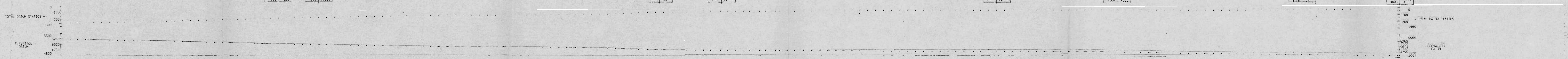
40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200

CDP 580		CDP 540	
TIME	R.M.S	TIME	R.M.S
MSEC	F/SEC	MSEC	F/SEC
100	1.00	100	1.00
200	1.00	200	1.00
300	1.00	300	1.00
400	1.00	400	1.00
500	1.00	500	1.00
600	1.00	600	1.00
700	1.00	700	1.00
800	1.00	800	1.00
900	1.00	900	1.00
1000	1.00	1000	1.00

CDP 370		CDP 330	
TIME	R.M.S	TIME	R.M.S
MSEC	F/SEC	MSEC	F/SEC
100	1.00	100	1.00
200	1.00	200	1.00
300	1.00	300	1.00
400	1.00	400	1.00
500	1.00	500	1.00
600	1.00	600	1.00
700	1.00	700	1.00
800	1.00	800	1.00
900	1.00	900	1.00
1000	1.00	1000	1.00

CDP 200		CDP 140	
TIME	R.M.S	TIME	R.M.S
MSEC	F/SEC	MSEC	F/SEC
100	1.00	100	1.00
200	1.00	200	1.00
300	1.00	300	1.00
400	1.00	400	1.00
500	1.00	500	1.00
600	1.00	600	1.00
700	1.00	700	1.00
800	1.00	800	1.00
900	1.00	900	1.00
1000	1.00	1000	1.00

CDP 50		CDP 10	
TIME	R.M.S	TIME	R.M.S
MSEC	F/SEC	MSEC	F/SEC
100	1.00	100	1.00
200	1.00	200	1.00
300	1.00	300	1.00
400	1.00	400	1.00
500	1.00	500	1.00
600	1.00	600	1.00
700	1.00	700	1.00
800	1.00	800	1.00
900	1.00	900	1.00
1000	1.00	1000	1.00



SUNOGG ENERGY DEVELOPMENT CO
 TRASS, NEVADA
 PERSHING COUNTY, NEVADA

LINE 1
 SHOTPOINTS 100 TO 430
 RELATIVE AMPLITUDE STACK

FIELD DATA

DIGITAL PROCESSING

GEOPHYSICAL SERVICE, INC.



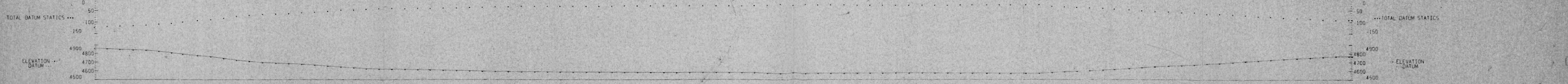
CDP 330		CDP 320	
TIME MSEC	R.M.S. VEL FT/SEC	TIME MSEC	R.M.S. VEL FT/SEC
0	8000	0	6000
800	8000	300	6000
1600	10000	600	7000
2400	10000	900	7000
3200	10000	1200	11000
4000	10000	1500	10000

CDP 201	
TIME MSEC	R.M.S. VEL FT/SEC
0	6000
300	6000
600	7000
900	7000
1200	11000
1500	10000
1800	13000
2100	13000

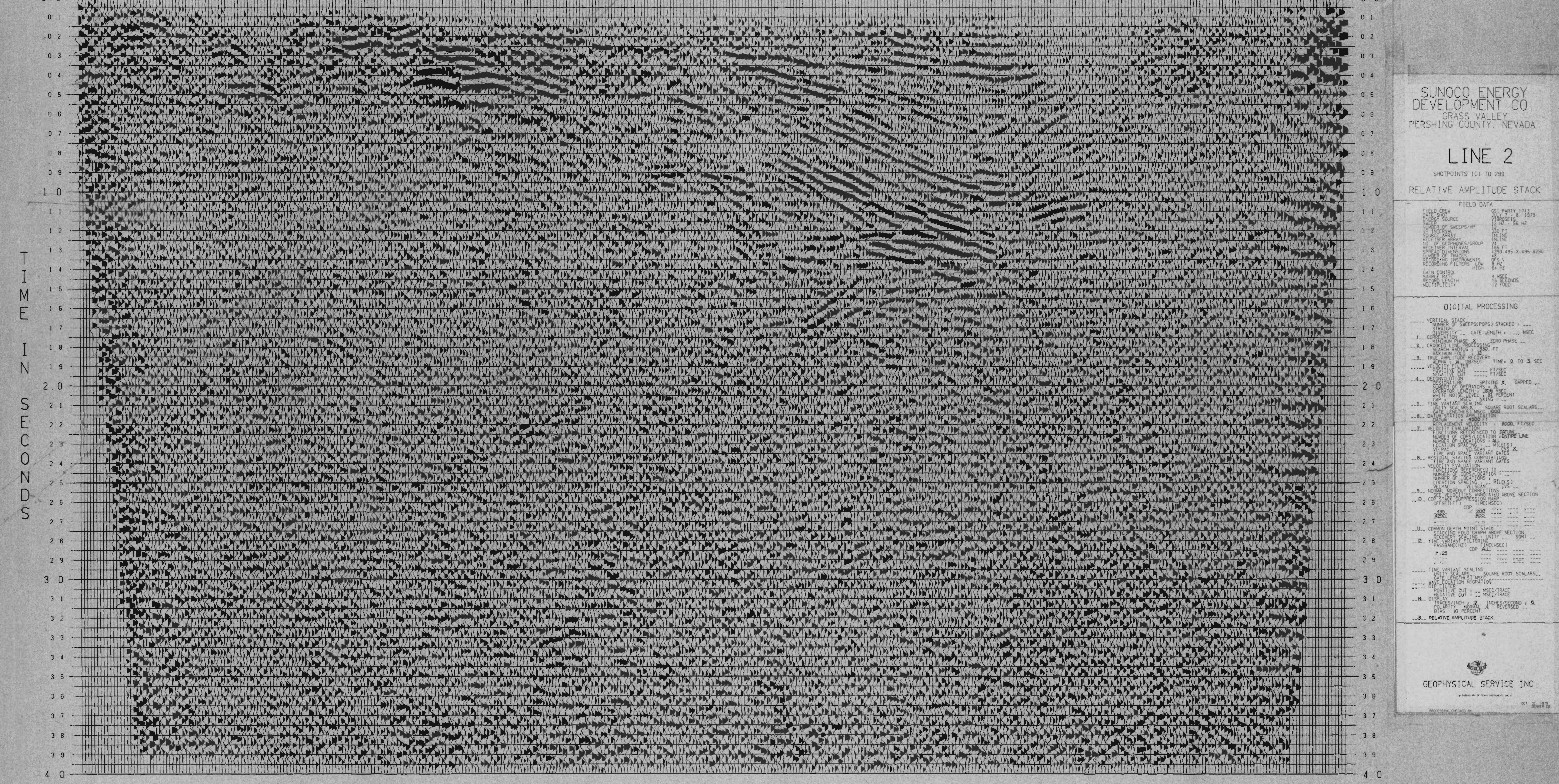
CDP 140	
TIME MSEC	R.M.S. VEL FT/SEC
0	6000
300	6000
600	8000
900	8000
1200	8500
1500	10500
1800	11500
2100	12500

