NM2 - 9

PERMITS, RENEWALS, & MODS Closed



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor Joanna Prukop Cabinet Secretary

March 31, 2003

Lori Wrotenbery Director Oil Conservation Division

Mr. John Cunningham R&J Enterprises P.O. Box 51 Farmington NM 87499

RE: Closure of R&J Enterprises Rule 711 surface waste management facility NW/4 NE/4 of Section 16, T 20 N, R 12 W, NMPM, Mckinley County, New Mexico

Dear Mr. Cunningham:

The New Mexico Oil Conservation Division (OCD) is in receipt of the R&J Enterprises Pit Remediation and Closure Report dated March 14, 2002 for the Nose Rock evaporation ponds. Based on the Remediation and Closure Report, the analytical data dated January 15, 2001, the OCD July 19, 2002 inspection, and the OCD pit closure approval letter dated December 2, 2003 Based on the information provided. The OCD hereby approves of the closure R&J Enterprises Rule 711 surface waste management facility evaporation ponds.

Please be advised that OCD approval does not relieve R&J Enterprises of liability should any remaining contaminants result in pollution of the ground water, surface water or the environment. In addition, OCD approval does not relieve R&J Enterprises of the responsibility for compliance with other federal, state, or local laws and/or regulations.

If you have any questions, please do not hesitate to contact Martyne Kieling at (505) 476-3488.

Sincerely,

Rogér C. Anderson Environmental Bureau Chief

RCA/mjk

xc:

OCD Aztec Office SLO David Coss

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4	POWER NUMBER
	FW08077
	BOND NUMBER
	9009265
d	his Power of Attorney has been elivered in connection with the bove bond number.



LIMITED POWER OF ATTORNEY (READ CAREFULLY)

To be used only in conjunction with the bond specified herein.

VOID IF NOT USED BY

JUNE 1, 1994

No Power of Attorney on this form shall be valid as to bonds, undertakings, recognizances or other written obligations in the nature thereof executed on or after said expiration date.

NAME OF PRINCIPAL R-J ENTERPRISES

PENAL SUM \$ 10,000.00

NAME OF OBLIGEE: _____NEW MEXICO STATE LAND OFFICE

This Power of Attorney may not be used in conjunction with any other power of attorney. This Power of Attorney is void if altered or erased. This document is printed on Gray paper with black and red ink. This power of attorney bears a raised seal of **FAR WEST INSURANCE COMPANY**. Only originals of this Power of Attorney are valid. No representations or warranties regarding this Power of Attorney may be made by any person other than an authorized officer of **FAR WEST INSURANCE COMPANY**, and must be in writing. Questions or inquiries regarding this Power of Attorney must be addressed to **FAR WEST INSURANCE COMPANY**, and must be in writing. Questions or inquiries regarding this Power of Attorney must be addressed to **FAR WEST INSURANCE COMPANY** at the address and telephone number set forth at the top of this Power of Attorney, Attention: Underwriting Department. This Power of Attorney shall be governed by the laws of the State of California. Any power of attorney used in connection with any bond issued by **FAR WEST INSURANCE COMPANY** on or after July 1, 1990 must be on Far West Form UN-F1007 (Rev. 7/90). All other previous power of attorney forms issued by **FAR WEST INSURANCE COMPANY** have been revoked and are of no further force or effect.

KNOW ALL MEN BY THESE PRESENTS, that FAR WEST INSURANCE COMPANY, A CALIFORNIA CORPORATION, (the "Company"), does hereby make, constitut and appoint

Patsy I. Fry

its true and lawful Attorney(s)-in-Fact, with limited power and authority for and on behalf of the Company as surety, to execute and deliver and affix the seal of the Company thereto if a seal is required, bonds, undertakings, recognizances or other written obligations in the nature thereof, as follows:

License & Permit Bonds up to Fifty Thousand Dollars (\$50,000) Miscellaneous Bonds up to Fifty Thousand Dollars (\$50,000)

and to bind FAR WEST INSURANCE COMPANY thereby. This appointment is made under and by authority of the following provisions of the By-Laws of the Company which are now in full force and effect:

Article II, Section 7 of the By-Laws of FAR WEST INSURANCE COMPANY

This Power of Attorney is signed and sealed by facsimile under and by the authority of the following resolutions adopted by the board of directors of FAR WES INSURANCE COMPANY at a meeting duly held on July 28, 1983:

RESOLVED that the president or any vice-president, in conjunction with the secretary or any assistant secretary, may appoint attorneys-in-fact or agents with authority as defined or limited in the instrument evidencing the appointment in each case, for and on behalf of the company to execute and deliver and afix the seal of the company to bonds, undertakings, recognizances and suretyship obligations of all kinds; and said officers may remove any such attorney-in-fact or agent and revoke any power of attorney previously granted to such person.

