Blow – OK
Comp – Risk non-Vulnerable
SF081239

District I
P.O. Box 1980, Hobbes, NM

District II
P.O. Drawer DD, Artesia, NM 88211

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resource 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
(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Denied 12/17/96 due to Landfarm

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9216

Address: 200 AMOCO COURT, FARMINGTON, NM 87401

Facility Or: KELLY #2 L.C.
Well Name

Location: Unit or Qtr/Qtr Sec NW/NE Sec 5 T 30 R 12 County SAN JUAN

Pit Type: Separator ____ Dehydrator ____ Other BLOW DOWN

Land Type: BLM XX State ____ Fee ____ Other ____

Pit Location: (Attach diagram)
Pit dimensions: Length 50 width 50 depth 10

Reference: wellhead XX Other ____

Footage from reference: 262'

Direction from reference: 1630 Degrees ____ East North ____ of ____ West South EAST

Depth To Ground Water: (Vertical Distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(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	(20 points)	
	No	(0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	(20 points)	
	200 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 05/11/94 Date Completed: 05/11/94

Remediation Method: Excavation XX Approx. cubic yards 925

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite XX Offsite _____

General Description of Remediation Action: CONTAMINATED SOIL WAS REMEDITED BY DILUTION AND AERIATION.

Ground Water Encountered: No _____ Yes _____ Depth _____

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

Sample location ~~See Attached~~

Sample depth _____

Sample date _____ Sample time _____

Sample Results 05/11/94 01:23:

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) 0.0 11/4/97 mv

TPH 200 ppm

Ground Water Sample: Yes _____ No XX (If yes, attach sample results)

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

DATE 5/23/98 mv

SIGNATURE ~~05/07/94~~ B D Shaw

PRINTED NAME AND TITLE BUDDY SHAW EH&S

PIT LOCATION DIAGRAM

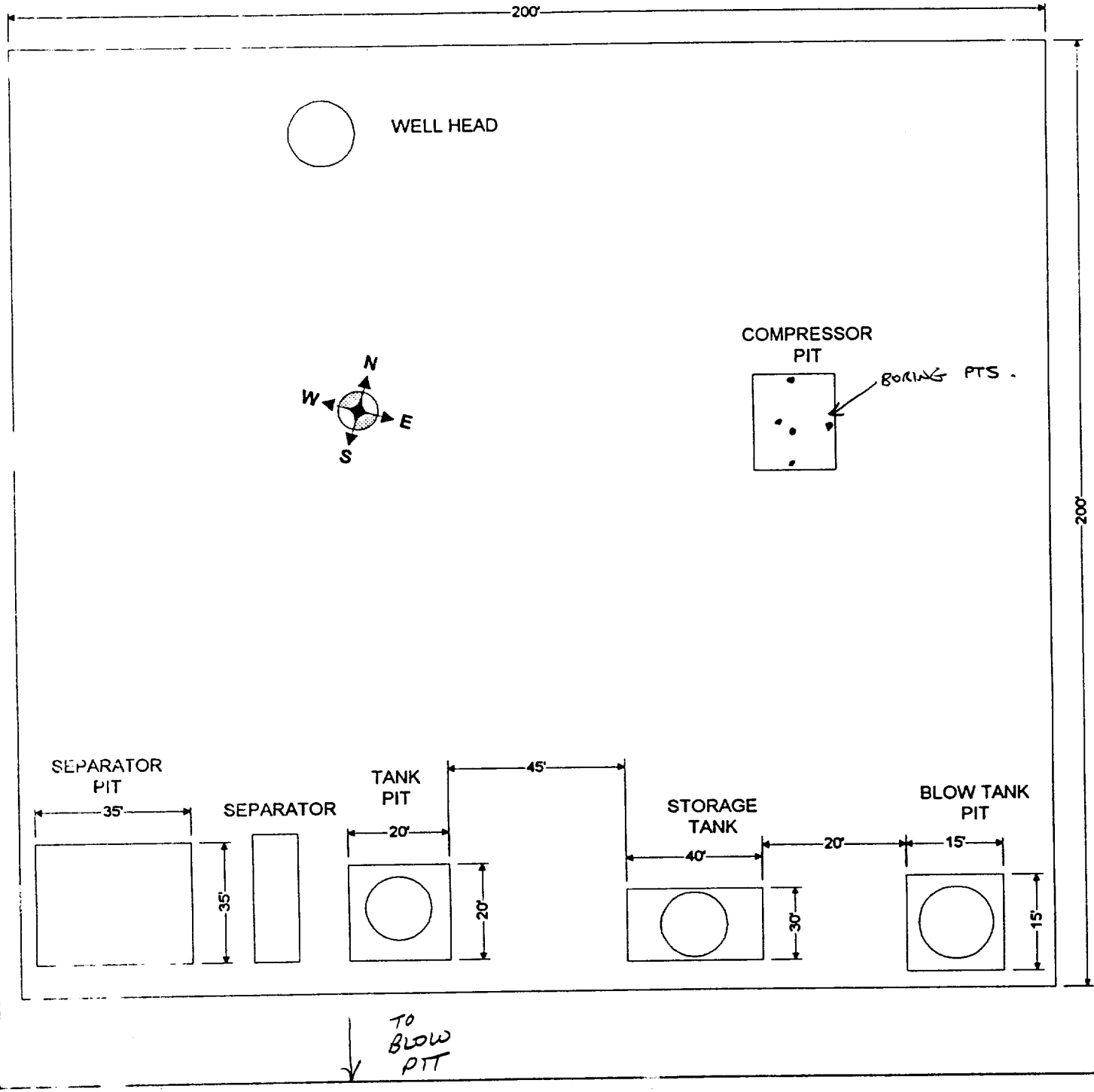
Operator: AMOCO PRODUCTION CO. Telephone: (505) 326-9219

