

01-03-1994 11:24AM FROM SNYDER FARMINGTON NM

NMOCD Examiner Hearing
February 17, 1994
Application of Snyder Oil Corporation
Case NO. 10908
Exhibit NO. 4



SNYDER OIL CORPORATION

WELL ANALYSIS COMPARISON

LEASE: CON. HALE 2-E

DECEMBER 20, 1993

DATE:	12/16/93	12/16/93
NO.:	30003	30004
	DAKOTA	GALLUP
	MOLE %	MOLE %
NITROGEN	0.707	0.682
CO2	0.806	0.772
METHANE	78.336	78.902
ETHANE	11.590	11.178
PROPANE	5.680	5.136
I-BUTANE	0.773	0.590
N-BUTANE	1.453	1.431
I-PENTANE	0.297	0.376
N-PENTANE	0.227	0.363
HEXANE+	0.131	0.570
BTU'S	1246.6	1256.0
GPM	5.6247	5.5675
SPEC GRAV	0.7240	0.7292



1115 FARMINGTON AVENUE - FARMINGTON, NM 87401

(505) 325-6622

DEC 21 1993

ANALYSIS NO. SNY30004

WELL/LEASE INFORMATION

COMPANY: SNYDER OIL CORPORATION

WELL NAME: CON. HALE 2-E

PRESSURE: 125 PSIG

LOCATION: (M) SEC. 15-T26N-R8W

SAMPLE TEMP.: DEG.F

LSE/CNTY: SAN JUAN, NM

WELL FLOWING:

FORMATION: GALLUP

DATE SAMPLED: 12/16/93

METER NO.:

SAMPLED BY: A.P.

REMARKS:

ANALYSIS

COMPONENT	MOLE%	GPM
NITROGEN	0.682	0.0000
CO2	0.772	0.0000
METHANE	78.902	0.0000
ETHANE	11.178	2.9901
PROPANE	5.136	1.4155
I-BUTANE	0.590	0.1930
N-BUTANE	1.431	0.4512
I-PENTANE	0.376	0.1376
N-PENTANE	0.363	0.1315
HEXANE+	0.570	0.2486
TOTAL	100.000	5.5675
COMPRESSIBILITY FACTOR	(1/Z)	1.0036
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1256.0
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1234.2
REAL SPECIFIC GRAVITY		0.7292

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 111 PSI

DATE RUN: 12/17/93

ANALYSIS RUN BY: CHELLE DURBIN



1115 Farmington Avenue - Farmington, NM 87401
(505) 325-1085

Lab Number:

W93-524

Standard A.P.I. Water Analysis Report

Company: SNYDER OIL CORPORATION

Date Collected: 12/16/93

Well Name: CON HALE 2-E; GALLUP

Date Received: 12/16/93

Formation: Gallup

Date Analyzed: 12/17; 12/20/93

Location: M SEC.15-T26N-R8W

County: San Juan State: New Mexico

Collected By: AP

Analyst: Sheila Feltman *Sheila*

Remarks:

Attention:

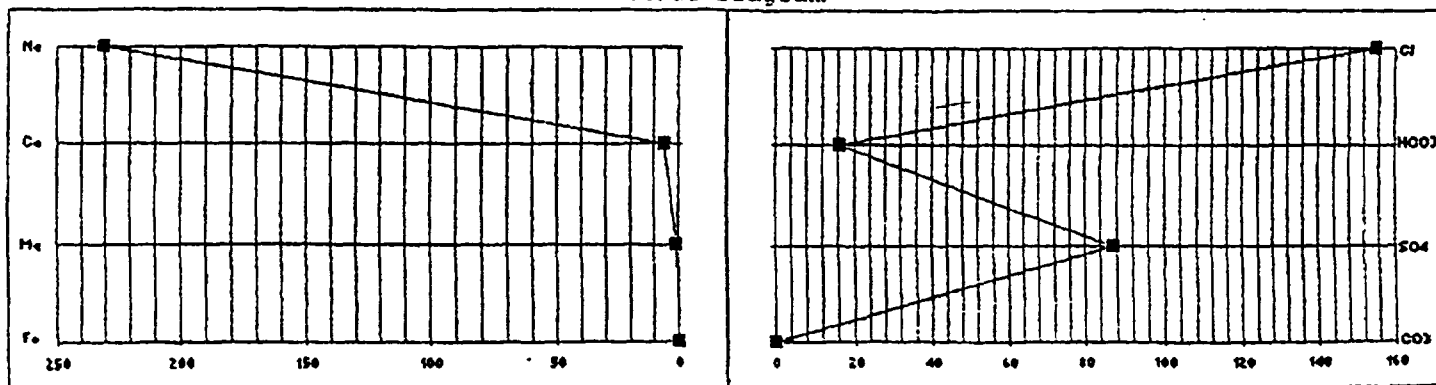
PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	5,300 mg/l		Chloride, Cl	5,500 mg/l	
Potassium, K	55 mg/l		Sulfate, SO ₄	4,200 mg/l	
Calcium, Ca	120 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	14 mg/l		Carbonate, CO ₃	0 mg/l	
Iron, Fe (Total)	0 mg/l	NOT RUN	Bicarbonate, HCO ₃	980 mg/l	
Sulfide	0 mg/l	<0.1 mg/L	Resistivity	0.450 ohm-m	
pH	8.0 units		(@25 Degrees C)		
Total Dissolved Solids	14,520 mg/l		Conductivity	22,200 uS	
			Specific Gravity	1.015	
			(@ 60 Degrees F)		