RESOLVED FURTHER that any bond, undertaking, recognizance, or suretyship obligation shall be valid and binding upon the company (i) when signed by the president or any vice-president and attested and sealed (if a seal be required) by any secretary or assistant secretary; or (ii) when signed by the president or any vice-president or secretary or assistant secretary, and countersigned and sealed (if a seal be required)

by a duly authorized attorney-in-fact or agent; or (iii) when duly executed and sealed (if a seal be required) by one or more attorneys-in-fact or agents pursuant to and within the limits of the authori-

ty evidenced by the power of attorney issued by the company to such person or persons. RESOLVED FURTHER that the signature of any authorized officer and the seal of the company may be affixed by facsimile to any power of attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the company; and such signature and seal when so used shall have the same force and effect as though manually affixed.

IN WITNESS WHEREOF, FAR WEST INSURANCE COMPANY has caused these presents to be signed by its proper officers, and its corporate seal to b

hereunto affixed this1	day of	June	19
())	Joh	E	Lavage
Camponia			John E. Savage, President

Baren J.

State of California

County of Los Angeles

On June 1, 1992	before me,	
D. L.P		

Peggy B. Lofton

Signature . Ø

STATE OF CALIFORNIA, COUNTY OF LOS ANGELES

(Seal)



CERTIFICATE

Signed and sealed at DENVER, CO

____ this <u>11TH</u> day of <u>MARCH</u>

🖓 UN-F1007 (REV. 6/92) Ω		UN-F1007	(REV. 6/92)	Ω
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_ (here insert name) Notai

ACKNOWLEDGMENT FORM FOR MATURAL PERSONS STATE OF New Mexico COUNTY OF San Juan בנ 94 March , 19____ On this day of_ , before me personally appaared Nill the foregoint instrument and acknowledged that he (they) executed the same as his (their) free act and deed. IN WITNESS WHEREOF, I have hereunto set my hand and seal on the day and year in this cartificate first above written. G 0 ()May 20 1996 Hy Commission Expires ¢ 9220 Ťe (Notary Pub ACKNOWLEDGMENT FORM FOR CORPORATION STATE OF 5.5 COUNTY OF_ , 19_ _, before me personally appeared On this _dey_of_ , to me personally known who, being by me duly IN WITHESS WHEREOF, I have herounto set my hand end sont on the day and year in this certificate first above written. Notery Public Ny Compission Expires ACKNOWLEDGHENT FORN FOR CORPORATE SURETY COLORADO STATE OF DENVER COUNTY OF____ _dey of_____MARCH On this 11TH , 19<u>0</u>4 _, before me appeared PATSY I. FRY , to so pursonally known, who, baing by ms duly sworn, did asy ATTORNEY-IN-FACT FAR WEST INSURANCE COMPANY that he is ATTORNEY-IN-FACT of FAR WEST INSURANCE COMPANY and that the foregoing instrument was signed and seeled on behalf of seld corporation by authority of its coard of directors, and ecknowledged seld instrument to be the free act and deed of seld corporation. IN WITNESS WHEREOF, I have hereunto set my hand and seel on the day and year in this cortificate first above written. 6-7-96 My Commission Expires Notery Public (Note: Corporate surety attach power of attorney) APPROVED THIS___ day of 19 CONMISSIONER OF PUBLIC LANDS NOTE: File with Commissioner of Public Lends, P. O. Box 1148, New Mexico State Lend Office Suilding, Santa Fe, New Mexico 87501, before development or operations are commenced. 0G-104 771977



NEW MEXICO ENERGY, MILERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON Governor Betty Rivera Cabinet Secretary Lori Wrotenbery Director Oil Conservation Division

