P.O. Box 1980-Hobbs, NM Engrgy
District IF
P.O. Drawer DD, Artesis, NM \$8211
D. DETUTY OIL & GAS INSPECTOR
1000 NO Brazos Rd. Artec. NM \$7410
1AR 1 2 1997

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Approved.					
Operator:	Amoco Production Company	Telephone: (500) - 326-9200			
Address: 200 Amoco Court, Farmington, New Mexico 87401					
Facility Or:	JACK FROST DIT	E			
Location: Unit or Qtr/Qtr Sec_N SecZ6 TZIN R 10W County SAN TWAN					
		, Other			
Land Type: BL	M_X_, State, Fee	, other			
-'t Location: .tach diagram)	Reference: wellhead X	, width, depth, other			
Depth To Groun (Vertical distant contaminants to high water eleval ground water)	seasonal tion of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) 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 OII CON. DIV.					
pristance To Si prizontal distal lakes, ponds, ri irrigation canal	ance to perennial vers, streams, creeks,	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) RANKING SCORE (TOTAL POINTS):			

Date Remediation St	arted:	Date Completed:	4/13/95		
nediation Method: Excavation X		Approx. cubic yards	350		
(check all appropriate	Landfarmed	Insitu Bioremediation			
sections;	Other Compost	.ED			
	O CHICL				
Remediation Location: Onsite Offsite X TACK FROST C1 (ie. landfarmed onsite, name and location of offsite facility)					
General Description	Of Remedial Actio	n:			
Excavatio	on				
Cround Water Encoun	tered: No 🔀	Yes Depth			
	sample location	see Attached Documents			
Final Pit: Closure Sampling:	Gampie Tooderon _	ILTIPLE SAMPLES			
(if multiple samples, attach sample results	Sample depth	Zo'			
and diagram of sample locations and depths)	Sample date	3-30-95 Sample time			
	Sample Results				
	Benzene(ppm))			
Total BTEX(ppm)					
Field headspace(ppm) 681					
трн <u>10,000 рр</u> м					
Ground Water Sample: Yes No X (If yes, attach sample results)					
* HEREBY CERTIFY THE MY KNOWLEDGE AND	HAT THE INFORMATION BELIEF	N ABOVE IS TRUE AND COMPLE	TE TO THE BEST		
DATE 4/13/95 SIGNATURE BASISHAND PRINTED NAME BUDD. Shaw and TITLE ENVIRONMENTOL COORDINATOR					
SIGNATURE (2) Shaw AND TITLE ENVIRONMENTAL COORSINATOR					

