

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

Form C-144  
June 1, 2004  
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: MURCHISON OIL AND GAS, INC.

Telephone: 505-628-3932

e-mail address tommyfolsom@valornet.com

Address: 1100 Mira Vista Blvd., Plano, TX 75093-4698

Facility or well name: Rio State No. 4 API #: 30-015-34653 U/L A Sec 36 T18S R24E 990' FNL and 660' FEL

County: Eddy Latitude N Longitude W NAD: 1927 ☐ 1983 ☐

Surface Owner State X

DEC 18 2007  
OCD-ARTESIA

<b>Pit</b> Type: Drilling X Lined X Liner type: Synthetic X Thickness: 12ml HDPE Liner Pit Volume: 2000 bbl. (Approximately)	<b>Below-grade tank</b> N/A Volume: N/A bbl Type of fluid: N/A Construction material: N/A Double-walled, with leak detection? <input type="checkbox"/> If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of groundwater.) Yates applied to drill a well in S36 in 2/93 but no water information exists. All other data shows approximately 300' to groundwater.	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points) 0 pts.
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No X	(20 points) (0 points) 0 pts.
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points) 0 pts.
<b>Ranking Score (Total Points)</b>		<b>0 pts.</b>

If 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: Insitu If offsite, name of facility: N/A (4) Groundwater encountered: No X 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 excavations.

Additional Comments: NOTICE OF FINAL CLOSURE OF DRILLING PIT ON AUGUST 27, 2007.

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 X, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date 15 December 2007

Printed Name/Title: Tommy W. Folsom, Production Manager

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 groundwater 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 regulations.

Approval:

Printed Name/Title:

Signature

Accepted for record  
NMOCD

Date: DEC 18 2007

## Summary Report

Cheryl Winkler  
Murchison Oil & Gas Inc.  
P.O. Box 627  
Carlsbad, NM, 88220

Report Date: August 16, 2007

Work Order: 7081618



Project Location: Final Analysis for Orig. pit at 20'  
Project Name: Rio State #4

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
133369	N Wall & Floor	soil	2007-08-14	16:00	2007-08-16
133370	S Wall & Floor	soil	2007-08-14	16:40	2007-08-16
133371	E Wall & Floor	soil	2007-08-14	17:10	2007-08-16
133372	W Wall & Floor	soil	2007-08-14	17:50	2007-08-16

**Sample: 133369 - N Wall & Floor**

Param	Flag	Result	Units	RL
Chloride		218	mg/Kg	5.00

**Sample: 133370 - S Wall & Floor**

Param	Flag	Result	Units	RL
Chloride		197	mg/Kg	5.00

**Sample: 133371 - E Wall & Floor**

Param	Flag	Result	Units	RL
Chloride		207	mg/Kg	5.00

**Sample: 133372 - W Wall & Floor**

Param	Flag	Result	Units	RL
Chloride		215	mg/Kg	5.00

## Summary Report

Cheryl Winkler  
Murchison Oil & Gas Inc.  
P.O. Box 627  
Carlsbad, NM, 88220

Report Date: June 26, 2007

Work Order: 7062606



Project Name: Rio State #4 Pit 2 &amp; Original Pit

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
128557	N Wall & Floor Comp	soil	2007-06-25	07:00	2007-06-26
128558	S Wall & Floor Comp	soil	2007-06-25	07:10	2007-06-26
128559	E Wall & Floor Comp	soil	2007-06-25	07:15	2007-06-26
128560	W Wall & Floor Comp	soil	2007-06-25	07:20	2007-06-26
128561	SE Original Pit Comp	soil	2007-06-25	07:30	2007-06-26
128562	NE Original Pit Comp	soil	2007-06-25	07:35	2007-06-26
128563	S Original Pit Comp	soil	2007-06-25	07:40	2007-06-26

**Sample: 128557 - N Wall & Floor Comp**

Param	Flag	Result	Units	RL
Chloride		<b>65.2</b>	mg/Kg	5.00

**Sample: 128558 - S Wall & Floor Comp**

Param	Flag	Result	Units	RL
Chloride		<b>73.9</b>	mg/Kg	5.00

**Sample: 128559 - E Wall & Floor Comp**

Param	Flag	Result	Units	RL
Chloride		<b>116</b>	mg/Kg	5.00

**Sample: 128560 - W Wall & Floor Comp**

Param	Flag	Result	Units	RL
Chloride		<b>470</b>	mg/Kg	5.00

**Sample: 128561 - SE Original Pit Comp**

Param	Flag	Result	Units	RL
Chloride		<b>3630</b>	mg/Kg	5.00

**Sample: 128562 - NE Original Pit Comp**

Param	Flag	Result	Units	RL
Chloride		<b>3140</b>	mg/Kg	5.00

**Sample: 128563 - S Original Pit Comp**

Param	Flag	Result	Units	RL
Chloride		<b>4930</b>	mg/Kg	5.00

## Summary Report

Cheryl Winkler  
Murchison Oil & Gas Inc.  
P.O. Box 627  
Carlsbad, NM, 88220

Report Date: June 14, 2007

Work Order: 7061419



Project Location: Insitu pit outside of active pit  
Project Name: Rio State #4

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
127374	SW Background	soil	2007-06-13	06:30	2007-06-14
127375	NE Background	soil	2007-06-13	06:40	2007-06-14
127376	N 1/4 Wall & Floor Comp	soil	2007-06-13	07:00	2007-06-14
127377	S 1/4 Wall & Floor Comp	soil	2007-06-13	07:10	2007-06-14
127378	E 1/4 Wall & Floor Comp	soil	2007-06-13	07:20	2007-06-14
127379	W 1/4 Wall & Floor Comp	soil	2007-06-13	07:40	2007-06-14

### Sample: 127374 - SW Background

Param	Flag	Result	Units	RL
Chloride		76.9	mg/Kg	5.00

### Sample: 127375 - NE Background

Param	Flag	Result	Units	RL
Chloride		70.6	mg/Kg	5.00

### Sample: 127376 - N 1/4 Wall & Floor Comp

Param	Flag	Result	Units	RL
Chloride		176	mg/Kg	5.00

### Sample: 127377 - S 1/4 Wall & Floor Comp

Param	Flag	Result	Units	RL
Chloride		82.4	mg/Kg	5.00

### Sample: 127378 - E 1/4 Wall & Floor Comp

Report Date: June 14, 2007

Work Order: 7061419

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Rio State #4

Insitu pit outside of active pit

Param	Flag	Result	Units	RL
Chloride		<b>141</b>	mg/Kg	5.00

**Sample: 127379 - W 1/4 Wall & Floor Comp**

Param	Flag	Result	Units	RL
Chloride		<b>92.2</b>	mg/Kg	5.00