Certified Receipt #7001 1140 0000 4018 5561

December 2, 2002

John Cunningham R & J Enterprises Post Office Box 51 Farmington, NM 87499

RE: Nose Rock Evaporation Ponds Closure

Dear Mr. Cunningham:

The New Mexico Oil Conservation Division (OCD) has reviewed closure data submitted by R&J Enterprises on July 1, 2002 for the Nose Rock Evaporation Ponds near the State Cookie #1 well. The Nose Rock Evaporation Ponds are within a vulnerable area. This location is within fifty vertical feet of a braided arroyo system. A field inspection by Henry Villanueva on 7/19/2002 confirmed the Small Tank #2 was closed and that the Small Tank #1 and the Large Tank remain open subject to final approval from the state land office. The OCD approves the remediation of the Nose Rock Evaporation Ponds and the closure of the Small Tank #2. The State Land Office still must sign the approval for the Large Pond and Small Tank #1 to remain open for benefit of livestock and wildlife.

Please be advised OCD approval does not relieve R&J Enterprises of liability should contamination from produced water pose a future threat to surface water, ground water, human health or the environment. OCD approval does not relieve R&J Enterprises of compliance with other federal, state, tribal or local laws and regulations.

If you have questions, please feel free to call me at 505-334-6178 ext 15.

Yours truly,

Denny & Fourt

Denny G. Foust Environmental Geologist dfoust@state.nm.us

DGF/mk

XC: Martyne Kieling, OCD Santa Fe with enclosures. State Land Office, Santa Fe with enclosures c/o Martyne Kieling Environmental File DGF File

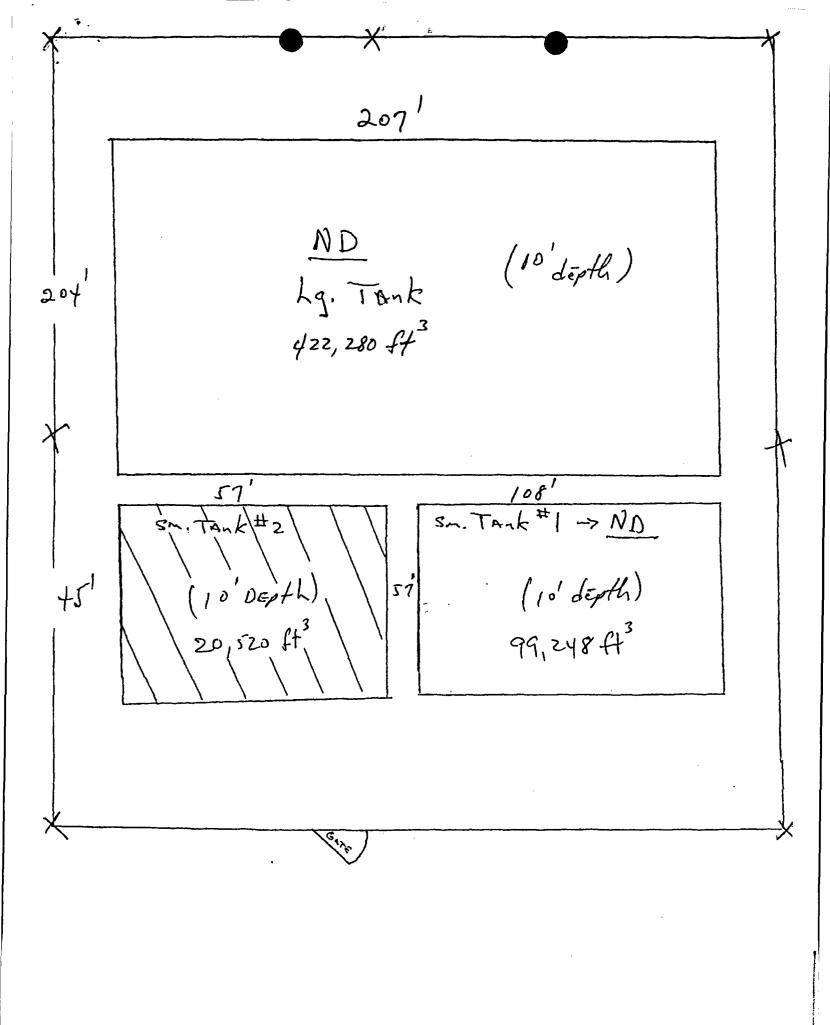
PIT REMEDIATION	AND CLOSU	5		(Revised 3/9/94)
		<u>RE REPOR</u>	T	
Operator: R & J ENTERPRISES		Telephone:	505-32	27-9931
Address: P. O. BOX 51 FARMINGTON, N	M 87499			
Address: P. U. BUX 51 PARMINGION, M Facility Or: STATE COOKIE #1 Nose Well Name 330ENL-990EEL	Rook Ev.	portion	Poro	15 110-
Well Name 330FNL-990FEL				11/26/02
Location: Unit or Qtr/Qtr Sec Sec				•
Pit Type: Separator Dehydrator	_ Other HULD1	NG		
Land Type: BLM, State, Fee	Other			
2 PITS 108'		57'	83	
Pit Location: Pit dimmensions: length <u>207</u> (Attach diagram)			-	
Reference: wellhead X , et	of the	state Co	okie	<u>#/</u>
Footage from reference:5		_		N&F 11/26/02
Direction from reference:	Degrees	s Eas	st North	
			of	
1234		We	est South	n
Depth To Ground Water	Less than f	50 feet		(20 points)
(Vertical distance from As 2002 O	\sim 50 feet to 9			(10 points)
contaminants to seasonal (S JUL 2005)	Greater that	an 100 feet		(0 points)
high water elevation of	Ē			
ground water.)				
Wellhead Protection Area:	4		Yes	(20 points)
(Less than 200 feet from a private			No	(0 points)
domestic water source, or; less than 1000 feet from all other water sources.)				
Distance To Surface Water:	Less than 2	200 feet		(20 points)
(Horizontal distance to perennial		1000 feet		(10 points)
lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Greater that	an 1000 feet		(0 points)
	RANKING SCOP	RE (TOTAL P	OINTS):	

