

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

Final Report

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>Oxy USA</u> Telephone: <u>505-887-8337</u> e-mail address: <u>rick_kerby@oxy.com</u>		
Address: <u>P. O. Box 1988 Carlsbad, NM 88221</u>		
Facility or well name: <u>Merland C Com #1</u> API #: <u>30-015-20797</u> U/L or Qtr/Qtr <u>F</u> Sec <u>19</u> T <u>22S</u> R <u>27E</u>		
County: <u>Eddy</u> Latitude _____ Longitude _____ NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/>		
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input checked="" type="checkbox"/> Indian <input type="checkbox"/>		
Pit Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Below-grade tank Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) GW = 87'	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) XXX (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) XXX
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) XXX
Ranking Score (Total Points)		10 points

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: Contents of the historic drilling pit were excavated. All material was placed in three deep bury trenches lined with a 12 mil liner. All burial pits were capped with a 20 mil liner a minimum of 3' below ground surface and overlapping 3' in all directions then backfilled. A 20 mil impervious liner was installed at 4' below ground surface to cap the contamination below the historic drilling pit. The cap was domed to prevent any further migration of the chloride contaminated soil. Clean soil was backfilled and contoured to the surrounding area, then seeded with a landowner approved seed mixture.

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: _____
Printed Name/Title Rick Kerby Signature Rick Kerby 3-20-08
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 regulations.

Approval: _____
Printed Name/Title _____ Signature Accepted for record
NMOCD Date: MAR 25 2008

Closure Report

MAR 24 2008
OCD-ARTESIA

Prepared for
Oxy USA

Merland C Com #1
API # 30-015-20797
Eddy County, NM

Prepared by
Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768
Phone (432) 366-0043 Fax (432) 366-0884

Elke Environmental, Inc.

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Phone (432) 366-0043 Fax (432) 366-0884

MAR 24 2008
OCD-ARTESIA

March 17, 2008

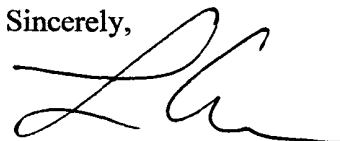
New Mexico Oil Conservation Division
Mr. Mike Bratcher
1301 West Grand Ave.
Artesia, New Mexico 88210

Re: Drilling Pit Closure of Oxy USA – Merland C Com #1
UL'F' Sec. 19 T22S R27E Eddy County
API# 30-015-20797

Mr. Mike Bratcher,

Elke Environmental was contracted by Oxy USA to complete the closure of the Merland C Com #1 historical drilling pit. As per the C-144 filed and signed by Mike Bratcher on 2-5-08 three burial pits were constructed and lined with a 12 mil liner. The historic drilling pit was excavated and placed in the burial pits. The burial pits were capped with a 20 mil liner overlapping 3' in all directions then backfilled with clean native soil. The impacted soil beneath the old drilling pit was sampled and analyzed to delineate the depths of contamination with lab samples taken from the deepest points for confirmation. After the historic drilling pit was removed a 20 mil impervious liner was installed a 4' below ground surface to cap the chloride impacted soil below and prevent any further migration of the chlorides. The historic drilling pit area was then backfilled with clean native soil and domed to prevent pooling. The caliche location was removed and hauled to a nearby caliche pit. The entire site was seeded with a seed mixture approved by the landowner. If you have any questions about the enclosed report please contact me at the office.

