

SPECTRA[®]
SCAN

Company Hilcorp Energy Company

Well Gonzales State Com #001

Field Blanco Mesa Verde - Dakota

County San Juan

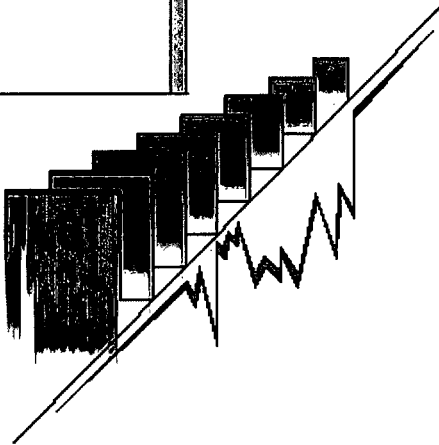
State New Mexico

Location 1,470' FNL & 1,770' FSL

Sec. 16 Twp. 30N Rge. 11W

API #30-045-09520

Elevations KB N/A DF N/A GL N/A



Date Processed	May/14/2018	Logs Processed	SpectraScan
Job Number	608771	Date Logged	May/08/2018
Interval Processed	3,500' - 5,000'	Type Fluid In Hole	Produced Fluids
Processed By	M. Milburn	Location	Farmington
Processed At	Houston	Geoprobe Processed/Produced	

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments:

Recorded by: G. Hammond
Traced by: R. Kent
Proposal ID #58899

Formations:
Red - Point Lookout
Magenta - Menefee

Version 2: Added Formations

NMOCU

JUN 12 2018

DISTRICT 111

Well Information

Surface String: 9.63 [in] 32.3 [lb/ft] Top: 0 [ft] Bottom: N/A [ft]
 Protective String: 7.0 [in] 20.0 [lb/ft] Top: 0 [ft] Bottom: N/A [ft]
 Production String: 4.5 [in] 10.5 [lb/ft] Top: 0 [ft] Bottom: N/A [ft]
 Tubing: 2.38 [in] 4.7 [lb/ft] Top: 0 [ft] Bottom: 6731 [ft]

Tracer Information

Stage 1

Formation: Point Lookout / Menefee

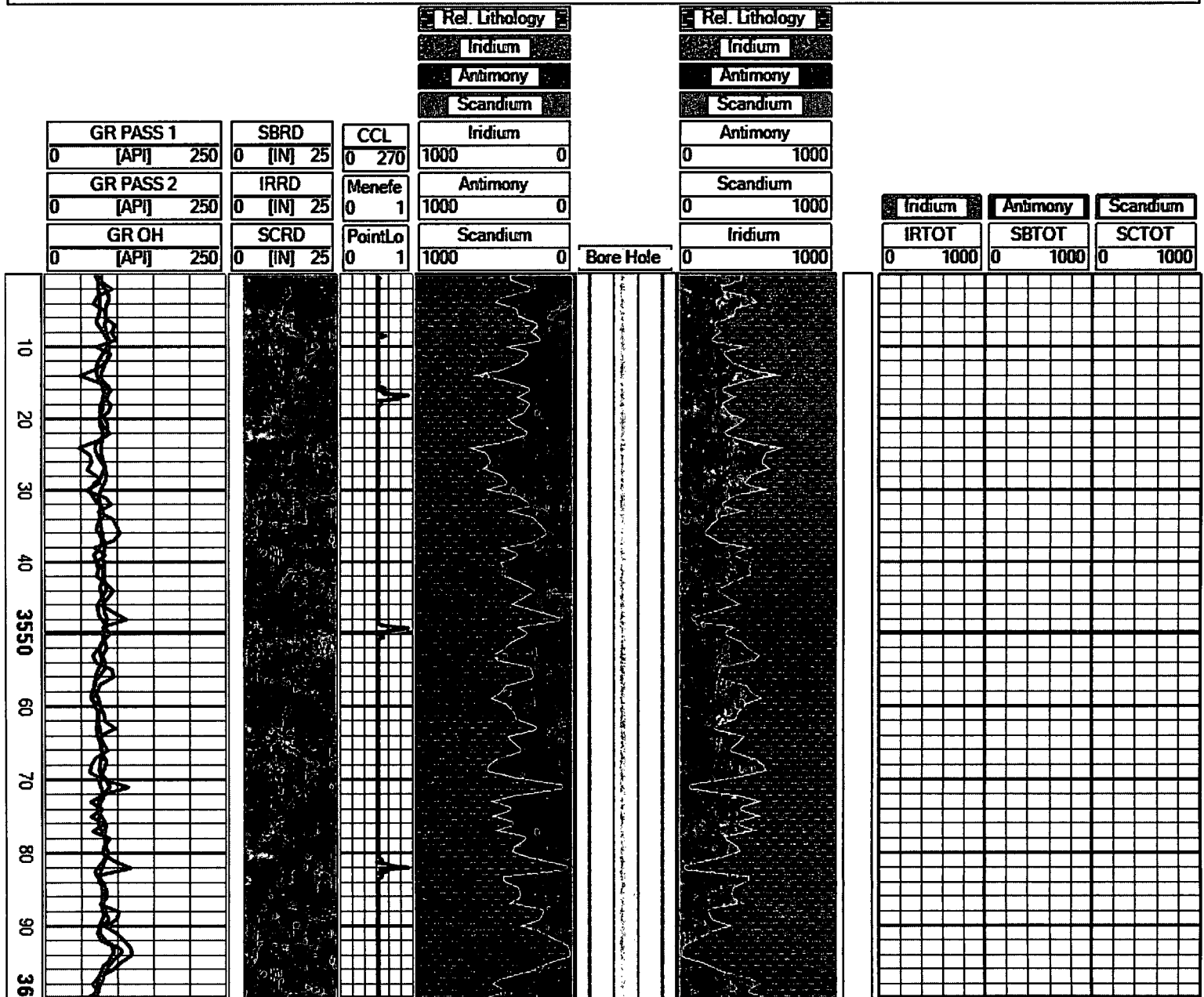
Perforations: 4197-98; 4200-01; 4219-20; 4223-24; 4235-36; 4240-41; 4271-72; 4274-75; 4277-78; 4285-86; 4288-89; 4299-300; 4303-04; 4307-08; 4382-83; 4385-86; 4388-89; 4405-06; 4407-08; 4440-41; 4458-59; 4467-68; 4489-90; 4507-08; 4511-12; 4525-26; 4543-44; 4549-50; 4562-63; 4568-69; 4572-73; 4576-77; 4583-84; 4592-93; 4618-19; 4622-23; 4673-74; 4685-86; 4692-93; 4705-06; 4742-43; 4747-48 ft