	ed:	Date completed:
Remediation Method:	Excavation	n Approx. cubic yards
(Check all appropriate sections.)	Landfarme	ed Insitu Bioremediation
	Other	THIS PIT TO BE TURNED OVER TO NEW MEXICO SURFACE DIVISION
	(CONTACT RICHARD GALLEGOS 505-326-5716
(i.e. landfarmed onsite, name and location of offsite facility)		Offsite
General Description of	Remedial A	Action:
TWO	(2) PIT	S LEFT FOR SURFACE DIVISION ARE 108'x57'x8' &
207	'x204'x10	O' APROX. ALSO LEAVING FENCE AT THEIR REQUEST
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sar	b X Yes Depth mple location BOTTOM & SIDES OF PIT's mple depth 2'
Final Pit: Closure Sampling: (if multiple samples, attach sample results	Sar Sar	mple location BOTTOM & SIDES OF PIT's
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sar Sar Sar	mple location BOTTOM & SIDES OF PIT's mple depth 2'
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sar Sar Sar	mple location BOTTOM & SIDES OF PIT's mple depth2' mple Date1/11/02 Sample time <u>12noon</u>
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sar Sar Sar	mple locationBOTTOM & SIDES OF PIT's mple depth2' mple Date1/11/02Sample time 12noon mple ResultsSEE ATTACHED REPORT
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sar Sar Sar	mple locationBOTTOM & SIDES OF PIT's mple depth2' mple Date1/11/02 Sample time 12noon mple ResultsSEE ATTACHED REPORT Benzene(ppm)
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sar Sar Sar	mple depth2' mple Date1/11/02 Sample time 12noon mple Results SEE ATTACHED REPORT Benzene(ppm) Total BTEX(ppm)
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sar Sar Sar Sar	mple locationBOTTOM & SIDES OF PIT's mple depth2' mple Date1/11/02 Sample time 12noon mple ResultsSEE ATTACHED REPORT Benzene(ppm) Total BTEX(ppm) Field headspace(ppm)
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample	Sar Sar Sar Sar	mple locationBOTTOM & SIDES OF PIT's mple depth2' mple Date1/11/02Sample time 12noon mple ResultsSEE ATTACHED REPORT Benzene(ppm) Total BTEX(ppm) Field headspace(ppm) TPH
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample I hereby certify that th	Sar Sar Sar Sar	mple locationBOTTOM & SIDES OF PIT's mple depth2' mple Date1/11/02Sample time 12noon mple Results SEE ATTACHED REPORT Benzene(ppm) Total BTEX(ppm) Field headspace(ppm) TPH s No (If yes, attach sample results) on above is true and complete to the best of my knowledge and belief.

