

## dugan production corp.

Denny & Fourt DEPUTY OIL & GAS INSPECTOR

JUL 11 A 1996



Mr. Bill Olson New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, NM 87505

Re: Final Excavation Closure
Dugan Production Corp's
My Place No. 1
Unit L, Sec. 3, T29N, R15W
San Juan County, NM

Dear Mr. Olson,

We are writing to request approval from the New Mexico Oil Conservation Division to fill in three excavated areas on the well site location of the captioned well, leaving a small amount of hydrocarbon contamination in place. The My Place No. 1 wellbore was plugged and abandoned on March 24, 1994 and all surface equipment has been removed. This well is on the edge of the established Vulnerable Area being very close to the 100' contour for the San Juan River. The Farmers Mutual Irrigation Ditch is also up gradient along the northern edge of the well location. Attachment No. 1 was reproduced from the Waterflow USGS topographic map and presents the My Place No. 1 well location along with the approximate boundary of the Vulnerable Area which I've traced from the Official Vulnerable Area maps.

Attachment No. 2 is a diagram of the My Place No. 1 wellsite which was drawn approximately to scale and presents the approximate locations of the three areas excavated during our site assessment; the separator pit (No. 1), tank drain pit (No. 2) and the bermed area used for the oil storage tanks prior to their removal (No. 3). Also presented is the area used to landfarm the material removed from the three excavations.

Our assessment of this site for pit closure requirements was initiated on October 18, 1995 and included excavating all hydrocarbon contaminated material from the separator and tank drain pits, however, after removing approximately 182 cubic yards of rock and sand from the bermed area previously used for the oil storage tanks, we still had some contaminated material in the southwesterly side wall of the excavation which had been dug out to approximately 28' x 16' and approximately 14' deep. Along this side wall, the

contaminated area is approximately 4' wide and extends from approximately 8' to 12' in depth. The contaminated material appears to have been removed from the sidewalls in all other directions and we believe that the vertical movement is limited to the 14' excavated. The material recovered was approximately 80% river rock (some as large as 18" in diameter) and 20% sandy soil. The material remaining in a southwesterly direction is believed to contain very little actual contamination based upon our excavation work in the tank drain pit (pit no. 2) and the fact that we also do not see any contamination along the hillside which drops off approximately 60' just 14-15' west of the excavation. The reasons we are requesting to leave this material in place are:

- The aerial extent is limited to approximately 300 ft<sup>2</sup> (0.007 acres) and has been delineated with a high degree of confidence by our excavation work in excavations no. 2 & 3 plus the westerly edge of the location.
- 2.) Surface water is believed to be at least 70' deep based upon known water depths in a water well approximately 2/3 of a mile to the southwest (SESW Sec. 4, T29N, R15W) and the San Juan River level approximately 1/3 of a mile to the southwest.
- 3.) The proximity of the Farmers Mutual Irrigation Ditch provides little concern as the ditch is up-gradient from our area of concern and it appears that the ditch is fairly well sealed as we did not encounter any water in our excavations and the soil excavated was fairly dry. We did not accumulate any water in the excavations during the 7½ months that they have been open and the ditch did carry water until early December 1995 and was returned to service in early April 1996.
- 4.) Our location is underlain by the Fruitland Coal at an approximate depth of 40 to 50' which will serve as a vertical barrier should there be any concern that vertical movement may occur at some future date.
- 5.) The material being excavated consists of approximately 80% river rock and 20% sandy soil and is very difficult to dig. Removal of the remaining contamination can be done, however, it will be fairly costly to do so and will require that the existing excavations be filled-in in order to have room to locate the digging equipment and to pile the excavated material between the existing excavation and the ±14' to the location edge. We do not believe that this effort is warranted by the small amount of contaminants that remain.

Pit Remediation and Closure Reports for the three areas excavated are attached along with copies of Site Assessment Reports prepared

by Blagg Engineering dated 10/29/95 and 5/9/96 which present results of all site assessment and testing performed. Please note that even though each excavation carries a ranking score of 30 points, primarily the result of proximity to the Farmers Mutual Irrigation ditch, since the ditch is up-gradient to all three excavations, Mr. Denny Foust has agreed that contamination from our sites is of no concern to the up-gradient irrigation ditch and that we could use a closure standard of 1000 ppm TPH rather than 100 ppm TPH which corresponds with the ranking score of 30. It is our understanding that Mr. Foust did discuss this concession with you at the time we were doing our assessment and that you were in agreement that we could discount our down-gradient proximity to the irrigation ditch and use the 1000 ppm TPH closure standard that would otherwise exist for this site.

All excavated material was spread on location in the area presented on Attachment No. 2 at depths of 6" to 18" and was mixed with a total of 200 lbs. of 46-0-0 commercial blended fertilizer. Landfarming operations began on 10/20/95 and a composite sample taken by Blagg Engineering on May 1, 1996 after ±6 months tested a TPH of 14.3 mg/kg and had a field PID reading of 7 ppm. The soil appears to have remediated sufficiently and is ready to be returned to the excavated sites, which we are now proposing.

Should you have any questions or need additional information, please let me know.