CDP 27	
TIME MSEC	R.M.S. VEL FT/SEC
0	6000
300	6000
600	8000
900	8000
1200	8500
1500	10500
1800	11500
2100	12500

CDP 1	
TIME MSEC	R.M.S. VEL FT/SEC
0	6000
300	6000
600	6000
900	6000
1200	7500
1500	7500
1800	9000
2100	9000



STACK FOLD	ELEVATION	DEPTH POINTS	SHOTPOINTS	STACK FOLD
5	4842	378	291	5
6	4778	358	281	6
7	4696	338	271	7
8	4655	318	251	8
9	4622	298	231	9
10	4607	278	211	10
11	4591	258	191	11
12	4588	238	171	12
13	4584	218	151	13
14	4582	198	131	14
15	4573	178	111	15
16	4574	158	91	16
17	4576	138	71	17
18	4574	118	51	18
19	4573	98	31	19
20	4609	78	11	20
21	4667	58	1	21
22	4703	38	1	22
23	4748	18	1	23
24	4759	1	1	24



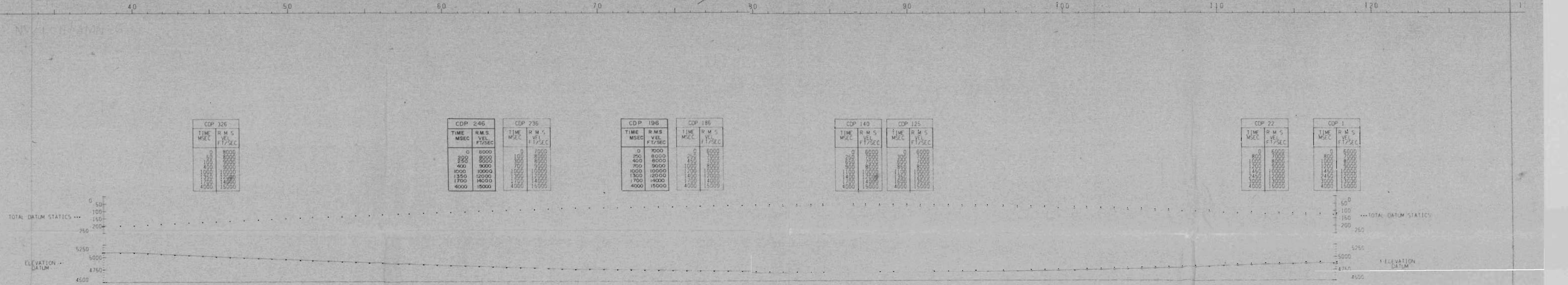
SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA

LINE 2
SHOTPOINTS 101 TO 299

RELATIVE AMPLITUDE STACK

FIELD DATA
FIELD CREW: SSI PARTY 1743
INVEST SOURCE: DATE: 8-1979
NUMBER OF SWEEPS/REP: 100
SWEET SPREAD: 120 FT
SWEET LINE: 120 FT
SWEET LINE GROUP: 120 FT
NUMBER OF TRACKS: 288
RECORDING INTERVALS: 1/16 SEC
RECORDING FILTERS: 1/8 SEC
GAIN CONTROL: 4 MSEC
RECORDING SYSTEM: 18 PCCS

- DIGITAL PROCESSING
1. VERTICAL STACK (NUMBER OF SWEEPS/REPS STACKED)
 2. STRATI... GATE LENGTH
 3. CORRECTION
 4. CROSS CORRELATION
 5. CORRECTION
 6. CORRECTION
 7. CORRECTION
 8. CORRECTION
 9. CORRECTION
 10. CORRECTION
 11. CORRECTION
 12. CORRECTION
 13. CORRECTION
 14. CORRECTION
 15. CORRECTION
 16. CORRECTION
 17. CORRECTION
 18. CORRECTION
 19. CORRECTION
 20. CORRECTION
 21. CORRECTION
 22. CORRECTION
 23. CORRECTION
 24. CORRECTION
 25. CORRECTION
 26. CORRECTION
 27. CORRECTION
 28. CORRECTION
 29. CORRECTION
 30. CORRECTION
 31. CORRECTION
 32. CORRECTION



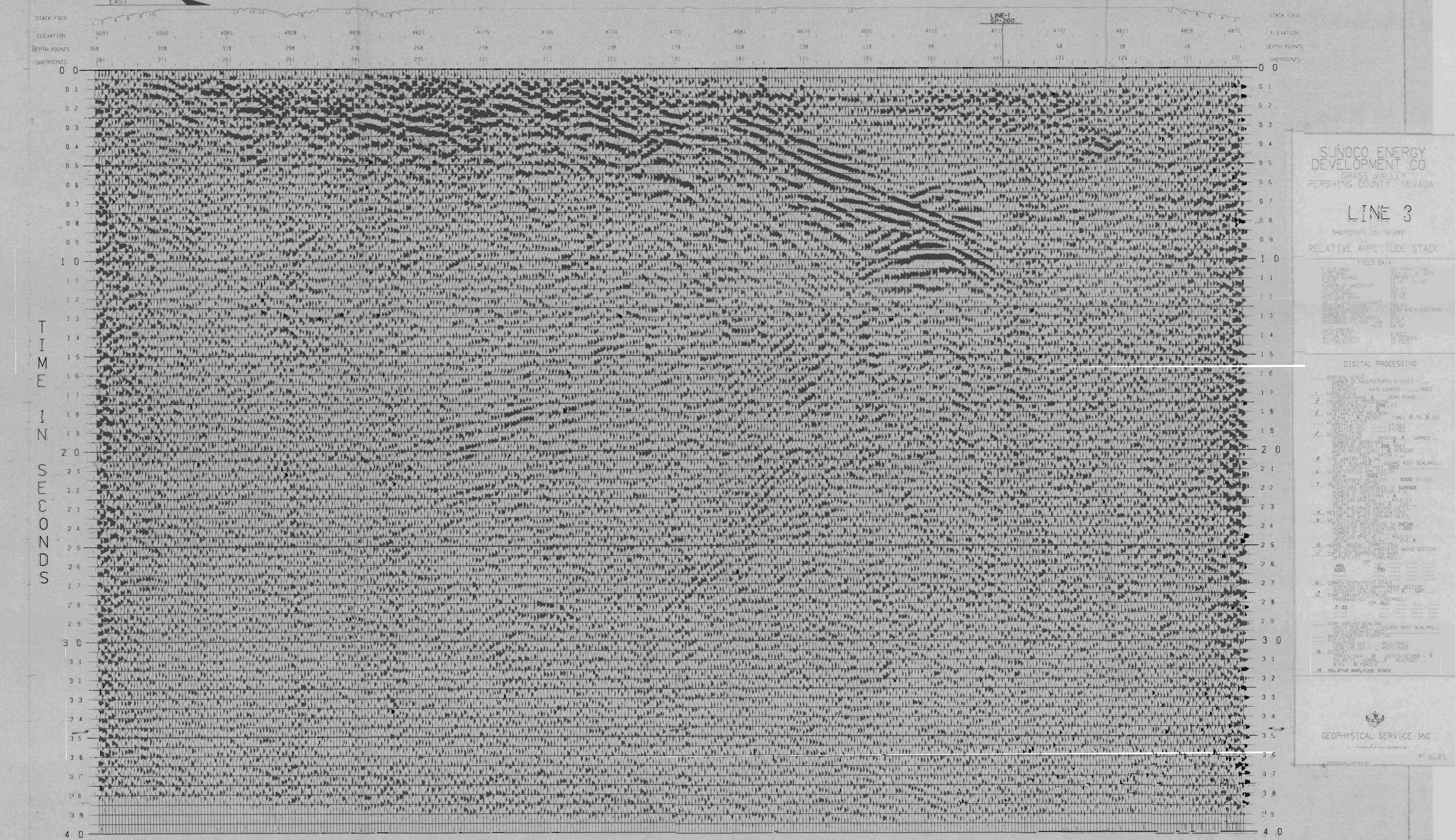
CDP 326	
TIME MSEC	R.M.S. FT/SEC
0	8000
100	8000
200	8000
300	8000
400	8000
500	8000
600	8000
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800	8000
900	8000
1000	8000
1100	8000
1200	8000
1300	8000
1400	8000
1500	8000
1600	8000
1700	8000
1800	8000
1900	8000
2000	8000