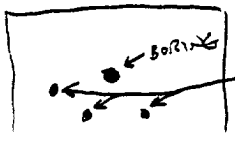
Address: 200 AMOCO COURT, FARMINGTON, NM 87401

Facility Or: L. C. KELLEY 2

Well Name

Location: Unit or Qtr/Qtr Sec B Sec 5 T 30N R 12W County SAN JUAN, NM





FINAL PIT CLOSURE SAMPLING REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9216

Address: 200 AMOCO COURT, FARMINGTON, NM 87401

Facility Or: KELLY #2
Well Name

Location: Unit or Qtr/Qtr Sec NW/NE Sec 5 T 30 R 12 County SAN JUAN

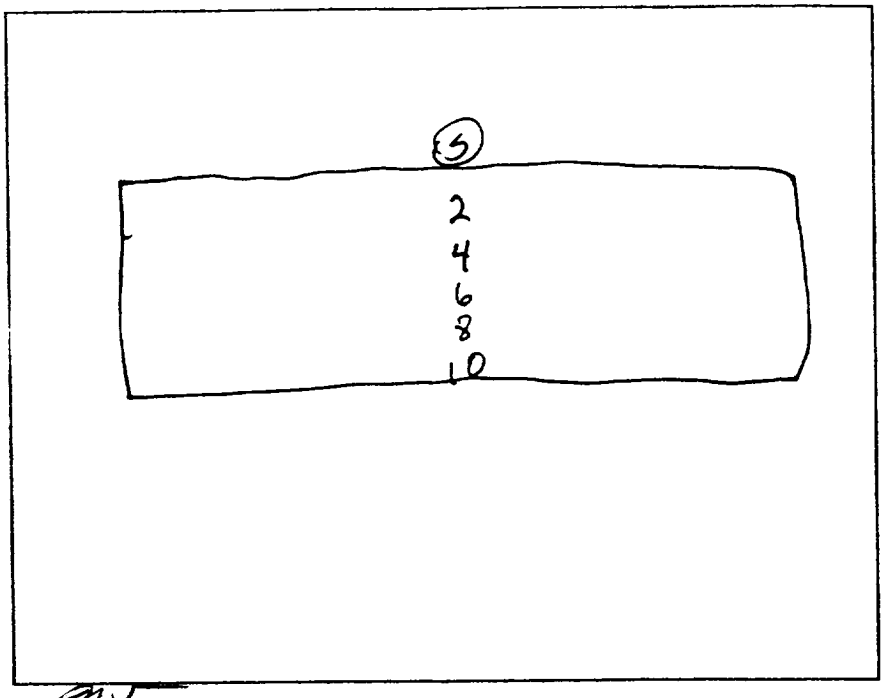
Depth	TPH
Surface	513 ppm
2 ft.	7630 ppm
4 ft.	8740 ppm
6 ft.	4670 ppm
8 ft.	3250 ppm
10 ft.	200 ppm
12 ft.	ppm
14 ft.	ppm
16 ft.	ppm
18 ft.	ppm
20 ft.	ppm
ft.	ppm
ft.	ppm
ft.	ppm