Sincerely,

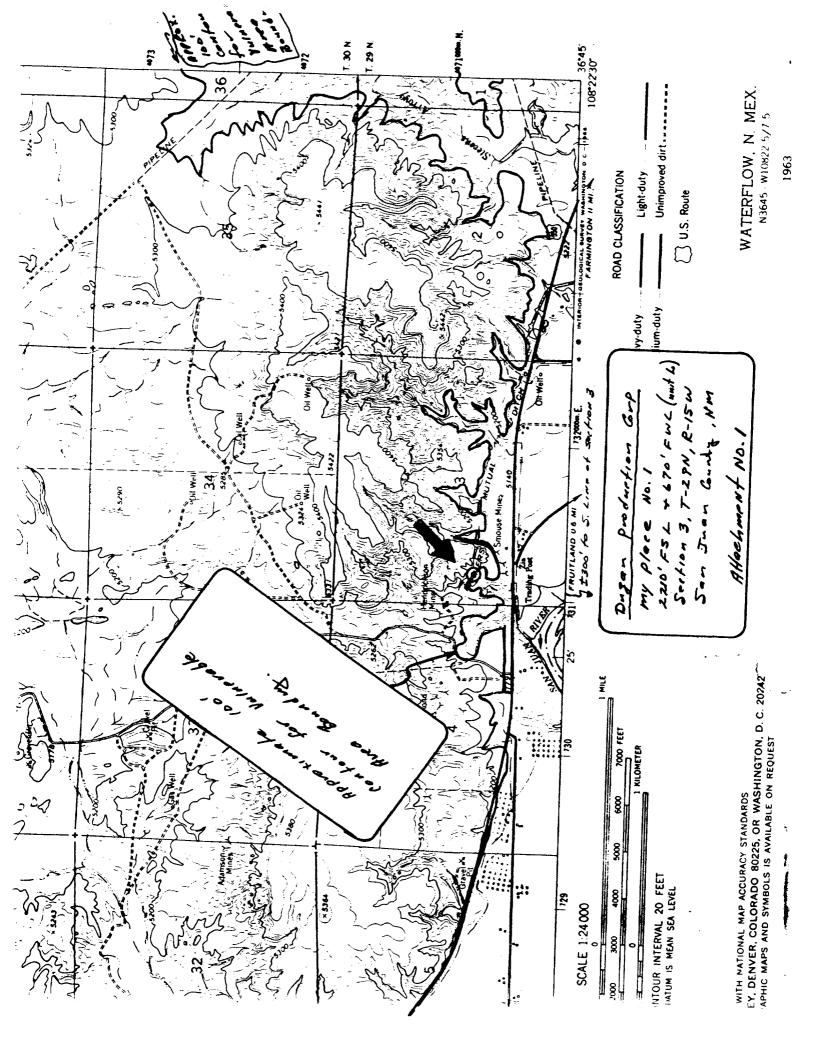
John & Roe

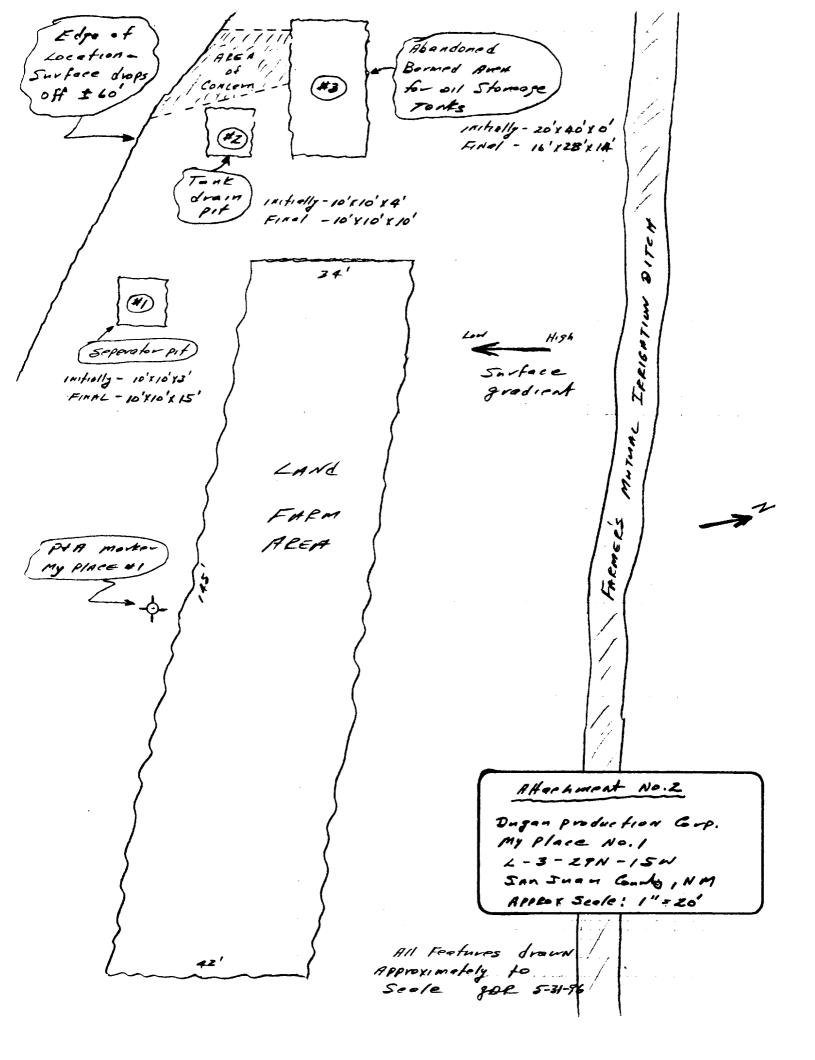
John D. Roe

Manager of Engineering

JDR/cg

(cc:) Mr. Denny Foust - NMOCD, Aztec





1 NMUUD - Aztec District I P.O. Ber 1990, Holle, MM Santa Fe State of New Mexico
P.O. Ber 1990, Holle, MM Energy, Minerals and Matural Resources Department District II P.O. Drewer DD, Artesia, NM 88211 District III 1000 Rio Brazos Rd, Aziec, NM 87410

#### OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

State of New Mexico

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

(Revised 3/9/94)

### PIT REMEDIATION AND CLOSURE REPORT

Dig.	an Production Corp.	505_325_1821
		Telephone: 505-325-1821
	. Box 420, Farmington, NM	
Facility Or:	My Place Well No. 1 (Pit )	No. 1 of 3)
Location: Unit	or Qtr/Qtr SecLs	Sec 3 T 29N R 15W County San Juan
Pit Type: Sepa	rator X Dehydrator	Other
Land Type: BL	M, State, Fee _X	, Other
Pit Location: (Attach diagram)		n 10', width 10', depth 3'
	Reference: wellhead $\underline{X}$	, other
	Footage from reference:	65'
	Direction from reference	ce: 85 Degrees East North X
		of X West South
		· · · · · · · · · · · · · · · · · · ·
Depth To Ground (Vertical distance contaminants to se high water elevati ground water) est	lon of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points)
		Yes (20 points) No (0 points)
Distance To Sur (Horizontal distantal lakes, ponds, rive irrigation canals	ce to perennial ers, streams, creeks,	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points)  20*
* -pit is ±90' dox	wn gradient from Farmer's Mu	RANKING SCORE (TOTAL POINTS):

