District I
P.O. POX PASO, Hobbs, NM
District TY
O. Drage POT VOIL & GAS INSPECTOR
STITE III
1000 Rio Brazos Rd. PECNA \$11996

> OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Approced	Secretary from Communications &		•
1//	Amoco Production Company	Telephone: (505) - 326-9200	
Address:	200 Amoco Court, Farmington,	, New Mexico 87401	_
Facility Or:	ALLEN AI		
Well Name	or Otr/Qtr Sec	c 1 TZ92 RIZW County SAN TWAN	
pit Type: Sepa	rator X Dehydrator O	ther	
Land Type: BL	M, State, Fee	, other Com, AGMI.	
Pit Location: (Attach diagram)	Pit dimensions: length Reference: wellhead X Footage from reference:	27', width 41', depth 10' , other	<u>-</u>
		e: <u>(S</u> Degrees East North of X West South _X	
Depth To Groun (Vertical distance contaminants to see high water elevate ground water)	e from seasonal sion of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)	2
Wellhead Prote (Less than 200 fe domestic water so 1000 feet from al	ection Area: DEC Det from a private Durce, or; less than I other water sources)	110 (0 Postional)	0
Distance To Su (Horizontal dista lakes, ponds, riv irrigation canals	ance to perennial vers, streams, creeks,	Greater than 1000 feet (0 points)	0
1		PANKING SCORE (TOTAL POINTS):	<u>ر</u>

/		lulae				
Date Remediation Sta	arted:	Date Completed: 1 4 95				
Remediation Method: (Check all appropriate		Approx. cubic yards 350				
sections)	Landfarmed	Insitu Bioremediation				
•.	Other BIORENEC	SIATION BY EPC				
·						
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	n: OnsiteOffs	site X Amoco Compost FACILT	一 八			
General Description	of Remedial Action	•				
Excavatio	in - BEDROCK BOT	пом				
		ĺ				
		and the second of the second o				
Ground Water Encoun	tered: No X	Yes Depth				
Final Pit: Sample location see Attached Documents Closure Sampling:						
(if multiple samples, attach sample results and diagram of sample	Sample depth	6'				
locations and depths)	Sample date //4/	95 Sample time 1215				
	Sample Results	- 				
	Benzene(ppm)					
	Total BTEX(pp	om)				
	m!.33 b	ace(ppm) 493				
	Field neadspa	ice (ppiii)				
	TPH 512 Pf					
Ground Water Sample	TPH 512 PH					
	TPH $\frac{512}{}$ Pf : Yes ${}$ No ${}$ AT THE INFORMATION	PM —	ST			
I HEREBY CERTIFY TH	TPH 512 PM: Yes No X	(If yes, attach sample results)	ST			

