

George E. Frost JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
DEPUTY OIL & GAS INSPECTOR P.O. BOX 507

SUBMIT 1 COPY TO:
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

FEB 12 1993

DULCE, NEW MEXICO 87528

Approved **PIT REMEDIATION AND CLOSURE REPORT**

Operator: DUGAN PROD. CORP. / CO HALL ENERGY Telephone: 505-325-1821

Address: P.O. Box 420, FARMINGTON, NM 87499

Facility or Well Name: JICARILLA 1

Location: Unit or Qtr/Qtr Sec 6 Sec 5 T 26N R 4W County RIO ARriba

Pit Type: Separator X Dehydrator Other

Land Type: RANGE

Pit Location: Pit dimensions: length 24, width 24, depth 4
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 80'

Direction from reference: 88 Degrees East of North X
X West of South

Depth To Groundwater:

(Vertical distance from
contaminants to seasonal
high water elevation of
groundwater)

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

Distance to an Ephemeral Stream

(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and
livestock or wildlife watering ponds)

Less than 100 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

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)	<u>0</u>

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 100 feet	(20 points)	
100 feet to 1000 feet	(10 points)	
Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9-30-98 Date Completed: 9-30-98

Remediation Method: Excavation Approx. cubic yards 0
(Check all appropriate sections) Landfarmed Insitu Bioremediation
Other NO REMEDIATION REQUIRED - PIT TESTED CLEAN

Remediation Location: Onsite Offsite
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation

Groundwater Encountered: No X Yes Depth

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location see Attached Documents

5 POINT COMPOSITE

Sample depth 1 1/2' (@ TOP OF BEDROCK)

Sample date 9-30-98 Sample time 0938

Sample Results

Soil: Benzene	(ppm)	<u>NA</u>	Water: Benzene	(ppb)	<u> </u>
Total BTEX	(ppm)	<u>NA</u>	Toluene	(ppb)	<u> </u>
Field Headspace	(ppm)	<u>0</u>	Ethylbenzene	(ppb)	<u> </u>
TPH	(ppm)	<u>ND</u>	Total Xylenes	(ppb)	<u> </u>

Groundwater Sample: Yes No X (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 10-26-98 PRINTED NAME JEFFREY C. BLAGG

SIGNATURE Jeffrey C. Blagg AND TITLE NMPE 11607

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO (REASON)

SIGNED: Ken C. Mammall DATE: 10-27-98

CLIENT: <u>DUGAN-Hall</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ C.O.C. NO: <u>6337</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JICARILLA</u> WELL #: <u>1</u> PIT: <u>SEP</u>	DATE STARTED: <u>9-30-95</u> DATE FINISHED: <u>9-30-95</u>	
QUAD/UNIT: <u>6</u> SEC: <u>5</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>JCS</u>	
OTP/FOOTAGE: <u>1820FNL x 1740 FEL</u> CONTRACTOR: <u>FOURZ</u>		

EXCAVATION APPROX. <u>0</u> FT. x <u>0</u> FT. x <u>0</u> FT. DEEP.	CUBIC YARDAGE: <u>0</u>
DISPOSAL FACILITY: <u>NONE</u>	REMEDATION METHOD: <u>NA</u>
LAND USE: <u>FOREST</u>	FORMATION: _____
LEASE: _____	

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>80</u> FT. <u>N88°W</u> FROM WELLHEAD.	
DEPTH TO GROUNDWATER: <u>>100</u>	NEAREST WATER SOURCE: <u>>1000</u>	NEAREST SURFACE WATER: <u>>1000</u>
NMDCD RANKING SCORE: <u>0</u>	NMDCD TPH CLOSURE STD: <u>5000</u> PPM	
SOIL AND EXCAVATION DESCRIPTION:		

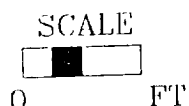
CHECK ONE:

- ☒ PIT ABANDONED
- ☐ STEEL TANK INSTALLED
- ☐ FIBERGLASS TANK INSTALLED

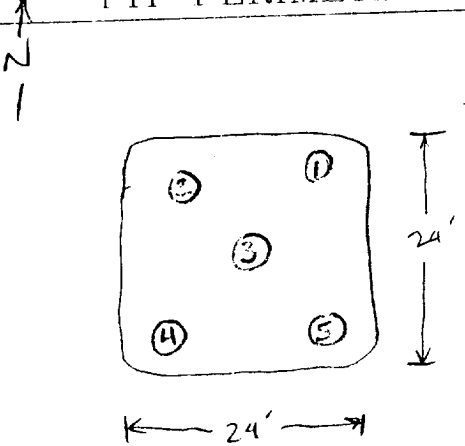
PIT LOCATED ON SANDSTONE BENCH. PIT SIZE 24' x 24' x 3' Deep. No stain or odor in pit. Dug into pit with shovel & hit sandstone @ 2' to 6" depths. Took 5 Point composite of soil just above sandstone. (PIT MADE BY BUILDING UP SOIL Embankment on sandstone).

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm



PIT PERIMETER

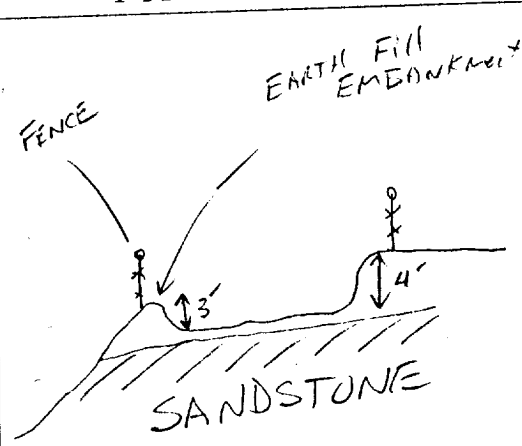


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE P10 (ppm)
1 @ 1 1/2'	ND
2 @ 1'	ND
3 @ 1/2'	ND
4 @ 1/2'	ND
5 @ 1/2'	ND

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME
5 pt Composite	B015	

PIT PROFILE



TRAVEL NOTES:	CALLOUT: _____	ONSITE: _____
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

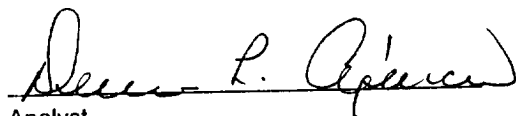
Client:	Blagg / Dugan	Project #:	04034-10
Sample ID:	Separator 5 Pt. Composite	Date Reported:	10-04-98
Laboratory Number:	E008	Date Sampled:	09-30-98
Chain of Custody No:	6337	Date Received:	09-30-98
Sample Matrix:	Soil	Date Extracted:	10-04-98
Preservative:	Cool	Date Analyzed:	10-04-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

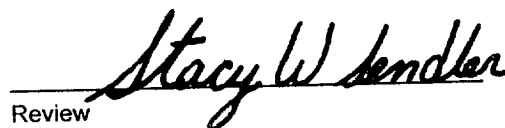
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Jicarilla #1.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client: QA/QC
Sample ID: 10-04-TPH QA/QC
Laboratory Number: E008
Sample Matrix: Methylene Chloride
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 10-04-98
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 10-04-98
Analysis Requested: TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-28-98	4.9098E-002	4.9064E-002	0.07%	0 - 15%
Diesel Range C10 - C28	04-28-98	3.9029E-002	3.9017E-002	0.03%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100%	75 - 125%

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: QA/QC for samples E008, E015 - E016 and E026 - E029.


Analyst


Review

6337

[illegible]