CDP 246		CDP 236	
TIME MSEC	R.M.S. FT/SEC	TIME MSEC	R.M.S. FT/SEC
0	8000	0	8000
100	8000	100	8000
200	8000	200	8000
300	8000	300	8000
400	8000	400	8000
500	8000	500	8000
600	8000	600	8000
700	8000	700	8000
800	8000	800	8000
900	8000	900	8000
1000	8000	1000	8000
1100	8000	1100	8000
1200	8000	1200	8000
1300	8000	1300	8000
1400	8000	1400	8000
1500	8000	1500	8000
1600	8000	1600	8000
1700	8000	1700	8000
1800	8000	1800	8000
1900	8000	1900	8000
2000	8000	2000	8000

CDP 196		CDP 186	
TIME MSEC	R.M.S. FT/SEC	TIME MSEC	R.M.S. FT/SEC
0	8000	0	8000
100	8000	100	8000
200	8000	200	8000
300	8000	300	8000
400	8000	400	8000
500	8000	500	8000
600	8000	600	8000
700	8000	700	8000
800	8000	800	8000
900	8000	900	8000
1000	8000	1000	8000
1100	8000	1100	8000
1200	8000	1200	8000
1300	8000	1300	8000
1400	8000	1400	8000
1500	8000	1500	8000
1600	8000	1600	8000
1700	8000	1700	8000
1800	8000	1800	8000
1900	8000	1900	8000
2000	8000	2000	8000

CDP 140		CDP 125	
TIME MSEC	R.M.S. FT/SEC	TIME MSEC	R.M.S. FT/SEC
0	8000	0	8000
100	8000	100	8000
200	8000	200	8000
300	8000	300	8000
400	8000	400	8000
500	8000	500	8000
600	8000	600	8000
700	8000	700	8000
800	8000	800	8000
900	8000	900	8000
1000	8000	1000	8000
1100	8000	1100	8000
1200	8000	1200	8000
1300	8000	1300	8000
1400	8000	1400	8000
1500	8000	1500	8000
1600	8000	1600	8000
1700	8000	1700	8000
1800	8000	1800	8000
1900	8000	1900	8000
2000	8000	2000	8000

CDP 22		CDP 1	
TIME MSEC	R.M.S. FT/SEC	TIME MSEC	R.M.S. FT/SEC
0	8000	0	8000
100	8000	100	8000
200	8000	200	8000
300	8000	300	8000
400	8000	400	8000
500	8000	500	8000
600	8000	600	8000
700	8000	700	8000
800	8000	800	8000
900	8000	900	8000
1000	8000	1000	8000
1100	8000	1100	8000
1200	8000	1200	8000
1300	8000	1300	8000
1400	8000	1400	8000
1500	8000	1500	8000
1600	8000	1600	8000
1700	8000	1700	8000
1800	8000	1800	8000
1900	8000	1900	8000
2000	8000	2000	8000



SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA

LINE 3
SHOTPOINTS 301 TO 283

RELATIVE AMPLITUDE STACK

FIELD DATA

DIGITAL PROCESSING

- 1. VERTICAL SCALE: 1000 FT/SEC
- 2. GATE LENGTH: 100 MSEC
- 3. GATE PHASE: 0
- 4. GATE PHASE: 0
- 5. GATE PHASE: 0
- 6. GATE PHASE: 0
- 7. GATE PHASE: 0
- 8. GATE PHASE: 0
- 9. GATE PHASE: 0
- 10. GATE PHASE: 0
- 11. GATE PHASE: 0
- 12. GATE PHASE: 0
- 13. GATE PHASE: 0
- 14. GATE PHASE: 0
- 15. GATE PHASE: 0
- 16. GATE PHASE: 0
- 17. GATE PHASE: 0
- 18. GATE PHASE: 0
- 19. GATE PHASE: 0
- 20. GATE PHASE: 0
- 21. GATE PHASE: 0
- 22. GATE PHASE: 0
- 23. GATE PHASE: 0
- 24. GATE PHASE: 0
- 25. GATE PHASE: 0
- 26. GATE PHASE: 0
- 27. GATE PHASE: 0
- 28. GATE PHASE: 0
- 29. GATE PHASE: 0
- 30. GATE PHASE: 0
- 31. GATE PHASE: 0
- 32. GATE PHASE: 0
- 33. GATE PHASE: 0
- 34. GATE PHASE: 0
- 35. GATE PHASE: 0
- 36. GATE PHASE: 0
- 37. GATE PHASE: 0
- 38. GATE PHASE: 0
- 39. GATE PHASE: 0
- 40. GATE PHASE: 0

GEOPHYSICAL SERVICE INC

CDP 540	TIME	R.M.S.
TIME	WAVE	P.P. SEC
100	1.00	1.00
200	1.41	1.41
300	1.73	1.73
400	2.00	2.00
500	2.24	2.24
600	2.45	2.45
700	2.63	2.63
800	2.79	2.79
900	2.93	2.93
1000	3.06	3.06

CDP 540	TIME	R.M.S.
TIME	WAVE	P.P. SEC
100	1.00	1.00
200	1.41	1.41
300	1.73	1.73
400	2.00	2.00
500	2.24	2.24
600	2.45	2.45
700	2.63	2.63
800	2.79	2.79
900	2.93	2.93
1000	3.06	3.06