OVM

10 FT. 0.0 ppm

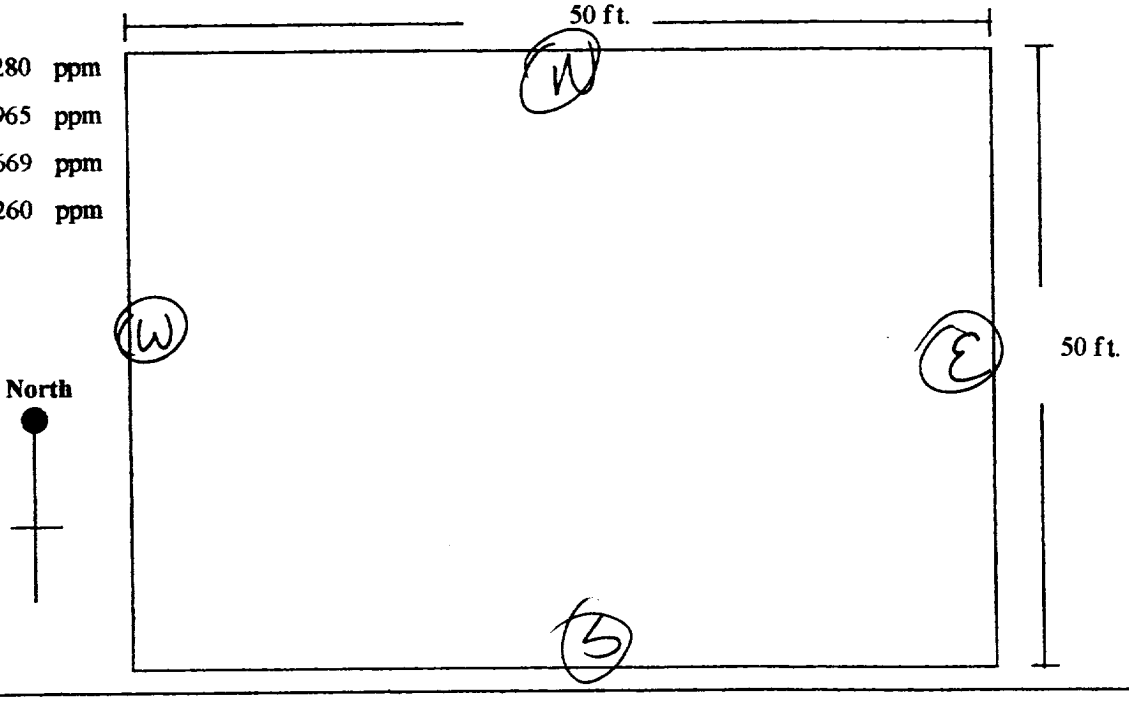
SV

SIDE VIEW



TOP VIEW

North Side	280 ppm
East Side	965 ppm
South Side	669 ppm
West Side	260 ppm



CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: WEE
C.O.C. NO: 5424

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: L.C. KELLY WELL #: 2 PITS: BLOW
QUAD/UNIT: B SEC: 5 TWP: 30N RNG: 12W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NW¼ NE¼ CONTRACTOR: WHOLE EARTH

DATE STARTED: 11/4/97
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: MW/JCB

SOIL REMEDIATION:

REMEDIATION SYSTEM: DILUTION & AERATION
APPROX. CUBIC YARDAGE: 925
LAND USE: RANGE
LIFT DEPTH (ft): NA

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

BORING CONDUCTED @ PIT CENTER ACCORDING TO PIT CLOSURE RECORD, REACHED 11' DEPTH FROM GRADE, NO DISCOLORATION OR HC ODOR OBSERVED THROUGHOUT BORING, COLLECTED 2 SAMPLE PTS. FROM BORING @ 5' & 10' BELOW GRADE, COLLECTED 3 SAMPLE PTS. USING HAND AUGER (DEPTHS RANGING FROM 1'-2' BELOW GRADE) IN PIT AREA, NO DISCOLORATION OR HC ODOR ENCOUNTERED, COLLECTED 5 PT. COMPOSITE FOR LAB ANALYSIS OF DILUTED & AERATED SOIL, PLACED BACK IN EXCAVATED PIT AREA.

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS

SEE SITE MAP

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
BA-1	0.0
@ 10'	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
BA-1	TPH (8015)	1220	18.2

SCALE
0 FT

TRAVEL NOTES: CALLOUT: NA ONSITE: 11/4/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	DA - 1	Date Reported:	11-06-97
Laboratory Number:	C409	Date Sampled:	11-04-97
Chain of Custody No:	5424	Date Received:	11-05-97
Sample Matrix:	Soil	Date Extracted:	11-05-97
Preservative:	Cool	Date Analyzed:	11-05-97
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)	**18.2**	**0.1**
Total Petroleum Hydrocarbons	**18.2**	**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: **L. C. Kelly #2 Blow Pit 5 Pt. Composite.**

Analyst

Review

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District I
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District II
P.O. Drawer DD, Artesia, NM 88211

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State of New Mexico
Energy, Minerals and Natural Resource Department

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P.O. Box 2088
Santa Fe, New Mexico 87504-2088

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(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9216

Address: 200 AMOCO COURT, FARMINGTON, NM 87401

Facility Or: L C KELLY #2
Well Name

Location: Unit or Qtr/Qtr Sec NW/NE Sec 5 T 30 R 12 County SAN JUAN

Pit Type: Separator ____ Dehydrator ____ Other COMPRESSOR

Land Type: BLM XX State ____ Fee ____ Other ____

Pit Location: (Attach diagram)
Pit dimensions: Length 15 width 15 depth 26

Reference: wellhead XX Other ____

Footage from reference: 112'

Direction from reference: 78 Degrees ____ East North EAST of ____ West South ____

Depth To Ground Water: (Vertical Distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet	(20 points)	
	50 feet to 99 feet	(10 points)	
	Greater than 100 feet	(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	(20 points)	
	No	(0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	(20 points)	
	200 feet to 1000 feet	(10 points)	
	Greater than 1000 feet	(0 points)	0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 05/11/94 Date Completed: 05/11/94

Remediation Method: Excavation XX Approx. cubic yards 216

Landfarmed _____ Insitu Bioremediation _____

Other _____

Remediation Location: (ie. landfarmed onsite, name and location of offsite facility) Onsite XX Offsite _____

General Description of Remediation Action: _____

CONTAMINATED SOIL WAS REMEDIATED BY DILUTION AND AERIATION. VERY HARD CLAY ENCOUNTERED @ 16' BELOW GRADE. NO APPARENT HC ODOR OBSERVED @ THAT DEPTH. RISK ASSESSED.

Ground Water Encountered: No X GW Yes _____ Depth _____

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

Sample location _____

~~See Attached~~

Sample depth _____

Sample date _____ Sample time _____

Sample Results 05/11/94 02:05:

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) < 100' @ 16' 11/4/97 GW

TPH 3,420 ppm @ 16'

Ground Water Sample: Yes _____ No XX (If yes, attach sample results)

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

DATE 5/23/98 GW

SIGNATURE ~~05/07/94~~ BD Shaw

PRINTED NAME AND TITLE

BUDDY SHAW EH&S

FINAL PIT CLOSURE SAMPLING REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9216