CLIENT: AMOÇO	P.O. BOX 8	G ENGINEI 37, BLOOMF (505) 632	TELD, N	NC. M 87413	3		\$020 <u>2</u>
FIELD REPOR	CT: CLO	SURE V	ERIFIC	CATION	PAGE	No:	of!
LOCATION: NAME: ALLE) v	WELL #: A1	PIT: 5	EP	- DATE E	TARTED:	14/95
QUAD/UNIT: D SEC:	1 TWP: 790	RNG: 12W PM:	NM CNTY	7:51 ST:NM	ENVIROR SPECIAL	NMENTAL IST:	NV
EXCAVATION APPROX2 DISPOSAL FACILITY: Accepted LAND USE:	7 FT. x 41 co Compost sidential L	1 FT x	P_ FT. DER REMEDIATIO - 00フラ	EP. CUBI ON METH	C YARD OD:)AGE: lokeme)N:	350 BY EPC DIATION DK
FIELD NOTES & REMAR	RKS: PIT LOC	ATED APPROXI	MATELY <u>10</u>)5 FT	S15W	_ FROM _{R'} <u> </u>	WELLHEAD.
NMDCD RANKING SCORE: 20					CHE	CK DNE	<u>-</u> '
SOIL AND EXCAVATION						ABANDON L TANK	ED INSTALLED
SILTY SAND, HC 000R BOTTOM - SA	NOW - COHESI IN WEST OR DISTINGUITH	IVE, SLIGHTL' SIDEWALL I SHABLE IN	y motes	, FIRM TO	DENSI SAMPL	E TTL	ONG CT. OLIVE
The state of the s	manusant per service and the service of the service	- FIE	LD 418.1 CAI	LCULATIONS			
CLOSURE	TIME SAMPLI	FIE E I.D. LAB No:	WEIGHT (g)	mL. FREON			
SCALE	1215 De	E I.D. LAB No:	WEIGHT (g)	mL. FREON	DILUTION	128	512
SCALE	1215 De	E I.D. LAB No: 6 TPH-1343 AICATE "	WEIGHT (g)	mL. FREON	1:1	118	51Z 47Z
SCALE	1215 (Pe	E I.D. LAB No:	WEIGHT (g)	mL. FREON	1:1	128	51Z 47Z
SCALE O FT PIT PERIM	TIZIS DE " OUPL FTER IN WELL MEAD J	OVM RESULT SAMPLE FIELD 1 10 10 10 10 10 10 10 10 10	WEIGHT (g) S HEADSPACE (ppm) O O T T T T T T T T T T T	mL. FREON	1:1	118	51Z 47Z
SCALE O FT PIT PERIM Z7'	TIZIS DE " OUPL FTER IN WELL MEAD J	OVM RESULT SAMPLE FIELD POD 1 C 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	WEIGHT (g) S HEADSPACE (ppm) O O J J J J J J J J J J J	mL. FREON	1:1	118	51Z 47Z
SCALE O FT PIT PERIM	TER OUPL	E I.D. LAB NO: 6	WEIGHT (g) S HEADSPACE (ppm) O O J J J J L ES	PITA A	1:1	118	51Z 47Z

BLAGG ENGINEERING, INC.

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

FIELD MODIFIED EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Amoco

Sample ID:

4 @ 6'

Project Location: Laboratory Number: Allen A1

TPH-1343

Project #:

Date Analyzed:

Date Reported:

01 - 04 - 9501 - 04 - 95

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg – – – – –
Total Recoverable Petroleum Hydrocarbons	510	20

ND = Not Detectable at stated detection limits.

QA/QC: QA/QC Sample TPH mg/kg

Duplicate TPH mg/kg

472

% *Diff.

8.13

*Administrative Acceptance limits set at 30%.

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit -- B0202

The Market of the

R. E. Onell

Well Name:
Well Site location:
Pit Type:
Producing Formation:
Pit Category:
Nearest Water Source:
Vicinity Groundwater Depth:

Allen A#1
Unit D, Sec. 1, T29N, R12W
Separator Pit
Basin Dakota
Vulnerable Area
< 1000 ft.
> 100 ft.

RISK ASSESSMENT

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 10 feet below grade.

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

- Past production fluids were contained locally by a relatively shallow sandstone bedrock located 10 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone bedrock.
- 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 (double sidewall steel tank installed). Prior discharge into the pit is believed to be under 5 barrels per day.
- 4. Field headspace readings (OVM/PID) on Basin Dakota type locations do not reflect direct correlation to total BTEX per USEPA Method 8020 concentrations. Listed below are several typical AMOCO Basin Dakota pit soil analyses comparing headspace to Benzene and total BTEX results.

LOCATION	HEADSPACE (ppm)	BENZENE (ppm)	TOTAL BTEX (ppm)
Frost, Jack B 1E	1100	0.011	5.889
Berger A1	482	0.084	0.681
Mudge Com B 1E	684	0.017	16.438
L.C. Kelly #5	1235	0.643	13.908

The comparisons listed above demonstrates that headspace testing is not an accurate measurement to Benzene or total BTEX concentrations when above standards for Basin Dakota type pits.

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of a permeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

ara la sulfui e pere el lada e a la sulfape la resultatura