Date Remediation St	arted: 10-18-95	Date Completed: 5-	-1-96
Remediation Method:		Approx. cubic yards	
(Check all appropriate sections)		Insitu Bioremediation	
	Other		
	<del></del>		
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)		site	
		using a backhoe, excavated	
hydrocarbon contaminati	on from 4' to ±13' and	clearing 13' to 15'. Excava	ted sidewalls ±5'
east & west to depth of	15'. Contamination of	eleared both directions. Mater	rial removed from
pit consisted of approx	80% river rock & 20%	sand and was landfarmed on s	ite mixing with
46-0-0 industrial grade	e fertilizer. TPH of o	composite landfarm sample 5-1-9	6 = 14 <b>.3</b> mg/kg
(lab 8015) & field PID	= 7 ppm.		
Ground Water Encoun	tered: No X	Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location	Pit center (Blagg Engineer T	
Closure Sampling: (if multiple samples, attach sample results and diagram of sample			
Closure Sampling: (if multiple samples, attach sample results	Sample depth 15'	Pit center (Blagg Engineer T	
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth 15' Sample date 10-1 Sample Results - Bi	Pit center (Blagg Engineer To 19-95 Sample time Lagg Engineering reports dated 19/96 are attached & include to	HI @ 15')  10/27/95 & est results of
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth 15' Sample date 10-1 Sample Results - Bi 5, Benzene(ppm)	Pit center (Blagg Engineer Total)  19-95  Sample time  19/96 are attached & include total same	HI @ 15')  10/27/95 & est results of
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth 15'  Sample date 10-1  Sample Results - Bi 5,  Benzene(ppm)  Total BTEX(pp	Pit center (Blagg Engineer To	HI @ 15')  10/27/95 & est results of
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth 15' Sample date 10-3 Sample Results - Bi 5, Benzene(ppm) Total BTEX(pp	Pit center (Blagg Engineer Total)  19-95  Sample time  Lagg Engineering reports dated /9/96 are attached & include total sam  m)  ce(ppm) 47	HI @ 15')  10/27/95 & est results of
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth 15' Sample date 10-3 Sample Results - Bi 5, Benzene(ppm) Total BTEX(pp	Pit center (Blagg Engineer To	HI @ 15')  10/27/95 & est results of
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth15'  Sample date10-1  Sample Results - Bi 5,  Benzene(ppm)  Total BTEX(pp  Field headspa  TPH100 mg/l	Pit center (Blagg Engineer Total)  19-95  Sample time  Lagg Engineering reports dated /9/96 are attached & include total sam  m)  ce(ppm) 47	10/27/95 & est results of pling.
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)  Ground Water Sample	Sample depth15' Sample date10-1 Sample Results - B1 5, Benzene(ppm) Total BTEX(pp Field headspa TPH100 mg/1 : Yes No _X	Pit center (Blagg Engineer Total)  19-95  Sample time  Lagg Engineering reports dated 79/96 are attached & include total sam  m)  ce(ppm) 47  Gg Field 418.1	HI @ 15')  10/27/95 & est results of pling.
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)  Ground Water Sample  I HEREBY CERTIFY TH	Sample depth15'  Sample date10-1  Sample Results5,  Benzene(ppm)  Total BTEX(pp  Field headspa  TPH100 mg/1  Yes No _X  AT THE INFORMATION  BELIEF	Pit center (Blagg Engineer Total)  19-95  Sample time  Lagg Engineering reports dated (9/96 are attached & include total)  all sam  m)  ce(ppm) 47  Gg Field 418.1  (If yes, attach sample  ABOVE IS TRUE AND COMPLET	HI @ 15')  10/27/95 & est results of pling.

1 NMOCD - Aztec P O. Box 1980, Hobbs, NO. District II P.O. Drumer DO, Artesia, NM \$1211

1 NMOCD - Santa Fe State of New Mexico Energy, Minerals and Natural Resources Department

SUBHIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA PE OFFICE

District III 1000 Rio Brazos Rd, Azlec, NM 87416

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Pe, New Mexico 87504-2088

(Revised 3/9/94)

#### PIT REMEDIATION AND CLOSURE REPORT

				<del></del>
Operator:	Dugan Production Corp.		Telephone:	505-325-1821
Address:	P.O. Box 420, Farmington	n, NM 87499		
Facility Or:	My Place Well No. 1 (Pi	t 2 of 3)		
Location: Unit o	r Qtr/Qtr SecLs	Sec 3 T 29N R	15W County San	Juan
Pit Type: Separ	ator Dehydrator (	Other Tank D	rain Pit	
	, State, Fee X			
		_,		
(Attach diagram)	Pit dimensions: length Reference: wellhead <u>X</u>			
1	Footage from reference:	100'		
ı	Direction from reference	e: 60 Degr	ees East	North X
			X West	
			West	souch
Depth To Ground (Vertical distance contaminants to sea high water elevation ground water) est	from sonal on of	50 feet to 9	feet (20 9 feet (10 100 feet (0	points)
Wellhead Protect (Less than 200 feet domestic water sour 1000 feet from all	from a private		Yes (20 ) No (0	
Distance To Surf (Horizontal distance lakes, ponds, river irrigation canals a	e to perennial s, streams, creeks, nd ditches)	Greater than	1000 feet (10 ) 1000 feet (0 )	points) 20*
* - pit is ± 75' de	own gradient from Farmer's	RANKING SCOR	S (TOTAL POINT)	30*