Sincerely,



Logan Anderson

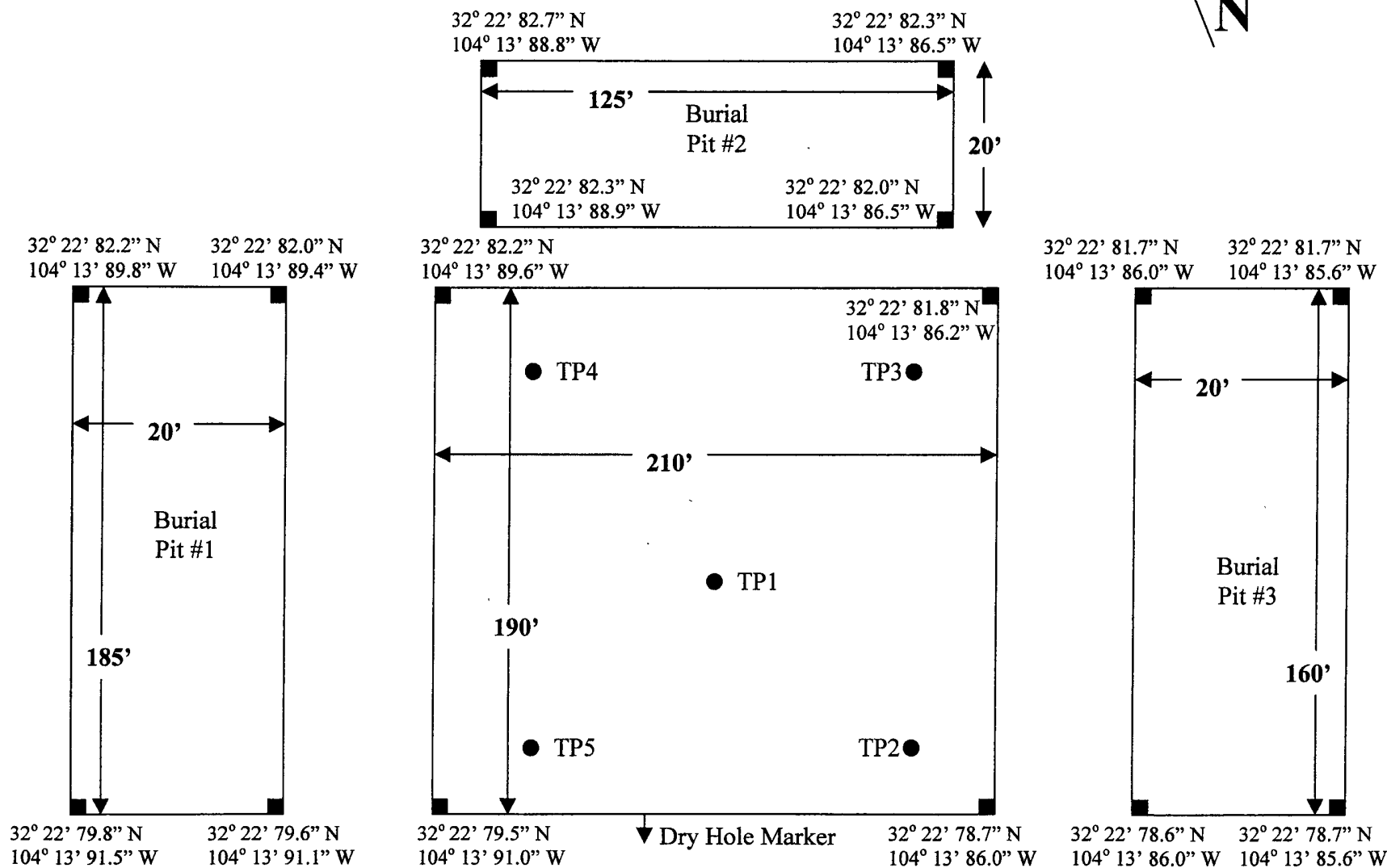
Oxy USA

Merland C Com #1

UL 'F' Sec. 19 T22S R27E

Eddy County, NM

Plat Map



Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form**Client** Oxy USA **Analyst** Jason Jessup**Site** Merland C Com #1

Sample ID	Date	Depth	TPH / PPM	CI / PPM	PID / PPM	GPS
TP1	11-14-07	3'		5,133		32° 22' 79.9" N 104° 13' 87.5" W
TP1	11-14-07	5'		2,959		32° 22' 79.9" N 104° 13' 87.5" W
TP1	11-14-07	10'		2,769		32° 22' 79.9" N 104° 13' 87.5" W
TP1	11-14-07	15'		151	4.7	32° 22' 79.9" N 104° 13' 87.5" W
TP2	11-14-07	3'		2,352		32° 22' 79.2" N 104° 13' 87.0" W
TP2	11-14-07	5'		2,646		32° 22' 79.2" N 104° 13' 87.0" W
TP2	11-14-07	15'		2,499		32° 22' 79.2" N 104° 13' 87.0" W
TP2	1-31-08	20'		1,644		32° 22' 79.2" N 104° 13' 87.0" W
TP2	1-31-08	25'		915		32° 22' 79.2" N 104° 13' 87.0" W
TP2	1-31-08	30'		1,186		32° 22' 79.2" N 104° 13' 87.0" W
TP2	1-31-08	35'		461		32° 22' 79.2" N 104° 13' 87.0" W
TP2	1-31-08	40'		249	6.9	32° 22' 79.2" N 104° 13' 87.0" W
TP3	11-14-07	3'		2,732		32° 22' 81.0" N 104° 13' 86.3" W
TP3	11-14-07	5'		2,533		32° 22' 81.0" N 104° 13' 86.3" W
TP3	11-14-07	15'		299	13.1	32° 22' 81.0" N 104° 13' 86.3" W
TP4	11-14-07	3'		4,484		32° 22' 81.9" N 104° 13' 88.6" W
TP4	11-14-07	5'		3,274		32° 22' 81.9" N 104° 13' 88.6" W
TP4	11-14-07	15'		173	6.7	32° 22' 81.9" N 104° 13' 88.6" W

