

Denny E. Fort
DEPUTY OIL & GAS INSPECTOR

MAY 04 1998

JICARILLA APACHE TRIBE
ENVIRONMENTAL PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

CA391

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

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: CONOCO, INC. Telephone: (505) 324-5884
Address: 3315 Bloomfield Hwy., Farmington, NM 87401
Facility or Well Name: JICARILLA #4
Location: Unit or Qtr/Qtr Sec L Sec 31 T 26N R 4W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 32', width 37', depth 20'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 114'
Direction from reference: 30 Degrees ☐ East of North ☒
☒ 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)	<u>0</u>
Greater than 100 feet	(0 points)	

Distance to Nearest Lake, Playa, or Watering Pond

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

Less than 100 feet	(10 points)	<u>0</u>
Greater than 100 feet	(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)	<u>0</u>
No	(0 points)	

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)	<u>0</u>
Greater than 1000 feet	(0 points)	

RANKING SCORE (TOTAL POINTS): 0

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Date Remediation Started: _____ Date Completed: 8/1/96

Remediation Method: Excavation ☒ Approx. cubic yards 800
(check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite _____ Offsite ☒ JICARILLA LANDFARM # 7
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation + Haul

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location see Attached Documents
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 20'
Sample date 7/31/96 Sample time 1240

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>389</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>11,250</u>	Total Xylenes	(ppb)	_____

Groundwater Sample: Yes _____ No ☒ (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 8/1/96 PRINTED NAME Jeffrey C. Blagg, P.E. # 11607
SIGNATURE Jeffrey C. Blagg AND TITLE President

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

APPROVED: YES ☒ NO _____ (REASON) _____

SIGNED: Abriel J. [Signature] DATE: 8/5/96
(Conditional)

CLIENT: <u>CONOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>CA391</u> C.O.C. NO: <u>4883</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>4</u> PIT: <u>SEP</u>		DATE STARTED: <u>7/31/96</u>
QUAD/UNIT: <u>L</u> SEC: <u>31</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>		DATE FINISHED: _____
QTR/FOOTAGE: <u>NW 1/4 SE 1/4</u> CONTRACTOR: <u>ACME / PLS</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. <u>32</u> FT. x <u>37</u> FT. x <u>20</u> FT. DEEP. CUBIC YARDAGE: <u>800</u>
DISPOSAL FACILITY: <u>JICARILLA LANDFARM # 7</u> REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u> LEASE: <u>CONTRACT # 120</u> FORMATION: <u>DK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>114</u> FT. <u>N30W</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMOCB RANKING SCORE: <u>0</u> NMOCB TPH CLOSURE STD: <u>5000</u> PPM

CHECK ONE:
<input checked="" type="checkbox"/> PIT ABANDONED
<input type="checkbox"/> STEEL TANK INSTALLED

SOIL AND EXCAVATION DESCRIPTION:

DK. YELL. BROWN TO OLIVE GRAY SAND TO SILTY SAND, COHESIVE, SLIGHTLY MOIST, FIRM TO STIFF NO APPARENT HC 'BOOR' IN OVM SAMPLES, EXCEPT IN PIT BOTTOM (STRONG) & WEST SIDEWALL (SLIGHT)

CONDITIONAL

FIELD 418.1 CALCULATIONS

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

SCALE

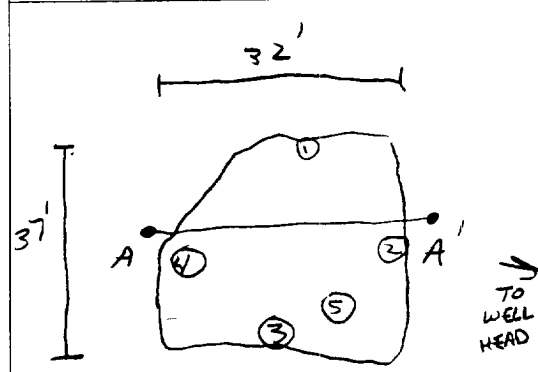


0 FT

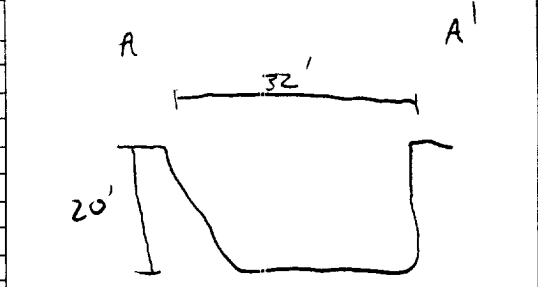
PIT PERIMETER

OVM RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 9'	0.0
2 @ 10'	0.0
3 @ 11'	26.9
4 @ 10'	93.4
5 @ 20'	389



SAMPLE ID	ANALYSIS	TIME
5 @ 20'	TPH	1240

TRAVEL NOTES: CALLOUT: <u>7/31/96</u> ONSITE: <u>7/31/96 AFTER.</u>

Well Name:	Jicarilla # 4
Well Site location:	(1630' FSL, 900'FWL) Unit L, Sec. 31, T26N, R4W
Pit Type:	Separator pit
Producing Formation:	Lindrieth Gallup Dakota
Pit Category:	Non Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT (Non Vulnerable Area)

Pit remediation activities were terminated when trackhoe reached vertical extent at 20 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock based on topographic information and informal site survey of nearby bedrock outcrop.
2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
4. Well site located within the **non-vulnerable area** and is greater than 350 feet east of the nearest vulnerable area boundary (Las Norias Canyon Wash).

(Refer to Lapis Point Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), 1963, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface vertical impact to groundwater is very unlikely. CONOCO requests pit closure approval on this location.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

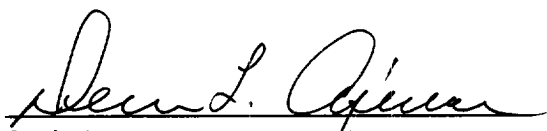
Client:	Blagg / Conoco	Project #:	04034
Sample ID:	5 @ 20' A44	Date Reported:	08-01-96
Laboratory Number:	A441	Date Sampled:	07-31-96
Chain of Custody No:	4883	Date Received:	08-01-96
Sample Matrix:	Soil	Date Extracted:	08-01-96
Preservative:	Cool	Date Analyzed:	08-01-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

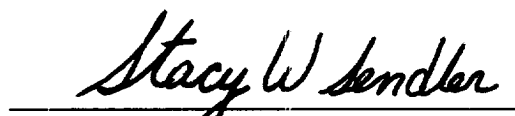
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	10,000	0.2
Diesel Range (C10 - C28)	1,250	0.1
Total Petroleum Hydrocarbons	11,250	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: Jicarilla #4, Sep. Pit.


Analyst


Review

CHAIN OF CUSTODY RECORD

[illegible]

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615