

Robin Terrell
Mewbourne Oil Company
PO Box 5270
Hobbs, New Mexico 88241

December 30, 2007

Mike Bratcher
NMOCD District 2 Office
1301 W. Grand
Artesia, New Mexico 88210

RE: Empire 20 State 004 - Final Pit Closure

Empire 20 State 004
API: 30-015-35873
Sec 20-T17S-R29E
1650' FNL & 2310' FWL

Depth to Ground Water: 75'
Planned Analytical Testing: Chlorides
Site Ranking Score:
Primary Land Use: Ranching and Oil & Gas Production

OLD

JAN 31 2008
OCD-ARTESIA

Accepted for record
NMOCD

FEB 04 2008

Pursuant to Pit Rule 50 of the New Mexico Oil Conservation District of the State of New Mexico regulatory requirement for pit closure, please accept the following documentation for final closure of the drilling pit for the aforementioned location.

An Insitu burial trench was excavated and lined with 12mil liner. All drill cuttings were stiffened and transferred to the lined Insitu trench. Upon transferring all pit contents to the lined burial trench, field tests were performed on the soil within in the confines of the original drill pit. The field results of chloride delineation of the impacted material are as follows (a diagram has also been attached):

Q1	100 mg/Kg @ 8'	Q2	100 mg/kg @ 8'	Q3	100 mg/kg @ 8'
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After field tests were performed, Mike Bratcher of the New Mexico Oil Conservation Division (NMOCD) was contacted. Approval for closure was granted with no stipulations:

Pursuant to NMOCD Pit Rule 50, a 20mil liner was placed on top of the Insitu trench to seal in the impacted soils and the stiffened drill cuttings. The pit area was backfilled with clean native material and contoured to the surrounding terrain.

Soil samples were collected, prepared and packaged per EPA guidelines and forwarded to Trace Analysis in Lubbock, Texas for official analytical testing. Please find the official analytical results attached hereto.

Please review the attached documentation and contact me at 505-393-5905 with any questions or concerns.

Sincerely,



Robin Terrell
Production Engineer

/sjt

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 NMOC 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: <u>MEWBORNE Oil</u> Telephone: <u>505 393-5905</u> e-mail address: _____		
Address: <u>701 Cecil Hobbs NM 88240</u>		
Facility or well name: <u>EMPIRE "20" #4</u> API #: <u>30-015-35873</u> U/L or Qtr/Qtr _____ Sec <u>20</u> T <u>17S</u> R <u>29E</u>		
County: <u>EDDY COUNTY NM</u> Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☐		
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐		
Pit Type: Drilling ☐ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☐ Liner type: Synthetic ☐ Thickness _____ mil Clay ☐ Pit Volume _____ 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 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (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 No	(20 points) (0 points)
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)
Ranking Score (Total Points)		<u>300'</u> <u>0</u>

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 (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 remediation start date and end date. (4) Groundwater encountered: No ☐ 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: <u>CONTENTS OF RESERVE PIT WILL BE DEEP BURIED USING 12 MIL LINER & CAPPEX WITH 20 MIL. PIT WILL BE TESTED FOR CHLORIDES & CLEAN AT 250 PPM.</u>

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

Date: 12/18/07

Printed Name/Title: ER TAYLOR

Signature: ER TAYLOR

Your certification and NMOC District 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 regulations.

Approval:

Printed Name/Title: _____

Signature: _____

Signed By Mike Benavente

Date: DEC 19 2007

NOTIFY OCD 24 HOURS PRIOR to beginning closure and 24 HOURS PRIOR to obtaining samples. Samples are to be obtained from pit area and analyses submitted to OCD prior to back-filling.

If burial trench is to be constructed in pit area, samples are to be obtained and analyses submitted to OCD PRIOR to lining trench.

Summary Report

Robin Terrell
Mewbourne Oil Company
P. O. Box 5270
Hobbs, NM, 88220

Report Date: January 11, 2008

Work Order: 8010904



Project Location: Sec 20,T17S,R29E/Eddy County, NM
Project Name: Empire 20 State 04
Project Number: API 30-015-35873

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
147225	Q1-8' comp	soil	2007-12-28	14:00	2008-01-08
147226	Q2-8' comp	soil	2007-12-28	14:15	2008-01-08
147227	Q3-8' comp	soil	2007-12-28	14:30	2008-01-08

Sample: 147225 - Q1-8' comp

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 147226 - Q2-8' comp

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

Sample: 147227 - Q3-8' comp

Param	Flag	Result	Units	RL
Chloride		<100	mg/Kg	2.00

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
200 East Sunset Road, Suite E
5002 Basin Street, Suite A1
8808 Camp Bowie Blvd West, Suite 180

Lubbock, Texas 79424
El Paso, Texas 79922
Midland, Texas 79703
Ft Worth, Texas 76116