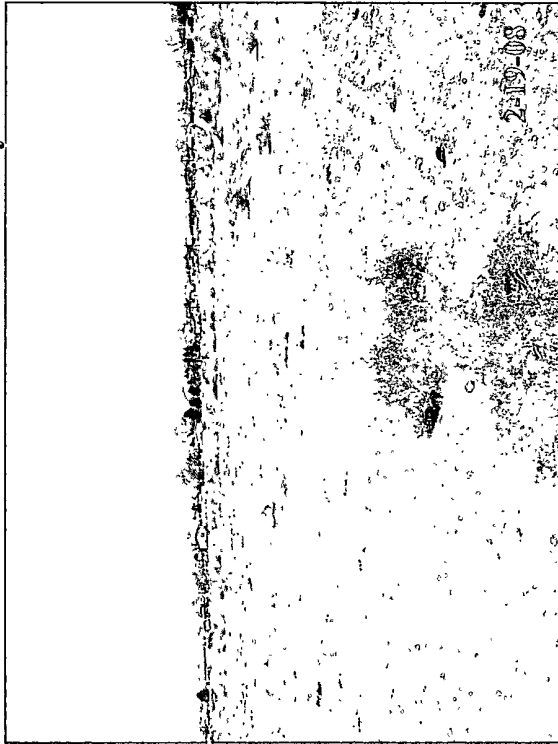
P.O. Box 14167 Odessa, TX 79768

Client Oxy USA **Analyst** Jason Jessup

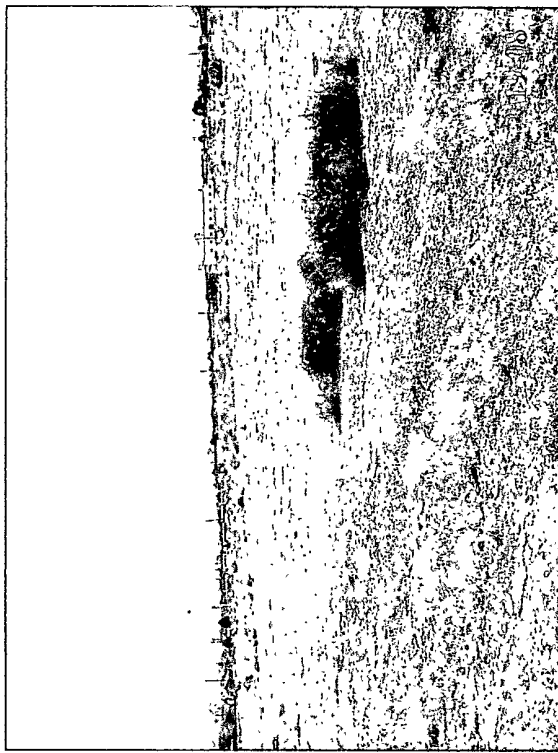
Site Merland C Com #1

[illegible]

Oxy USA - Merland C Com #1



Historic drilling pit before closure.



Historic drilling pit before closure.



Burial pit #3 after excavation.



Burial pit #3 after 12 mil liner installation.

Oxy USA - Merland C Com #1



2-29-08

Burial pit #2 after excavation.



Burial pit #2 after 12 mil liner installation.



Burial pit #1 after installation of a 20 mil cap.



Burial pit #3 after installation of a 20 mil cap.

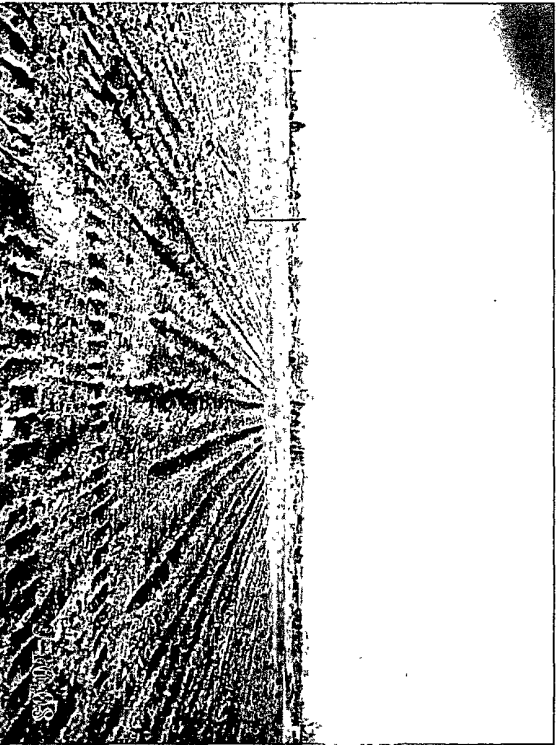
Oxy USA – Merland C Com #1



After excavation of historic drilling pit.



After installation of a 20 mil cap over impacted soil.



Site after backfill of clean soil and contouring.



Seeding site with seed mixture approved by landowner.

WHITE DRILLING COMPANY, INC.
ENVIRONMENTAL/GEOTECHNICAL DAILY DRILLING SHEET

Page 1 of 2

Client: Elke Environmental/Rob Spangler

Project: Merland-C Com #1			Date Started: 11/14/07	Well No.: SB-1
Project Address: Sect. 19, TS-22S, R-27E State/City/Zip: Eddy Co., New Mexico			Date Completed: 11/14/07	Total Depth: 15.0'
Well Owner: OXY			Driller: Joe Blackburn	Hole Diameter: 6 1/4"
Owner Address: State/City/Zip:			Driller's Helpers: Wayland Arnold/Chris Spinks	Logged By: Joe Blackburn
WELL COMPLETION DATA			WELL PLUGGING DATA	
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft):	Total Casing Pulled (ft):
Screen Depth:	Sand Feet/Bags: /	Sand Size:	Bentonite Feet/bags: 15.0 - 10.0 / 1.5	Cement Feet/Bags: 10.0 - 0.0 / 3.0
Riser Depth:	Bentonite Feet/Bags: /	Cement Feet/Bags: /	<div> <div> GPS: 32-22-48.0 104-13-52.8 </div> <div> Total Disposal Drums: </div> </div>	
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags: /	Water Level: Dry <div> <input checked="" type="checkbox"/> Clean <input type="checkbox"/> Dirty </div>	

[illegible]