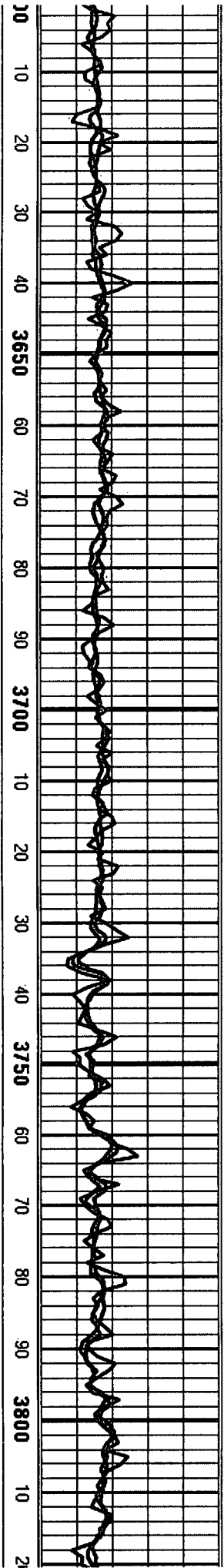
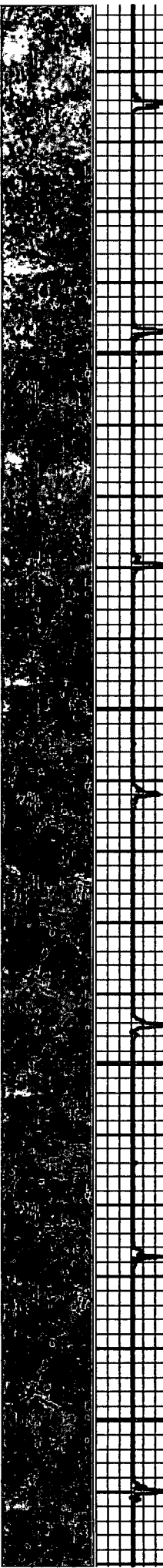
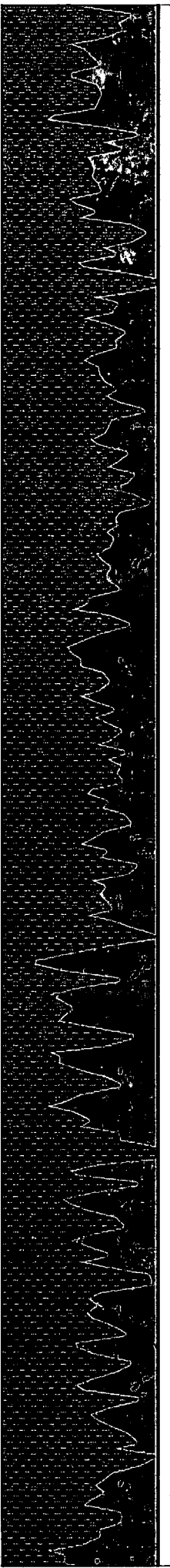
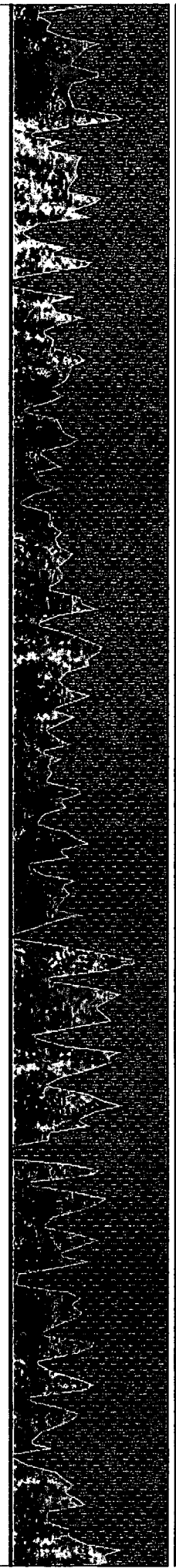
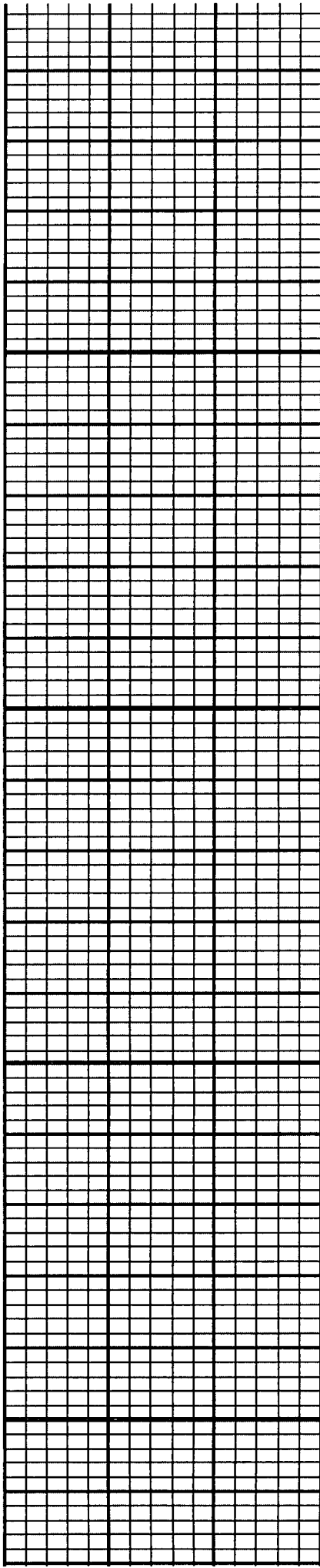
Treatment Date: Apr/28/2018

