

Endura Products Corporation

P O Box 3394, Midland, Texas 79702
Phone (432) 684-4233 Fax (432) 684-4277

WATER ANALYSIS

Date 1/30/2006 Endura Rep Dave Pickering
Sampling Point/Date Wellhead 1/25/2006
Company Citation Oil & Gas
Formation Lease Sindt

Code 101025082
State Colorado
County Logan
Well #4

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc)	2,990	130
Total Hardness as Ca++	32	0
Calcium Ca++	26	1
Magnesium, Mg++	4	0
Barium, Ba++	0	0
Iron (Total) Fe+++*	6	0

ANIONS

Chlorides, Cl-	2,260	64
Sulfate, SO4-	1,800	38
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	1,781	29
Sulfide, S-*	0	0
Total Dissolved Solid	8,867	

OTHER PROPERTIES

pH*	7.938
Specific Gravity, 60/60 F	1.004
Turbidity	471

SCALING INDICIES

<u>TEMP, F</u>	<u>CA CO3</u>	<u>ASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.4738	-1.5217	-1.6672	-28.3362
120	0.7369	-1.5420	-1.5071	-28.5568
160	1.0700	-1.5135	-1.3059	-28.7056

PERFORATIONS

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WATER ANALYSIS

Date	1/30/2006	Endura Rep	Dave Pickering	Code	101025083
Sampling Point/Date	Wellhead 1/25/2006	State	Colorado		
Company	Citation Oil & Gas	County	Logan		
Formation		Lease	Sindt	Well	#5

DISSOLVED SOLIDS

<u>CATIONS</u>	mg/l	me/l
Sodium, Na+ (Calc)	1,840	80
Total Hardness as Ca++	26	0
Calcium Ca++	16	1
Magnesium, Mg++	6	1
Barium, Ba++	0	0
Iron (Total) Fe+++*	3	0

ANIONS

Chlorides, Cl-	1,620	46
Sulfate, SO4-	41	1
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	2,147	35
Sulfide, S-*	0	0
Total Dissolved Solid	5,673	

OTHER PROPERTIES

pH*	7.843
Specific Gravity, 60/60 F	1.002
Turbidity	132

SCALING INDICIES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>ASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.4244	-3.1873	-3.3309	-28.1349
120	0.6758	-3.2113	-3.1745	-28.3497
160	0.9747	-3.1830	-2.9735	-28.4824

PERFORATIONS

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WATER ANALYSIS

Date 1/30/2006 Endura Rep Dave Pickering
Sampling Point/Date Wellhead 1/25/2006
Company Citation Oil & Gas
Formation Lease Smdt

Code 101025084
State Colorado
County Logan
Well #8

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc)	2,530	110
Total Hardness as Ca++	22	0
Calcium Ca++	13	1
Magnesium, Mg++	5	0
Barium, Ba++	0	0
Iron (Total) Fe+++*	2	0

ANIONS

Chlorides, Cl-	1,780	50
Sulfate, SO4-	1,300	27
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	2,098	34
Sulfide, S-*	0	0
Total Dissolved Solid	7,728	

OTHER PROPERTIES

pH*	7.934
Specific Gravity, 60/60 F	1.002
Turbidity	100

SCALING INDICIES

<u>TEMP, F</u>	<u>CA CO3</u>	<u>ASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.2969	-1.9052	-2.0500	-28.2735
120	0.5565	-1.9273	-1.8917	-28.4922
160	0.8788	-1.8996	-1.6913	-28.6356

PERFORATIONS

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WATER ANALYSIS

Date 1/30/2006 Endura Rep Dave Pickering
Sampling Point/Date Wellhead 1/25/2006
Company Citation Oil & Gas
Formation Lease Smdt

Code 101025085
State Colorado
County Logan
Well #10

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc)	1,817	79
Total Hardness as Ca++	19	0
Calcium Ca++	10	1
Magnesium, Mg++	5	0
Barium, Ba++	0	0
Iron (Total) Fe+++*	6	0

ANIONS

Chlorides, Cl-	1,500	42
Sulfate, SO4-	175	4
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	2,098	34
Sulfide, S-*	0	0
Total Dissolved Solid	5,611	

OTHER PROPERTIES

pH*	7.877
Specific Gravity, 60/60 F	1.002
Turbidity	2354

SCALING INDICIES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>ASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.2436	-2.7617	-2.9053	-28.1351
120	0.4953	-2.7854	-2.7486	-28.3499
160	0.7943	-2.7570	-2.5475	-28.4827

PERFORATIONS

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WATER ANALYSIS

Date 1/30/2006 Endura Rep Dave Pickering
Sampling Point/Date Wellhead 1/25/2006
Company Citation Oil & Gas
Formation Lease Sindt

Code 101025086
State Colorado
County Logan
Well #13

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc)	1,863	81
Total Hardness as Ca++	13	0
Calcium Ca++	10	1
Magnesium, Mg++	2	0
Barium, Ba++	0	0
Iron (Total) Fe+++*	1	0

ANIONS

Chlorides, Cl-	1,600	45
Sulfate, SO4-	24	1
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	2,196	36
Sulfide, S-*	0	0
Total Dissolved Solid	5,696	

OTHER PROPERTIES

pH*	7.863
Specific Gravity, 60/60 F	1.002
Turbidity	206

SCALING INDICES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>ASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.2514	-3.6220	-3.7656	-28.1328
120	0.5028	-3.6461	-3.6093	-28.3475
160	0.8014	-3.6179	-3.4084	-28.4801

