625 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
March 12, 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: Dugan Production Corporation Telephone: (505)325-1821 e-mail address:
Address: P.O. Box 420, Farmington, New Mexico 87401
Facility or well name: Dome Navajo 21-27-13 No. 3 API #: 3004523847 U/L or Qtr/Qtr M Sec 21 T 27N R 13W
County: San Juan Latitude 36.55659 Longitude 108.22966 NAD: 1927 ☐ 1983 ☒ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit Type: Drilling ☐ Production ☒ Disposal ☐ Workover ☐ Emergency ☐ Lined ☐ Unlined ☒ Liner type: Synthetic ☐ Thickness ____mil Clay ☐ 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)	0
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)	0
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
	Ranking Score (Total Points)		0

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: NONE 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: June 30, 2004
Printed Name/Title Jeffrey C. Blagg, PE, Agent Signature Jeffrey C. Blagg

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:
Date: JUL - 2 2004
Printed Name/Title Denny Foust Signature
DEPUTY OIL & GAS INSPECTOR, DIST. #3

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413
Phone: (505)632-1199 Fax: (505)632-3903

June 30, 2004

Mr. Denny Foust
New Mexico Oil Conservation Div.
1000 Rio Brazos Rd
Aztec, New Mexico 87410

Re: Dugan Production Corporation
Request for Closure of Unlined Production Pit
Dome Navajo 21-27-13 No. 3, (M) Sec. 21 - T27N - R13W, San Juan County, NM

Dear Mr. Foust:

On behalf of Dugan Production Corporation, Blagg Engineering, Inc. (BEI) attached please find documentation for closure of an unlined production pit located in the non-vulnerable area of the San Juan Basin. This pit, which was no longer in use, was previously used to capture produced water from the separator unit. At the time of closure on June 18, 2004, there were grasses and weeds growing in the shallow pit. A soil sample collected from a depth of 3 feet below the base of the pit indicated there were chloride constituents at the NMOCD guideline limit of 250 parts per million. Since grasses and weeds were growing in the pit, there is no evidence that these residual chlorides will limit vegetation growth.

Following sampling, the pit was filled in by pushing berm soils into the slight depression and contouring the site to match the surrounding grade.

A completed Form C-144, a field sampling report (with a diagram of the pit and sampling location) and laboratory analytical test results are attached for your review. Please contact myself at (505)632-1199 if you need additional information.

Respectfully submitted,
Blagg Engineering, Inc.

Jeffrey C. Blagg

Jeffrey C. Blagg, President
NMPE 11607

Attachments: Field Report, lab reports

cc: Mr. Tom Blair - DPC

File: dpc.domenav.wpd

3004523847 36.55659 × 108.22966

CLIENT: DUGAN	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: ____ COCR NO: 12401

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: DOME NAVAJO 21-27-13 WELL #: 3 TYPE: SEPARATOR

QUAD/UNIT: M SEC: 21 TWP: 27 N RNG: 13 W PM: NM CNTY: SJ ST: NM

QTR/FOOTAGE: 1190 FWL × 1190 FSL CONTRACTOR: DUGAN

DATE STARTED: 6-18-04
DATE FINISHED: 6-18-04
ENVIRONMENTAL SPECIALIST: JCB

EXCAVATION APPROX. NA FT. x NA FT. x NA FT. DEEP. CUBIC YARDAGE: 0

DISPOSAL FACILITY: NA REMEDIATION METHOD: CLOSE AS IS

LAND USE: NAPI LEASE: ____ FORMATION: PC

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY ~~174~~ 15 FT. ~~N40E~~ S17W FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ. = 53.0 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 0845 (am)/pm DATE: 6-18-04