WHITE DRILLING COMPANY, INC.
ENVIRONMENTAL/GEOTECHNICAL DAILY DRILLING SHEET

Page 1 of 2

Client: Elke Environmental/Rob Spangler

Project: Merland-C Com #1			Date Started: 11/14/07	Well No.: SB-2
Project Address: Sect. 19, TS-22S, R-27E State/City/Zip: Eddy Co., New Mexico			Date Completed: 11/14/07	Total Depth: 15.0'
Well Owner: OXY			Driller: Joe Blackburn <i>John White</i>	Hole Diameter: 6 1/4"
Owner Address: State/City/Zip:			Driller's Helpers: Wayland Arnold/Chris Spinks	Logged By: Joe Blackburn
WELL COMPLETION DATA			WELL PLUGGING DATA	
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft):	Total Casing Pulled (ft):
Screen Depth:	Sand Feet/Bags: /	Sand Size:	Bentonite Feet/bags: 15.0 - 10.0 / 1.5	Cement Feet/Bags: 10.0 - 0.0 / 3.0
Riser Depth:	Bentonite Feet/Bags: /	Cement Feet/Bags: /	GPS: 32-22-47.5 104-13-52.2	
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags: /	Total Disposal Drums:	
			Water Level: Dry	<input checked="" type="checkbox"/> Clean <input type="checkbox"/> Dirty

[illegible]

WHITE DRILLING COMPANY, INC.
ENVIRONMENTAL/GEOTECHNICAL DAILY DRILLING SHEET

Page 1 of 2

Client: Elke Environmental/Rob Spangler

Project: Merland-C Com #1			Date Started: 11/14/07	Well No.: SB-3
Project Address: Sect. 19, TS-22S, R-27E State/City/Zip: Eddy Co., New Mexico			Date Completed: 11/14/07	Total Depth: 15.0'
Well Owner: OXY			Driller: Joe Blackburn John White	Hole Diameter: 6 1/4"
Owner Address: State/City/Zip:			Driller's Helpers: Wayland Arnold/Chris Spinks	Logged By: Joe Blackburn
WELL COMPLETION DATA			WELL PLUGGING DATA	
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft):	Total Casing Pulled (ft):
Screen Depth:	Sand Feet/Bags: /	Sand Size:	Bentonite Feet/bags: 15.0 - 10.0 / 1.5	Cement Feet/Bags: 10.0 - 0.0 / 3.0
Riser Depth:	Bentonite Feet/Bags: /	Cement Feet/Bags: /	<div> GPS: 32-22-48.7 104-13-51.8 </div>	
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags: /	<div> Water Level: Dry <div> <input checked="" type="checkbox"/> Clean <input type="checkbox"/> Dirty </div> </div>	

[illegible]

Page 1 of 2

Project: Merland-C Com #1			Date Started: 11/14/07	Well No.: SB-4
Project Address: Sect. 19, TS-22S, R-27E State/City/Zip: Eddy Co., New Mexico			Date Completed: 11/14/07	Total Depth: 15.0'
Well Owner: OXY			Driller: Joe Blackburn John White	Hole Diameter: 6 1/4"
Owner Address: State/City/Zip:			Driller's Helpers: Wayland Arnold/Chris Spinks	Logged By: Joe Blackburn
WELL COMPLETION DATA			WELL PLUGGING DATA	
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft):	Total Casing Pulled (ft):
Screen Depth:	Sand Feet/Bags: /	Sand Size:	Bentonite Feet/bags: 15.0 - 10.0 / 1.5	Cement Feet/Bags: 10.0 - 0.0 / 3.0
Riser Depth:	Bentonite Feet/Bags: /	Cement Feet/Bags: /	Total Disposal Drums:	
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags: /	GPS: 32-22-49.1 104-13-53.1	
			Water Level: Dry	<input checked="" type="checkbox"/> Clean <input type="checkbox"/> Dirty

[illegible]

WHITE DRILLING COMPANY, INC.
ENVIRONMENTAL/GEOTECHNICAL DAILY DRILLING SHEET

Page 1 of 2

Client: Elke Environmental/Rob Spangler

Project: Merland-C Com #1			Date Started: 11/14/07	Well No.: SB-5
Project Address: Sect. 19, TS-22S, R-27E State/City/Zip: Eddy Co., New Mexico			Date Completed: 11/14/07	Total Depth: 15.0'
Well Owner: OXY			Driller: Joe Blackburn John White	Hole Diameter: 6 1/4"
Owner Address: State/City/Zip:			Driller's Helpers: Wayland Arnold/Chris Spinks	Logged By: Joe Blackburn
WELL COMPLETION DATA			WELL PLUGGING DATA	
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft):	Total Casing Pulled (ft):
Screen Depth:	Sand Feet/Bags: /	Sand Size:	Bentonite Feet/bags: 15.0 - 10.0 / 1.5	Cement Feet/Bags: 10.0 - 0.0 / 3.0
Riser Depth:	Bentonite Feet/Bags: /	Cement Feet/Bags: /	Total Disposal Drums:	
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags: /	GPS: 32-22-48.9 104-13-53.9	
			Water Level: Dry	<input checked="" type="checkbox"/> Clean <input type="checkbox"/> Dirty

[illegible]

File Number: _____

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD**

1. OWNER OF WELL

Name: OXY USA Work Phone: _____
Contact: _____ Home Phone: _____
Address: 1017 W. Stanolind Rd.
City: Hobbs State: NM Zip: 88240

2. LOCATION OF WELL (A,B,C, or D required, E or F if known)

A. 1/4 1/4 1/4 Section: 19 Township: 22S Range: 27E N.M.P.M.
in Eddy County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 22 m 47.2 s Longitude: 104 d 13 m 52.1 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Merland Company

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD: Merland C Com #1 TP-2

Drilling began: 01/31/08; Completed: 01/31/08; Type tools: Air Rotary;
Size of hole: 6 1/8 in.; Total depth of well: 40.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: Dry ft.