Remarks: A small amount of condensate was present in this sample.

Anion/Cation:

1088

Stiff Diagram



Scale: Meq/L



1115 FARMINGTON AVENUE - FARMINGTON, NM 87401

(505) 325-6622

ANALYSIS NO. SNY30003

WELL/LEASE INFORMATION

COMPANY: SNYDER OIL CORPORATION

WELL NAME: CON. HALE 2-E

PRESSURE: 125 PSIG

LOCATION: (M) SEC. 15-T26N-R8W

SAMPLE TEMP.: DEG.F

LSE/CNTY: SAN JUAN, NM

WELL FLOWING:

FORMATION: DAKOTA

DATE SAMPLED: 12/16/93

METER NO.:

SAMPLED BY: A.P.

REMARKS:

DEC 21 1993

ANALYSIS

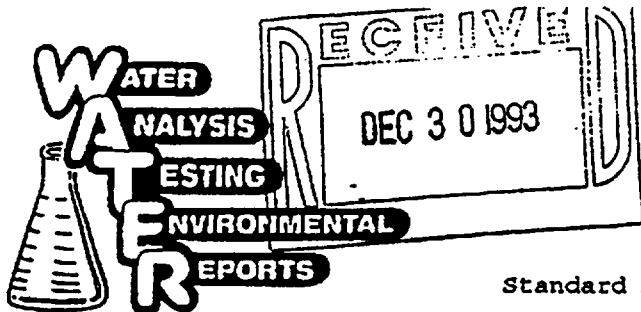
COMPONENT	MOLE%	GPM
NITROGEN	0.707	0.0000
CO2	0.806	0.0000
METHANE	78.336	0.0000
ETHANE	11.590	3.1003
PROPANE	5.680	1.5654
I-BUTANE	0.773	0.2528
N-BUTANE	1.453	0.4581
I-PENTANE	0.297	0.1087
N-PENTANE	0.227	0.0822
HEXANE+	0.131	0.0571
TOTAL	100.000	5.6247
COMPRESSIBILITY FACTOR	(1/Z)	1.0035
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1246.6
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1224.9
REAL SPECIFIC GRAVITY		0.7240

ANALYSIS RUN AT 14.73 PSIA & 60 DEGREES F

CYLINDER PRESSURE: 330 PSI

DATE RUN: 12/17/93

ANALYSIS RUN BY: SHEILA FELTMAN


 1115 Farmington Avenue - Farmington, NM 87401
 (505) 325-1085

Lab Number:

W93-542

Standard A.P.I. Water Analysis Report

Company: SNYDER OIL CORPORATION

Date Collected: 12/23/93

Well Name: CON HALE 2-E; DAKOTA

Date Received: 12/27/93

Formation: Basin Dakota

Date Analyzed: 12/27/93

Location: M SEC.15-T26N-R8W

County: San Juan State: New Mexico

Collected By: SOCO

Analyst: Sheila Feltman *Sheila*

Remarks:

Attention:

PARAMETER	as ION	Comment	PARAMETER	as ION	Comment
Sodium, Na	5,800 mg/l		Chloride, Cl	6,700 mg/l	
Potassium, K	82 mg/l		Sulfate, SO ₄	4,300 mg/l	
Calcium, Ca	180 mg/l		Hydroxide, OH	0 mg/l	
Magnesium, Mg	36 mg/l		Carbonate, CO ₃	0 mg/l	
Iron, Fe (Total)	0 mg/l	NOT RUN	Bicarbonate, HCO ₃	950 mg/l	
Sulfide	0 mg/l	<0.5 mg/L	Resistivity	0.382 ohm-m	
pH	7.2 units		(@25 Degrees C)		
Total Dissolved Solids	18,600 mg/l		Conductivity	26,200 uS	
			Specific Gravity	1.017	
			(@ 60 Degrees F)		

Remarks: Sample received was approximately 50% water and 50% organic - the latter had two layers of liquid - one black and one green, and a large amount of solids; water only used in analyses

Anion/Cation: 1108

Stiff Diagram