Address: 200 AMOCO COURT, FARMINGTON, NM 87401

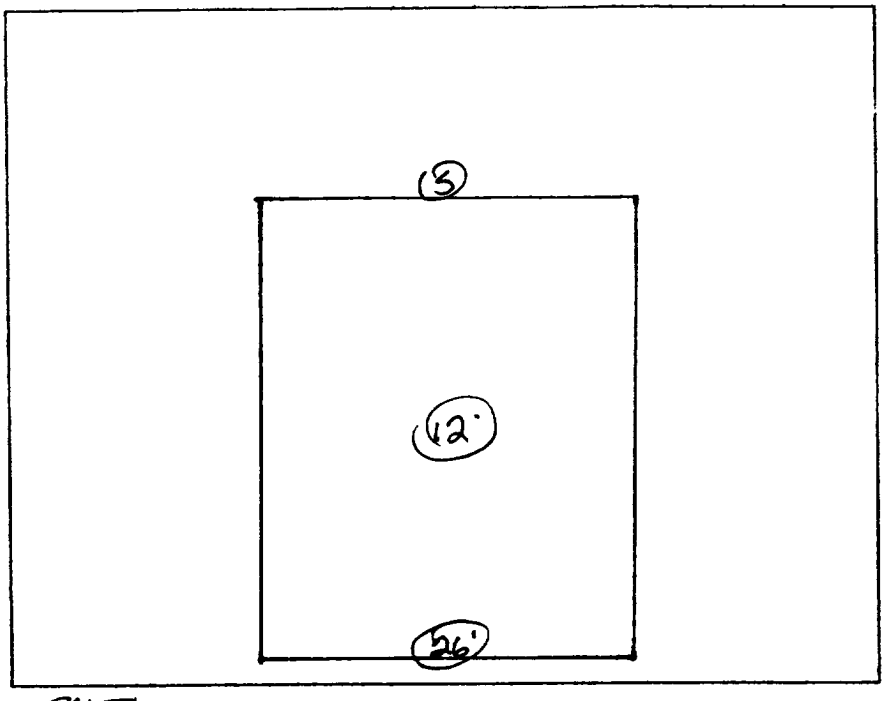
Facility Or: KELLY #2
Well Name

Location: Unit or Qtr/Qtr Sec NW/NE Sec 5 T 30 R 12 County SAN JUAN

Depth	TPH
Surface	8650 ppm
2 ft.	13890 ppm
4 ft.	45200 ppm
6 ft.	ppm
8 ft.	9860 ppm
10 ft.	ppm
12 ft.	7630 ppm
14 ft.	ppm
16 ft.	3420 ppm
18 ft.	ppm
20 ft.	4850 ppm
26' ft.	622 ppm
ft.	ppm
ft.	ppm

