

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
March 12, 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 ☒

JUL 19 2007
OCD-ARTESIA

Operator **Marbob Energy Corporation**

Telephone **505-748-3303**

e-mail address **land2@marbob.com**

Address **PO Box 227, Artesia, NM 88211-0227**

1780' FSL & 660' FEL

Facility or well name **Man State #1**

API # **30-015-35282**

U/L or Qtr/Qtr **NESE** Sec **32** T **18S** R **28E**

County **Eddy**

Latitude

Longitude

NAD 1927 ☐ 1983 ☐ Surface Owner Federal ☐ State ☒ Private ☐ Indian ☐

Pit	Below-grade tank
Type Drilling ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type Synthetic ☒ Thickness 12 mil Clay ☐ Volume _____ bbl	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) 50 feet or more, but less than 100 feet (10 points) 100 feet or more (0 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 (20 points) No (0 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 (20 points) 200 feet or more, but less than 1000 feet (10 points) 1000 feet or more (0 points) 0 points
Ranking Score (Total Points) 0 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 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

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: **July 18, 2007**

Printed Name/Title: **Gerald Herrera**

Signature *G. Herrera*

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]* Notify OCD 24 hours prior to beginning pit closure

Date *7/20/07*

Printed Name/Title _____
Samples are to be obtained from pit area and analysis submitted to NMOCD prior to back-filling

Signature

Jim W. Gurn
District II Supervisor

NOTE: SAMPLE PIT BOTTOM BEFORE DIGGING DEEP TRENCH.
THU

JUL 19 2007
OCD-ARTESIA

Pit closure
12/14/07

Marbob Energy Corporation
Attachment to OCD Form C-144

Pit or Below-Grade Tank Registration or Closure

Pit Closure

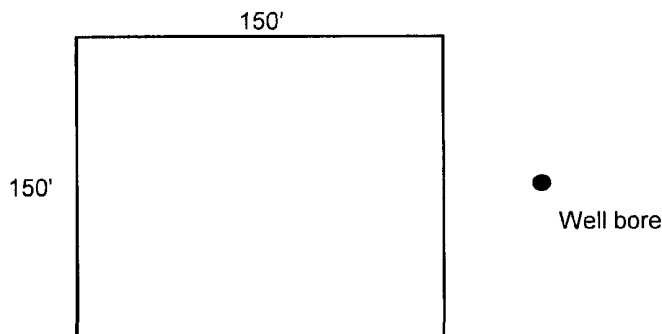
Man State #1

1780' FSL & 660' FEL

Section 32 T-18S R-28E

Eddy County, New Mexico

(1) Facility diagram



(2) Disposal location:

Fluids will be disposed at an approved disposal facility.

(3) General description of remedial action:

Transfer cuttings to ends, dig deep bury pit in center of pit, line with 12 mil plastic. Use material to stiffen cuttings. Transfer stiffened cuttings into lined pits, leaving mounded for drainage. Cap with 20 mil liner. Cover with three feet of cover material.

(4) Groundwater encountered:

No

(5) Soil sample:

N/A

* Sampling has been completed and analysis attached.
Hans Fuchs 12/14/07



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (575) 397-0397

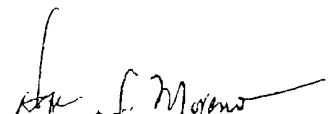
Receiving Date: 12/03/07
Reporting Date: 12/03/07
Project Owner: MARBOB
Project Name: MAN STATE #1
Project Location: CARLSBAD, NM

Analysis Date: 12/03/07
Sampling Date: 11/30/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/kg)
H13819-1	PIT BOTTOM	448
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods 4500-Cl⁻B

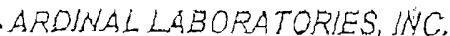
Note: Analysis performed on a 1:4 w:v aqueous extract.