CDP 370	TIME	R.M.S.
TIME	WAVE	P.P. SEC
100	1.00	1.00
200	1.41	1.41
300	1.73	1.73
400	2.00	2.00
500	2.24	2.24
600	2.45	2.45
700	2.63	2.63
800	2.79	2.79
900	2.93	2.93
1000	3.06	3.06

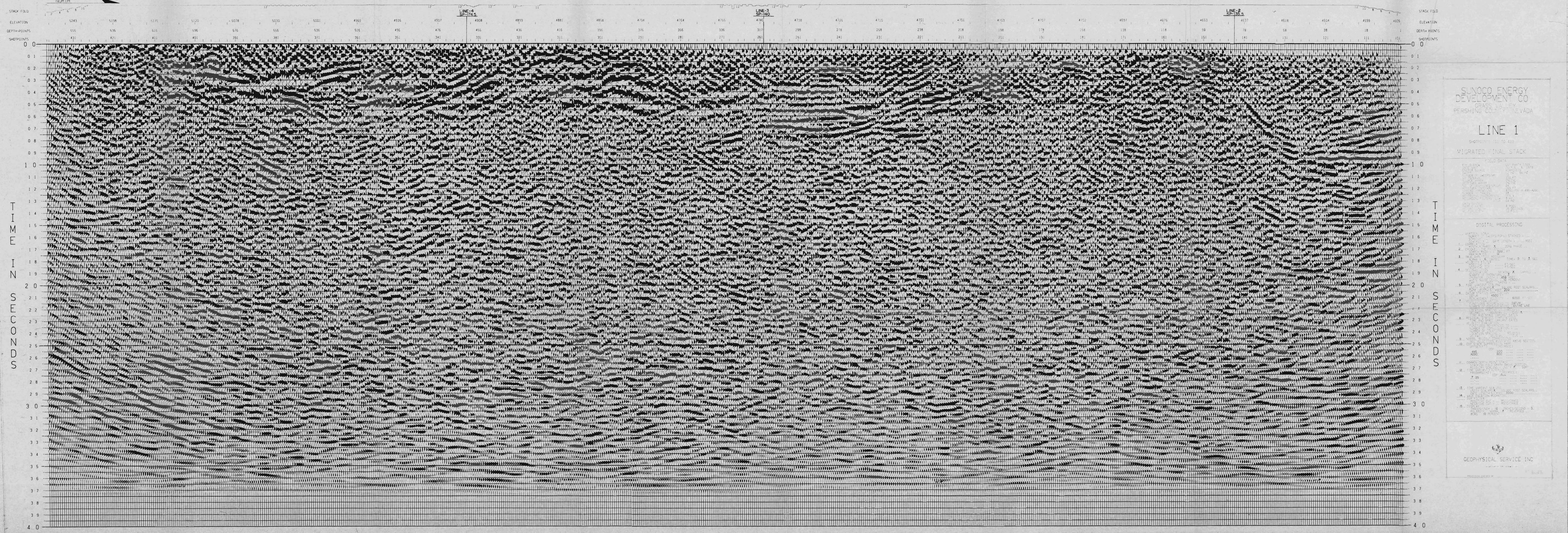
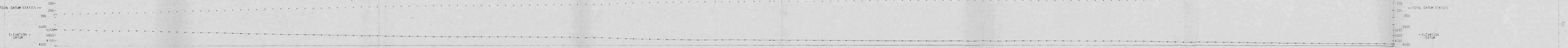
CDP 339	TIME	R.M.S.
TIME	WAVE	P.P. SEC
100	1.00	1.00
200	1.41	1.41
300	1.73	1.73
400	2.00	2.00
500	2.24	2.24
600	2.45	2.45
700	2.63	2.63
800	2.79	2.79
900	2.93	2.93
1000	3.06	3.06

CDP 202	TIME	R.M.S.
TIME	WAVE	P.P. SEC
100	1.00	1.00
200	1.41	1.41
300	1.73	1.73
400	2.00	2.00
500	2.24	2.24
600	2.45	2.45
700	2.63	2.63
800	2.79	2.79
900	2.93	2.93
1000	3.06	3.06

CDP 142	TIME	R.M.S.
TIME	WAVE	P.P. SEC
100	1.00	1.00
200	1.41	1.41
300	1.73	1.73
400	2.00	2.00
500	2.24	2.24
600	2.45	2.45
700	2.63	2.63
800	2.79	2.79
900	2.93	2.93
1000	3.06	3.06

CDP 60	TIME	R.M.S.
TIME	WAVE	P.P. SEC
100	1.00	1.00
200	1.41	1.41
300	1.73	1.73
400	2.00	2.00
500	2.24	2.24
600	2.45	2.45
700	2.63	2.63
800	2.79	2.79
900	2.93	2.93
1000	3.06	3.06

CDP 1	TIME	R.M.S.
TIME	WAVE	P.P. SEC
100	1.00	1.00
200	1.41	1.41
300	1.73	1.73
400	2.00	2.00
500	2.24	2.24
600	2.45	2.45
700	2.63	2.63
800	2.79	2.79
900	2.93	2.93
1000	3.06	3.06



SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA

LINE 1
Shotpoint 431 to 451
VIGRATED FINAL STACK

DIGITAL PROCESSING

GEOPHYSICAL SERVICE INC

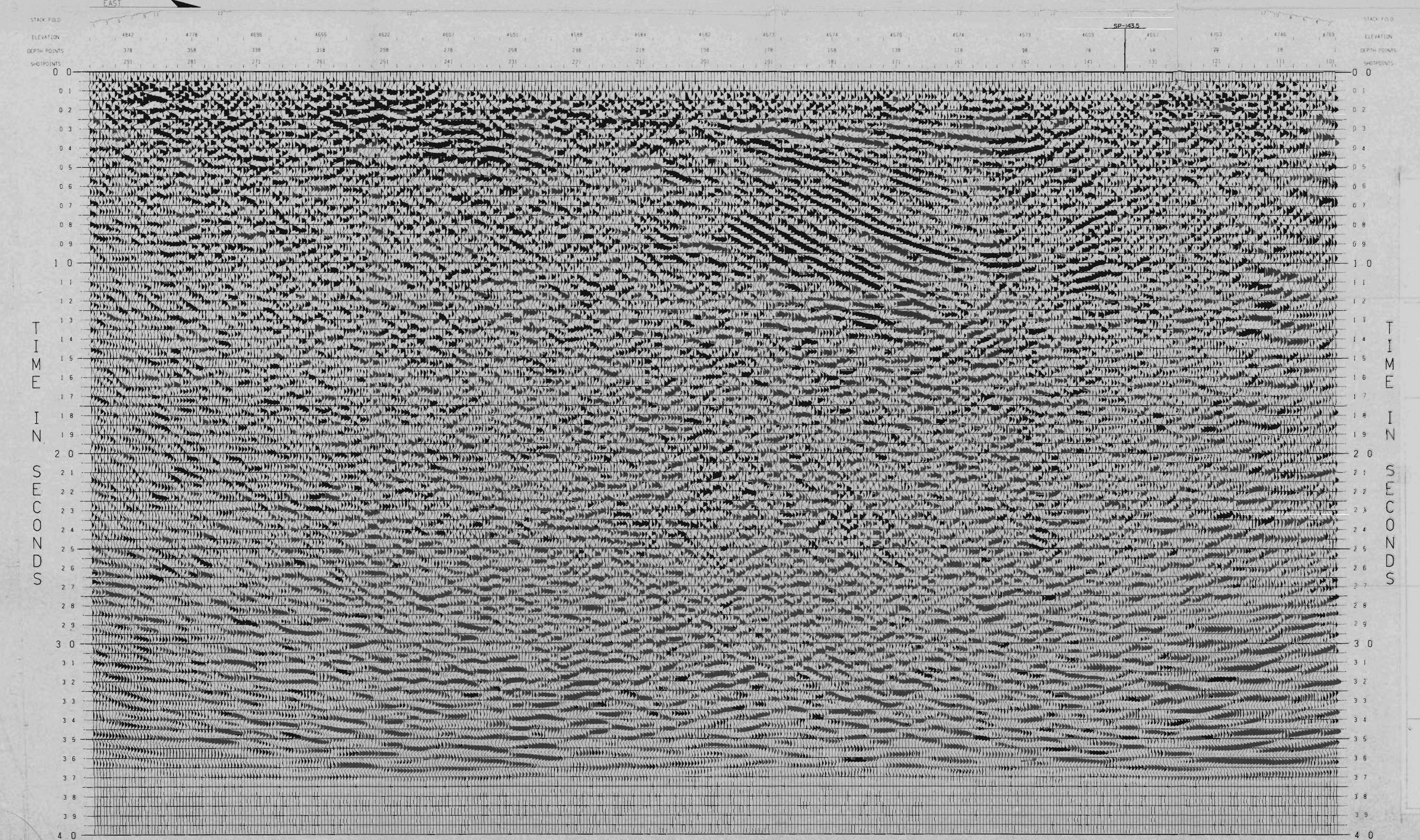
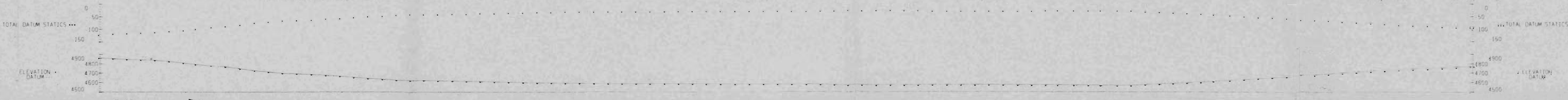
CDP 330		CDP 320	
TIME MSEC	RMS VEL FT/SEC	TIME MSEC	R.M.S FT/SEC
0	9000	0	6000
250	9000	300	6000
500	10000	600	7000
750	10000	900	7000
1000	11000	1200	7000
1500	11000	1800	7000
2000	12000	2400	7000
2500	13000	3000	7000
3000	13000	3600	7000
3500	13000	4200	7000
4000	13000	4800	7000

CDP 201	
TIME MSEC	R.M.S FT/SEC
0	6000
300	6000
600	7000
900	7000
1200	7000
1500	7000
1800	7000
2100	7000
2400	7000
2700	7000
3000	7000

CDP 140	
TIME MSEC	R.M.S FT/SEC
0	6000
300	6000
600	7000
900	7000
1200	7000
1500	7000
1800	7000
2100	7000
2400	7000
2700	7000
3000	7000

CDP 27	
TIME MSEC	R.M.S FT/SEC
0	6000
300	6000
600	6000
900	6000
1200	6000
1500	6000
1800	6000
2100	6000
2400	6000
2700	6000
3000	6000

CDP 1	
TIME MSEC	R.M.S FT/SEC
0	6000
300	6000
600	6000
900	6000
1200	6000
1500	6000
1800	6000
2100	6000
2400	6000
2700	6000
3000	6000



SUNOCO ENERGY DEVELOPMENT CO.
GRASS VALLEY
PERSHING COUNTY, NEVADA

LINE 2

SHOTPOINTS 101 TO 299

MIGRATED FINAL STACK

FIELD DATA

DATE	04/17/83
TIME	10:00
WELL	101-299
DEPTH	101-299
SHOT	101-299
RECORD	101-299
FILE	101-299
NAME	101-299
NO.	101-299
DATE	04/17/83
TIME	10:00
WELL	101-299
DEPTH	101-299
SHOT	101-299
RECORD	101-299
FILE	101-299
NAME	101-299
NO.	101-299

- DIGITAL PROCESSING
- 1. VERTICAL STACK (DEPTH POINTS STACKED)
 - 2. DATE LENGTH (MSEC)
 - 3. ZERO PHASE
 - 4. TIME IN SECONDS (TIME 0 TO 3 SEC)
 - 5. GAIN
 - 6. SKEWING X GAPPED
 - 7. SKEWING Y GAPPED
 - 8. SQUARE ROOT SCALARS
 - 9. SQUARE ROOT SCALARS
 - 10. SQUARE ROOT SCALARS
 - 11. SQUARE ROOT SCALARS
 - 12. SQUARE ROOT SCALARS
 - 13. SQUARE ROOT SCALARS
 - 14. SQUARE ROOT SCALARS
 - 15. SQUARE ROOT SCALARS
 - 16. SQUARE ROOT SCALARS
 - 17. SQUARE ROOT SCALARS
 - 18. SQUARE ROOT SCALARS
 - 19. SQUARE ROOT SCALARS
 - 20. SQUARE ROOT SCALARS
 - 21. SQUARE ROOT SCALARS
 - 22. SQUARE ROOT SCALARS
 - 23. SQUARE ROOT SCALARS
 - 24. SQUARE ROOT SCALARS
 - 25. SQUARE ROOT SCALARS
 - 26. SQUARE ROOT SCALARS
 - 27. SQUARE ROOT SCALARS
 - 28. SQUARE ROOT SCALARS
 - 29. SQUARE ROOT SCALARS
 - 30. SQUARE ROOT SCALARS
 - 31. SQUARE ROOT SCALARS
 - 32. SQUARE ROOT SCALARS
 - 33. SQUARE ROOT SCALARS
 - 34. SQUARE ROOT SCALARS
 - 35. SQUARE ROOT SCALARS
 - 36. SQUARE ROOT SCALARS
 - 37. SQUARE ROOT SCALARS
 - 38. SQUARE ROOT SCALARS
 - 39. SQUARE ROOT SCALARS
 - 40. SQUARE ROOT SCALARS

GEOPHYSICAL SERVICE INC.
P.O. BOX 1000
DENVER, CO 80202

CDP	TIME MSEC	RMS VEL FT/SEC
0	7000	7000
100	7000	8000
175	7000	8000
250	7000	8000
325	7000	8000
400	7000	8000
475	7000	8000
550	7000	8000
625	7000	8000
700	7000	8000
775	7000	8000
850	7000	8000
925	7000	8000
1000	7000	8000
1075	7000	8000
1150	7000	8000
1225	7000	8000
1300	7000	8000
1375	7000	8000
1450	7000	8000
1525	7000	8000
1600	7000	8000
1675	7000	8000
1750	7000	8000
1825	7000	8000
1900	7000	8000
1975	7000	8000
2050	7000	8000
2125	7000	8000
2200	7000	8000
2275	7000	8000
2350	7000	8000
2425	7000	8000
2500	7000	8000
2575	7000	8000
2650	7000	8000
2725	7000	8000
2800	7000	8000
2875	7000	8000
2950	7000	8000
3025	7000	8000
3100	7000	8000
3175	7000	8000
3250	7000	8000
3325	7000	8000
3400	7000	8000
3475	7000	8000
3550	7000	8000
3625	7000	8000
3700	7000	8000
3775	7000	8000
3850	7000	8000
3925	7000	8000
4000	7000	8000

