

Denny E. Faust
DEPUTY OIL & GAS INSPECTOR

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

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

JUN 23 1998

PIT REMEDIATION AND CLOSURE REPORT

Approved
Operator: Golden Oil Company *Chace* Telephone: (713) 622-8492

Address: 550 Post Oak Boulevard, Suite 550 Houston, Texas 77027

Facility or Well Name: Jicarilla 71-9

Location: Unit or Qtr/Qtr Sec A Sec 10 T 23N R 4W County Rio Arriba

Pit Type: Separator Dehydrator Other Production Tank

Land Type: Range

Pit Location: Pit dimensions: length 12', width 9', depth 8'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 75'
Direction from reference: 90 Degrees East of North X
X West 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: June 18, 1997 Date Completed: October 10, 1997

Remediation Method: Excavation X Approx. cubic yards 25
(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____
Other _____

Remediation Location: Onsite X 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: Sample location see Attached Documents
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 4 wall composite

Sample date 10-10-97 Sample time 1227

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>.4</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>67</u>	Total Xylenes	(ppb)	_____

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 December 22, 1997 PRINTED NAME Frank McDonald

SIGNATURE Frank McDonald AND TITLE Environmental Specialist

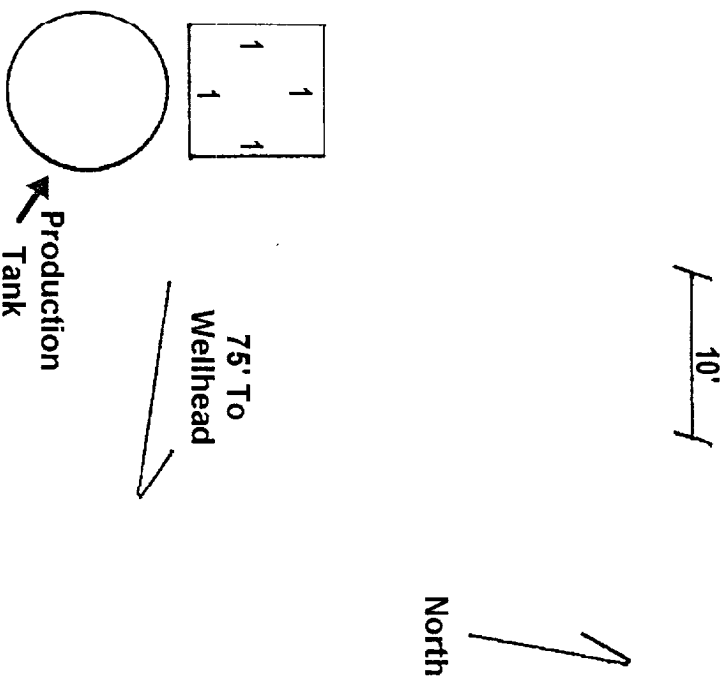
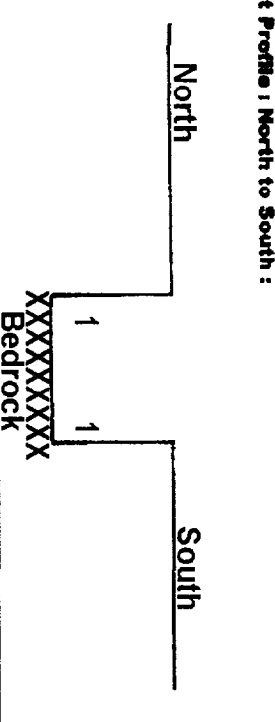
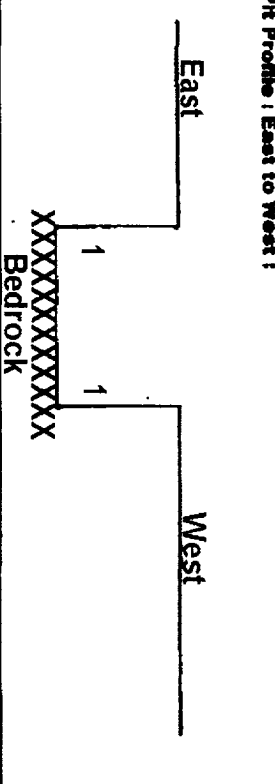
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: Lee C. Marshall DATE: 2-6-9