Chemist

12-24-07
Date

H13819 BBC

PLEASE NOTE Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



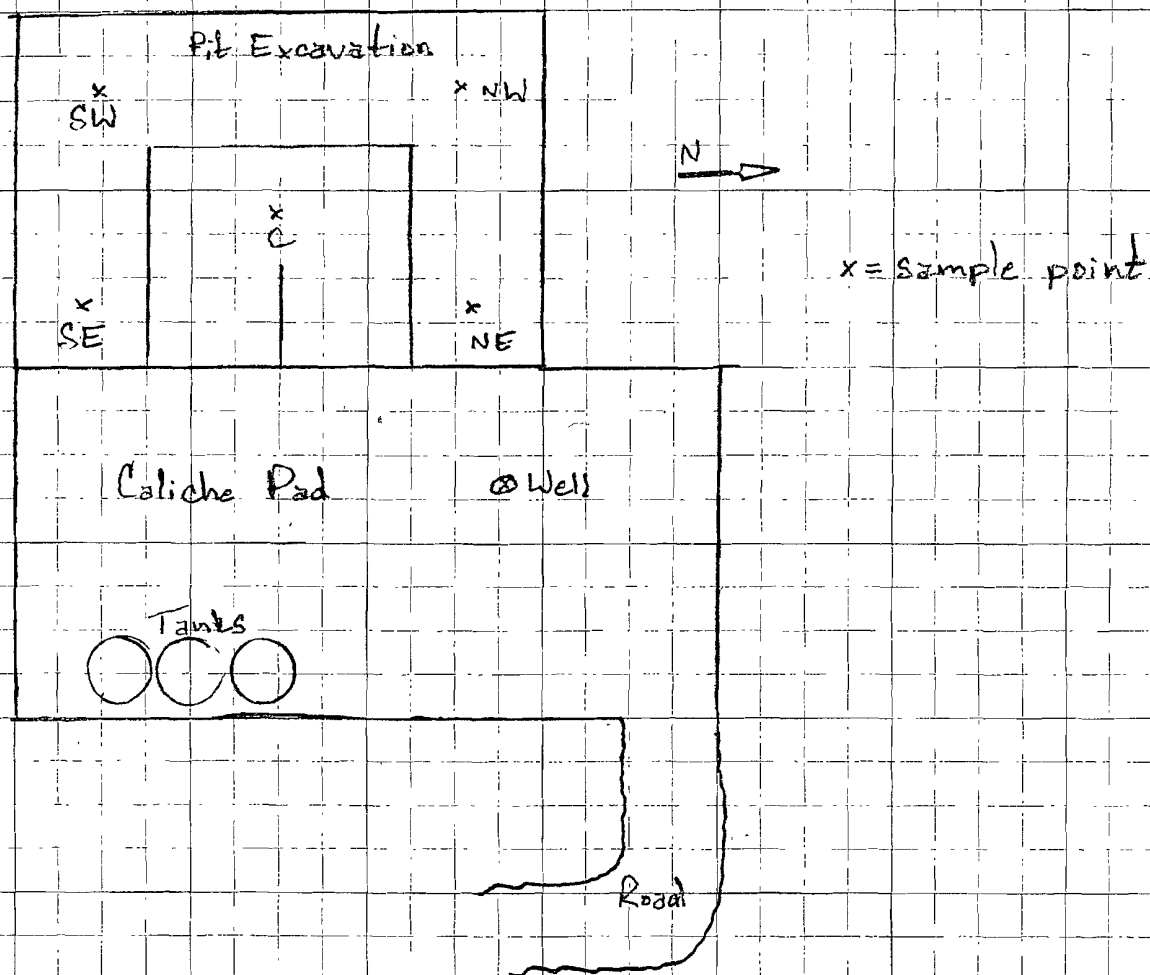
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2478.

Field Chloride Screens on Pit Bottom



Collected all first samples from 12 feet below ground surface (bgs).

NE	12' bgs	13,400 ppm Cl^- (parts per million Chloride)
		Reddish brown sand, ~40% rock fragments
NW	12' bgs	300 ppm Cl^-
		Reddish brown sand, ~30% rock
SW	12' bgs	200 ppm Cl^-
		Reddish brown sand, ~30% rock

Field Chloride Screens (continued)

SE	12' bgs	17,400 ppm Cl^- Dark reddish brown sand, ~40% rock
C	12' bgs	1,400 ppm Cl^- Dark reddish brown sandy clay, ~25% clay, ~20% rock fragments.

Will hold the NW and SW samples for the composite sample. Continuing sampling others.

NE	17' bgs	12,800 ppm Cl^- Dark reddish brown sandy clay, ~25% clay
C	15' bgs	2,000 ppm Cl^- Dark reddish brown sandy clay, ~25% clay
SE	17' bgs	15,600 ppm Cl^- Dark reddish brown sandy clay, ~25% clay