File Number: _____ Trn Number: _____
Form: wr-20 page 1 of 4

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: Merland C Com #1 TP-2

Depth in Feet		Thickness	Description of	Estimated Yield
From	To	in feet	water-bearing formation	(GPM)
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole	Sacks	Cubic Feet	Method of Placement
From	To	Diameter	of mud	of Cement	
40.0	10.0	6 1/8	8.0		Bentonite Pellets
10.0	0.0	6 1/8	5.0	1.997	Cement
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

8. PLUGGING RECORD

Plugging Contractor: White Drilling Company, Inc.
Address: P.O. Box 906, Clyde, TX 79510
Plugging Method: Hand Mix
Date Well Plugged: 1/31/08

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____

File Number: _____

Form: wr-20

page 2 of 4

Trn Number: _____

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

9. LOG OF HOLE: Merland C Com #1 TP-2

[illegible]

File Number: _____

Form: wr-20

page 3 of 4

Trn Number:

File Number: _____

**NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD**

1. OWNER OF WELL

Name: OXY USA Work Phone: _____
Contact: _____ Home Phone: _____
Address: 1017 W. Stanolind Rd.
City: Hobbs State: NM Zip: 88240

2. LOCATION OF WELL (A, B, C, or D required, E or F if known)

A. 1/4 1/4 1/4 Section: 19 Township: 22S Range: 27E N.M.P.M.
in Eddy County.

B. X = _____ feet, Y = _____ feet, N.M. Coordinate System
Zone in the _____ Grant.
U.S.G.S. Quad Map _____

C. Latitude: 32 d 22 m 47.9 s Longitude: 104 d 13 m 53.9 s

D. East _____ (m), North _____ (m), UTM Zone 13, NAD _____ (27 or 83)

E. Tract No. _____, Map No. _____ of the _____ Hydrographic Survey

F. Lot No. _____, Block No. _____ of Unit/Tract _____ of the
_____ Subdivision recorded in _____ County.

G. Other: _____

H. Give State Engineer File Number if existing well: _____

I. On land owned by (required): Merland Company

3. DRILLING CONTRACTOR

License Number: WD-1456
Name: White Drilling Company, Inc. Work Phone: 325-893-2950
Agent: John W. White Home Phone: 325-893-2950
Mailing Address: P.O. Box 906
City: Clyde State: TX Zip: 79510

4. DRILLING RECORD: Merland C Com #1 TP-5

Drilling began: 01/31/08; Completed: 01/31/08; Type tools: Air Rotary;
Size of hole: 6 1/8 in.; Total depth of well: 35.0 ft.;
Completed well is: shallow (shallow, artesian);
Depth to water upon completion of well: Dry ft.

File Number: _____

Trn Number: _____

Form: wr-20

page 1 of 4

File Number: _____

NEW MEXICO OFFICE OF THE STATE ENGINEER
WELL RECORD

5. PRINCIPAL WATER-BEARING STRATA: Merland C Com #1 TP-5

Depth in Feet		Thickness	Description of	Estimated Yield
From	To	in feet	water-bearing formation	(GPM)
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

6. RECORD OF CASING

Diameter (inches)	Pounds per ft.	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____	_____	_____

7. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole	Sacks	Cubic Feet	Method of Placement
From	To	Diameter	of mud	of Cement	
35.0	10.0	6 1/8	7.0		Bentonite Pellets
10.0	0.0	6 1/8	5.0	1.997	Cement
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

8. PLUGGING RECORD

Plugging Contractor: White Drilling Company, Inc.
Address: P.O. Box 906, Clyde, TX 79510
Plugging Method: Hand Mix
Date Well Plugged: 1/31/08

Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	_____	_____	_____
2	_____	_____	_____
3	_____	_____	_____
4	_____	_____	_____
5	_____	_____	_____

File Number: _____

Form: wr-20

page 2 of 4

Trn Number: _____

Analytical Report 296942

for

Elke Environmental, Inc.

Project Manager: Logan Anderson

Oxy

05-FEB-08



12600 West I-20 East Odessa, Texas 79765

Texas certification numbers:

Houston, TX T104704215

Florida certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Norcross(Atlanta), GA E87429

South Carolina certification numbers:

Norcross(Atlanta), GA 98015

North Carolina certification numbers:

Norcross(Atlanta), GA 483

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America

Midland - Corpus Christi - Atlanta



05-FEB-08

Project Manager: **Logan Anderson**
Elke Environmental, Inc.
4817 Andrews Hwy
P.O. Box 14167 Odessa, tx 79768
Odessa, TX 79762

Reference: XENCO Report No: **296942**

Oxy

Project Address: Merland C. Com # 1

Logan Anderson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 296942. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 296942 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II

Odessa Laboratory Manager

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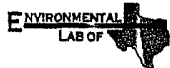
Sample Cross Reference 296942

Elke Environmental, Inc., Odessa, TX

Oxy



Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TP # 2	S	Jan-31-08 11:20	40 ft	296942-001
TP # 5	S	Jan-31-08 11:58	35 ft	296942-002



Certificate of Analysis Summary 296942

Elke Environmental, Inc., Odessa, TX

Project Id:

