

## NATURAL GAS ANALYSIS REPORT

Sampled by:  
Trilobite Testing  
Hays, Kansas  
Scott City, Kansas  
Phone: 800-728-5369  
Fax: 913-625-5620

Analyzed by:  
Caraway Analytical  
728 North Roosevelt  
Liberal, Kansas 67901  
Phone: 316-324-5389  
Fax: 316-626-7108

Lab Number:	93103	Analyzed:	08/12/93
Sample From:	Enns A-2 Dst 1	Pressure:	
Producer:	Charter Production	Temperature:	
Date:	08/12/93	Location:	15-34-28
Time:		County:	Meade
Sampler:		State:	Kansas
Source:		Formation:	Council Grove

		Mole %	GPM
Helium	He:	0.214	0.000
Oxygen	O2:	0.000	0.000
Nitrogen	N2:	5.920	0.000
Carbon Dioxide	CO2:	0.125	0.000
Methane	C1:	83.813	0.000
Ethane	C2:	5.698	1.524
Propane	C3:	2.380	0.656
Iso Butane	iC4:	0.264	0.086
Normal Butane	nC4:	0.698	0.220
Iso Pentane	iC5:	0.162	0.059
Normal Pentane	nC5:	0.225	0.081
Hexanes Plus	C6+:	0.501	0.219
	TOTAL:	100.000	2.846
	Z Fact:	0.9975	
	SP.GR.:	0.6643	
	BTU (SAT):	1066.1 @ 14.73 psia	
	BTU (DRY):	1085.0 @ 14.73 psia	

## COMMENTS:

2899-2939  
Zone 'A' Pax 6  
Elevation 2282 GL

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Lab Number:	93102	Analyzed:	08/12/93
Sample From:	Enns A-2 Dst 2	Pressure:	
Producer:	Charter Production	Temperature:	
Date:	08/12/93	Location:	15-34-28
Time:		County:	Meade
Sampler:		State:	Kansas
Source:		Formation:	Council Grove

	Mole %	GPM
Helium	He: 0.358	0.000
Oxygen	O2: 0.000	0.000
Nitrogen	N2: 5.907	0.000
Carbon Dioxide	CO2: 0.139	0.000
Methane	C1: 83.771	0.000
Ethane	C2: 5.623	1.504
Propane	C3: 2.284	0.629
Iso Butane	iC4: 0.247	0.081
Normal Butane	nC4: 0.605	0.191
Iso Pentane	iC5: 0.135	0.049
Normal Pentane	nC5: 0.215	0.078
Hexanes Plus	C6+: 0.716	0.312
	TOTAL: 100.000	2.844
	Z Fact: 0.9975	
	SP.GR.: 0.6655	
	BTU (SAT): 1067.9 @ 14.73 psia	
	BTU (DRY): 1086.8 @ 14.73 psia	

COMMENTS:

2938-2961  
 Zone 'B' Pax 4