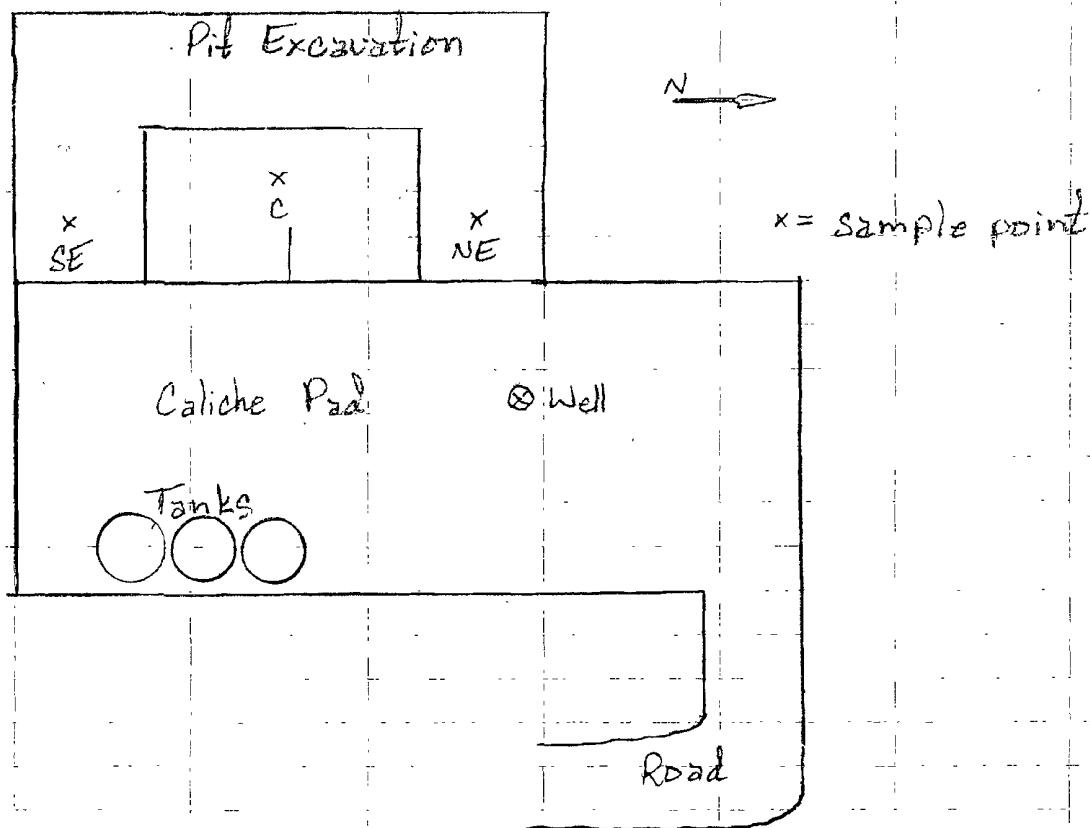
Next samples were collected from the ~~the~~ backhoe bucket.

NE	22' bgs	9,600 ppm Dark reddish brown sandy clay, ~35-40% clay
C	20' bgs	14,400 ppm Cl^- Dark reddish brown sandy clay, ~35% clay
SE	22' bgs	12,400 ppm Cl^- Dark reddish brown sandy clay, ~35% clay
NE	24' bgs	6,000 ppm Cl^- Dark reddish brown sandy clay, ~35% clay
C	26' bgs	11,000 ppm Cl^- Dark reddish brown sandy clay, ~30% clay
SE	26' bgs	13,400 ppm Cl^- Dark reddish brown sandy clay, 30% clay

Marbob Energy / Man St. #1 11/27/07

Field Chloride Screens (continued)

NE	30' bgs	4,400 ppm Cl ⁻
C	27' bgs	10,200 ppm Cl ⁻ Dark reddish brown sandy clay, ~35% clay
SE	28' bgs	5,200 ppm Cl ⁻ Dark reddish brown sand
Will return to continue sampling		

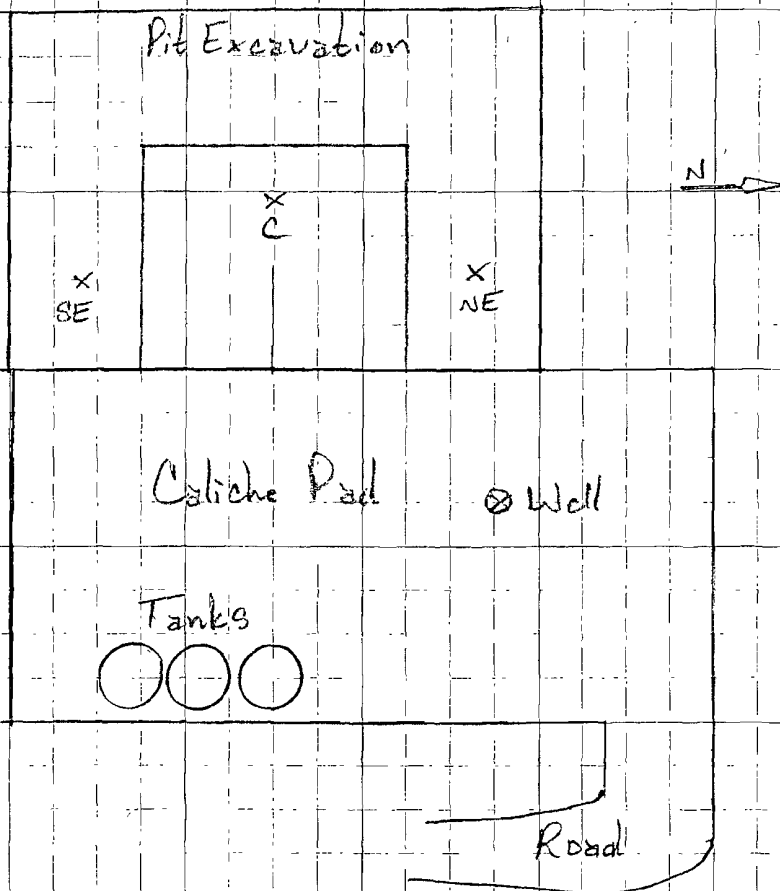


Note: Only continued with remaining 3 sample points.