Client : Golden Oil Company

Date Started : October 10, 1997 Date Completed : October 10, 1997

Location : Jicarrilla 71-9		Overview of Location and Sampling :																																								
Quad : A	Section : 10																																									
Range : 4W	Township: 23N																																									
Pit : Production Tank																																										
Reference : 75' N 90 W	<table border="1"><thead><tr><th>Sample #</th><th>Location</th><th>QVM</th></tr></thead><tbody><tr><td>1</td><td>Comp of</td><td>0.4</td></tr><tr><td>2</td><td>wells</td><td></td></tr><tr><td>3</td><td></td><td></td></tr><tr><td>4</td><td></td><td></td></tr><tr><td>5</td><td></td><td></td></tr><tr><td>6</td><td></td><td></td></tr><tr><td>7</td><td></td><td></td></tr><tr><td>8</td><td></td><td></td></tr><tr><td>9</td><td></td><td></td></tr><tr><td>10</td><td></td><td></td></tr><tr><td>11</td><td></td><td></td></tr><tr><td>12</td><td></td><td></td></tr></tbody></table>	Sample #	Location	QVM	1	Comp of	0.4	2	wells		3			4			5			6			7			8			9			10			11			12				
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Of wellhead																																										
Initial Size : 8'x8'x3' deep																																										
Final Size : 12'x9'x8' deep																																										
Yds. Excavated : 25 cubic yards																																										
Depth to Groundwater:	> 100																																									
Nearest Water Source:	> 1000																																									
Nearest Surface Water:	> 1000																																									
NMOCDD Ranking Score:	0																																									
TPH Closure Standard:	5000																																									
Comments : 0' - 2' Sandy loam, light brown/purple, slight odor 2' - 7' Hard packed shale, purple/green, no HC odor 7' Bottom, hard packed shale, purple/green no HC odor																																										
All production to tank has ceased.																																										
Pit Profile : North to South :		Pit Profile : East to West :																																								
																																										

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Frank McDonald*
Company: *Cimarron Oilfield Service*
Address: *P.O. Box 3235*
City, State: *Farmington, NM 87401*

Date: *15-Oct-97*
COC No.: *6521*
Sample No.: *16578*
Job No.: *2-1000*

Project Name: *Cimarron Oil Field Service*
Project Location: *71-9; Tank Pit*
Sampled by: *BS*
Analyzed by: *HR*
Sample Matrix: *Soil*

Date: *10-Oct-97* Time: *12:27*
Date: *14-Oct-97*

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
<i>Total Petroleum Hydrocarbons, TPH</i>	<i>67</i>	<i>25</i>	<i>mg/kg</i>	<i>EPA Method 418.1</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>ND</i>	<i>ND</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>913</i>	<i>800-1200</i>	<i>mg/kg</i>

Duplication

Laboratory Identification	RPD	Limit RPD
<i>16574-6521</i>	<i>0.7</i>	<i>15.0</i>

Approved by: *[Signature]*
Date: *10/12/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