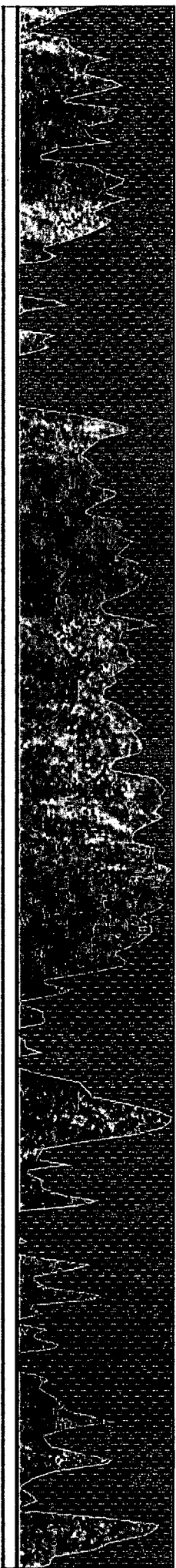
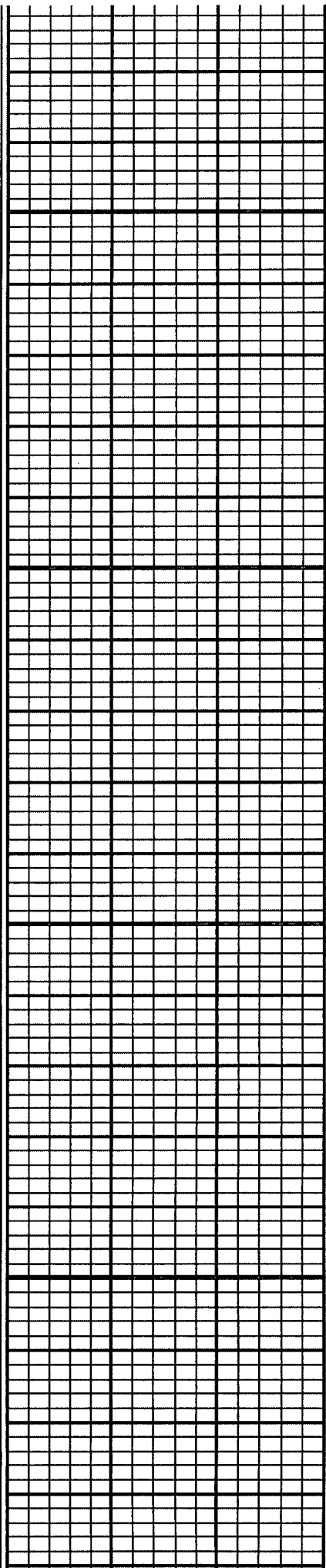
Tracers	Form	Type	Amount	Concentration	Total Activity
Sc-46 Zero Wash	Solid	0.5 - 2.5 ppg 20/40 Sand	97,963 lb	0.36 mCi/1000 lb	35.0 mCi
		15 Diverter Balls			
Sb-124 Zero Wash	Solid	0.5 - 2.5 ppg 20/40 Sand	97,979 lb	0.36 mCi/1000 lb	35.0 mCi
		12 Diverter Balls			
Ir-192 Zero Wash	Solid	0.5 - 2.5 ppg 20/40 Sand	105,304 lb	0.33 mCi/1000 lb	35.0 mCi

