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: Dugan Production Corp Telephone: (505)325-1821 e-mail address:
Address: P.O. Box 420, Farmington, New Mexico 87401
Facility or well name: Elwood P Dowd No. 2 API #: 30-045-24905 U/L or Qtr/Qtr P Sec 10 T 24N R 9W
County: San Juan Latitude 36.32392 Longitude 107.77045 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 ____mil Clay ☐ Pit Volume 80 ± 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 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: (check the onsite box if your 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:
15' x 15' x 2'± deep unlined production pit, center located 105 feet South 74° East of wellhead.
Use backhoe to dig test trenches across pit and collect samples. Submit center & 4-point side composites to laboratory for testing.

RECEIVED
MAY 2006
OIL CONS. DIV.
DIST. 3

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: 5/17/06
Printed Name/Title Jeffrey C Blagg, 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: DEPUTY OIL & GAS INSPECTOR, DIST. ☐
Printed Name/Title Signature Date: MAY 19 2006

30-045-24905   36.32392 x 107.77045

CLIENT: DUGAN	**BLAGG ENGINEERING, INC.** P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: ____ COCR NO: 14648

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: ELWOOD P. DOWD WELL #: 2 TYPE: PROD.
QUAD/UNIT: P SEC: 10 TWP: 24N RNG: 9W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 910 FSL x 790 FEL CONTRACTOR: DPC

DATE STARTED: 5-3-06
DATE FINISHED: 5-3-06
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: RANGE - BLM LEASE: NM 9520 FORMATION: DK

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 105 FT. S74E FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

OVM CALIB. READ. = 52.1 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 0615 (am)/pm DATE: 5/3/06

SOIL AND EXCAVATION DESCRIPTION:

SOIL TYPE: SAND / (SILTY SAND) 0'-4' / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER BEDROCK SANDSTONE @ 4'
SOIL COLOR: Lite 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 - GREY SANDSTONE SURFACE
HC ODOR DETECTED: (YES) NO EXPLANATION - MODERATE
SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. ____
ADDITIONAL COMMENTS: 15 x 15 x 2 Unlined Pit. USE BACKHOE TO Scrape Surface for sample - V. Hard SANDSTONE

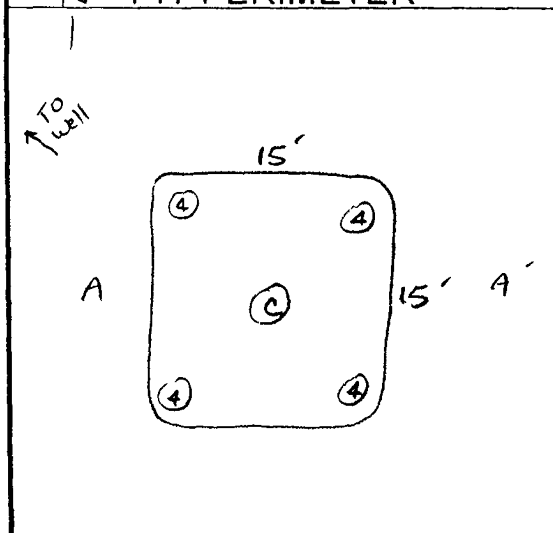
FIELD 418.1 CALCULATIONS

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

SCALE

0 FT

PIT PERIMETER



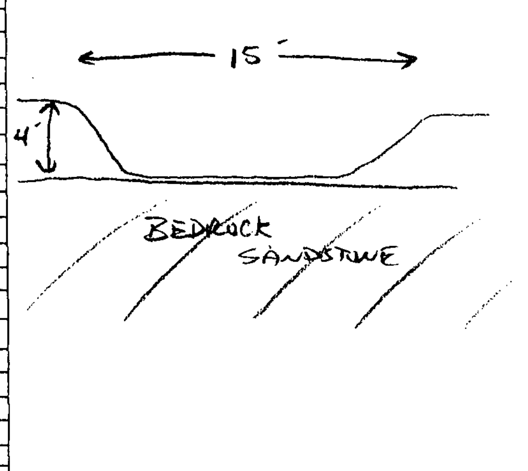
OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
C @ 4'	147
4-pt @ 4'	7.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
C @ 4'	T/B/CL	1142
4-pt	"	1148