PERFORATIONS

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WATER ANALYSIS

Date 1/30/2006 Endura Rep Dave Pickering
Sampling Point/Date Wellhead 1/25/2006
Company Citation Oil & Gas
Formation Lease Dickinson

Code 101025075
State Colorado
County Logan
Well #1

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc)	2,024	88
Total Hardness as Ca++	16	0
Calcium Ca++	13	1
Magnesium, Mg++	2	0
Barium, Ba++	0	0
Iron (Total) Fe+++*	1	0

ANIONS

Chlorides, Cl-	1,760	50
Sulfate, SO4-	20	0
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	2,367	39
Sulfide, S-*	0	0
Total Dissolved Solid	6,187	

OTHER PROPERTIES

pH*	7.892
Specific Gravity, 60/60 F	1.002
Turbidity	201

SCALING INDICIES

<u>TEMP, F</u>	<u>CA CO3</u>	<u>ASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.4046	-3.6127	-3.7565	-28.1603
120	0.6576	-3.6369	-3.6002	-28.3758
160	0.9606	-3.6093	-3.4000	-28.5104

PERFORATIONS

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WATER ANALYSIS

Date	1/30/2006	Endura Rep	Dave Pickering	Code	101025076
Sampling Point/Date	Wellhead 1/25/2006			State	Colorado
Company	Citation Oil & Gas			County	Logan
Formation		Lease	Dickinson	Well	#3

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc)	2,001	87
Total Hardness as Ca++	16	0
Calcium Ca++	10	1
Magnesium, Mg++	4	0
Barium, Ba++	0	0
Iron (Total) Fe+++*	1	0

ANIONS

Chlorides, Cl-	1,760	50
Sulfate, SO4-	32	1
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	2,269	37
Sulfide, S-*	0	0
Total Dissolved Solid	6,077	

OTHER PROPERTIES

pH*	7.963
Specific Gravity, 60/60 F	1.002
Turbidity	405

SCALING INDICIES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>ASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.3462	-3.5187	-3.6625	-28.1565
120	0.5991	-3.5428	-3.5061	-28.3719
160	0.9016	-3.5149	-3.3056	-28.5062

PERFORATIONS

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WATER ANALYSIS

Date 1/30/2006 Endura Rep Dave Pickering
Sampling Point/Date Wellhead 1/25/2006
Company Citation Oil & Gas
Formation Lease Dickinson

Code 101025077
State Colorado
County Logan
Well #6

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc)	2,346	102
Total Hardness as Ca++	26	0
Calcium Ca++	16	1
Magnesium, Mg++	6	1
Barium, Ba++	0	0
Iron (Total) Fe+++*	3	0

ANIONS

Chlorides, Cl-	1,800	51
Sulfate, SO4-	663	14
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	2,391	39
Sulfide, S-*	0	0
Total Dissolved Solid	7,225	

OTHER PROPERTIES

pH*	7.899
Specific Gravity, 60/60 F	1.002
Turbidity	387

SCALING INDICIES

<u>TEMP, F</u>	<u>CA CO3</u>	<u>ASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	0.4450	-2.0704	-2.2148	-28.2328
120	0.7021	-2.0934	-2.0574	-28.4503
160	1.0173	-2.0662	-1.8575	-28.5905

PERFORATIONS

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WATER ANALYSIS

Date 1/30/2006 Endura Rep Dave Pickering
Sampling Point/Date Wellhead 1/25/2006
Company Citation Oil & Gas
Formation Lease Dubois

Code 101025078
State Colorado
County Logan
Well #5

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc)	1,564	68
Total Hardness as Ca++	48	0
Calcium Ca++	6	0
Magnesium, Mg++	26	2
Barium, Ba++	0	0
Iron (Total) Fe+++*	2	0

ANIONS

Chlorides, Cl-	1,500	42
Sulfate, SO4-	10	0
Carbonate, CO3-	0	0
Bicarbonates, HCO3-	1,684	28
Sulfide, S-*	0	0
Total Dissolved Solid	4,792	

OTHER PROPERTIES

pH*	7.695
Specific Gravity, 60/60 F	1.004
Turbidity	73

SCALING INDICIES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>ASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	-0.2196	-4.1828	-4.3261	-28.0884
120	0.0298	-4.2066	-4.1695	-28.3020
160	0.3215	-4.1771	-3.9673	-28.4316

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WATER ANALYSIS

Date 1/30/2006 Endura Rep Dave Pickering
Sampling Point/Date Wellhead 1/25/2006
Company Citation Oil & Gas
Formation Lease Fluhart

Code 101025080
State Colorado
County Logan
Well #1

DISSOLVED SOLIDS

CATIONS

	mg/l	me/l
Sodium, Na+ (Calc)	2,875	125
Total Hardness as Ca++	26	0
Calcium Ca++	16	1
Magnesium, Mg++	6	1
Barium, Ba++	0	0
Iron (Total) Fe+++*	54	3

ANIONS

Chlorides, Cl-	1,880	53
Sulfate, SO4-	43	1
Carbonate, CO3-	2,294	76
Bicarbonates, HCO3-	0	0
Sulfide, S-*	0	0
Total Dissolved Solid	7,168	

OTHER PROPERTIES

pH*	7.755
Specific Gravity, 60/60 F	1.004
Turbidity	312

SCALING INDICIES

<u>TEMP. F</u>	<u>CA CO3</u>	<u>ASO4*2H2O</u>	<u>CA SO4</u>	<u>BA SO4</u>
80	7.7412	-3.1981	-3.3421	-28.1821
120	7.5567	-3.2192	-3.1828	-28.3982
160	7.3723	-3.1856	-2.9765	-28.5344

PERFORATIONS