Service Company: Halliburton Energy Services - Farmington, NM

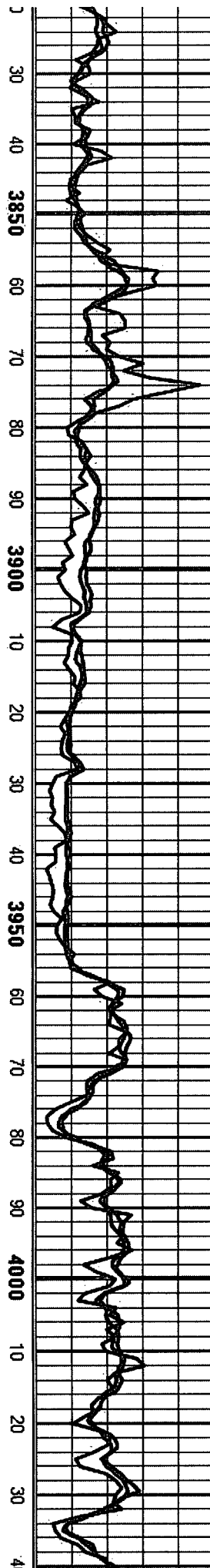
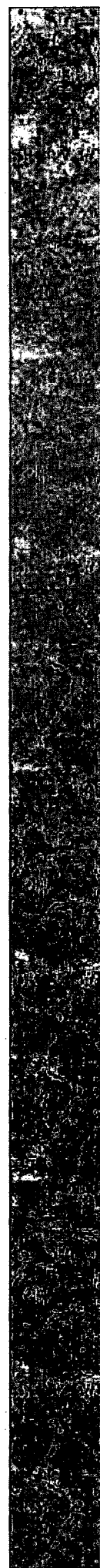
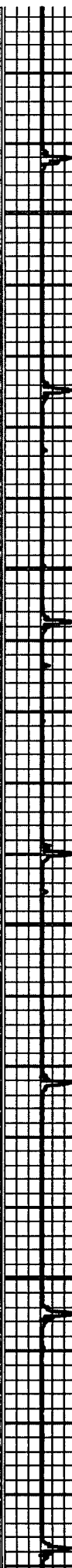
Treatment: Pump water frac treatment at an average of 4,429 psi @ 8.9 bpm (ISIP = 830 psi).
 Pump a total of 301,246 lb of 20/40 Sand in PLN2 foam gel.



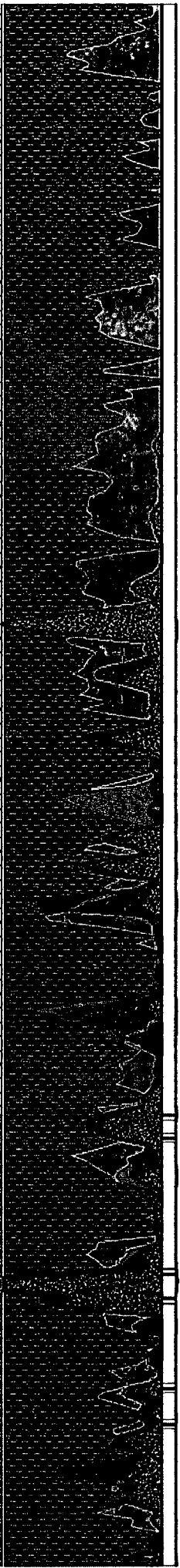
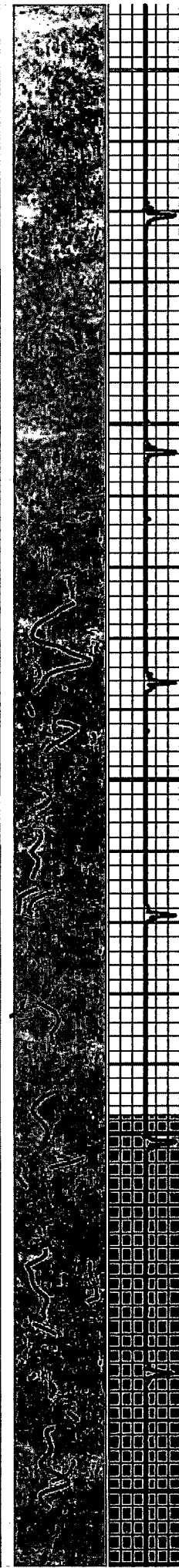
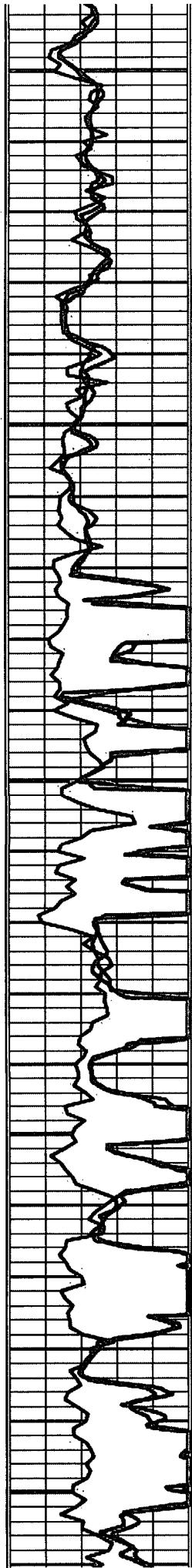