	10-	18-95	Data Gambatata	5–1–96
Date Remediation St			Date Completed:_	
Remediation Method: (Check all appropriate			pprox. cubic yards _	
sections)	Landfarmed	<u>^</u> I	nsitu Bioremediation	
	Other	<del> </del>		
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)		X Offsit		
General Description	Of Remedial	Action: Us	sing a backhoe, excavated	pit to 10'. Had
hydrocarbon contaminati	on from 4' to 9	' and clean	9' to 10'. Excavated si	dewall approx. 5'
NE to depth of 10'. Ha	d no contaminat	ion. Materi	al removed from pit cons	isted of approx.
80% river rock and 20%	sand and was la	and farmed or	n site mixing with 46-0-0	industrial grade
fertilizer. TPH of com	posite landfarm	sample 5/1,	/96 = 14.3 mg/kg (Lab 801	.5) and field PID=
7 ppm.				
Final Pit: Closure Sampling:			center (Blagg Engineering	
(if multiple samples, attach sample results	Sample depth	10'		<del></del>
and diagram of sample locations and depths)			Sample time	
	Sample Resul	l <b>ts</b> - Blagg 5/9/9	Engineering reports date 5 are attached & include all	ed 10/27/95 & test results of
	Total E	TEX (ppm)		
	Field h	eadspace(	opm)2	
•	<b>TPH</b> 30	00 mg/kg - f	ield 418.1	
Ground Water Sample	. Yes	No <u>X</u> ()	If yes, attach sample	results)
I HEREBY CERTIFY TH OF MY KNOWLEDGE AND		ATION ABO	/E IS TRUE AND COMPLE	TE TO THE BEST
<b>DATE</b> 5-31-96	o be	NAMI DETRIE	John D. Roe	
SIGNATURE galan	D, Roe PA	ONTED NAME OD TITLE	Engineering Manager	

1 NMOCD - Aztec

District I P.O. Box 1960, Hobbs, NM District II P.O. Drawer DD, Artesia, NM \$8211 District III 1000 Rio Brazos Rd, Aztec, NM 87410

#### 1 NMOCD - Santa Fe State of New Mexico Energy, Minerals and Matural Resources Department

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#### OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

(Revised 3/9/94)

#### PIT REMEDIATION AND CLOSURE REPORT

Operator:	Dugan Production Corp.		Telephone:	505-325-1821
Address:	P.O. Box 420, Farmington	, NM 87499		
Facility Or:	My Place Well No. 1 (Exca	avation No. 3 of	3)	
Location: Unit	or Qtr/Qtr SecLS	ec 3 T 29N R 15	W County Sa	n Juan
Pit Type: Sepai	rator Dehydrator (	Other Oil tank	bermed area	
	M, State, Fee X			
Bermed Area Excav.  Pit Location: (Attach diagram)	Reference: wellhead X  Footage from reference:  Direction from reference	_, other	ees East	
Depth To Ground (Vertical distance contaminants to se high water elevati ground water) es	e from easonal ion of	Less than 50 50 feet to 99 Greater than	9 feet (1	0 points) 0 points) 0 Points) 10
			Yes (2 No (	0 points) 0 points) 0
Distance To Sur (Horizontal distantal lakes, ponds, rive irrigation canals	nce to perennial ers, streams, creeks,	Less than 200 200 feet to 3 Greater than	1000 feet (1	
* - excavation is	± 50' down gradient from Fa	RANKING SCORI	<b>(TOTAL POI</b>	NTS): 30*

Date Remediation St	arted:	10-18-95		Date Completed:	5-1-96
Remediation Method:			Appı	cox. cubic yards	192
(Check all appropriate sections)		rmed X	Insi	itu Bioremediation	
	Other	<del></del>			
Remediation Locatio (ie. landfarmed onsite, name and location of offsite facility)		<del></del>	-		
General Description maximum depth of 14' wisiquificantly clearing contamination clearing only 14' existed to ede on hill side of location rock & 20% sand and lan of composite landfarm s	from 12' Sidewa ge of loc on. Mate	to 14'. E all to west cation which crial remove on site mix	amination excavated s had contam dropped o d from exc sing with 4	sidewalls to north, somination, but was not off ± 60' & contaminated of 60' and off to 16-0-0 industrial grade	uth & east with excavated since ion was not evident approx. 80% river e fertilizer. TPH
Ground Water Encoun	tered:	No X	Yes	Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample	location	<del></del>	end of excavation g Engineering TH2N @ 1	4')
attach sample results and diagram of sample	Sample	depth	14'		
locations and depths)		date 10-		Sample time	
·			5/9/96 ai	gineering reports date re attached & include of all samplin	test results
		otal BTEX(			
	F	ield heads			
	T	PH 330 mg	g/kg - Fie:	ld 418.1	
Ground Water Sample	: Yes	No soil	X (If very dry	yes, attach sample	results)
I HEREBY CERTIFY TH. OF MY KNOWLEDGE AND			N ABOVE	IS TRUE AND COMPLE	TE TO THE BEST
<b>DATE</b> 5-31-96	_	DDINGS	n Nimb	John D. Roe	
SIGNATURE for the	, Roe	PRINTE AND TI	D NAME	Engineering Manager	

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

October 27, 1995

Mr. John Roe, Engineering Manager Dugan Production Corporation P.O. Box 420 Farmington, New Mexico 87499

Re:

Pit Assessment

My Place #1 Well Location

Dear Mr. Roe:

Attached are field reports and laboratory results for pit assessment work performed by Blagg Engineering, Inc. (BEI) at the Dugan Production Corporation Gary C #1 well location. This work was initiated on October 18, 1995 and completed on October 19, 1995. Three areas were assessed: a Separator pit, a Tank Drain pit, and the area within the tank berm. The My Place #1 is an abandoned well.

Field analysis of TPH was performed using a Total Petroleum Hydrocarbon Analyzer manufactured by General Analysis Corporation and the Field Headspace Method was performed using a Photoionization Detector (PID) manufactured by Environmental Instruments Company.

