

CONE & KERLEY, INC.

PHONE EM 8-6442

PETROLEUM ENGINEERING SERVICES

ODESSA, TEXAS - 79760

P. O. BOX 2982

For: Morris R. Antweil
P. O. Box 2010
Hobbs, New Mexico 88240

Date of Test: April 20, 1971
Field: South Carlsbad

Well No.: Little Jewell No. 1-L.T. Separator Gas Flow Rate 6139 MCF/Day

A. YIELD AND CHARACTERISTICS OF SEPARATOR EFFLUENTS AT 885 PSIG AND 42 °F

- 1. Separator condensate GPM, Gal/MCF separator gas GPM
- 2. Yields per MCF of full wellstream: (Dry Sep. Gas + Vap. Cond.)
 - (a) Stock tank condensate (° API) (Bbls/MM) GPM
 - (b) Separator Gas %
 - (c) Water (Cl = ppm) Bbls/MM
- 3. Separator Condensate Shrinkage Factor:
 - Percent recovered by Flash Vaporization from separator pressure
 - and weathered to °F %
- 4. Separator Condensate Vapor Equivalent: Cu. Ft./Gal.

B. COMPOSITION OF SEPARATOR EFFLUENTS

	GAS		CONDENSATE	
	Mol %	GPM	Mol %	Liq. Vol. %
Hydrogen Sulfide	Nil			
Oxygen	Nil			
Nitrogen	.32			
Carbon Dioxide	.97			
Methane	96.45			
Ethane	1.87			
Propane	.27	.074		
Iso-Butane	.04	.013		
N-Butane	.04	.013		
Iso-Pentane	.01	.004		
N-Pentane	.01	.004		
Iso-Hexanes				
N-Hexane				
Pentanes Plus				
Hexanes Plus	.02	.009		
Heptanes Plus				
TOTALS	100.00	.117		

C. FULL WELL STREAM COMPOSITION:

	Mol %	GPM
Hydrogen Sulfide		
Oxygen		
Nitrogen		
Carbon Dioxide		
Methane		
Ethane		
Propane		
Iso-Butane		
N-Butane		
Iso-Pentane		
N-Pentane		
Iso-Hexanes		
N-Hexane		
Pentanes Plus		
Hexanes Plus		
Heptanes Plus		
TOTALS		

D. MISCELLANEOUS DATA:

SEPARATOR GAS

Sp. Gr.	.578	(Measured) (Air = 1)	Gasoline Content:		
Sp. Gr.	.578	(Calculated) (Air = 1)	26#	Gasoline	.028 GPM
BTU/Cu. Ft.	1015	(Dry Basis)	100	% Propane	.074 GPM
BTU/Cu. Ft.	997	(Wet Basis)	XS	Butanes	.015 GPM
				TOTAL	.117 GPM

SEPARATOR CONDENSATE

Characteristics of plus in liquid residue:
Specific Gravity (Water = 1)
Molecular Weight
Cu. Ft. Vapor per gallon

FULL WELL STREAM

Characteristics of plus in full well stream:
Specific Gravity (Water = 1)
Molecular Weight
Cu. Ft. Vapor per gallon
Full Well Stream Sp. Gr. = (Air = 1)

Volumes = 14.65 psi & 60° F.

REMARKS:

RECEIVED

Certified: CONE & KERLEY, INC.

By Bill Kerley
Bill Kerley