



NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
AZTEC DISTRICT OFFICE
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AZTEC NM 87410
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[http://emnr.state.nm.us/ocd/District III3district.htm](http://emnr.state.nm.us/ocd/District%20III3district.htm)

BRADENHEAD TEST REPORT

(submit 1 copy to above address)

Date of Test May 11-2010 Operator Questar E&P API #30-039-06620

Property Name Lindcith Well No. 19 Location: Unit A Section 9 Township 26N Range 7W

Well Status (Shut-In or Producing) Initial PSI: Tubing 241 Intermediate N/A Casing 253 Bradenhead 0

OPEN BRADENHEAD AND INTERMEDIATE TO ATMOSPHERE INDIVIDUALLY FOR 15 MINUTES EACH

Testing TIME	PRESSURE			INTERM	
	Bradenhead BH	Int	Csg	Int	Csg
5 min	<u>0</u>		<u>254</u>		
10 min	<u>0</u>		<u>254</u>		
15 min	<u>0</u>		<u>255</u>		
20 min					
25 min					
30 min					

FLOW CHARACTERISTICS	
BRADENHEAD	INTERMEDIATE
<u>Steady Flow @ 3 1/2 gal./min.</u>	<u>N/A</u>
Surges	
Down to Nothing	
Nothing	
Gas	
Gas & Water	
<u>Water</u>	

If bradenhead flowed water, check all of the descriptions that apply below:

CLEAR ☒ FRESH ☒ SALTY ☐ SULFUR ☐ BLACK ☐

5 MINUTE SHUT-IN PRESSURE BRADENHEAD 26 INTERMEDIATE N/A

REMARKS:

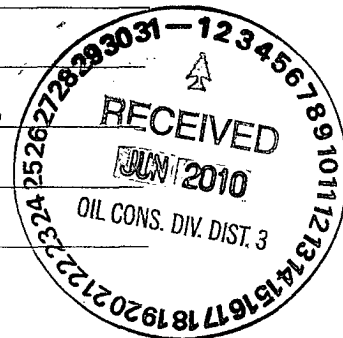
Bradenhead Flowing to containment for livestock.
Plunger lift system.

By Jim Milligan

Witness _____

Production Foreman
(Position)

E-mail address jim.milligan@questar.com





**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

Client: Questar E & P
Sample ID: Sample #1
Laboratory Number: 54170
Chain of Custody No: 9330
Sample Matrix: Aqueous
Preservative:
Condition: Plastic Bottle

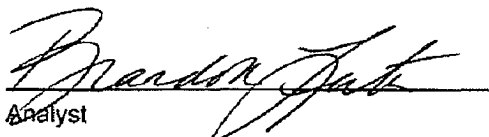
Project #: 03074-0001
Date Reported: 05-18-10
Date Sampled: 05-11-10
Date Received: 05-11-10
Date Extracted: 05-17-10
Date Analyzed: 05-17-10
Analysis Requested: 8015 TPH

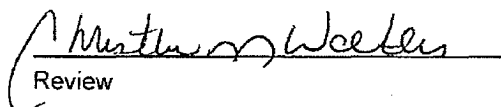
Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	7.3	0.1
Total Petroleum Hydrocarbons	7.3	0.1

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Lindrith #1-9


Analyst


Review

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	05-17-TPH QA/QC	Date Reported:	05-18-10
Laboratory Number:	54170	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-17-10
Condition:	N/A	Analysis Requested:	TPH

	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	6.7771E-001	6.7636E-001	0.20%	0 - 15%
Diesel Range C10 - C28	7.0284E-001	7.0143E-001	0.20%	0 - 15%

Blank Conc. (mg/L)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/L)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	7.3	5.5	24.7%	0 - 30%

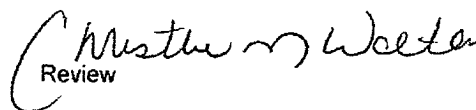
Spike Conc. (mg/L)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	25.0	28.9	116%	75 - 125%
Diesel Range C10 - C28	7.3	25.0	31.1	96.3%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Sample 54131, 54132 and 54170.


