

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

Form C-144
June 1, 2004

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

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☒

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☒

Operator: Energen Resources Corporation Telephone: 505.325.6800 e-mail address: evdenaghe@energen.com

Address: 2198 Bloomfield Highway - Farmington, NM 87401

Facility or well name: Santa Rosa 30-9-31 #2 API #: 30-045-31856 U/L or Qtr/Qtr O Sec 31 T 30N R 09W

County: San Juan Latitude 36.76305 Longitude 107.81777 NAD: 1927 ☒ 1983 ☐

Surface Owner: Federal ☒ State ☐ Private ☐ Indian ☐

Pit

Type: Drilling ☒ Production ☐ Disposal ☐

Workover ☐ Emergency ☐

Lined ☒ Unlined ☐

Liner type: Synthetic ☒ Thickness 12 mil Clay ☐

Pit Volume 5000 bbl

Below-grade tank

Volume: bbl Type of fluid:

Construction material:

Double-walled, with leak detection? Yes ☐ If not, explain why not.

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet	(20 points)	10
	50 feet or more, but less than 100 feet	(10 points)	
	100 feet or more	(0 points)	
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes	(20 points)	0
	No	(0 points)	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)	0
	200 feet or more, but less than 1000 feet	(10 points)	
	1000 feet or more	(0 points)	
Ranking Score (Total Points)			10

this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☒ offsite ☐ If offsite, name of facility . (3) Attach a general description of remedial action taken including mediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface ft. and attach sample results.) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: See cut & fill diagram in APD.

Energen Resources built a lined pit according to "OCD Pit and Below-grade Tank Guidelines", as issued on November 1, 2004. Energen has closed this pit in accordance with BLM and "OCD Pit and Below-grade Tank Guidelines".

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: 03/23/05

Printed Name/Title Doug Thomas

Signature: [Signature]

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or

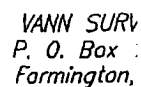
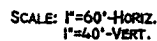
Approval:

Printed Name/Title

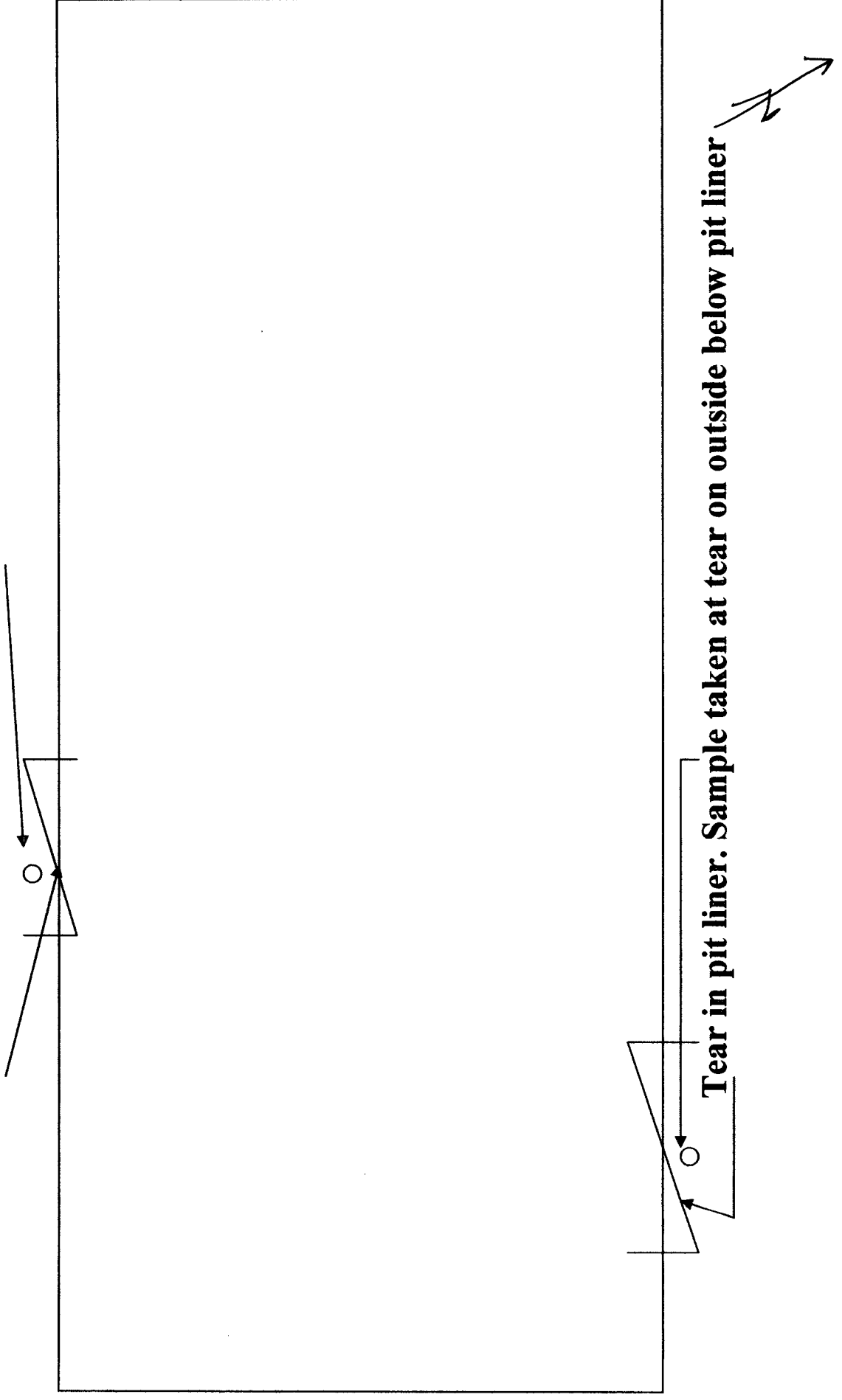
Signature [Signature]