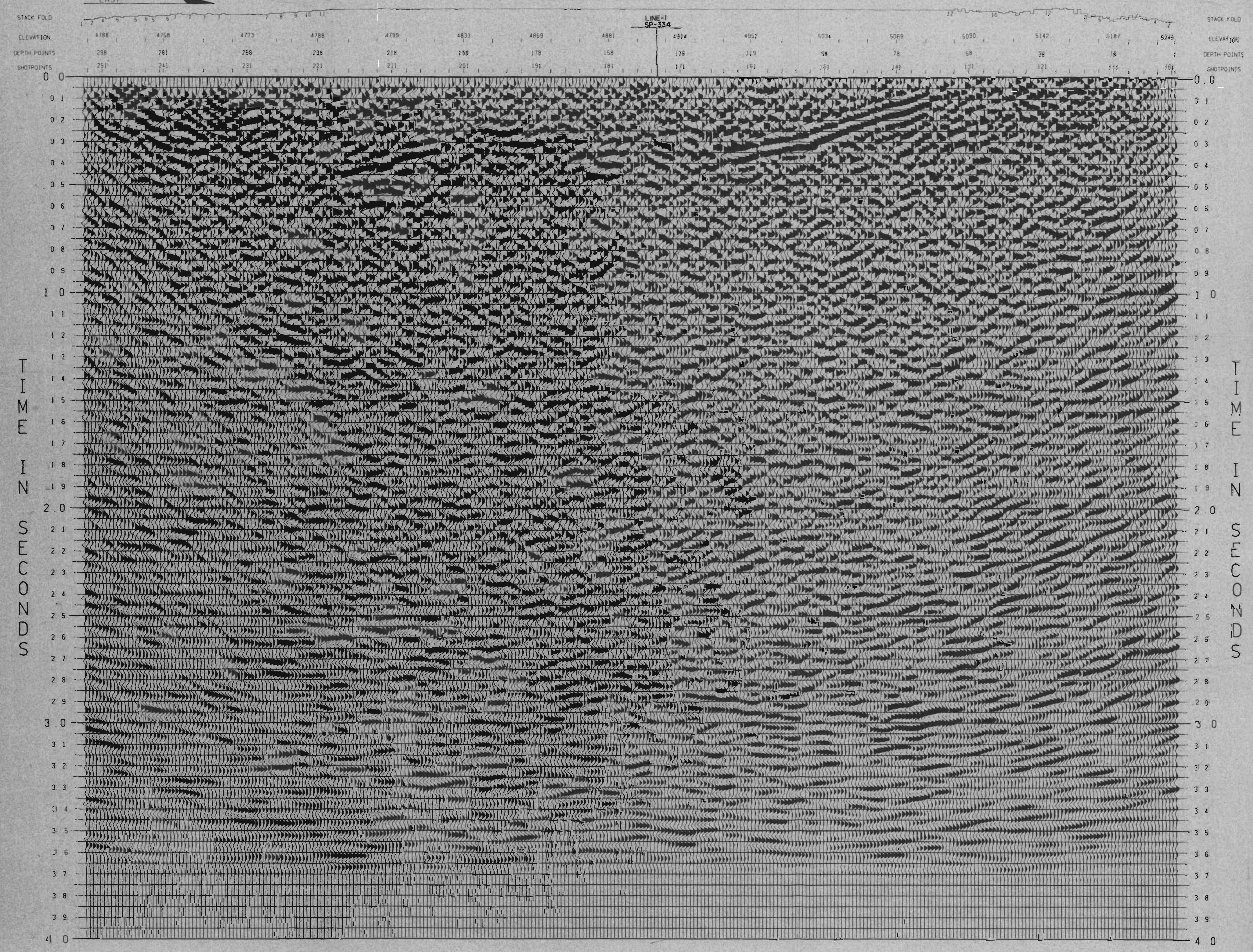
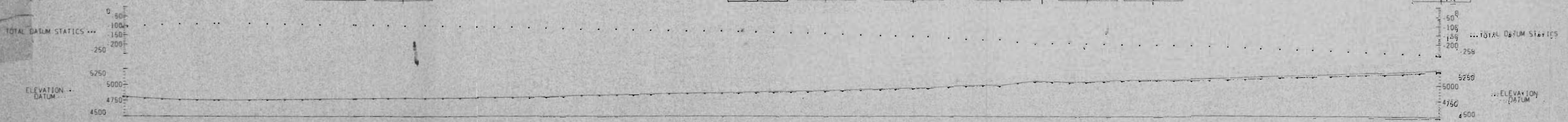
CDP 247		CDP 239	
TIME MSEC	RMS VEL FT/SEC	TIME MSEC	RMS VEL FT/SEC
0	8000	0	8000
400	8000	500	8000
700	8000	800	8000
875	8000	850	8000
1000	8000	1000	8000
1600	8000	1500	8000
2000	8000	2000	8000
2600	8000	2500	8000
3000	8000	3000	8000
3600	8000	3500	8000
4000	8000	4000	8000

CDP 152		CDP 142	
TIME MSEC	RMS VEL FT/SEC	TIME MSEC	RMS VEL FT/SEC
0	6000	0	7000
500	6000	300	7000
700	6000	350	7000
850	6000	400	7000
1000	6000	450	7000
1600	6000	700	7000
2000	6000	1000	7000
2600	6000	1300	7000
3000	6000	1600	7000
3600	6000	1900	7000
4000	6000	2200	7000

CDP 122		CDP 102	
TIME MSEC	RMS VEL FT/SEC	TIME MSEC	RMS VEL FT/SEC
0	7000	0	7000
175	7000	125	7000
350	7000	250	7000
525	7000	375	7000
700	7000	500	7000
875	7000	625	7000
1050	7000	750	7000
1225	7000	875	7000
1400	7000	1000	7000
1575	7000	1125	7000
1750	7000	1250	7000
1925	7000	1375	7000
2100	7000	1500	7000
2275	7000	1625	7000
2450	7000	1750	7000
2625	7000	1875	7000
2800	7000	2000	7000
2975	7000	2125	7000
3150	7000	2250	7000
3325	7000	2375	7000
3500	7000	2500	7000
3675	7000	2625	7000
3850	7000	2750	7000
4025	7000	2875	7000