Contamination in the Separator pit was found to be limited to the pit area and extending to a depth of approximately 14 feet. Contaminated soils in excess of OCD standards were excavated and landfarmed on the well pad. Contamination in the Tank Drain pit was also found to be limited to the pit area and extended to a depth of approximately 10 feet. These contaminated soils were also excavated and landfarmed on the well pad. Contamination in the abandoned tank berm area was more extensive and found to extend slightly to the west outside of the berm and to a depth of approximately 13 feet. The majority of these contaminated soils were excavated and landfarmed on the well pad. Some contaminated soils could not be excavated at the northwest extent of the excavation due to interference with a steep embankment at the western boundary of the location.

Field test results for TPH and OVM sampling are presented in Table 1. The excavated pits were fenced for safety. It has been proposed by the operator to sample and analyze the landfarmed soils at a future date to determine the status of bioremediation. Following successful treatment, the soils are proposed to be returned to the excavated pits.

Respectfully submitted,

Blagg Engineering, Inc.

Robert E. O'Neill, M.S.

Civil Engineering, Environmental

Polent E. O'Noill

Reviewed by:

Jeffrey C. Blagg, P.E.

Jeffy C. Stagg

President

Attachments GARY-C#1.COV

Table 1
Dugan Production Corporation
My Place #1
Field Assessment Analytical Results

Date	Pit	Sample Description	Headspace (ppm)	TPH (ppm)
10-18-95	Separator	TH1 @ 9'	646	NA
10-19-95	Separator	TH1 @ 15'	47	100
10-19-95	Separator	TH2 @ 8'	7	32
10-18-95	Tank Drain	TH1 @ 6'	4	7100
10-18-95	Tank Drain	TH1 @ 10'	2	300
10-19-95	Tank Drain	TH3 @ 7'	0	24
10-19-95	Tank Berm	TH2N @ 14'	151	330
10-19-95	Tank Berm	TH2S @ 7'	NA	140

CLIENT: DULY PRO. BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	PIT NO:
FIELD REPORT: SITE ASSESSMENT	JOB No:
PROJECT: PIT ASSESSMENT  CONTRACTOR: STOUGE + SONS  EQUIPMENT USED: BACKHOE	DATE STARTED: 10 - 13 - 15 DATE FINISHED: 10 - 13 - 15 ENVIRO. SPCLT: RCO-OPERATOR: HO 6490
LOCATION: MY PLACE # PIT TYPE:	S EPARATOR
QUAD/UNIT: L SEC: 3 TWP: 24 W RING: 13 6 PM. PM CI	WASAY CHICKE
QTR/FOOTAGES: NW/SW LEASE #: FEE - LAND USE: FURAL SURFACE CONDITIONS: COMBLES	- SMIN - CEMENT
FIELD NOTES & REMARKS: PIT IS LOCATED APPROXIMATELY 65 FEET N.  DEPTH TO G.W: >50' NEAREST WATER SOURCE: >1000' NEAREST SUR  RANKING SCORE: 10 CLOSURE STD: 1000 **	85°ω DF WELLHEAD.
SAMPLE INVENTORY  SMPL SMPL LABBRATORY ID: TYPE: MANALYSIS:  TOUS GAB 418.1  TH#: STANDARD OF 1000 PYM TIDH  TOUS GAB SUPL ONLY FOURT AND SOIL SUPL ONLY FOURT AND AND SOIL SUPL ONLY FOURT AND SOIL SUPL ONLY FOURT AND AND SOIL SUPER SOIL SUPL ONLY FOURT AND SOIL SUPL ONLY FOURT AN	Per approval of m, on Oct 24, 1995.

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO:
FIELD REPORT: PIT CLOSURE VERIFICATION	)N
QUAD/UNIT: L SEC: 3 TWP: 29 N RNG: 15 W BM: N'M CNTY: SJ ST: NM	DATE STARTED: 10-18-95 DATE FINISHED: 10-24-95
QUAD/UNIT: L SEC: 5 TAP: 217 RNG: 5 & BM: 1-1 CHTT: 55 57.	ENVIRONMENTAL REG
EXCAVATION APPROX. 10 FT. x 15 FT. DEEP. CUBIC	2 YARDS: 44
DISPOSAL FACILITY: ON SITE REMEDIATION METHODIC LEASE: FEE FORMAT	LAND FARM
FIFID NOTES & REMARKS: DIT LOCATED APPROXIMATELY 65 FEET N.	850 FROM WELLHEAD.
DEPTH TO GROUNDWATER   750 NEAREST WATER SOURCE: 1000 NEAREST SURFACE	WATER /S UPGANIE
NMOCD RANKING SCORE, 10 NMOCD TPH CLOSURE STD: 1000 PPM	
SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: HAS BEEN P+	
CONTAMINATED SOILS GRAY + BLACK WITH HEAVY ODOR. ALL ET	K CHUNTED AND
LAMPAREMED ON LOCATION. VERTICAL + LATERAL EXTENT OF CO	
ON ASSETSMENT, ** CLOSURE STANDARD OF LOOD PPM TPB PER APPROVAL OF NIMO	CD, MR. DEMNY FOUST
AMO MA. BILL OLSON, ON OCTOBER 24, 1995.  FIELD 418.1 CALCULATIONS  FIELD 418.1 CALCULATIONS  FIELD 418.1 CALCULATIONS  FIELD 418.1 CALCULATIONS	nom
SAMPLE I.D. LAB No: WEIGHT (g) mL. FREON DILUTION READING CALC	
SCALE	
O S 10FT OVM	
PIT PERIMETER RESULTS PIT	PROFILE
TRAVEL NOTES:  CALLOUT:  SAMPLE FIELD HEADSPACE PRD (ppm)  1 2 3 3 4 5 LAB SAMPLES  LAB SAMPLES  ONSITE:	15'

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:

Sample ID: Project Location:

Laboratory Number:

Dugan Production Corp.

TH1 @ 15' My Place #1 TPH-1625 Project #:

Date Analyzed: Date Reported: 10-19-95 10-20-95

Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg 	
Total Recoverable Petroleum Hydrocarbons	100	10	

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg

920

Duplicate TPH mg/kg % \*Diff.

910

0

\*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

R. E. OTall Analyst

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:

Dugan Production Corp.