 Analyst


 Review



EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client: Questar E&P
Sample ID: Sample #1
Chain of Custody: 9330
Laboratory Number: 54170
Sample Matrix: Aqueous
Preservative: Cool
Condition: Plastic Bottle

Project #: 03074-0001
Date Reported: 05-20-10
Date Sampled: 05-11-10
Date Received: 05-11-10
Date Analyzed: 05-19-10
Analysis Requested: BTEX

Parameter	Concentration (ug/L)	Dilution Factor	Det. Limit (ug/L)
Benzene	ND	1	0.2
Toluene	ND	1	0.2
Ethylbenzene	ND	1	0.2
p,m-Xylene	ND	1	0.2
o-Xylene	ND	1	0.1
Total BTEX	ND		

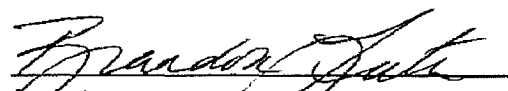
ND - Parameter not detected at the stated detection limit.

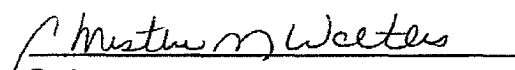
Surrogate Recoveries:	Parameter	Percent Recovery
	fluorobenzene	86.7 %
	1,4-difluorobenzene	89.1 %
	4-bromochlorobenzene	95.1 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: Lindrith #1-9


Analyst


Review

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS
QUALITY ASSURANCE REPORT**

Client:	N/A	Project #:	N/A
Sample ID:	05-19-BTEX QA/QC	Date Reported:	05-20-10
Laboratory Number:	54170	Date Sampled:	N/A
Sample Matrix:	Aqueous	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	05-19-10
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	1.5725E+006	1.5772E+006	0.30%	ND	0.2
Toluene	9.6527E+005	9.6817E+005	0.30%	ND	0.2
Ethylbenzene	6.4625E+005	6.4819E+005	0.30%	ND	0.2
p,m-Xylene	1.8487E+006	1.8543E+006	0.30%	ND	0.2
o-Xylene	7.2477E+005	7.2695E+005	0.30%	ND	0.1

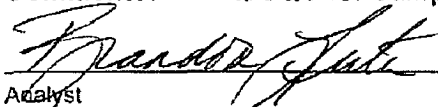
Duplicate Conc. (ug/L)	Sample	Duplicate	%Diff.	Accept Limit
Benzene	ND	ND	0.0%	0 - 30%
Toluene	ND	ND	0.0%	0 - 30%
Ethylbenzene	ND	ND	0.0%	0 - 30%
p,m-Xylene	ND	ND	0.0%	0 - 30%
o-Xylene	ND	ND	0.0%	0 - 30%

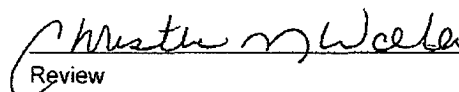
Spike Conc. (ug/L)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Limits
Benzene	ND	50.0	51.3	103%	39 - 150
Toluene	ND	50.0	49.7	99.5%	46 - 148
Ethylbenzene	ND	50.0	42.5	85.0%	32 - 160
p,m-Xylene	0.2	100	108	108%	46 - 148
o-Xylene	ND	50.0	40.9	81.9%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
 Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for Samples 54170 and 54195 - 54202.


 Analyst


 Review

CHAIN OF CUSTODY RECORD

09330

Client:

Project Name / Location:

ANALYSIS / PARAMETERS

Client Address:

Sampler Name:

Client Phone No.:

Client No.:

970-5760-3629

03074-001

Sample No./ Identification

Sample Date

Sample Time

Lab No.

Sample Matrix

No./Volume of Containers

Preservative

TPH (Method 8015)

BTEX (Method 8021)

VOC (Method 8260)

RCRA 8 Metals

Cation / Anion

RCI

TCLP with H/P

PAH

TPH (418.1)

CHLORIDE

Sample Cool

Sample Intact

Sample # 1

5-11-10

9:00 AM

54170

Soil

Sludge Aqueous

2 - plastic 1/2 gal bottle

✓

✓

✓

NE

85

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

Relinquished by: (Signature)

Date

Time

Received by: (Signature)

email

jim.milligan@questar.com



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