

P. O. Box 1069
Hobbs, New Mexico 88240

November 18, 1969

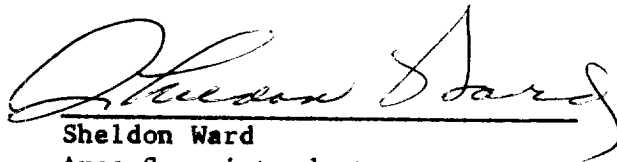
Re: State "A" a/c-4 Well No. 1
Section 4, T-23-S, R-36-E
Lea County, New Mexico

DEVIATION RECORD

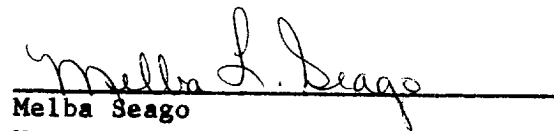
<u>Footage</u>	<u>Slope</u>	<u>Footage</u>	<u>Slope</u>
364	1/2	9984	4-3/4
846	1/2	10078	4-3/4
1351	1	10298	4
1574	1-1/2	10876	3-1/4
1842	1-1/2	11216	4
2217	1	11489	3-3/4
3562	1	11853	4-1/4
6967	3-1/4	11855	4-1/4
9859	4-3/4	12088	4

I hereby certify the information given above is true and complete to the best of my knowledge.

TEXAS PACIFIC OIL COMPANY, INC.


Sheldon Ward
Area Superintendent

Subscribed and sworn to before me this 18th day of November 1969.


Melba Seago
Notary Public
Lea County, New Mexico

My commission expires January 30, 1971.

THE UNIVERSITY OF CHICAGO

PHYSICS DEPARTMENT

PHYSICS 551
LECTURE 10
SPECIAL RELATIVITY

LECTURE 10

TIME	TOPIC	LECTURER	REMARKS
9:00	Review	W. K. H. S.	
9:15	Galilean Relativity	W. K. H. S.	
9:30	Newtonian Mechanics	W. K. H. S.	
9:45	Galilean Transformations	W. K. H. S.	
10:00	Relativity of Simultaneity	W. K. H. S.	
10:15	Time Dilation	W. K. H. S.	
10:30	Length Contraction	W. K. H. S.	
10:45	Velocity Addition	W. K. H. S.	
11:00	Spacetime Diagrams	W. K. H. S.	
11:15	Minkowski Space	W. K. H. S.	
11:30	Four-Vectors	W. K. H. S.	
11:45	Energy and Momentum	W. K. H. S.	
12:00	Mass-Energy Equivalence	W. K. H. S.	

LECTURE 10: SPECIAL RELATIVITY

1. Galilean Relativity

In Galilean relativity, the laws of physics are the same in all inertial frames. The Galilean transformation relates the coordinates of an event in one frame to the coordinates in another frame moving with a constant velocity relative to the first.

2. Newtonian Mechanics

Newton's laws of motion are valid in all inertial frames. The force on a particle is the same in all frames, and the acceleration is the same in all frames.

3. Relativity of Simultaneity

Two events that are simultaneous in one frame are not simultaneous in another frame moving relative to the first.