FIELD REPORT: CLOSURE VERIFICATION PAGE NO:	CLIENT: AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.C. NO:
QUAD/UNITE N SEC. 26 TREATOR RNG/DID PM NOW CNTY: 51 July OTEXTBUTAGE: 56/9 50/9 CONTRACTOR N USASSINAL SECTIONS IN ANY EXCAVATION APPROX: 20 FT. x 32 FT. x 22 FT. DEEP. CUBIC YARDAGE: 550 DISPOSAL FACILITY: Insk Grost C1 REMEDIATION METHOD: Controlly LAND USE: APGC LEASE: 51 - 511/5 FORMATION: DR HALD NOTES & REMARKS: PIT LUCALED APPERIMANALLY 155 FT. N316 FROM WILLHEAD BETH TO COUNTRACTE 2705 BARRES DISPOSED TO THE DESIGN AREAST SUBFACE VALUE 27000 PM HALD NOTES & REMARKS: PIT LUCALED APPERIMANALLY 155 FT. N316 FROM WILLHEAD BETH TO COUNTRACT 2705 BARRES DISPOSED TO THE DESIGN AREAST SUBFACE VALUE 27000 PM COIL AND EXCAVATION DESTRICT VALUE SUBJECT TO THE COUNTRY TO STATE SUBFACE VALUE 27000 PM ARBON CATY INVESTED TO THE STATE SUBJECT TO THE COUNTRY TO STATE THE TRACK DISPOSED TO THE DESTRICT SUBJECT TO THE DESTRICT SUBJECT TO THE SUBJECT TO THE PROBLEM READING CACE PM CONDITIONAL THE SUBJECT TO THE SUBJECT TO THE PROBLEM READING CACE PM OF TO ONE SUBJECT TO THE SUBJECT TO THE SUBJECT TO THE PROBLEM READING CACE PM OF TO OVER THE TOTAL THE SUBJECT TO THE	FIELD REPORT: CLOSURE VERIFICATION F	PAGE No: of
DISPOSAL FACILITY: JACK EROST C1 REMEDIATION METHOD: COMPOSTO) LAND USE: APAGE LEASE: 51 - 07115 / FORMATION: DX DIELD NOTES & REMARKS: PIT LECATED APPRIXIMATELY 155 FT. N372 FROM WELLHEAD. BETH TO SPORME THE DOS' BLADEST VATER SUDPLE: 7/000 / NEAREST SURFACE VATER 2/000 / BROUGH RAIRING STEED: PIT LECATED APPRIXIMATELY 155 FT. N372 FROM WELLHEAD. BETH AND EXCAVATION IN LASE OF THE LEGAMEST STEED STORE WATER SUDPLE MOSTLY DR. FELL REPORT STAND IN JOSE GENULL (ADDITION CONSIST OF DK. FELL. BROWN CLAY INSTALLED MOSTLY DR. FELL REPORT STAND IN JOSE SETUL (ADDITION CONSIST OF DK. FELL. BROWN CLAY INSTALLED MOSTLY DR. FELL REPORT STAND IN JOSE SETUL (ADDITION CONSIST OF DK. FELL. BROWN CLAY INSTALLED MOSTLY DR. FELL REPORT STAND IN JOSE SETUL (ADDITION CONSIST OF DK. FELL. BROWN CLAY INSTALLED MOSTLY DR. FELL REPORT STAND IN JOSE SETUL (ADDITION FROM EXCAPTION DOT TESTING FRESAMED) STILL INDICATING CONSTANDATION FELD HAB CALL STANDARD STILL INDICATED CALL PRIME THE MALE STANDARD STILL INDICATED CONSTANDATION FELD HAB CALL STANDARD STILL INDICATED CALL PRIME THE MALE STANDARD STANDAR	QUAD/UNIT: 1 SEC: 2.6 TWP: 2/0 RNG: 1015 PM: MM CNTY: 51 ST: dm	DATE FINISHED:
DEPTH TO OPDURIDATE: 2/35 BLAPEST WATER SUBPLET STORE WATER SUPPLED THE COUNTY OF THE CONSTRUCTION TO STORE CONTINUED IN THE CONTINUE STORE CONTINUED IN THE CONTINUED INTO CONTINUED IN THE CONTINUED IN THE CONTINUED IN THE CONTINUED INTO CONTINUED IN THE CONTINUED INTO CONTINUED IN	DISPOSAL FACILITY: JACK FROST CI REMEDIATION METHOD	Conpositi)
THE DAMPLE ID LAR NO. WEIGHT (1) INT. FREND DELITION READING CALC PRIME SCALE IN MOORE SAMPLE ID LAR NO. WEIGHT (1) INT. TRENDED CONSTRUCTION OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. TRENDED CONTROL OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. TRENDED CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE ID LAR NO. WEIGHT (1) INT. FROM DELITION READING CALC PRODUCT OF THE SAMPLE IN THE SAMPLE IN THE SA	DEPTH TO GROUNDWATER: 3100 HEAREST WATER SOURCE: 37000 NEAREST SURFACE	WATER: >/300
CONDITIONAL SCALE OUTH SAMPLE ID LAB NO. WEIGHT (1) INT. FROM DICTION READING CALC. ppm THE U 418 CALCULATION THROUGHOUT SCALE OUTH SAMPLE ID LAB NO. WEIGHT (1) INT. FROM DICTION READING CALC. ppm 1/025 372/6 199/11/25 5 20 10:1/177 7,080 OUTH PERIMETER N RESULTS SAMPLE ID COVEN THE STANDARD CALC. ppm OVM PIT PERIMETER N RESULTS SAMPLE TILE THE TILE	SOIL AND EXCAVATION DESCRIPTION:	PIT ABANDONED STEEL TANK INSTALLED
CONDITIONAL (EL PASO AIT) (EL PASO AIT) (CONDITIONAL (EL PASO AIT) (INDICATING PRESUMED) STILL (INDICATING CONTAMINATION) THE UNIVERSAL CALCULATION THROUGHOUT (PROMETE ID LAB NO: WEIGHT (y) INL. FREON BILLION READING CALC. ppm (PROMETER A) (OVM (PIT) (OVM (PIT) (OVM (PIT)	OUTH SAMPLE), AUN -CONFESTE SURANTLY MOIST FIRM, SIX	ent the char
SCALE 1025 1326 134 144 155 144 156 157 177 1768 100 15 15 16 16 16 16 16 16	(CONDITIONAL) (EL PASO PIT) (TESTING PRE INDICATING C FIELD 4181 CALCULATIONS T	SUMED STILL ONTAMINATION HROUGHOUT
PIT PERIMETER N RESULTS SAMPLE FIELD HEADSPACE FILE (PPO) 1	SCALE 1025 32161 MM-1928 5 20 10:	1 177 7,080
10 (5) (1) (22' 39 681 20' 30 67 58 20' 58 67 58 20' 58 67 58 67 58 67 58 67 58 67 58 67 58 67 58 67 58 67 58 67 58 67 67 67 67 67 67 67 6	PIT PERIMETER A OVM PIT	
A (3) LAB SAMPLES SAMPLE AHALYSIS TIME 10 10 10 10 10 10 10 10 10 1	30 16' 965 783 42 15' 742 667 52 29' 569 681	A'
10 10 10 10 10 10	A (3) LAB SAMPLES SAMPLE AMALTSIS TIME	
TRAVEL NOTES: CALLOUT: $\frac{3}{30}/95$ ONSITE: $\frac{3}{50}/95$	NE(N)	