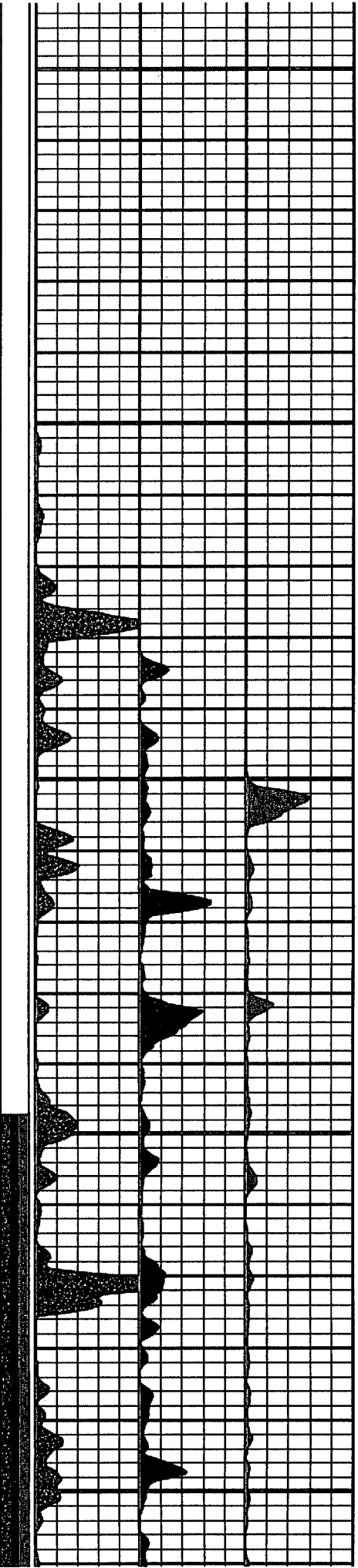
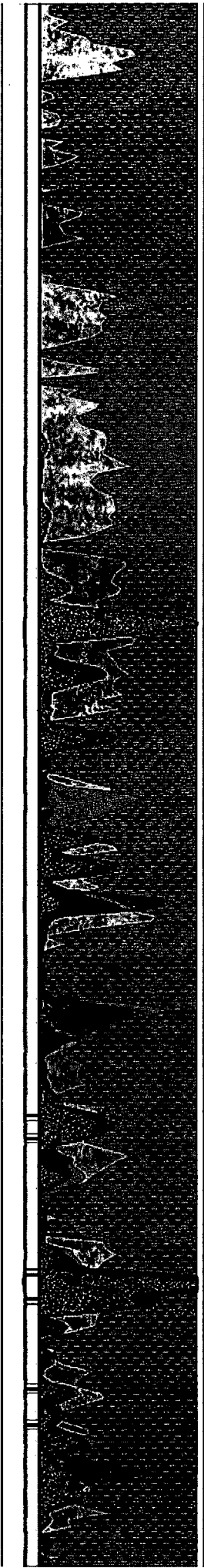
Vertical text or labels, possibly indicating depth or time, running along the left side of the strip.



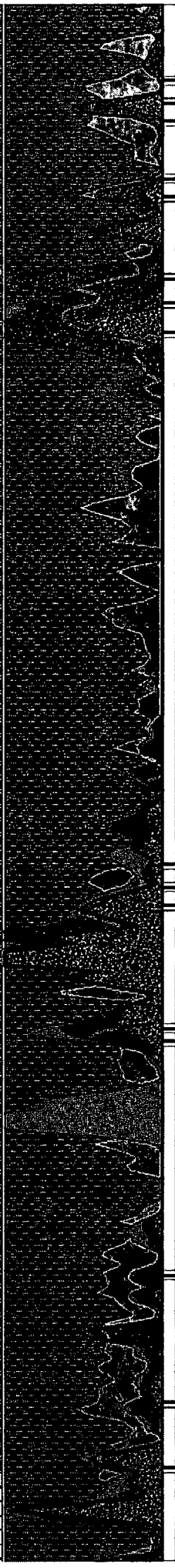
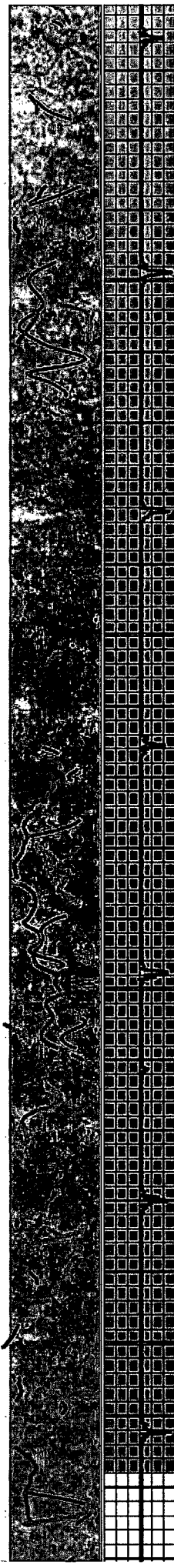
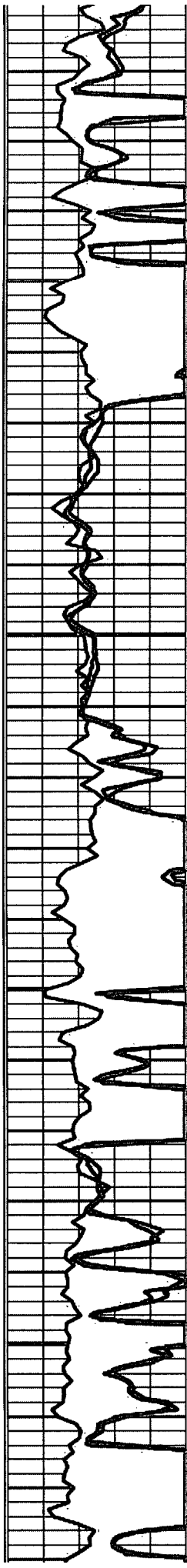
4050 60 70 80 90 4100 10 20 30 40 4150 60 70 80 90 4200 10 20 30 40 4250 6