CDP 82		CDP 67	
TIME MSEC	RMS VEL FT/SEC	TIME MSEC	RMS VEL FT/SEC
0	7000	0	9000
60	7000	100	9000
120	7000	200	9000
180	7000	300	9000
240	7000	400	9000
300	7000	500	9000
360	7000	600	9000
420	7000	700	9000
480	7000	800	9000
540	7000	900	9000
600	7000	1000	9000
660	7000	1100	9000
720	7000	1200	9000
780	7000	1300	9000
840	7000	1400	9000
900	7000	1500	9000
960	7000	1600	9000
1020	7000	1700	9000
1080	7000	1800	9000
1140	7000	1900	9000
1200	7000	2000	9000
1260	7000	2100	9000
1320	7000	2200	9000
1380	7000	2300	9000
1440	7000	2400	9000

CDP	
TIME MSEC	RMS VEL FT/SEC
0	8000
150	8000
300	8000
450	8000
600	8000
750	8000
900	8000
1050	8000
1200	8000
1350	8000
1500	8000
1650	8000
1800	8000
1950	8000
2100	8000
2250	8000
2400	8000
2550	8000
2700	8000
2850	8000
3000	8000



SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA

LINE 3
SHOTPOINTS 101 TO 299
MIGRATED FINAL STACK

FIELD DATA

FIELD CREW	051 PARTY 118
DATE	SEP 29 1973
TIME	10:30 AM
NUMBER OF SWEEPS/REP	12
INTERVAL	30 FT
RECEIVER ARRAY	LINE
RECORDING GROUP	LINE
SHOT POINTS	101-299
SHOT POINTS	101-299
RECORDING INTERVALS	1/2 SEC
RECORDING INTERVALS	1/2 SEC
GAIN CONTROL	4 MSEC
RECORDING	15 MSEC
METALICITY	15 MSEC

DIGITAL PROCESSING

- 1. VERTICAL STACK (SWEEPS) STACKED
- 2. GATE LENGTH 200 MSEC
- 3. WINDOW PHASE X ZERO PHASE
- 4. SEARCH WIDTH 240 FT
- 5. TRUE TIME RECOVERY TIME 0.40 SEC
- 6. SCALED TO 1.00 FT/SEC
- 7. DEPTH CORRECTION GAPPED
- 8. SCALED TO 1.00 PERCENT
- 9. SQUARE ROOT SCALARS
- 10. DATA POINTS 3000
- 11. VELOCITY CORRECTED TO 6000 FT/SEC
- 12. SCALED TO 1.00
- 13. RESiduals SCALED TO 1.00
- 14. VELOCITY CORRECTED TO DATUM
- 15. SCALED TO 1.00
- 16. NORMAL MOVED ABOVE SECTION
- 17. OFFSET (FT) 200
- 18. COMMON DEPTH POINT STACK
- 19. STACKING FOLD 3000
- 20. TIME VARIANT FILTERING (PASSBAND #) 200
- 21. TIME VARIANT FILTERING (PASSBAND #) 200
- 22. TIME VARIANT SCALING
- 23. SCALED TO 1.00
- 24. HORIZONTAL MIGRATION 3000
- 25. POSITIVE CUT 1.00 MSEC/INCH
- 26. SCALED TO 1.00 INCHES/SECOND
- 27. BIAS 5 PERCENT

GEOPHYSICAL SERVICE INC
A DIVISION OF...
PERSHING COUNTY, NEVADA

40 50 60 70 80 90 100 110 120 130

CDP 326		
TIME	R.M.S.	FT/SEC
MSEC	VEL	
0	8000	
100	8000	
200	8000	
300	8000	
400	8000	
500	8000	
600	8000	
700	8000	
800	8000	
900	8000	
1000	8000	
1100	8000	
1200	8000	
1300	8000	
1400	8000	
1500	8000	

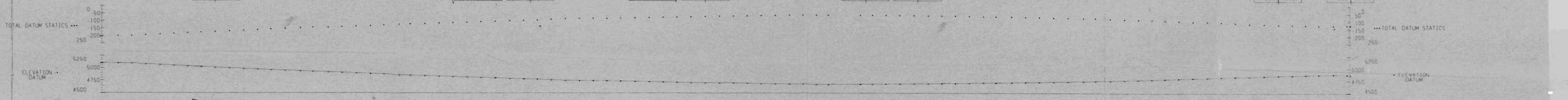
CDP 246			CDP 236		
TIME	R.M.S.	FT/SEC	TIME	R.M.S.	FT/SEC
MSEC	VEL		MSEC	VEL	
0	8000		0	7000	
100	8000		100	7000	
200	8000		200	7000	
300	8000		300	7000	
400	8000		400	7000	
500	8000		500	7000	
600	8000		600	7000	
700	8000		700	7000	
800	8000		800	7000	
900	8000		900	7000	
1000	8000		1000	7000	
1100	8000		1100	7000	
1200	8000		1200	7000	
1300	8000		1300	7000	
1400	8000		1400	7000	
1500	8000		1500	7000	

CDP 196			CDP 186		
TIME	R.M.S.	FT/SEC	TIME	R.M.S.	FT/SEC
MSEC	VEL		MSEC	VEL	
0	7000		0	8000	
100	7000		100	8000	
200	7000		200	8000	
300	7000		300	8000	
400	7000		400	8000	
500	7000		500	8000	
600	7000		600	8000	
700	7000		700	8000	
800	7000		800	8000	
900	7000		900	8000	
1000	7000		1000	8000	
1100	7000		1100	8000	
1200	7000		1200	8000	
1300	7000		1300	8000	
1400	7000		1400	8000	
1500	7000		1500	8000	

