District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes \( \propto \) No \( \propto

Type of action: Registration of a pit of	or below-grade tank Closure of a pit or below-grade	de tank 🔀						
Operator: <u>HEC Petroleum, Inc c/o Pure Resources, Inc.</u> Telephon	e: <u>(432)687-7253</u> e-mail address: <u>jspen</u>	cer @chevron.com						
Address: 15 Smith Rd. Midland, TX 79705								
Facility or well name: Yager 9 API #: 300	04532344 U/L or Qtr/Qtr P 835 FSL & 955	FEL Sec 20 T 32N R R6W						
]	Longitude	NAD: 1927 🗌 1983 🗍						
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐								
<u>Pit</u>	Below-grade tank							
Type: Drilling ☑ Production ☐ Disposal ☐	Volume:bbl Type of fluid:							
Workover	Construction material:							
Lined ☑ Unlined ☐ .	Double-walled, with leak detection? Yes  If not, explain why not.							
Liner type: Synthetic M Thicknessmil Clay	4							
Pit Volumebbl								
Double to accound water (wartised distance from bottom of nit to consonal	Less than 50 feet	(20 points)						
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)						
high water elevation of ground water.)	100 feet or more	( 0 points) x						
	Yes	(20 points)						
Wellhead protection area: (Less than 200 feet from a private domestic	No	( 0 points) x						
water source, or less than 1000 feet from all other water sources.)	140	( o points) x						
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)						
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)						
inigation canais, unches, and percinnal and epitemeral watercourses.)	1000 feet or more	( 0 points) x						
	Ranking Score (Total Points)	0						
Test to the Colonia t	<u> </u>							
If this is a pit closure: (1) Attach a diagram of the facility showing the pit's		-						
your are burying in place) onsite \( \square\) offsite \( \square\) If offsite, name of facility								
remediation start date and end date. (4) Groundwater encountered: No 🛛 Y	Yes   If yes, show depth below ground surface.	ft. and attach sample results.						
(5) Attach soil sample results and a diagram of sample locations and excava-	tions.							
Additional Comments:	Man and an							
	6 00 COO	====						
		ದ						
	Es Cap Car							
	E.C.	S.J.						
	The state of the s	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
	TO TO THE							
I hereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideline	of my knowledge and belief. I further certify that the set , a general permit , or an (attached) alterna	he above-described pit or below-grade tank tive OCD-approved plan □.						
2/0/0/								
Date: 3/3/06								
Printed Name/Title Cynthia A. Gray, For Pure Reso	Signature							
Your certification and NMOCD approval of this application/closure does not otherwise endanger public health or the environment. Nor does it relieve to regulations.	not relieve the operator of liability should the contents the operator of its responsibility for compliance with a	of the pit or tank contaminate ground water or ny other federal, state, or local laws and/or						
Approval: DEFUTY OR & GAS INSPECTOR, DIST. 69	1 Zon	MAR 0 7 2006						
Printed Name/Title	Signature Democratical Signature	Date:						
	· //	1						

NOV



Souder, Miller & Associates ◆ P.O. Box 2606 ◆ Farmington, NM 87499-2606 612 East Murray Drive ◆ Farmington, NM 87401-6624 ◆ (505) 325-5667 ◆ fax (505) 327-1496

See well file

March 3, 2006

Mr. Denny Foust New Mexico Oil Conservation District Aztec, NM 87410

SMA Project: 5115748

RE: Soil Sampling of Release at Yager # 9, 835 FSL, 955 FEL, Unit P, S20 T32N, R6W

#### Introduction:

On February 1, 2006, Souder, Miller and Associates (SMA) personnel collected four soil samples from the above referenced location. Soil samples were collected to evaluate a suspected release from a damaged reserve pit liner. Samples were collected from the south, north, and middle areas of the pit at depths below the folded over liner. A background sample was also collected near the north boundary of the location. The samples were transported to *lina ba's* laboratory in Farmington, NM, following proper preservation and Chain of Custody protocol. A tailgate safety meeting was held before the sampling event proceeded.