SOIL TYPE: (SAND) / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER
SOIL COLOR: Yellow TAN
COHESION (ALL OTHERS): (NON COHESIVE) / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): (LOOSE) / FIRM / DENSE / VERY DENSE
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
MOISTURE: (DRY / SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATED
DISCOLORATION/STAINING OBSERVED: (YES) NO EXPLANATION - V. MINOR Surface Stain, to 1' Depth only
HC ODOR DETECTED: YES (NO) EXPLANATION - ~~GRASS + WEEDS GROWING IN PIT~~
SAMPLE TYPE: (GRAB) / COMPOSITE - # OF PTS.
ADDITIONAL COMMENTS: 12' x 12' x 1' DEEP EARTHEN PIT. USE BACKHOE TO DIG TEST Trench to 4' BG. CEMENT on west side of test trench. PUSH IN SIDEWALLS & Contour to Match Surrounding GRADE.

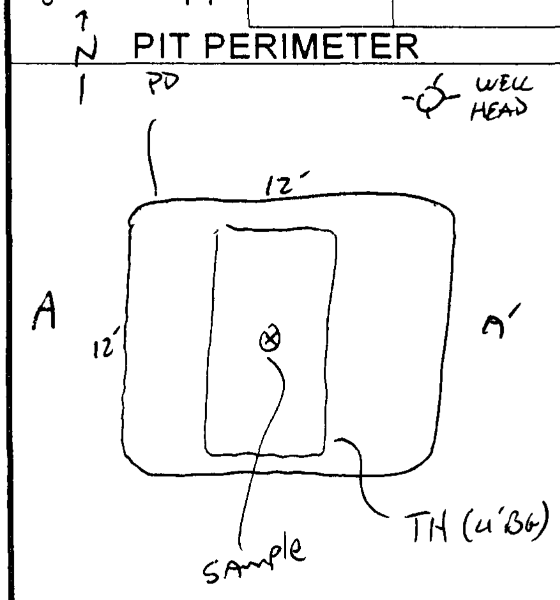
FIELD 418.1 CALCULATIONS

SCALE

0 FT

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

PIT PERIMETER



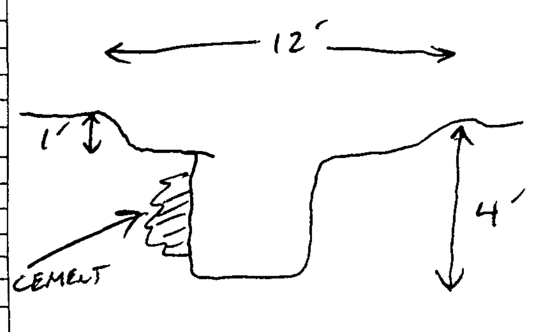
OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @ 4'	15.2
2 @	
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
(1) @ 4'	TPH	0830
	CL	

PIT PROFILE



P.D. = PIT DEPRESSION; B.G. = BELOW GRADE; B = BELOW
T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM

TRAVEL NOTES: CALLOUT: 6/18/04 ONSITE: 6/18/04 0740 AM

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Separator	Date Reported:	06-23-04
Laboratory Number:	29201	Date Sampled:	06-18-04
Chain of Custody No:	12401	Date Received:	06-18-04
Sample Matrix:	Soil	Date Extracted:	06-22-04
Preservative:	Cool	Date Analyzed:	06-23-04
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**ND**	**0.2**
Diesel Range (C10 - C28)	**ND**	**0.1**
Total Petroleum Hydrocarbons	**ND**	**0.2**

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Dome Nav. 21-27-13 #3.**
1 @ 4'

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Total Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	Separator	Date Reported:	06-23-04
Lab ID#:	29201	Date Sampled:	06-18-04
Sample Matrix:	Soil	Date Received:	06-18-04
Preservative:	Cool	Date Analyzed:	06-22-04
Condition:	Cool and Intact	Chain of Custody:	12401

Parameter	Concentration (mg/Kg)
Total Chloride	**250**

Reference: Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Dome Nov. 21-27-13 #3.**
1 @ 4'

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865