CHAIN OF CUSTODY RECORD

6521

Date: 10-10-97

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of

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

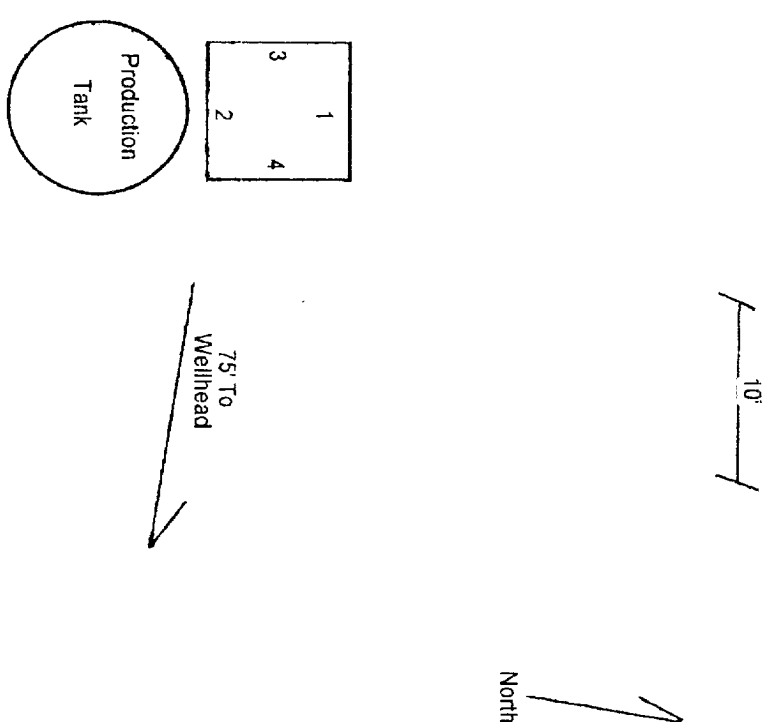
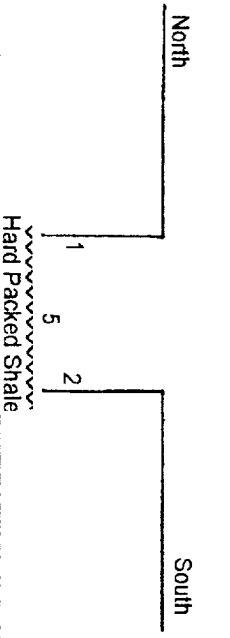
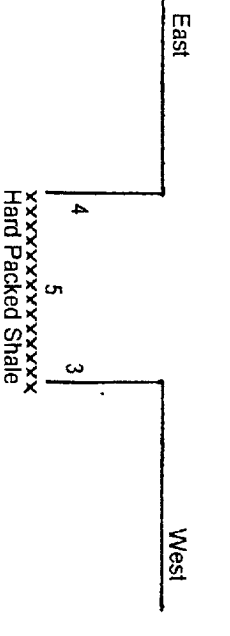
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Distribution: White - On Site	Yellow - LAB	Pink - Sampler	Goldenrod - Client
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Client : Golden Oil Co.

Date Started : 6-18-97

Date Completed : 6-18-97

Location : <u>Jicarilla 71-9</u>		Overview of Location and Sampling :		
Quad : <u>A</u> Section : <u>10</u>				
Range : <u>4W</u> Township: <u>23N</u>				
Pit : Production Tank				
Reference : <u>75' N 90 W</u> of wellhead		Sample #	Location	OVM
Initial Size : <u>8' x 8' x 3' deep</u>		1	Nwall @ 6'	15.5
Final Size : <u>12' x 9' x 7' deep</u>		2	Swall @ 6'	7.8
Yds. Excavated : <u>21 cy</u>		3	Wwall @ 6'	2
		4	Ewall @ 6'	7.5
		5	Btm @ 7'	4.9
		6		
Depth to Groundwater: <u>> 100</u>		7		
Nearest Water Source: <u>> 1000</u>		8		
Nearest Surface Water: <u>> 1000</u>		9		
NMOCD Ranking Score: <u>0</u>		10		
TPH Closure Standard: <u>5000</u>		11		
		12		
Comments : <u>0' - 2' Sandy loam, light brown/purple, slight odor</u> <u>2' - 7' Hard packed shale, purple/green, no odor</u> <u>7' Bottom, Hard packed shale, purple/green, no odor</u> <u>All production to pit has ceased</u>				
Pit Profile : North to South :		Pit Profile : East to West :		
				

Environmental Specialist: BS

Cimarron Oilfield Services

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