Project #:

Sample ID:

TH2 @ 8'

Date Analyzed:

10-19-95 10-20-95

Project Location: Laboratory Number: My Place #1 TPH-1626 Date Reported: Sample Matrix:

Soil

Parameter

Result, mg/kg

Detection Limit, mg/kg

Total Recoverable

Petroleum Hydrocarbons

32

10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg

920

Duplicate TPH mg/kg %

-----

910

\*Diff.

1

\*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

R. F. O Tall
Analyst

CLIENT: DUGAN PROB.	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	PIT ND:
FIELD REPORT:  PROJECT: PIT ASSESSMENT  CONTRACTOR: STOVEC + SON EQUIPMENT USED: BACKHOE		DATE STARTED: 10-18-95  DATE FINISHED: 10-19-95  ENVIRO. SPCLT: REO  OPERATOR: HUMAN
LOCATION: MY PLACE #	TWP: 29 N RNG: IS W PM: NM C	TANK DRAIN  NTY: S J ST: NM  - HARRY SMOUSE
DEPTH TO G.W: 250 NEAR  RANKING SCORE: 10 *  SAMPLE INVENTORY  SMPL SMPL LABORATORY  ANALYSIS:  TIØ 6 GAB 418.1 IS  TIØ 10 GAB " IS  T2 NO 14 GAB " IS  T2 NO 14 GAB " IS  SCALE 10 X10 X 4 DEP	SOUTH BO SE OF HOLE   T25	REFACE WATER <u>50 upgand</u> N P+A. NO STALLY, NO STALLY, NO STALLY OLOR, GS:_
	70 - G A GAB 2 - E - TD - TD - 14 -	603 NO

CLIENT: DUGAN	BLA P.O. BOX	GG ENGINE 87. BLOOM	ERING, INC FIELD, NM	87413	LUCATION NO:
		(505) 632	2-1199		C.O.C. NO:
FIELD	REPORT:	PIT CLO	SURE VERI	FICATIO	
LOCATION: NAME: MY					DATE STARTED: 10-18-95  DATE FINISHED: 10-24-15
QUAD/UNIT: L SEC:					ENVIRONMENTAL PEO
EXCAVATION APPROX.  DISPOSAL FACILITY:	10 FT. x _	lo ft. x l	<b>O</b> _ FT. DEEP.	CUBI	ı
LAND USE: RUE	16	EASE: F	EE	FDRMA	TION:
FIELD NOTES & REMAR	KS: PIT LOCAT	TED APPROXIMA	TELY 100 1000 NEARE	FEET N	600 FROM WELLHEAD. WATER: 50 WELLHEAD.
NMOCD RANKING SCORE:	O NMUCD TPH	CLOSURE STD: 10	DO PPM		
SOIL AND EXCAVATION D	ESCRIPTION:	PIT DISPOSIT	10N: W	stadon e	80
CONTAMINATED SOI	cs exchang	80 YMD CYM	FARMED ON	LOCATIO	V. VERTICAL AM
LATERAL EXTENT OF					
* CLOSUFE STAMONED OF	of lovo ppm	THE PEC	APPROVAL OF	NM OCS	, MR. DEMY FOUST
AND MR. BICL OC	•	TELD 418.1 CALC			
SAMPLE I	.D. LAB No: W	EIGHT (g) mL. FF	REON DILUTION REA	ADING CALC	. ppm
SCALE					
O 5 19TT PIT PERIM	ETER	OVM RESULT		PIT	PROFILE
10	TANK	SAMPLE FIE ID	LD HEADSPACE PID (ppm)		
	Beem	3			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Acen	5			
TROUL	)				1
( DENIN )					lo'
		LAB SA	MPLES		
	TO WELL MARTICAR	2112			
To	,				
Se <sup>P1</sup> PIT					
TRAVEL NOTES: CALLOUT:		0	NSITE:		

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO:
FIELD REPORT: PIT CLOSURE VERIFICATION	ON
QUAD/UNIT: L SEC: 3 TWP: 29 N RNG: 15W BM: NM CNTY: SJ ST: NM	DATE STARTED: 10-18-95 DATE FINISHED: 10-24-95 ENVIRONMENTAL
	SPECIALIST: PEU
EXCAVATION APPROX. 28 FT. x 16 FT. x 11 FT. DEEP. CUBIC DISPOSAL FACILITY: ON SITE REMEDIATION METHOD LAND USE:FORMA	LANDFARM
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 100 FEET 10 DEPTH TO GROUNDWATER: 750' NEAREST VATER SOURCE: 71000' NEAREST SURFACE NMOCD RANKING SCORE: 10 * NMOCD TPH CLOSURE STD: 1000 PPM	SOW FROM WELLHEAD.
TIL THUMBIDIC KESULIS	SSESS MENT FOR OTS OCB, MA. DEMNY FOUST
PROD.  TANK  BERM  ACCORD  TO UTCH  BERM  ACCORD  TO UTCH  MANHER	14' m4 K.
TRAVEL NOTES: CALLOUT: ONSITE:	

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:

Dugan Production Corp.

Project #:

Sample ID:

TH1 @ 6'

Date Analyzed:

10-18-95

Project Location:

My Place #1

Date Reported:

10-20-95

Laboratory Number:

TPH-1618

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable		
Petroleum Hydrocarbons	7,100	100

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg Duplicate

%

TPH mg/kg

\*Diff.

920

910

1

\*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:

Tank Drain Pit

R. E. O'Noll Analyst

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:

Dugan Production Corp.

Project #:

Sample ID:

TH1 @ 10'

Date Analyzed:

10-18-95

Project Location:

My Place #1

Date Reported:

10-20-95

Laboratory Number:

TPH-1619

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable		
Petroleum Hydrocarbons	300	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg

Duplicate

%

TPH mg/kg

\*Diff.

920

910

1

\*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:

Tank Drain Pit

R. E. O'Nell Analyst

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:

Dugan Production Corp.

Project #:

Sample ID:

TH2N @ 14'

Date Analyzed:

10-19-95

Project Location:

My Place #1

Date Reported:

10-20-95

Laboratory Number:

TPH-1623

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg	
Total Recoverable Petroleum Hydrocarbons	330	10	

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg

Duplicate

%

TPH mg/kg

\*Diff.