PIT PROFILE



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

TRAVEL NOTES: CALLOUT: ____ ONSITE: 5-3-06

revised: 09/04/02   bei1005C.skf

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:	E.P. Dowd 2 - Prod	Date Reported:	05-09-06
Laboratory Number:	37037	Date Sampled:	05-03-06
Chain of Custody No:	14648	Date Received:	05-04-06
Sample Matrix:	Soil	Date Extracted:	05-05-06
Preservative:	Cool	Date Analyzed:	05-08-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**177**	**0.2**
Diesel Range (C10 - C28)	**2,410**	**0.1**
Total Petroleum Hydrocarbons	**2,590**	**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: **Pit Closures C @ 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

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	E.P. Dowd 2 - Prod	Date Reported:	05-09-06
Laboratory Number:	37038	Date Sampled:	05-03-06
Chain of Custody No:	14648	Date Received:	05-04-06
Sample Matrix:	Soil	Date Extracted:	05-05-06
Preservative:	Cool	Date Analyzed:	05-08-06
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**1.4**	**0.2**
Diesel Range (C10 - C28)	**7.7**	**0.1**
Total Petroleum Hydrocarbons	**9.1**	**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: **Pit Closures 4 Pt @ 4'.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	E.P. Dowd 2 - Prod	Date Reported:	05-09-06
Laboratory Number:	37037	Date Sampled:	05-03-06
Chain of Custody:	14648	Date Received:	05-04-06
Sample Matrix:	Soil	Date Analyzed:	05-08-06
Preservative:	Cool	Date Extracted:	05-05-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**ND**	**1.8**
Toluene	**245**	**1.7**
Ethylbenzene	**281**	**1.5**
p,m-Xylene	**1,440**	**2.2**
o-Xylene	**224**	**1.0**
Total BTEX	**2,190**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Pit Closures C @ 4'.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	E.P. Dowd 2 - Prod	Date Reported:	05-09-06
Laboratory Number:	37038	Date Sampled:	05-03-06
Chain of Custody:	14648	Date Received:	05-04-06
Sample Matrix:	Soil	Date Analyzed:	05-08-06
Preservative:	Cool	Date Extracted:	05-05-06
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	**16.9**	**1.8**
Toluene	**181**	**1.7**
Ethylbenzene	**71.3**	**1.5**
p,m-Xylene	**961**	**2.2**
o-Xylene	**197**	**1.0**
Total BTEX	**1,430**	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**97.0 %**
	1,4-difluorobenzene	**97.0 %**
	Bromochlorobenzene	**97.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Pit Closures 4 Pt @ 4'.**

Christine M Walters
Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	E.P. Dowd 2 Prod	Date Reported:	05-08-06
Lab ID#:	37037	Date Sampled:	05-03-06
Sample Matrix:	Soil	Date Received:	05-04-06
Preservative:	Cool	Date Analyzed:	05-05-06
Condition:	Cool and Intact	Chain of Custody:	14648

Parameter	Concentration (mg/Kg)
Total Chloride	**258**

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

Comments: **Pit Closures C @ 4'**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Chloride

Client:	Blagg / Dugan	Project #:	94034-010
Sample ID:	E.P. Dowd 2 Prod	Date Reported:	05-08-06
Lab ID#:	37038	Date Sampled:	05-03-06
Sample Matrix:	Soil	Date Received:	05-04-06
Preservative:	Cool	Date Analyzed:	05-05-06
Condition:	Cool and Intact	Chain of Custody:	14648

Parameter	Concentration (mg/Kg)
Total Chloride	**292**

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

Comments: **Pit Closures 4 Pt @ 4'**

Analyst

Review