NE	31' bgs	(below ground surface)	1,600 ppm Cl^-
		(parts per million chloride)	Dark red sand with pieces of 50%+ clay.
SE	29' bgs		4,800 ppm Cl^-
			Red sand with fragments of 50%+ clay.
C	28' bgs		9,200 ppm Cl^-
			Dark red sand with fragments of 50%+ clay.

Will return to continue sampling.

Field Chloride Screens on Pit Bottom



Continued sampling remaining 3 points.

NE	32' bgs	(below ground surface)	800 ppm Cl^-
		(parts per million Chloride)	Red sand.
SE	31' bgs	6,000 ppm Cl^-	
		Red sand.	
C	30' bgs	2,200 ppm Cl^-	
		Red sand.	

Will return to continue sampling.

Field Chloride Screens (Continued)

NE 32' bgs 800 ppm Cl^-
Red sand

SE 31' bgs 6,000 ppm Cl^-
Red sand

C 30' bgs 2,200 ppm Cl^-
Red sand

NE 33' bgs 800 ppm Cl^-
Red sand

SE 32' bgs 4,800 ppm Cl^-
Red sand

C 31' bgs 1,400 Cl^- ppm
Red sand

NE 34' bgs 200 ppm Cl^-
Red sandy clay, ~45% clay

SE 33' bgs 3,600 ppm Cl^-
Red sand

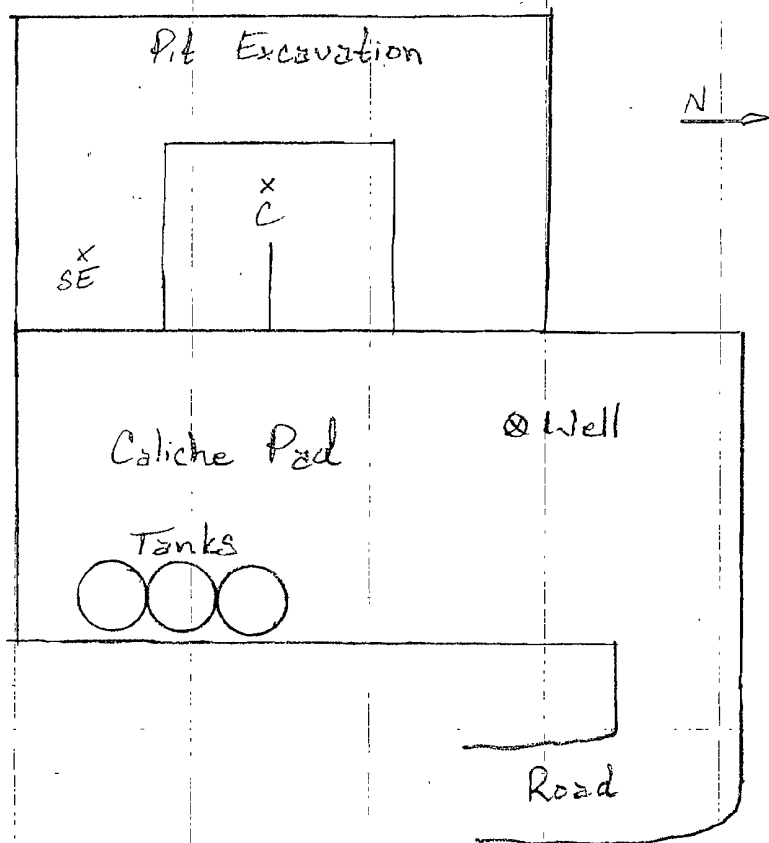
C 32' bgs 2,800 ppm Cl^-
Red sand

SE 34' bgs 2,000 ppm Cl^-
Red sand

C 33' bgs 2,200 ppm Cl^-
Red sand

Will return to sample at a later date.

Field Chloride Screens on Pit Bottom



Continued sampling C + SE points.

C 34' bgs (below ground surface) 1,200 ppm Cl^-
(parts per million Chloride) Red sand.

SE 39' bgs 200 ppm Cl^-
Red brown sandy clay, ~45% clay

C 36' bgs 200 ppm Cl^-
Red sand.

Will submit composite to lab.