16' over <100 ppm

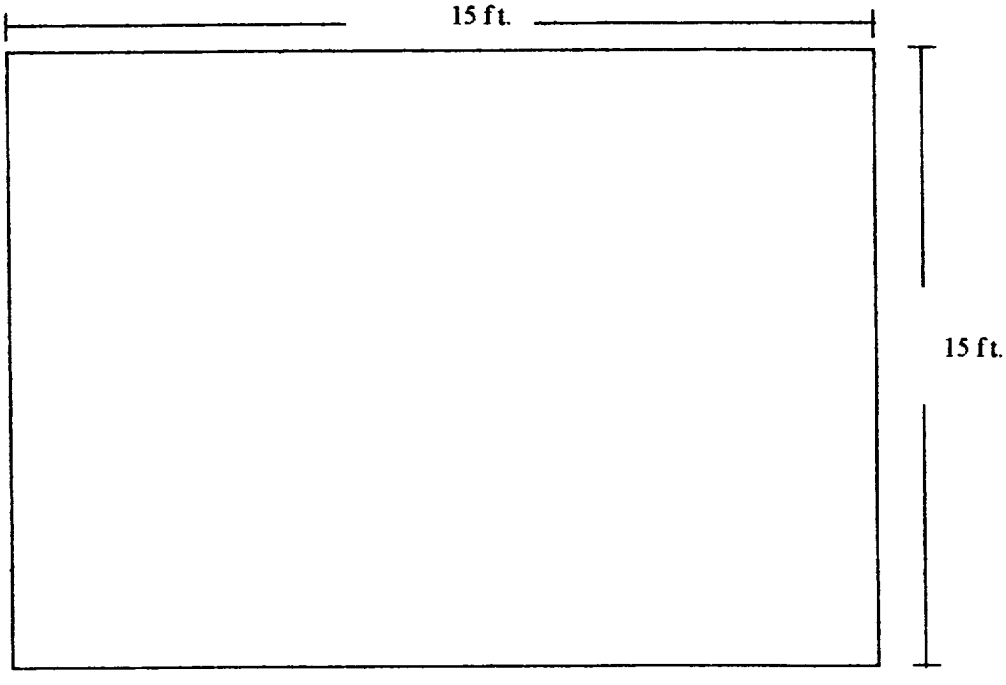
SIDE VIEW



BV

TOP VIEW

North Side	218 ppm
East Side	707 ppm
South Side	38 ppm
West Side	556 ppm



Well Name:	**Kelly, L.C. #2**
Well Site location:	Unit B, Sec. 5, T30N, R12W
Pit Type:	Compressor Pit
Producing Formation:	Basin 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 mobile drill rig developed auger refusal at 16 ft. below grade (hard clay).

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 informal site observation of adjacent sandstone 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 approximately 0.14 miles northwest of the nearest vulnerable area boundary (Flora Vista Arroyo).

(Refer to Flora Vista Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), photorevised 1979, (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 and lateral contamination is limited and impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: WEE
C.O.C. NO: 5424

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: L.C. KELLY WELL #: 2 PITS: COMPRESSOR
QUAD/UNIT: B SEC: 5 TWP: 30N RNG: 12W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NW/4 NE/4 CONTRACTOR: WHOLE EARTH

DATE STARTED: 11/4/97
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV/JCB

SOIL REMEDIATION:

REMEDIATION SYSTEM: DILUTION & AERATION APPROX. CUBIC YARDAGE: 216
LAND USE: RANGE LIFT DEPTH (ft): NA

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

UNABLE TO REACH 26' DEPTH @ PIT AREA (PIT BOTTOM CLOSURE DEPTH INDICATED ON PIT VERIFICATION FORM), REACHED MAX. DEPTH OF 16' HARD CLAY, CONDUCTED 5 INDIVIDUAL BUCKETS @ PIT AREA, BLACK DISCOLORATION ENCOUNTERED @ DEPTHS RANGING FROM 5' TO 8' BELOW GRADE @ PIT CENTER, STRONG HC ODOR ASSOCIATED W/ DISCOLORATION, COLLECTED 5 PT. COMPOSITE FOR LAB ANALYSIS OF DILUTED & AERATED SOIL PLACED BACK IN EXCAVATED PIT AREA.

FIELD 418.1 CALCULATIONS

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

SKETCH/SAMPLE LOCATIONS

SEE SITE MAP

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
DA-1	188
@ 16'	<100

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME	RESULTS
DA-1	TPH (8015)	1145	199

SCALE
0 FT

TRAVEL NOTES: CALLOUT: NA ONSITE: 11/4/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	DA - 1	Date Reported:	11-06-97
Laboratory Number:	C408	Date Sampled:	11-04-97
Chain of Custody No:	5424	Date Received:	11-05-97
Sample Matrix:	Soil	Date Extracted:	11-05-97
Preservative:	Cool	Date Analyzed:	11-05-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	**144**	**0.2**
Diesel Range (C10 - C28)	**55.4**	**0.1**
Total Petroleum Hydrocarbons	**199**	**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: **L. C. Kelly #2 Compressor Pit 5 Pt. Composite.**

Analyst

Review

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5424

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location	ANALYSIS/PARAMETERS
BLAGG / AMOCO	L.C. KELLY #2	
Sampler: (Signature) Nelson Velez	Chain of Custody Tape No. 04034-10	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (8015)						Remarks
DA - 1	11/4/97	1145	C408	SOIL	1	✓						COMPRESSOR PIT
DA-1	11/4/97	1220	C409	SOIL	1	✓						BLOW PIT
												BOTH SAMPLES
												PRESERV. - COOL &
												ARE 5 PT.
												COMPOSITES.
				Samples received cool & intact								

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	11/5/97	0708	Dena L. Spencer	11-5-97	0708
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

Ref COC's 5424, 5425, 5426, 5427

ENVIROTECH INC.
5796 U.S. Highway 64-3014
Farmington, New Mexico 87401
(505) 632-0615