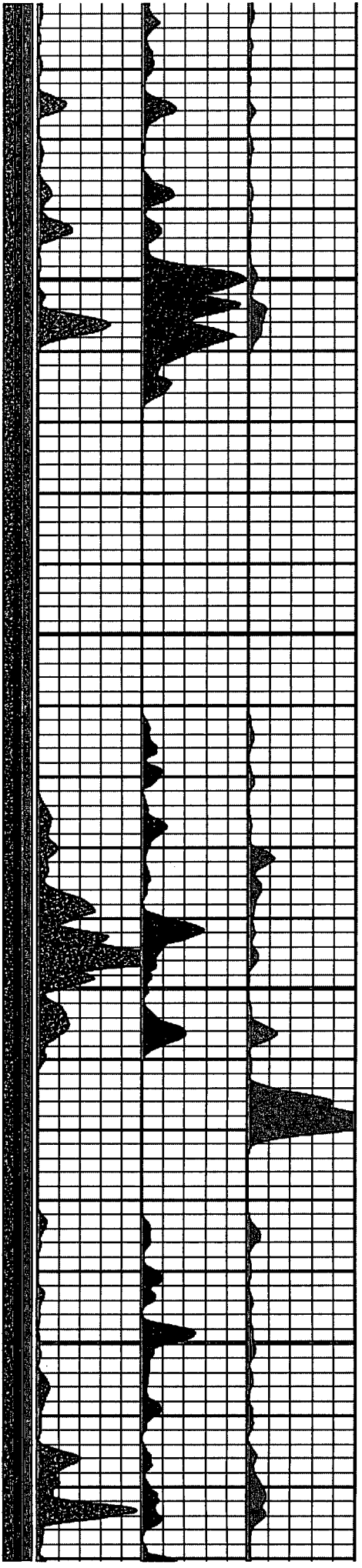
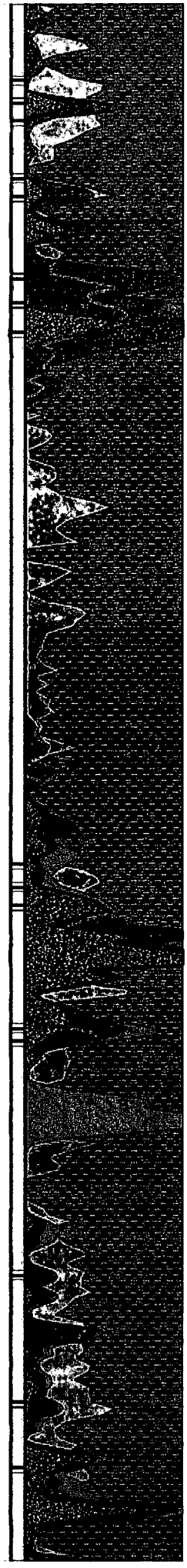
Vertical scale: 0 to 100 feet. Horizontal scale: 0 to 100 feet. Elevation: 4050 to 4250 feet. Distance: 0 to 4250 feet.