## Summary of Field Activities:

Using a backhoe, three of the soil samples were collected from the potentially impacted area within the limits of the pit. The north sample was collected 6' below ground surface (bgs), the middle sample was collected 12' bgs, and the south sample was collected 8' bgs. The fourth sample was a background sample collected using a hand spade from a stock pile located to the north of the pit. The samples were placed in a laboratory-supplied jar and placed on ice for transport to *iina ba's* Farmington laboratory. See Site Plan for sampling locations.

The Laboratory followed USEPA Methods SW8015B for Diesel Range and Gasoline Range Organics (DRO/GRO), SW8021B for Aromatic Volatiles (BTEX), SW6010 for metals, E300 for anions, M2320 for alkalinity, conductivity, hardness, pH, and total dissolved solids on the extract. The results were then calculated back to the soils. The enclosed table summarizes the analytical results.

#### Recommendations:

The residual amount of contamination left in the area affected by the tears in the pit liner does not exceed the NMOCD soil standards. On behalf of its client Pure Resources, SMA requests closure of the Yager #9 release.

#### Closure and Limits:

The scope of our services consisted of the performance of a single sampling event, and preparation of this summary. All work has been performed in accordance with generally accepted environmental management professional practices.



Chevron/Pure Resources Yager #9 SMA Project Number: 5115748

This document has been prepared by **SMA** for the exclusive use of Pure Resources, as it pertains to the referenced location. If there are any questions regarding this report, please contact either Cynthia Gray or John Hagstrom at (505) 325-5667.

Respectfully submitted,

Reviewed by,

John Hagstrom

**Environmental Technician** 

Cynthia Gray, CHIMM

**Environmental Project Manager** 

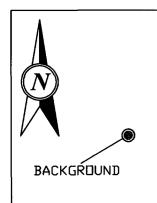
Souder, Miller and Associates

**Enclosures:** 

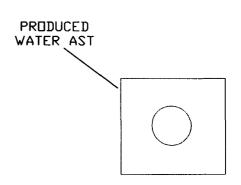
Site Plan

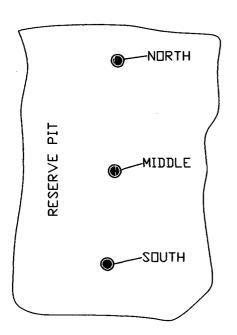
Laboratory Package

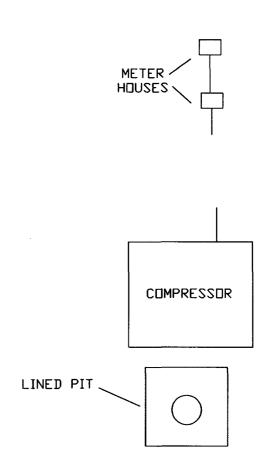
C144



PUMP JACK







NOT TO SCALE



612 E. MURRAY DR. FARMINGTON, NM 87401 PH. (505) 327-5667 FAX (505) 327-1496 YAGER #9 SITE MAP 835 FSL 955 FEL UNIT P SEC 20 T32N R6W SHEET 1