Date:

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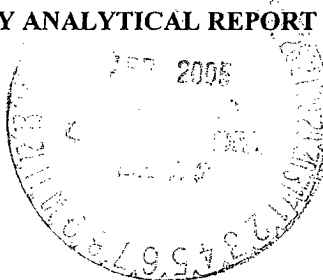
Santa Rosa 30-9-31 #2 Pit sampling diagram
Tear in pit liner. Sample taken at tear on outside below pit liner





LABORATORY ANALYTICAL REPORT

Client: Energen Resources Corp
Project: Santa Rosa Pits
Lab ID: C05030848-003
Client Sample ID: SR 31-2-01-S

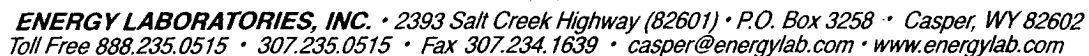


Report Date: 04/08/05
Collection Date: 03/17/05 08:57
Date Received: 03/22/05
Matrix: Soil

Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
AGRONOMIC PROPERTIES							
Conductivity, paste extract	3.36	mmhos/cm		0.01		ASAM10-3	04/01/05 09:00 / lmh
Sodium Adsorption Ratio (SAR)	0.57	unitless		0.01		Calculation	04/05/05 10:32 / sec
Calcium, sat. paste	25	meq/L		0.05		SW6010B	04/04/05 14:36 / ts
Magnesium, sat. paste	5.1	meq/L		0.08		SW6010B	04/04/05 14:36 / ts
Sodium, sat. paste	2.2	meq/L		0.04		SW6010B	04/04/05 14:36 / ts
MAJOR IONS							
Chloride	204	mg/kg		1.00		A4500-Cl B	03/30/05 10:48 / jl
PHYSICAL PROPERTIES							
Moisture	18.3	%		0.1		USDA26	03/23/05 10:14 / jb
METALS - TOTAL							
Arsenic	ND	mg/kg-dry		10		SW6010B	03/31/05 21:20 / cp
Barium	469	mg/kg-dry		200		SW6010B	03/31/05 21:20 / cp
Cadmium	ND	mg/kg-dry		2.0		SW6010B	03/31/05 21:20 / cp
Chromium	ND	mg/kg-dry		10		SW6010B	03/31/05 21:20 / cp
Lead	ND	mg/kg-dry		10		SW6010B	03/31/05 21:20 / cp
Mercury	ND	mg/kg-dry		0.05		SW7471A	03/29/05 09:50 / sml
Selenium	ND	mg/kg-dry		2.0		SW6010B	03/31/05 21:20 / cp
Silver	ND	mg/kg-dry		10		SW6010B	03/31/05 21:20 / cp
METALS - POTENTIAL TCLP							
Arsenic, TCLP equivalent (calc)	ND	mg/L		0.50	5	SW6010B	03/31/05 21:20 / cp
Barium, TCLP equivalent (calc)	23	mg/L		10	100	SW6010B	03/31/05 21:20 / cp
Cadmium, TCLP equivalent (calc)	ND	mg/L		0.10	1	SW6010B	03/31/05 21:20 / cp
Chromium, TCLP equivalent (calc)	ND	mg/L		0.50	5	SW6010B	03/31/05 21:20 / cp
Lead, TCLP equivalent (calc)	ND	mg/L		0.50	5	SW6010B	03/31/05 21:20 / cp
Mercury, TCLP equivalent (calc)	ND	mg/L		0.002	0.2	SW7471A	03/29/05 09:50 / sml
Selenium, TCLP equivalent (calc)	ND	mg/L		0.10	1	SW6010B	03/31/05 21:20 / cp
Silver, TCLP equivalent (calc)	ND	mg/L		0.50	5	SW6010B	03/31/05 21:20 / cp
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	mg/kg		0.050		SW8021B	03/30/05 07:26 / jlr
Ethylbenzene	ND	mg/kg		0.050		SW8021B	03/30/05 07:26 / jlr
m+p-Xylenes	ND	mg/kg		0.10		SW8021B	03/30/05 07:26 / jlr
o-Xylene	ND	mg/kg		0.050		SW8021B	03/30/05 07:26 / jlr
Toluene	ND	mg/kg		0.050		SW8021B	03/30/05 07:26 / jlr
Surr: Trifluorotoluene	90.1	%REC			50-115	SW8021B	03/30/05 07:26 / jlr