E-Mail lab@traceanalysis.com

800•378•1296
888•588•3443

806•794•1296
915•585•3443
432•689•6301
817•201•5260

FAX 806•794•1298
FAX 915•585•4944
FAX 432•689•6313
FAX 817•560•4336

Analytical and Quality Control Report

Robin Terrell
Mewbourne Oil Company
P O. Box 5270
Hobbs, NM, 88220

Report Date: January 11, 2008

Work Order: 8010904



Project Location: Sec 20,T17S.R29E/Eddy County, NM
Project Name: Empire 20 State 04
Project Number: API 30-015-35873

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
147225	Q1-8' comp	soil	2007-12-28	14:00	2008-01-08
147226	Q2-8' comp	soil	2007-12-28	14:15	2008-01-08
147227	Q3-8' comp	soil	2007-12-28	14:30	2008-01-08

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 4 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Empire 20 State 04 were received by TraceAnalysis, Inc. on 2008-01-08 and assigned to work order 8010904. Samples for work order 8010904 were received intact at a temperature of 4.0 deg C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
Chloride (Titration)	SM 4500-Cl B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8010904 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 147225 - Q1-8' comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	44557	Date Analyzed:	2008-01-10	Analyzed By:	AR
Prep Batch:	38373	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 147226 - Q2-8' comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	44557	Date Analyzed:	2008-01-10	Analyzed By:	AR
Prep Batch:	38373	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Sample: 147227 - Q3-8' comp

Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	44557	Date Analyzed:	2008-01-10	Analyzed By:	AR
Prep Batch:	38373	Sample Preparation:		Prepared By:	AR

Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		<100	mg/Kg	50	2.00

Method Blank (1) QC Batch: 44557

QC Batch:	44557	Date Analyzed:	2008-01-10	Analyzed By:	AR
Prep Batch:	38373	QC Preparation:	2008-01-10	Prepared By:	AR

Parameter	Flag	MDL Result	Units	RL
Chloride		<0.500	mg/Kg	2

Laboratory Control Spike (LCS-1)

QC Batch:	44557	Date Analyzed:	2008-01-10	Analyzed By:	AR
Prep Batch:	38373	QC Preparation:	2008-01-10	Prepared By:	AR

Param	LCS Result	Units	Dil	Spike Amount	Matrix Result	Rec	Rec Limit
Chloride	98.8	mg/Kg	1	100	<0.500	99	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil	Spike Amount	Matrix Result	Rec	Rec. Limit	RPD	RPD Limit
Chloride	99.8	mg/Kg	1	100	<0.500	100	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 147232

QC Batch 44557
Prep. Batch 38373

Date Analyzed: 2008-01-10
QC Preparation: 2008-01-10

Analyzed By: AR
Prepared By: AR

Param	MS Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec Limit
Chloride	4800	mg/Kg	50	5000	<25.0	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil	Spike Amount	Matrix Result	Rec.	Rec Limit	RPD	RPD Limit
Chloride	4850	mg/Kg	50	5000	<25.0	97	85 - 115	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch 44557

Date Analyzed 2008-01-10

Analyzed By: AR

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	99.3	99	85 - 115	2008-01-10

Standard (CCV-1)

QC Batch 44557

Date Analyzed 2008-01-10

Analyzed By: AR

Param	Flag	Units	CCVs True Conc	CCVs Found Conc	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/Kg	100	101	101	85 - 115	2008-01-10

8010904

LAB Order ID #

Page 1 of 1

TraceAnalysis, Inc.

email lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1296
1 (800) 378-1296

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

8808 Camp Bowie Blvd, West, Suite 180
Ft. Worth, Texas 76116
Tel (817) 201-5260
Fax (817) 560-4336

Company Name:

Maintenance Oil Company

Address: (Street, City, Zip)

PO Box 5210 Lubbock, NM 88400

Contact Person:

Kevin Farrell

E-mail:

rtorrell@earthlink.net

Invoice to:

(If different from above)

Project #:

AP01 20-015-2587B

Project Location (including state):

200 TIS, R29E Eddy County, NM

Project Name:

Empire 20 State Oil

Sampler Signature:

Shelly Duckert

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX			PRESERVATIVE					SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	DATE	TIME
147225	Q1-8' Comp	1		X									12/28/14	1400
223	Q2-8' Comp	1		X									12/28/14	1415
227	Q3-8' Comp	1		X									12/28/14	1430

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B / 802 / 8260B / 624	
BTEX 3021B / 302 / 8260B / 624	
TPH 418.1 / TX1005 / TX1005 Ext(C35)	
TPH 8015 GRO / DFO / TVHC	
PAH 3270C / 625	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/2007	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Sem Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Sem. Vol. 8270C / 625	
PCBs 8082 / 508	
Pesticides 8081A / 508	
BOD TSS pH	
Moisture Content	

REMARKS:
all tests - Midland

LAB USE ONLY

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:
Shelly Duckert		01/08/08	17:20	Shelly Duckert		11/08/08	17:20
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C O C

ORIGINAL COPY

Carrier # any in