Contact: Logan Anderson

Project Location: Merland C. Com # 1

Project Name: Oxy

Date Received in Lab: Fri Feb-01-08 11:15 am


Report Date: 05-FEB-08

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	296942-001	296942-002				
	Field Id:	TP # 2	TP # 5				
	Depth:	40 ft	35 ft				
	Matrix:	SOIL	SOIL				
	Sampled:	Jan-31-08 11:20	Jan-31-08 11:58				
Percent Moisture	Extracted:						
	Analyzed:	Feb-01-08 13:05	Feb-01-08 13:06				
	Units/RL:	% RL	% RL				
Percent Moisture		1.78	2.11				
TPH by SW8015 Mod	Extracted:	Feb-04-08 12:00	Feb-04-08 12:00				
	Analyzed:	Feb-04-08 17:01	Feb-04-08 17:27				
	Units/RL:	mg/kg RL	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 15.3	ND 15.3				
C12-C28 Diesel Range Hydrocarbons		29.0 15.3	30.5 15.3				
C28-C35 Oil Range Hydrocarbons		ND 15.3	ND 15.3				
Total TPH		29	30.5				
Total Chloride by EPA 325.3	Extracted:						
	Analyzed:	Feb-01-08 13:50	Feb-01-08 13:50				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		173 5.09	217 5.11				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
 - B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
 - D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
 - E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
 - F** RPD exceeded lab control limits.
 - J** The target analyte was positively identified below the MQL(PQL) and above the SQL(MDL).
 - U** Analyte was not detected.
 - L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
 - H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
 - K** Sample analyzed outside of recommended hold time.
- * Outside XENCO'S scope of NELAC Accreditation

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(210) 509-3334	(201) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(770) 449-8800	(770) 449-5477



Form 2 - Surrogate Recoveries

Project Name: Oxy



Work Order #: 296942

Project ID:

Lab Batch #: 713770

Sample: 296942-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	95.8	100	96	70-135	
o-Terphenyl	50.2	50.0	100	70-135	

Lab Batch #: 713770

Sample: 296942-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	60.7	50.0	121	70-135	

Lab Batch #: 713770

Sample: 296942-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	55.3	50.0	111	70-135	

Lab Batch #: 713770

Sample: 296942-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	99.3	100	99	70-135	
o-Terphenyl	52.4	50.0	105	70-135	

Lab Batch #: 713770

Sample: 504212-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1-Chlorooctane	120	100	120	70-135	
o-Terphenyl	54.3	50.0	109	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Oxy



Work Order #: 296942

Project ID:

Lab Batch #: 713770

Sample: 504212-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	61.4	50.0	123	70-135	

Lab Batch #: 713770

Sample: 504212-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

SURROGATE RECOVERY STUDY					
TPH by SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	51.2	50.0	102	70-135	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.

Project Name: Oxy

Work Order #: 296942

Project ID:

Lab Batch #: 713672

Sample: 713672-1-BKS

Matrix: Solid

Date Analyzed: 02/01/2008

Date Prepared: 02/01/2008

Analyst: IRO

Reporting Units: mg/kg

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Total Chloride by EPA 325.3		Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Analytes							
Chloride		ND	50.0	46.8	94	75-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

All results are based on MDL and validated for QC purposes.



BS / BSD Recoveries



Project Name: Oxy

Work Order #: 296942

Analyst: SHE

Date Prepared: 02/04/2008

Project ID:

Date Analyzed: 02/04/2008

Lab Batch ID: 713770

Sample: 504212-1-BKS

Batch #: 1

Matrix: Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes											
C6-C12 Gasoline Range Hydrocarbons	ND	1000	895	90	1000	856	86	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1000	917	92	1000	879	88	4	70-135	35	

Relative Percent Difference RPD = $200 * [(D-F)/(D+F)]$

Blank Spike Recovery [D] = $100 * (C)/[B]$

Blank Spike Duplicate Recovery [G] = $100 * (F)/[E]$

All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: Oxy

Work Order #: 296942

Project ID:

Lab Batch ID: 713770

QC- Sample ID: 296942-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 02/05/2008

Date Prepared: 02/04/2008

Analyst: SHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH by SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C12 Gasoline Range Hydrocarbons	ND	1020	1030	101	1020	909	89	13	70-135	35	
C12-C28 Diesel Range Hydrocarbons	29.0	1020	1100	105	1020	948	90	15	70-135	35	

Lab Batch ID: 713672

QC- Sample ID: 296942-001 S

Batch #: 1 Matrix: Soil

Date Analyzed: 02/01/2008

Date Prepared: 02/01/2008

Analyst: IRO

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Total Chloride by EPA 325.3 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	173	1020	1190	100	1020	1210	102	2	75-125	30	

Matrix Spike Percent Recovery $[D] = 100 * (C - A) / B$

Relative Percent Difference $RPD = 200 * (D - G) / (D + G)$

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F - A) / E$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Oxy

Work Order #: 296942

Lab Batch #: 713590

Date Analyzed: 02/01/2008

QC- Sample ID: 296701-001 D

Reporting Units: %

Project ID:

Analyst: RBA

Date Prepared: 02/01/2008

Batch #: 1

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	17.0	17.6	3	20	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

All Results are based on MDL and validated for QC purposes.