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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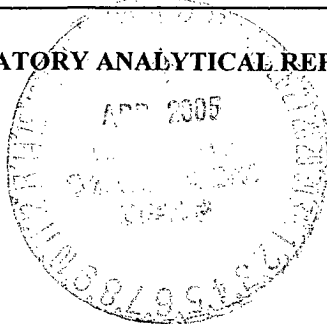
MCL - Maximum contaminant level.
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LABORATORY ANALYTICAL REPORT

Client: Energen Resources Corp
Project: Santa Rosa Pits
Lab ID: C05030848-004
Client Sample ID: SR 31-2-02-N

Report Date: 04/08/05
Collection Date: 03/17/05 09:04
Date Received: 03/22/05
Matrix: Soil



Analyses	Result	Units	Qual	RL	MCL/ QCL	Method	Analysis Date / By
AGRONOMIC PROPERTIES							
Conductivity, paste extract	5.33	mmhos/cm		0.01		ASAM10-3	04/01/05 09:00 / lmh
Sodium Adsorption Ratio (SAR)	6.83	unitless		0.01		Calculation	04/05/05 10:32 / sec
Calcium, sat. paste	23	meq/L		0.05		SW6010B	04/04/05 14:39 / ts
Magnesium, sat. paste	3.1	meq/L		0.08		SW6010B	04/04/05 14:39 / ts
Sodium, sat. paste	25	meq/L		0.04		SW6010B	04/04/05 14:39 / ts
MAJOR IONS							
Chloride	641	mg/kg		1.00		A4500-Cl B	03/30/05 10:56 / jl
PHYSICAL PROPERTIES							
Moisture	12.0	%		0.1		USDA26	03/23/05 10:14 / jb
METALS - TOTAL							
Arsenic	ND	mg/kg-dry		10		SW6010B	03/31/05 21:23 / cp
Barium	ND	mg/kg-dry		200		SW6010B	03/31/05 21:23 / cp
Cadmium	ND	mg/kg-dry		2.0		SW6010B	03/31/05 21:23 / cp
Chromium	ND	mg/kg-dry		10		SW6010B	03/31/05 21:23 / cp
Lead	ND	mg/kg-dry		10		SW6010B	03/31/05 21:23 / cp
Mercury	ND	mg/kg-dry		0.05		SW7471A	03/29/05 09:52 / sml
Selenium	ND	mg/kg-dry		2.0		SW6010B	03/31/05 21:23 / cp
Silver	ND	mg/kg-dry		10		SW6010B	03/31/05 21:23 / cp
METALS - POTENTIAL TCLP							
Arsenic, TCLP equivalent (calc)	ND	mg/L		0.50	5	SW6010B	03/31/05 21:23 / cp
Barium, TCLP equivalent (calc)	ND	mg/L		10	100	SW6010B	03/31/05 21:23 / cp
Cadmium, TCLP equivalent (calc)	ND	mg/L		0.10	1	SW6010B	03/31/05 21:23 / cp
Chromium, TCLP equivalent (calc)	ND	mg/L		0.50	5	SW6010B	03/31/05 21:23 / cp
Lead, TCLP equivalent (calc)	ND	mg/L		0.50	5	SW6010B	03/31/05 21:23 / cp
Mercury, TCLP equivalent (calc)	ND	mg/L		0.002	0.2	SW7471A	03/29/05 09:52 / sml
Selenium, TCLP equivalent (calc)	ND	mg/L		0.10	1	SW6010B	03/31/05 21:23 / cp
Silver, TCLP equivalent (calc)	ND	mg/L		0.50	5	SW6010B	03/31/05 21:23 / cp
VOLATILE ORGANIC COMPOUNDS							
Benzene	ND	mg/kg		0.050		SW8021B	03/30/05 08:04 / jlr
Ethylbenzene	ND	mg/kg		0.050		SW8021B	03/30/05 08:04 / jlr
m+p-Xylenes	ND	mg/kg		0.10		SW8021B	03/30/05 08:04 / jlr
o-Xylene	ND	mg/kg		0.050		SW8021B	03/30/05 08:04 / jlr
Toluene	ND	mg/kg		0.050		SW8021B	03/30/05 08:04 / jlr
Surr: Trifluorotoluene	90.9	%REC			50-115	SW8021B	03/30/05 08:04 / jlr

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Project: Santa Rosa Pits
Lab ID: C05030848-004
Client Sample ID: SR 31-2-02-N

Report Date: 04/08/05
Collection Date: 03/17/05 09:04
Date Received: 03/22/05
Matrix: Soil

Analyses	Result	Units	Qual	MCL/		Method	Analysis Date / By
				RL	QCL		
ORGANIC CHARACTERISTICS							
Total Extractable Hydrocarbons	ND	mg/kg		10.0		SW8015M as D	03/25/05 00:20 / bah
Surr: o-Terphenyl	101	%REC			60-130	SW8015M as D	03/25/05 00:20 / bah
EXCHANGEABLE SODIUM PERCENTAGE							
Exchangeable Sodium Percentage (ESP)	8.1	%		0.1		Calculation	04/08/05 12:36 / sec



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