920

910

1

\*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:

Tank Drain

R. E. O Noull Analyst

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:

Dugan Production Corp.

Project #:

Sample ID:

TH2S @ 7'

Date Analyzed:

10-19-95

Project Location:

My Place #1

Date Reported:

10-20-95

Laboratory Number:

TPH-1624

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable	140	10
Petroleum Hydrocarbons	140	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample

Duplicate

%

TPH mg/kg

TPH mg/kg

\*Diff.

920

910

1

\*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:

Tank Drain

P. E. Onell Analyst

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:

Dugan Production Corp.

Project #:

10-19-95

Sample ID:

TH3 @ 7'

Date Analyzed: Date Reported:

10-20-95

Project Location:

My Place #1 TPH-1622

Sample Matrix:

Soil

Laboratory Number:

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	24	10

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg

Duplicate

%

TPH mg/kg

\*Diff.

920

910

1

\*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:

Tank Drain Pit

R. E. Orall Analyst

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

May 9, 1996

Mr. John Roe, P.E.

Dugan Production Corporation
P.O. Box 420

Farmington, New Mexico 87499

Re:

Soil Sampling Analytical Results & Pit Closure

My Place No. 1 Well Location, San Juan County, NM

Dear Mr. Roe:

Blagg Engineering, Inc. (BEI) is pleased to submit this letter report concerning soil sampling at the Dugan Production Corporation (DPC) My Place No. 1 well, located in unit L, Sec 3-T29N-R15W, San Juan County, New Mexico. Pursuant to your request sampling was conducted on May 1, 1996 to determine the remediation status of landfarmed soils that originated from earthen pits excavated in October, 1995. Testing and evaluation results of the earthen pit sidewalls and bases were included in a BEI report to DPC dated October 27, 1995.

#### Landfarm Test Results

Soil sampling of the on-site landfarm included arbitrary five (5) point composite sample collection for field determination of volatile organic compounds and laboratory analysis of total petroleum hydrocarbons. The composite sample was thoroughly mixed and placed into appropriate sample containers. Field testing for organic vapor analysis was conducted using the headspace method with a calibrated photoionization detector. A split sample was collected into a glass sample container, stored on ice and submitted to a qualified laboratory for analysis of total petroleum hydrocarbons (TPH) using U.S. EPA Method 8015.

Analytical results of the composite sample are attached. The field headspace value indicated a residual concentration of volatile organic compounds of 7.0 parts per million (ppm) and laboratory analysis of TPH by U.S. EPA Method 8015 reported a concentration of 14.3 mg/Kg (equivalent to 14.3 ppm). Both values are below closure standards for this site. The New Mexico Oil Conservation Division (NMOCD) ranking score for the location was determined following consultation with Mr. Denny Foust and Mr. William Olson of NMOCD on October 24, 1995. The closure standard was set at 100 ppm for field headspace and 1,000 ppm for TPH. The landfarm sample results obtained on May 1, 1996 were found to be below these closure standards, and closure of the landfarm is recommended by BEI.

#### Earthen Pit & Tank Berm Closure

Two (2) earthen pits and one (1) tank berm area were evaluated for hydrocarbon impacts using excavation in October, 1995. Contaminated soils in excess of NMOCD closure standards were

excavated from the separator pit and tank drain pit on the location. Test results of the sidewalls and pit bottoms for both of these pits following excavation determined that pit closure requirements had been achieved. Results of this testing were included in a letter report submitted to DPC on October 27, 1995.

The tank berm area at the My Place No. 1 location also contained hydrocarbon contamination. Excavation of the tank berm impacted soils was conducted in October 1995 and resulted in development of a pit with approximate dimensions 28' long x 16' wide x 11' average depth. The base, southern and eastern extent of hydrocarbon contamination in excess of NMOCD standards was excavated from this pit. However, there remained visually evident contamination at the northwest extent of the pit that could not be excavated due to space limitations between the pit boundary and a steep embankment falling off to the west. This steep embankment was located approximately 14 feet from the western extent of the excavation and there was no hydrocarbon contamination visually evident on the side of the embankment. It is BEI's opinion that lateral migration of hydrocarbon contamination in the northwest direction from the pit would be limited due to the presence of the steep hill dropping off in this direction.

#### Recommendation for Closure

BEI recommends closure of the landfarm, earthen pit excavations and tank berm excavation at the My Place No. 1 well location. Soils excavated from these pits have been remediated on-site by landfarming. A composite soil sample from the landfarm collected on May 1, 1996 for testing of field headspace and laboratory TPH determined that NMOCD closure standards had been achieved.

Contaminated soils excavated from the separator pit and tank drain pit on the location were excavated in October, 1995. Pit sidewall and bottom testing conducted in October, 1995 determined that these pits were within NMOCD closure standards. The tank berm area was also excavated in October, 1995 and contaminated soils at the southern, eastern and base of the pit were removed. Some contamination was visually evident on the northwest sidewall of this excavation, but space and safety limitations created by a steep embankment west of this pit prevented further excavation. The lateral extent of contamination to the northwest in this pit is restricted by the presence of the steep embankment, and remaining contamination is believed to be limited.

Respectfully submitted, Blagg Engineering, Inc.