OF 1

Parameter	Units	Backgro	und	North		Midd	le	Sou	th	
DRO	mg/Kg		. 11		9.5	ND			13	Note: Below Detection
GRO	mg/Kg	ND		ND		ND		ND		Limit of 25, therefore,
Benzene	μg/Kg	ND		ND		ND		ND		not significant
Toluene	μg/Kg	ND		ND		ND		ND		
Ethylbenzene	μg/Kg	ND		ND		ND		ND		
MPXylene	μg/Kg	ND		ND		ND		ND		
o Xylene	μg/Kg	ND		ND		ND		ND		
Iron	mg/Kg		0.45		1.12		1.32		0.657	
Magnesium	mg/Kg		25.8		34.7		25.7		22.8	
Calcium	mg/Kg		44.5	•	90.1		62.4		63.1	
Sodium	mg/Kg		151		180		257		110	
Potassium	mg/Kg		4.03	}	5.61		5.47		3.27	
Chloride	ppm		30.3	}	44.5		40.4		16.6	
Fluoride	ppm		7.25	•	8.84		5.44		6.67	
Nitrate	ppm		2.65	•	1.07		15.2		1.54	Found in method blank
Nitrite	ppm		0.17	•	0.21	BDL		-	0.1	
Phosphorus Orthophosphate	ppm		0.27	·	0.59		0.34		0.27	
sulphate	ppm		150	)	198		275		137	
Alk Bicarb	mg/L CaCO3		24		34		27		23	
Alk Carb	mg/L CaCO3		10	ND		ND			9	
Alk Hydrox	mg/L CaCO3	ND		ND		ND		ND		
Alk total	mg/L CaCO3		34	•	34		27		32	
Conductivity	uS/cm		117	•	126		151		101	
Hardness	mg/L		22	!	37		26		25	
рH	pH units		8.96	;	8.98		8.4		8.78	
Temperature	Deg C		24.9	)	23.7		23.9		25.3	
TDS residue	mg/L		83	}	98		90		77	
TDS calc	mg/L		62	) :	76		85		55	

iiná bá Date: 15-Feb-06 Off: (505) 368-4065

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 327-1072

### ANALOW BICAL REPORT

Souder, Miller & Associates

Work Order:

**CLIENT:** 

0602002

Project:

Chevron Yaeger #9/ 5115748

Lab ID:

0602002-001A

Client Sample Info: Yaeger #9

Client Sample ID: North

**Collection Date:** 2/1/2006 11:51:00 AM

Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8	015B			Analyst: jem
T/R Hydrocarbons: C10-C28	9.5	25.0	J	mg/Kg	1	2/8/2006
Surr: o-Terphenyl	95.6	47-149		%REC	1	2/8/2006
GASOLINE RANGE ORGANICS		SW8	015B	(SW5035	iA)	Analyst: jem
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	2/9/2006
Surr: Trifluorotoluene	105	92.5-127		%REC	25	2/9/2006
AROMATIC VOLATILES BY GC/PID		SW8	021B	(SW5035	A)	Analyst: jem
Benzene	ND	50.0		μg/Kg	25	2/7/2006
Toluene	ND	50.0		μg/Kg	25	2/7/2006
Ethylbenzene	ND	50.0		μg/Kg	25	2/7/2006
m,p-Xylene	ND	100		μg/Kg	25	2/7/2006
o-Xylene	ND	50.0		μg/Kg	25	2/7/2006
Surr: Fluorobenzene	101	80-120		%REC	25	2/7/2006
Surr: 1,4-Difluorobenzene	102	80-120		%REC	25	2/7/2006
Surr: 4-Bromochlorobenzene	96.7	50-140		%REC	25	2/7/2006
ICP METALS, DISSOLVED		SW6	010B			Analyst: jle
Iron	1.12	0.640		mg/Kg	1	2/10/2006 4:12:37 PM
Magnesium	34.7	0.830		mg/Kg	1	2/10/2006 4:12:37 PM
Calcium	90.1	2.89		mg/Kg	1	2/10/2006 4:12:37 PM
Sodium	180	130		mg/Kg	10	2/10/2006 2:24:41 PM
Potassium	5.61	1.20		mg/Kg	1	2/10/2006 4:12:37 PM
ANIONS BY ION CHROMATOGRAPHY		E3	300	(E300)		Analyst: jle
Chloride	44.5	0.500		ppm	5	2/15/2006
Fluoride	8.84	0.0500		ppm	1	2/9/2006
Nitrogen, Nitrate (As N)	1.07	0.0230	В	ppm	1	2/9/2006
Nitrogen, Nitrite (as N)	0.210	0.0300		ppm	1	2/9/2006
Phosphorus, Dissolved Orthophosphate (As P)	0.590	√0.0330		ppm	1	2/9/2006
Sulfate	198	0.500		ppm	5	2/15/2006
ALKALINITY, TOTAL		M23	20 B			Analyst: elc
Alkalinity, Bicarbonate (As CaCO3)	34	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Hydroxide	ND.	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Total (As CaCO3)	34	5		mg/L CaCO3	1	2/9/2006
CONDUCTIVITY @ 25C		E12	20.1			Analyst: elc