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

Project #:

Sample ID:

3 @ 16'

Date Analyzed:

03-30-95

Project Location:

Jack Frost D1E

Date Reported:

03-30-95

Laboratory Number:

TPH-1428

Sample Matrix:

Soil

Parameter

Result, mg/kg

Detection Limit, mg/kg

Total Recoverable

Petroleum Hydrocarbons

7,100

200

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample

Duplicate TPH mg/kg %

TPH mg/kg

*Diff.

14000

13000

7.41

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Dehydrator Pit - B0253

Analyst

R. E. SNOW

^{*}Administrative Acceptance limits set at 30%.

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:

5 @ 20'

Jack Frost D1E

Laboratory Number:

Project Location:

TPH-1429

Project #:

Date Analyzed:

03 - 30 - 95

Date Reported:

03 - 30 - 95

Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	10,000	200

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg

14000

Duplicate TPH mg/kg

13000

% *Diff.

7.41

*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:

Dehydrator Pit - B0253

Well Name:
Well Site location:
Pit Type:
Producing Formation:

Pit Category: Horizonal Distance to Surface Water: Vicinity Groundwater Depth: Jack Frost D #1E
Unit N, Sec. 26, T27N, R10W
Dehydrator Pit
Basin Dakota
Non Vulnerable
> 1000 ft.
> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached vertical practical extent.

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 and informal site survey of nearby bedrock outcrop information.
- 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 <u>non-vulnerable area</u> and is greater than 0.25 miles southeast of the nearest vulnerable area boundary (East Fork Kutz Canyon Wash).

(Refer to <u>Hucrfanito Peak Quadrangle, New Mexico - San Juan County, 7.5 Minute Series</u> (<u>Topographic</u>), provisional edition, 1985, (vulnerable area boundary developed by Mr. <u>William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division</u>).

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