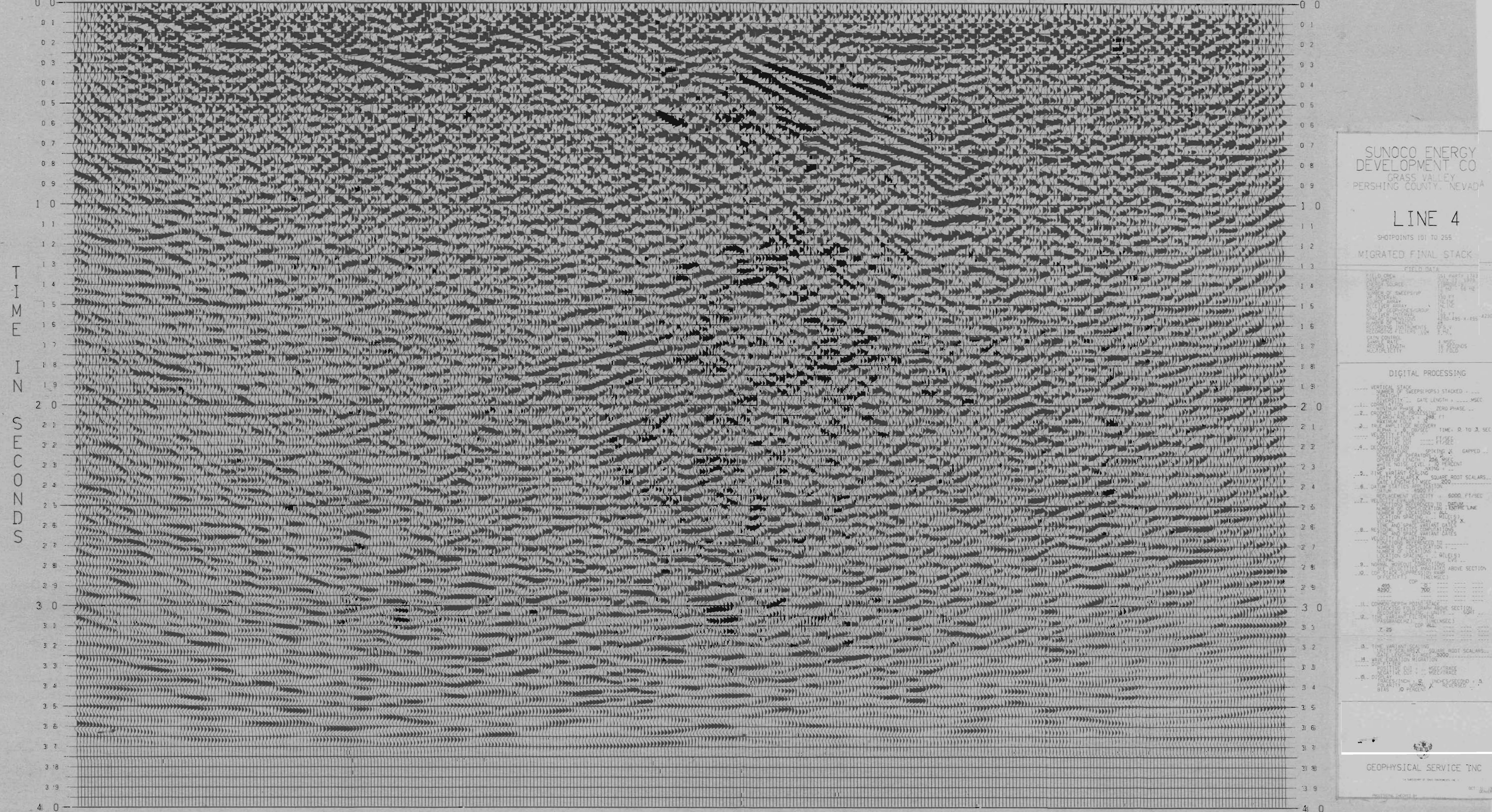
CDP 140			CDP 125		
TIME	R.M.S.	FT/SEC	TIME	R.M.S.	FT/SEC
MSEC	VEL		MSEC	VEL	
0	8000		0	8000	
100	8000		100	8000	
200	8000		200	8000	
300	8000		300	8000	
400	8000		400	8000	
500	8000		500	8000	
600	8000		600	8000	
700	8000		700	8000	
800	8000		800	8000	
900	8000		900	8000	
1000	8000		1000	8000	
1100	8000		1100	8000	
1200	8000		1200	8000	
1300	8000		1300	8000	
1400	8000		1400	8000	
1500	8000		1500	8000	

CDP 22		
TIME	R.M.S.	FT/SEC
MSEC	VEL	
0	8000	
100	8000	
200	8000	
300	8000	
400	8000	
500	8000	
600	8000	
700	8000	
800	8000	
900	8000	
1000	8000	
1100	8000	
1200	8000	
1300	8000	
1400	8000	
1500	8000	

CDP 1		
TIME	R.M.S.	FT/SEC
MSEC	VEL	
0	8000	
100	8000	
200	8000	
300	8000	
400	8000	
500	8000	
600	8000	
700	8000	
800	8000	
900	8000	
1000	8000	
1100	8000	
1200	8000	
1300	8000	
1400	8000	
1500	8000	



STACK FOLD	ELEVATION	DEPTH POINTS	SHOTPOINTS
12	5097	358	281
12	5050	336	271
12	4985	318	261
12	4928	298	251
12	4876	278	241
12	4827	258	231
12	4779	238	221
12	4746	218	211
12	4724	198	201
12	4700	178	191
12	4681	158	181
12	4678	138	171
12	4691	118	161
12	4710	98	151
12	4731	71	141
12	4772	58	131
12	4817	38	121
12	4858	18	111
12	4870	8	101



SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA

LINE 4
SHOTPOINTS 101 TO 255
MIGRATED FINAL STACK

FIELD DATA

DATE: 10/15/82
TIME: 10:00 AM
PROJECT: SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA
SURVEY: 4-158-4230
DATE: 10/15/82
TIME: 10:00 AM
PROJECT: SUNOCO ENERGY DEVELOPMENT CO
GRASS VALLEY
PERSHING COUNTY, NEVADA
SURVEY: 4-158-4230

DIGITAL PROCESSING

1. VERTICAL STACK (RECEIVERS) STACKED
2. GATE LENGTH 400 MSEC
3. CORRECTED FOR ZERO PHASE
4. CORRECTED FOR SLOPE
5. TIME 0 TO 3 SEC
6. GATED TO REMOVE GATED
7. SINE WAVELENGTH SQUARE ROOT SCALARS
8. SINE WAVELENGTH SQUARE ROOT SCALARS
9. SINE WAVELENGTH SQUARE ROOT SCALARS
10. SINE WAVELENGTH SQUARE ROOT SCALARS
11. SINE WAVELENGTH SQUARE ROOT SCALARS
12. SINE WAVELENGTH SQUARE ROOT SCALARS
13. SINE WAVELENGTH SQUARE ROOT SCALARS
14. SINE WAVELENGTH SQUARE ROOT SCALARS
15. SINE WAVELENGTH SQUARE ROOT SCALARS
16. SINE WAVELENGTH SQUARE ROOT SCALARS
17. SINE WAVELENGTH SQUARE ROOT SCALARS
18. SINE WAVELENGTH SQUARE ROOT SCALARS
19. SINE WAVELENGTH SQUARE ROOT SCALARS
20. SINE WAVELENGTH SQUARE ROOT SCALARS
21. SINE WAVELENGTH SQUARE ROOT SCALARS
22. SINE WAVELENGTH SQUARE ROOT SCALARS
23. SINE WAVELENGTH SQUARE ROOT SCALARS
24. SINE WAVELENGTH SQUARE ROOT SCALARS
25. SINE WAVELENGTH SQUARE ROOT SCALARS
26. SINE WAVELENGTH SQUARE ROOT SCALARS
27. SINE WAVELENGTH SQUARE ROOT SCALARS
28. SINE WAVELENGTH SQUARE ROOT SCALARS
29. SINE WAVELENGTH SQUARE ROOT SCALARS
30. SINE WAVELENGTH SQUARE ROOT SCALARS
31. SINE WAVELENGTH SQUARE ROOT SCALARS
32. SINE WAVELENGTH SQUARE ROOT SCALARS
33. SINE WAVELENGTH SQUARE ROOT SCALARS
34. SINE WAVELENGTH SQUARE ROOT SCALARS
35. SINE WAVELENGTH SQUARE ROOT SCALARS
36. SINE WAVELENGTH SQUARE ROOT SCALARS
37. SINE WAVELENGTH SQUARE ROOT SCALARS
38. SINE WAVELENGTH SQUARE ROOT SCALARS
39. SINE WAVELENGTH SQUARE ROOT SCALARS
40. SINE WAVELENGTH SQUARE ROOT SCALARS

GEOPHYSICAL SERVICE INC