Jeffrey C. Blagg, President

Jeffy C. Blagg

NMPE 11607

Attachments:

Landfarm Closure Verification Field Report Laboratory Analytical Reports

CLIENT: DUGAN PROOK CT ION	P.O. BOX 87	ENGINEERING, I BLOOMFIELD, N 505) 632-1199	NC. M 87413	LDCATION NO:
FIELD REPORT:	LANDFARM/	COMPOST PILE	CLOSURE	VERIFICATION
LOCATION: MY PLA	(E #	LEASE: F	EE	DATE STARTED: 5-1-96 DATE FINISHED:
QUAD/UNIT: L SEC: 3	TWP: 29 N RNG:	CONTRACTOR: ST	over	ENVIRONMENTAL REST
SOIL REMEDIATION:				
REMEDIATION SYS	TEM: LAND F	ARM APPRO	X. CUBIC Y	ARDAGE: 298
LAND USE:	RURKL			
FIELD NOTES & REMAR	RKS:	> 1 au a 1		C. A. CALAIGUT
DEPTH TO GROUNDVATER >			LAREST SURFACI	E VATERI SO UT ATTOINT
NHOOD RANKING SCORE:	NHOCD TPH CLOS	SURE STD: 1000 PPM	M KAAM	
COMPOSITE SOIL 64	white collected	FROM THE LA	CALIG LI	AUY CAMIP.
sal cousists of	A MOIST -> L	SAY, BROWN, SHUDY	coppue, it	at aba,
LIGHT STAW AND	LIGHT ONE E	viber of soil.		
	FIEL	D 418.1 CALCULATIONS		
SAMPLE	I.D. LAB No: WEIGH	T (g) ML. FREON DILUTION	READING CALC	C. ppm
			i	
arrangu /aurata t	OCATIONS		•	
SKETCH/SAMPLE I	OCATIONS			
	4.7	OVM RESULTS	L	AB SAMPLES
	\ \'\^\\\	SAMPLE FELD HEADSPACE PD (ppm)	<u> </u>	ANALYSIS TIME RESULTS
<u> </u>	1 =	comp, A 7.0	COMP. A	8015 0950 14.3
- WEL (A)				
- MACKER				
	}	OG 11 E		
SCALE				
	م السلط			
TRAVEL NOTES: CALLOUT	4 - 26 - 96	ONSITE: S	1-96	0 9 30
				FUND RETINES 4/78

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#### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg Eng. / Dugan	Project#:	04034
Sample ID:	Comp. A	Date Reported:	05-01-96
Laboratory Number:	A157	Date Sampled:	05-01-96
Chain of Custody No:	4774	Date Received:	05-01-96
Sample Matrix:	Soil	Date Extracted:	05-01-96
Preservative:	Cool	Date Analyzed:	05-01-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.4
Diesel Range (C10 - C28)	14.3	0.4
Total Petroleum Hydrocarbons	14.3	0.4

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:

My Place #1, Landfarm.

Dama. Cyenew

Stacy W Sendler
Review



## QUALITY ASSURANCE / QUALITY CONTROL DOCUMENTATION



## EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

#### **Quality Assurance Report**

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	QA/QC Laboratory Blank 05-01-TPH.BLANK Methylene Chloride N/A N/A	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis Requested:	N/A 05-01-96 N/A N/A 05-01-96 TPH
---	--	---	--

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Gasoline Range C5 - C10 Diesel Range C10 - C28	ND ND	0.4 0.4
Total Petroleum Hydrocarbons	ND	0.4

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:

QA/QC for sample A157.

Analyst

Stacy W Sendler
Review



# EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons Quality Assurance Report

Client:	QA/QC	Project#:	N/A
Sample ID:	Matrix Duplicate	Date Reported:	05-01-96
Laboratory Number:	A157	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	Cool	Date Analyzed:	05-01-96
Condition:	Cool and Intact	Analysis Requested:	TPH

Parameter	Sample Result (mg/Kg)	Duplicate Result (mg/Kg)	Percent Difference
Gasoline Range (C5 - C10)	ND	ND	0.0%
Diesel Range (C10 - C28)	14.3	14.4	0.1%
Total Petroleum Hydrocarbons	14.3	14.4	0.1%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:	Parameter	Max Difference
	Petroleum Hydrocarbons	30%

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992.

Comments: QA/QC for sample A157.

Dem L. Ciene

Stacy W Sendler
Review



#### **EPA METHOD 8015 Modified** Nonhalogenated Volatile Hydrocarbons **Total Petroleum Hydrocarbons Quality Assurance Report**

Clie	nt:	
_		

QA/QC

N/A

Sample ID:

Matrix Spike

Laboratory Number:

A157

05-01-96

Sample Matrix:

N/A

Analysis Requested:

Soil **TPH**  Date Sampled: Date Received:

N/A

Condition:

N/A

Date Analyzed:

Project #:

Date Reported:

05-01-96

Parameter	Sample Result (mg/kg)	Spike Added (mg/kg)	Spiked Sample Result (mg/kg)	Det. Limit (mg/kg)	Percent Recovery
Gasoline Range (C5 - C10)	ND	250	250	0.4	100%
Diesel Range (C10 - C28)	14.3	250	266	0.4	101%
Total Petroleum Hydrocarbons	14.3	500	516	0.4	100%

ND - Parameter not detected at the stated detection limit.

QA/QC Acceptance Criteria:

Parameter

Acceptance Range

Petroleum Hydrocarbons

75 - 125%

References:

Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, July 1992.

Comments:

QA/QC for sample A157.

Stacy W Sendler

Analyst

CHAIN OF CUSTODY RECORD

Clent/Project Name R LAGG /	/ Buch		Project Location  M.Y. PLACE	CHAIN OF CUSIOUT RECORD	TO IS	¥	OHO	ANALYSIS/F	ANALYSIS/PARAMETERS		
Sampler: (Signature) R. P. Orland	Dien		Chain of Custody Tape No.	NO.		ļ	51			Remarks	
Sample No./ Identification	Sample Date	Sampte Time	Lab Number	Sample Matrix		No.: Contai	<b>3</b> &	<del></del>			
COMP. A	2-1-96	0620	4157	Soll		_	7			LAND FARLY	
Relinquished by: (Signature)	O red	B		Date Time S-1-96 105 Y		Received by (Signature)	sature)	0		Date (5-1-96	Time
Relinquished by: (Signature)					<del> </del>	Received by: (Signature)	ature)			•	
Relinquished by: (Signature)					Received	Received by: (Signature)	lature)				
				ENVIROTECH INC. 5796 U.S. Highway 64:3014 Farmington, New Mexico 87401 (505) 632-0615	IROTECH ] J.S. Highway 64 on, New Mexic (505) 632-0615	INC. -3014 o 87401				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	to 900 may 9 and 1000 for