Qualifiers:

Page 1 of 8

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Off: (505) 327-1072 **ANALOY FICIAL REPORT**  iiná bá.

P.O. Box 3788 Shiprock, NM 87420

Date: 15-Feb-06 Off: (505) 368-4065

**CLIENT:** 

Souder, Miller & Associates

Work Order:

0602002

Project:

Chevron Yaeger #9/ 5115748

Lab ID:

0602002-001A

Client Sample Info: Yaeger #9

Client Sample ID: North

nent Sample 1D. Norm

**Collection Date:** 2/1/2006 11:51:00 AM

Matrix: SOIL

Parameter	Result	PQL Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C	. <u></u>	E120.1		· <u>-</u>	Analyst: elc
Specific Conductance	126	2.00	uS/cm	1	2/8/2006
HARDNESS, TOTAL		M2340 B			Analyst: jem
Hardness (As CaCO3)	37	1	mg/L	1	2/15/2006
РН		E150.1			Analyst: elc
pH	8.98	1.00	pH units	1	2/8/2006
Temperature	23.7	0	deg C	1	2/8/2006
TOTAL DISSOLVED SOLIDS		E160.1			Analyst: elc
Total Dissolved Solids (Residue, Filterable)	98	40	mg/L	1	2/10/2006
TOTAL DISSOLVED SOLIDS		M1030F			Analyst: jem
Total Dissolved Solids (Calculated)	76	5	mg/L	1	2/15/2006

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 2 of 8

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

Off: (505) 327-1072

### AFNA LAY BICASL REPORT

CLIENT:

Souder, Miller & Associates

Work Order:

0602002

Project:

Chevron Yaeger #9/ 5115748

Lab ID:

0602002-002A

Client Sample Info: Yaeger #9

Client Sample ID: Middle

**Collection Date:** 2/1/2006 11:38:00 AM

Matrix: SOIL

DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28 Surr: o-Terphenyl  GASOLINE RANGE ORGANICS T/R Hydrocarbons: C6-C10 Surr: Trifluorotoluene	ND 90.6 ND 107	25.0 47-149	015B 015B	mg/Kg %REC (SW5035	1	Analyst: jem 2/8/2006 2/8/2006
Surr: o-Terphenyl  GASOLINE RANGE ORGANICS  T/R Hydrocarbons: C6-C10	90.6 ND	47-149 <b>SW8</b> 4.50	015B	%REC	1	
GASOLINE RANGE ORGANICS T/R Hydrocarbons: C6-C10	ND	<b>SW8</b> 4.50	015B		·	2/8/2006
T/R Hydrocarbons: C6-C10		4.50	015B	(SW5035		
•					A)	Analyst: jem
Surr: Trifluorotoluene	107	92.5-127		mg/Kg	25	2/9/2006
Cuit. Trindorotoidene				%REC	25	2/9/2006
AROMATIC VOLATILES BY GC/PID		SW8	021B	(SW5035	iA)	Analyst: jem
Benzene	ND	50.0		μg/Kg	25	2/7/2006
Toluene	ND	50.0		μg/Kg	25	2/7/2006
Ethylbenzene	ND	50.0		μg/Kg	25	2/7/2006
m,p-Xylene	ND	100		μg/Kg	25	2/7/2006
o-Xylene	ND	50.0		μg/Kg	25	2/7/2006
Surr: Fluorobenzene	102	80-120		%REC	25	2/7/2006
Surr: 1,4-Difluorobenzene	102	80-120		%REC	25	2/7/2006
Surr: 4-Bromochlorobenzene	105	50-140		%REC	25	2/7/2006
ICP METALS, DISSOLVED		SW6	010B			Analyst: jle
Iron	1.32	0.640		mg/Kg	1	2/10/2006 4:20:48 PM
Magnesium	25.7	0.830		mg/Kg	1	2/10/2006 4:20:48 PM
Calcium	62.4	2.89		mg/Kg	1	2/10/2006 4:20:48 PM
Sodium	257	130		mg/Kg	10	2/10/2006 2:32:39 PM
Potassium	5.47	1.20		mg/Kg	1	2/10/2006 4:20:48 PM
ANIONS BY ION CHROMATOGRAPHY		E3	300	(E300)		Analyst: jle
Chloride	40.4	0.500		ppm	5	2/15/2006
Fluoride	5.44	0.0500		ppm	1	2/9/2006
Nitrogen, Nitrate (As N)	15.2	0.0230	В	ppm	1	2/9/2006
Nitrogen, Nitrite (as N)	< 0.0300	0.0300		ppm	1	2/9/2006
Phosphorus, Dissolved Orthophosphate (As P)	0.340	√0.0330		ppm	1	2/9/2006
Sulfate	275	0.500		ppm	5	2/15/2006
ALKALINITY, TOTAL		M23	20 B			Analyst: elc
Alkalinity, Bicarbonate (As CaCO3)	27	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Carbonate (As CaCO3)	ND	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Total (As CaCO3)	27	5		mg/L CaCO3	1	2/9/2006
CONDUCTIVITY @ 25C		E1:	20.1			Analyst: elc

Qualifiers:

Page 3 of 8

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

iiná bá

**Date:** 15-Feb-06 Off: (505) 368-4065

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 327-1072

### ANALWIFICAL REPORT

Souder, Miller & Associates

Work Order:

0602002

Project:

**CLIENT:** 

Chevron Yaeger #9/ 5115748

Lab ID:

0602002-002A

Client Sample Info: Yaeger #9

Client Sample ID: Middle

Collection Date: 2/1/2006 11:38:00 AM

Matrix: SOIL

Parameter	Result	PQL Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1	<u></u>		Analyst: <b>elc</b>
Specific Conductance	151	2.00	uS/cm	1	2/8/2006
HARDNESS, TOTAL		M2340 B			Analyst: jem
Hardness (As CaCO3)	26	1	mg/L	1	2/15/2006
РН		E150.1			Analyst: elc
pН	8.40	1.00	pH units	1	2/8/2006
Temperature	23.9	0	deg C	1	2/8/2006
TOTAL DISSOLVED SOLIDS		E160.1			Analyst: elc
Total Dissolved Solids (Residue, Filterable)	90	40	mg/L	1	2/10/2006
TOTAL DISSOLVED SOLIDS		M1030F			Analyst: jem
Total Dissolved Solids (Calculated)	85	5	mg/L	1	2/15/2006

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 4 of 8

iiná bá Date: 15-Feb-06 Off: (505) 368-4065

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 327-1072

**CLIENT:** 

Project:

Work Order:

## ANALYTICAL REPORT

0602002

Souder, Miller & Associates

Chevron Yaeger #9/ 5115748

Client Sample Info: Yaeger #9

Client Sample ID: South

Collection Date: 2/1/2006 10:34:00 AM

Lab ID: 0602002-003A				Matri	x: SOIL	
Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8	015B			Analyst: jem
T/R Hydrocarbons: C10-C28	13	25.0	J	mg/Kg	1	2/8/2006
Surr: o-Terphenyl	102	47-149		%REC	1	2/8/2006
GASOLINE RANGE ORGANICS		SW8	015B	(SW5035	5A)	Analyst: jem
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	2/9/2006
Surr: Trifluorotoluene	106	92.5-127		%REC	25	2/9/2006
AROMATIC VOLATILES BY GC/PID		SW8	021B	(SW5035	5A)	Analyst: jem
Benzene	ND	50.0		μg/Kg	25	2/7/2006
Toluene	ND	50.0		μg/Kg	25	2/7/2006
Ethylbenzene	ND	50.0		μg/Kg	25	2/7/2006
m,p-Xylene	ND	100		μg/Kg	25	2/7/2006
o-Xylene	ND	50.0		μg/Kg	25	2/7/2006
Surr: Fluorobenzene	101	80-120		%REC	25	2/7/2006
Surr: 1,4-Difluorobenzene	101	80-120		%REC	25	2/7/2006
Surr: 4-Bromochlorobenzene	103	50-140	·	%REC	25	2/7/2006
ICP METALS, DISSOLVED		SW6	010B			Analyst: jle
Iron	0.657	0.640		mg/Kg	1	2/10/2006 4:29:02 PM
Magnesium	22.8	0.830		mg/Kg	1	2/10/2006 4:29:02 PM
Calcium	63.1	2.89		mg/Kg	1	2/10/2006 4:29:02 PM
Sodium	110	130	J	mg/Kg	10	2/10/2006 2:42:17 PM
Potassium	3.27	1.20		mg/Kg	1	2/10/2006 4:29:02 PM
ANIONS BY ION CHROMATOGRAPHY		E3	00	(E300)		Analyst: jle
Chloride	16.6	0.200		ppm	2	2/15/2006
Fluoride	6.67	0.0500		ppm	1	2/9/2006
Nitrogen, Nitrate (As N)	1.54	0.0230	В	ppm	1	2/9/2006
Nitrogen, Nitrite (as N)	0.100	0.0300		ppm	1	2/9/2006
Phosphorus, Dissolved Orthophosphate (As P)	0.270	<sup>7</sup> 0.0330		ppm	1	2/9/2006
Sulfate	137	0.200		ppm	2	2/15/2006
ALKALINITY, TOTAL		M23	20 B			Analyst: elc
Alkalinity, Bicarbonate (As CaCO3)	23	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Carbonate (As CaCO3)	9	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Total (As CaCO3)	32	5		mg/L CaCO3	1	2/9/2006
CONDUCTIVITY @ 25C		E12	20.1			Analyst: elc

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 5 of 8

iiná bá<sub>Date: 15-Feb-06</sub>

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

Off: (505) 327-1072

## AFNA ENTRICASE REPORT

Souder, Miller & Associates

Work Order:

0602002

Project:

**CLIENT:** 

Chevron Yaeger #9/ 5115748

Lab ID:

0602002-003A

Client Sample Info: Yaeger #9

Client Sample ID: South

Collection Date: 2/1/2006 10:34:00 AM

Matrix: SOIL

Parameter	Result	PQL Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1			Analyst: elc
Specific Conductance	101	2.00	uS/cm	1	2/8/2006
HARDNESS, TOTAL		M2340 B			Analyst: jem
Hardness (As CaCO3)	25	1	mg/L	1	2/15/2006
РН		E150.1			Analyst: elc
рН	8.78	1.00	pH units	1	2/8/2006
Temperature	25.3	0	deg C	1	2/8/2006
TOTAL DISSOLVED SOLIDS		E160.1			Analyst: elc
Total Dissolved Solids (Residue, Filterable)	77	40	mg/L	1	2/10/2006
TOTAL DISSOLVED SOLIDS		M1030F			Analyst: jem
Total Dissolved Solids (Calculated)	55	5	mg/L	1	2/15/2006

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

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#### ANALWFICAL REPORT

Souder, Miller & Associates

Work Order:

0602002

Project:

**CLIENT:** 

Chevron Yaeger #9/ 5115748

Lab ID:

0602002-004A

Client Sample Info: Yaeger #9

Client Sample ID: Background

**Collection Date:** 2/1/2006 10:00:00 AM

Matrix: SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8	015B			Analyst: jem
T/R Hydrocarbons: C10-C28	11	25.0	J	mg/Kg	1	2/8/2006
Surr: o-Terphenyl	82.2	47-149		%REC	1	2/8/2006
GASOLINE RANGE ORGANICS		SW8	015B	(SW5035	5A)	Analyst: jem
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	2/9/2006
Surr: Trifluorotoluene	106	92.5-127		%REC	25	2/9/2006
AROMATIC VOLATILES BY GC/PID		SW8	021B	(SW5035	5A)	Analyst: jem
Benzene	ND	50.0		μg/Kg	25	2/7/2006
Toluene	ND	50.0		μg/Kg	25	2/7/2006
Ethylbenzene	ND	50.0		μg/Kg	25	2/7/2006
m,p-Xylene	ND	100		μg/Kg	25	2/7/2006
o-Xylene	ND	50.0		μg/Kg	25	2/7/2006
Surr: Fluorobenzene	101	80-120		%REC	25	2/7/2006
Surr: 1,4-Difluorobenzene	102	80-120		%REC	25	2/7/2006
Surr: 4-Bromochlorobenzene	96.6	50-140		%REC	25	2/7/2006
ICP METALS, DISSOLVED		SW6	010B			Analyst: jle
Iron	0.45	0.640	J	mg/Kg	1	2/10/2006 4:37:10 PM
Magnesium	25.8	0.830		mg/Kg	1	2/10/2006 4:37:10 PM
Calcium	44.5	2.89		mg/Kg	1	2/10/2006 4:37:10 PM
Sodium	151	130		mg/Kg	10	2/10/2006 2:50:29 PM
Potassium	4.03	1.20		mg/Kg	1	2/10/2006 4:37:10 PM
ANIONS BY ION CHROMATOGRAPHY		E3	00	(E300)		Analyst: jle
Chloride	30.3	0.200		ppm	2	2/15/2006
Fluoride	7.25	0.0500		ppm	1	2/9/2006
Nitrogen, Nitrate (As N)	2.65	0.0230	В	ppm	1	2/9/2006
Nitrogen, Nitrite (as N)	0.170	0.0300		ppm	1	2/9/2006
Phosphorus, Dissolved Orthophosphate (As P)	0.270	√0.0330		ppm	1	2/9/2006
Sulfate	150	0.200		ppm	2	2/15/2006
ALKALINITY, TOTAL		M23	20 B			Analyst: elc
Alkalinity, Bicarbonate (As CaCO3)	24	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Carbonate (As CaCO3)	10	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Hydroxide	ND	5		mg/L CaCO3	1	2/9/2006
Alkalinity, Total (As CaCO3)	34	5		mg/L CaCO3	1	2/9/2006
CONDUCTIVITY @ 25C			20.1			Analyst: elc

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### ANALYTICAL REPORT

Client Sample Info: Yaeger #9

Souder, Miller & Associates

Work Order:

0602002

Project:

**CLIENT:** 

Chevron Yaeger #9/ 5115748

Lab ID:

0602002-004A

Client Sample ID: Background

Collection Date: 2/1/2006 10:00:00 AM

Matrix: SOIL

Parameter	Result	PQL Qual	Units	DF	Date Analyzed
CONDUCTIVITY @ 25C		E120.1			Analyst: elc
Specific Conductance	117	2.00	uS/cm	1	2/8/2006
HARDNESS, TOTAL		M2340 B			Analyst: jem
Hardness (As CaCO3)	22	1	mg/L	1	2/15/2006
РН		E150.1			Analyst: elc
pH	8.96	1.00	pH units	1	2/8/2006
Temperature	24.9	0	deg C	1	2/8/2006
TOTAL DISSOLVED SOLIDS		E160.1			Analyst: elc
Total Dissolved Solids (Residue, Filterable)	83	40	mg/L	1	2/10/2006
TOTAL DISSOLVED SOLIDS		M1030F			Analyst: jem
Total Dissolved Solids (Calculated)	62	5	mg/L	1	2/15/2006

Qualifiers:

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