Environmental Lab of Texas

A Xanco Laboratories Company

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765Phone: 432-563-1800
Fax: 432-563-1713Project Manager: Logan AndersonProject Name: OKYCompany Name: Elke Environmental

Project #:

Company Address: P O Box 14167Project Loc: Merck & Co. #1City/State/Zip: Odessa, TX 79768

PO #:

Telephone No: 432-366-0043Fax No: 432-366-0884Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: [Signature]e-mail: la_elkaenv@yahoo.com

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers										Matrix	Analyze For:										RUSH TAT (Pre-Submission) <input checked="" type="checkbox"/> 72hrs																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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1127	TX 1128	TX 1129	TX 1130	TX 1131	TX 1132	TX 1133	TX 1134	TX 1135	TX 1136	TX 1137	TX 1138	TX 1139	TX 1140	TX 1141	TX 1142	TX 1143	TX 1144	TX 1145	TX 1146	TX 1147	TX 1148	TX 1149	TX 1150	TX 1151	TX 1152	TX 1153	TX 1154	TX 1155	TX 1156	TX 1157	TX 1158	TX 1159	TX 1160	TX 1161	TX 1162	TX 1163	TX 1164	TX 1165	TX 1166	TX 1167	TX 1168	TX 1169	TX 1170	TX 1171	TX 1172	TX 1173	TX 1174	TX 1175	TX 1176	TX 1177	TX 1178	TX 1179	TX 1180	TX 1181	TX 1182	TX 1183	TX 1184	TX 1185	TX 1186	TX 1187	TX 1188	TX 1189	TX 1190	TX 1191	TX 1192	TX 1193	TX 1194	TX 1195	TX 1196	TX 1197	TX 1198	TX 1199	TX 1200	TX 1201	TX 1202	TX 1203	TX 1204	TX 1205	TX 1206	TX 1207	TX 1208	TX 1209	TX 1210	TX 1211	TX 1212	TX 1213	TX 1214	TX 1215	TX 1216	TX 1217	TX 1218	TX 1219	TX 1220	TX 1221	TX 1222	TX 1223	TX 1224	TX 1225	TX 1226	TX 1227	TX 1228	TX 1229	TX 1230	TX 1231	TX 1232	TX 1233	TX 1234	TX 1235	TX 1236	TX 1237	TX 1238	TX 1239	TX 1240	TX 1241	TX 1242	TX 1243	TX 1244	TX 1245	TX 1246	TX 1247	TX 1248	TX 1249	TX 1250	TX 1251	TX 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1502	TX 1503	TX 1504	TX 1505	TX 1506	TX 1507	TX 1508	TX 1509	TX 1510	TX 1511	TX 1512	TX 1513	TX 1514	TX 1515	TX 1516	TX 1517	TX 1518	TX 1519	TX 1520	TX 1521	TX 1522	TX 1523	TX 1524	TX 1525	TX 1526	TX 1527	TX 1528	TX 1529	TX 1530	TX 1531	TX 1532	TX 1533	TX 1534	TX 1535	TX 1536	TX 1537	TX 1538	TX 1539	TX 1540	TX 1541	TX 1542	TX 1543	TX 1544	TX 1545	TX 1546	TX 1547	TX 1548	TX 1549	TX 1550	TX 1551	TX 1552	TX 1553	TX 1554	TX 1555	TX 1556	TX 1557	TX 1558	TX 1559	TX 1560	TX 1561	TX 1562	TX 1563	TX 1564	TX 1565	TX 1566	TX 1567	TX 1568	TX 1569	TX 1570	TX 1571	TX 1572	TX 1573	TX 1574	TX 1575	TX 1576	TX 1577	TX 1578	TX 1579	TX 1580	TX 1581	TX 1582	TX 1583	TX 1584	TX 1585	TX 1586	TX 1587	TX 1588	TX 1589	TX 1590	TX 1591	TX 1592	TX 1593	TX 1594	TX 1595	TX 1596	TX 1597	TX 1598	TX 1599	TX 1600	TX 1601	TX 1602	TX 1603	TX 1604	TX 1605	TX 1606	TX 1607	TX 1608	TX 1609	TX 1610	TX 1611	TX 1612	TX 1613	TX 1614	TX 1615	TX 1616	TX 1617	TX 1618	TX 1619	TX 1620	TX 1621	TX 1622	TX 1623	TX 1624	TX 1625	TX 1626	TX 1627	TX 1628	TX 1629	TX 1630	TX 1631	TX 1632	TX 1633	TX 1634	TX 1635	TX 1636	TX 1637	TX 1638	TX 1639	TX 1640	TX 1641	TX 1642	TX 1643	TX 1644	TX 1645	TX 1646	TX 1647	TX 1648	TX 1649	TX 1650	TX 1651	TX 1652	TX 1653	TX 1654	TX 1655	TX 1656	TX 1657	TX 1658	TX 1659	TX 1660	TX 1661	TX 1662	TX 1663	TX 1664	TX 1665	TX 1666	TX 1667	TX 1668	TX 1669	TX 1670	TX 1671	TX 1672	TX 1673	TX 1674	TX 1675	TX 1676	TX 1677	TX 1678	TX 1679	TX 1680	TX 1681	TX 1682	TX 1683	TX 1684	TX 1685	TX 1686	TX 1687	TX 1688	TX 1689	TX 1690	TX 1691	TX 1692	TX 1693	TX 1694	TX 1695	TX 1696	TX 1697	TX 1698	TX 1699	TX 1700	TX 1701	TX 1702	TX 1703	TX 1704	TX 1705	TX 1706	TX 1707	TX 1708	TX 1709	TX 1710	TX 1711	TX 1712	TX 1713	TX 1714	TX 1715	TX 1716	TX 1717	TX 1718	TX 1719	TX 1720	TX 1721	TX 1722	TX 1723	TX 1724	TX 1725	TX 1726	TX 1727	TX 1728	TX 1729	TX 1730	TX 1731	TX 1732	TX 1733	TX 1734	TX 1735	TX 1736	TX 1737	TX 1738	TX 1739	TX 1740	TX 1741	TX 1742	TX 1743	TX 1744	TX 1745	TX 1746	TX 1747	TX 1748	TX 1749	TX 1750	TX 1751	TX 1752	TX 1753	TX 1754	TX 1755	TX 1756	TX 1757	TX 1758	TX 1759	TX 1760	TX 1761	TX 1762	TX 1763	TX 1764	TX 1765	TX 1766	TX 1767	TX 1768	TX 1769	TX 1770	TX 1771	TX 1772	TX 1773	TX 1774	TX 1775	TX 1776	TX 1777	TX 1778	TX 1779	TX 1780	TX 1781	TX 1782	TX 1783	TX 1784	TX 1785	TX 1786	TX 1787	TX 1788	TX 1789	TX 1790	TX 1791	TX 1792	TX 1793	TX 1794	TX 1795	TX 1796	TX 1797	TX 1798	TX 1799	TX 1800	TX 1801	TX 1802	TX 1803	TX 1804	TX 1805	TX 1806	TX 1807	TX 1808	TX 1809	TX 1810	TX 1811	TX 1812	TX 1813	TX 1814	TX 1815	TX 1816	TX 1817	TX 1818	TX 1819	TX 1820	TX 1821	TX 1822	TX 1823	TX 1824	TX 1825	TX 1826	TX 1827	TX 1828	TX 1829	TX 1830	TX 1831	TX 1832	TX 1833	TX 1834	TX 1835	TX 1836	TX 1837	TX 1838	TX 1839	TX 1840	TX 1841	TX 1842	TX 1843	TX 1844	TX 1845	TX 1846	TX 1847	TX 1848	TX 1849	TX 1850	TX 1851	TX 1852	TX 1853	TX 1854	TX 1855	TX 1856	TX 1857	TX 1858	TX 1859	TX 1860	TX 1861	TX 1862	TX 1863	TX 1864	TX 1865	TX 1866	TX 1867	TX 1868	TX 1869	TX 1870	TX 1871	TX 1872	TX 1873	TX 1874	TX 1875	TX 1876	TX 1877	TX 1878	TX 1879	TX 1880	TX 1881	TX 1882	TX 1883	TX 1884	TX 1885	TX 1886	TX 1887	TX 1888	TX 1889	TX 1890	TX 1891	TX 1892	TX 1893	TX 1894	TX 1895	TX 1896	TX 1897	TX 1898	TX 1899	TX 1900	TX 1901	TX 1902	TX 1903	TX 1904	TX 1905	TX 1906	TX 1907	TX 1908	TX 1909	TX 1910	TX 1911	TX 1912	TX 1913	TX 1914	TX 1915	TX 1916	TX 1917	TX 1918	TX 1919	TX 1920	TX 1921	TX 1922	TX 1923	TX 1924	TX 1925	TX 1926	TX 1927	TX 1928	TX 1929	TX 1930	TX 1931	TX 1932	TX 1933	TX 1934	TX 1935	TX 1936	TX 1937	TX 1938	TX 1939	TX 1940	TX 1941	TX 1942	TX 1943	TX 1944	TX 1945

Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Elke Env.
Date/ Time: 2:108 11:15
Lab ID #: 296942
Initials: CL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>2.0</u> °C
#2	Shipping container in good condition?	<u>Yes</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	<u>Not Present</u>
#4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	<u>Not Present</u>
#5	Chain of Custody present?	<u>Yes</u>	No	
#6	Sample Instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	<u>is written on Cont? Lid</u>
#9	Container label(s) legible and intact?	<u>Yes</u>	No	<u>Not Applicable</u>
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by ELOT?	<u>Yes</u>	No	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	<u>See Below</u>
#13	Samples properly preserved?	<u>Yes</u>	No	<u>See Below</u>
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	<u>See Below</u>
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	<u>See Below</u>
#19	Subcontract of sample(s)?	<u>Yes</u>	No	<u>Not Applicable</u>
#20	VOC samples have zero headspace?	<u>Yes</u>	No	<u>Not Applicable</u>

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

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: Oxy USA Telephone: 505-887-8337 e-mail address: rick_kerby@oxy.com
Address: P. O. Box 1988 Carlsbad, NM 88221
Facility or well name: Merland C Com #1 API #: 30-015-20797 U/L or Qtr/Qtr F Sec 19 T 22S R 27E
County: Eddy Latitude _____ Longitude _____ NAD: 1927 ☐ 1983 ☐
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

Pit	Below-grade tank	
Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not: _____	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.) GW = 87'	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points) XXX
	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)
	No	(0 points) XXX
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet or more	(0 points) XXX
Ranking Score (Total Points)		10 points

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: **Closure for reclamation of an abandoned well pad and historic drilling pit.** Contents of the historic drilling pit will be excavated and deep buried in a 12 mil lined trench. The trench will be capped with a 20 mil liner a minimum of 3' below ground surface and overlapping 3' in all directions. A 20 mil impervious liner will then be installed to cap the contamination below the historic drilling pit. The cap will be domed to prevent any further migration of the chloride contaminated soil. Clean soil will be backfilled and contoured to the surrounding area, then seeded with BLM seed mixture #2 & #3. A plat map and analytical is included showing the delineation of the chloride impacted soil to below NMOCD standards.
A full report will be given at the completion of the job.

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: 2-8-08

Printed Name/Title Logan Anderson - Agent

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 regulations.

Approval: _____

Signature

Signed By Mike Brumley

Date: FEB 05 2008

Notify OCD 24 hours prior to beginning
pit closure.