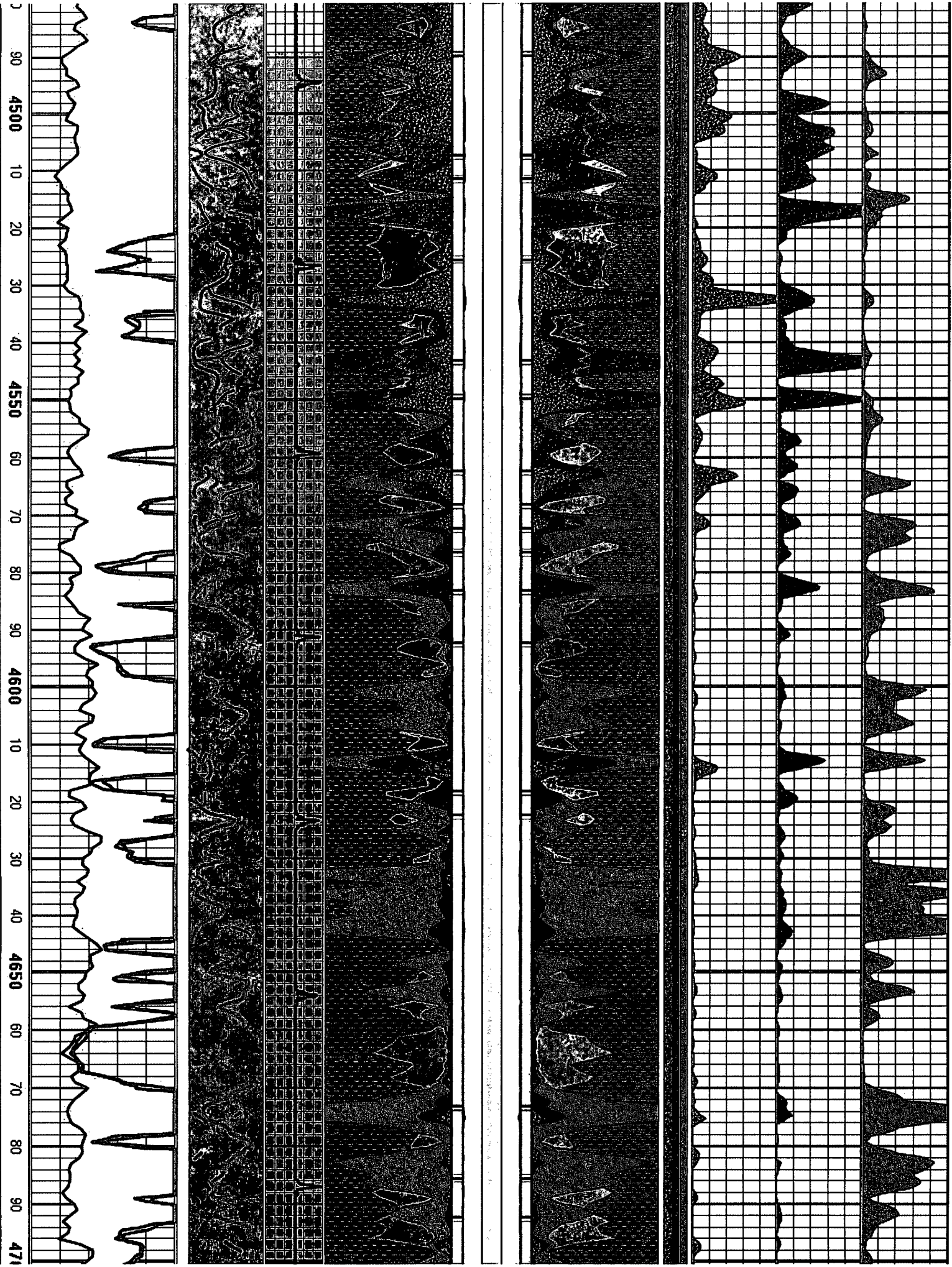


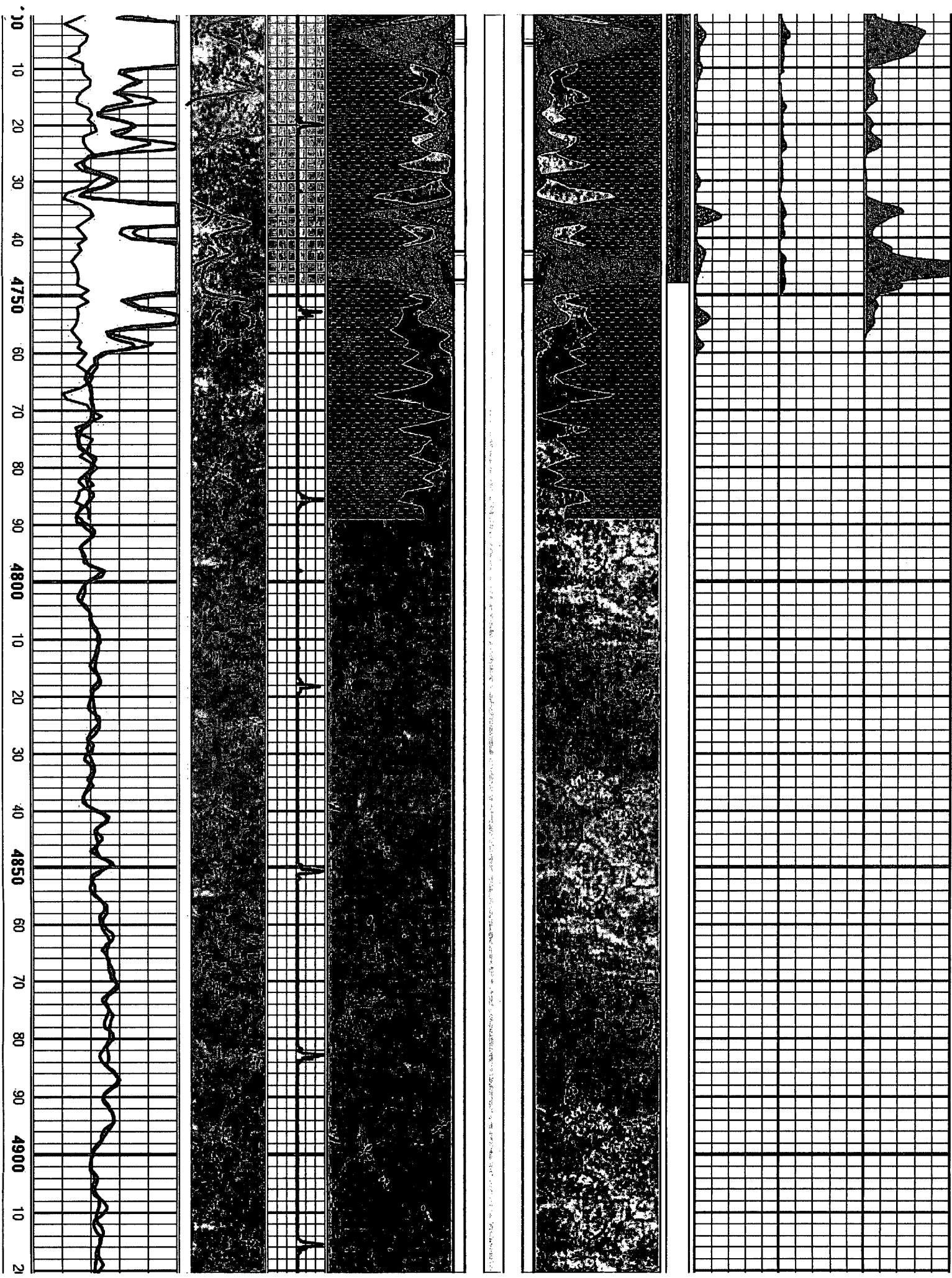
2 70 80 90 4300 10 20 30 40 4350 60 70 80 90 4400 10 20 30 40 4450 60 70 80

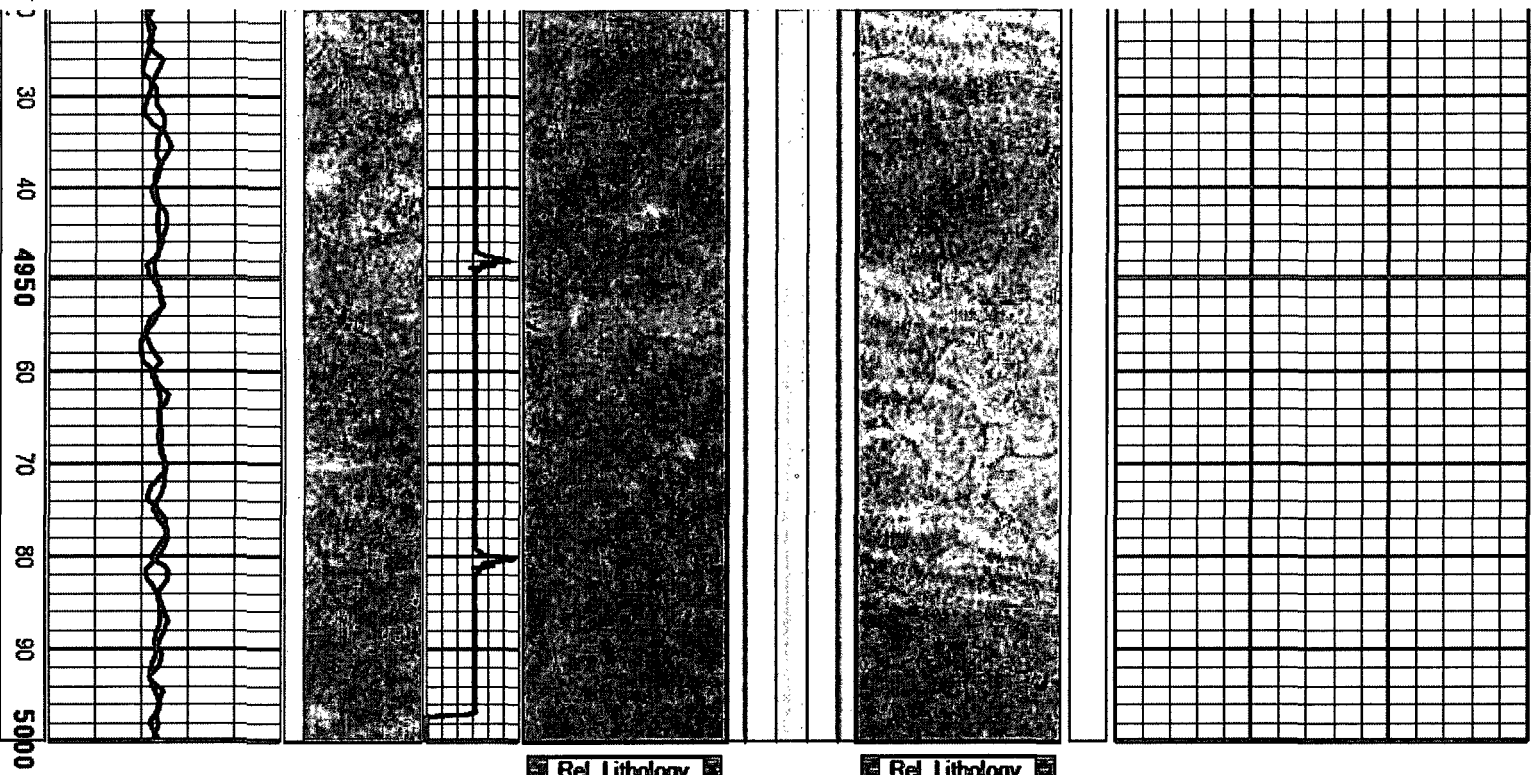


9









Rel. Lithology
Iridium
Antimony
Scandium

Rel. Lithology
Iridium
Antimony
Scandium

GR PASS 1		
0	[API]	250
GR PASS 2		
0	[API]	250
GR OH		
0	[API]	250

SBRD		
0	[IN]	25
IRR		
0	[IN]	25
SCR		
0	[IN]	25

CCL		
0		270
Mene		
0		1
PointLo		
0		1

Iridium		
1000		0
Antimony		
1000		0
Scandium		
1000		0

Bore Hole

Iridium		
0		1000
Antimony		
0		1000
Scandium		
0		1000

Iridium	Antimony	Scandium
IRTOT	SBTOT	SCTOT
0 1000	0 1000	0 1000

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Well: Gonsales State Com #001
Field: Blanco MesaVerde - Dakota
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