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NEW MEXIC	O STATE LAND OFFICE
APPLICATION FOR	PERMISSION TO MAKE IMPROVEMENTS
I NAVAZO MATION	of (address) Window Rock, Az
herewith make application for the written consent	of the Commissioner of Public Lands to make improvements on
the lands in Lease No. 5 2257, described as	follows:
SUBDIVISION	SEC. TWP. RGE. ACRES
NWNE	16 20N 12W -
If any or all proposed improvements are to be built	lt under a federal cost-share program, please check which pro-
gram or programs are involved and give actual cos	
Great Plains Program (SCS) () - ASCS () - 0	
Barns, stables and corrals	Value \$
Well (give depth and description)	Value \$
Fences (give length, i.e., miles or footage and	
	Value \$
Windmill	Value \$
	- TRANSPERIES from ETERTERPRISE
=1 AND LARDE TENK.	N N
7	TOTAL VALUE OF IMPROVEMENTS \$
	gram, if any Value \$
Estimated time of completion:	
	✓
LESSEE	LESSEE
I,	, Commissioner of Public Lands,
	mprovements on or before,
	c of copy of federal cost-share agreement (when applicable) and
evidence of actual costs.	
	-
APPROVAL DATE	COMMISSIONER OF PUBLIC LANDS
	-
(On plat on reverse side indicate approximate lo	cation of proposed improvements.)
Appi	LICATION FEE \$30.00



January 15, 2001

Mr. John Cunningham R & J Enterprises P.O. Box 51 Farmington, NM 87499

RACTICAL SOLUTIONS FOR A BETTER TOMORROW

Phone: (505) 327-9931

Project No.: 01104-001

Dear Mr. Cunningham,

Enclosed are the analytical results for the samples collected from the location designated as "Sec 16 T20N R12W". Two soil samples were collected on 1/10/01, and received by the Envirotech laboratory on 1/11/01 for TPH per USEPA 8015 and BTEX per USEPA 8021.

The samples were documented on Envirotech Chain of Custody No. 8902 and assigned Laboratory Nos. 21790 (Small Pit) and 21791 (Large Pit) for tracking purposes.

The samples were analyzed 1/14/01 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech, Inc.**

· m Wallen

Christine M. Walters Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

C:/files/labreports/RJ.wpd

ENVIROTECH LABS



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	R & J Enterprises	Project #:	01104-001
Sample ID:	Small Pit	Date Reported:	01-14-02
Laboratory Number:	21790	Date Sampled:	01-10-02
Chain of Custody:	8902	Date Received:	01-11-02
Sample Matrix:	Soil	Date Analyzed:	01-14-02
Preservative:	Cool	Date Extracted:	01-14-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	94.2	1.8	
Toluene	ND	1.7	
Ethylbenzene	42.5	1.5	
p,m-Xylene	ND	2.2	
o-Xylene	8.2	1.0	
Total BTEX	145		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

en L. Ciferen

<u>Anisten M. Dalten</u> Beview

ENVIROTEON LABS



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative: Condition:	R & J Enterprises Large Pit 21791 8902 Soil Cool Cool & Intact	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted: Analysis Requested:	0 0 0 0 0	1104-001 1-14-02 1-10-02 1-11-02 1-14-02 1-14-02 TEX
Parameter	.Conce (ug/	entration Kg)	Det. Limit (ug/Kg)	
Benzene Toluene Ethylbenzene p,m-Xylene o-Xylene		ND ND ND ND ND	1.8 1.7 1.5 2.2 1.0	
Total BTEX		ND		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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m Walten hrist Review

FRACTICAL SOLUTIONS FOR A BETTER TOMORROW



Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	N/A 01-14-BTEX QA/QC 21788 Soil N/A N/A	ם ם ם	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: - Analysis:		N/A 01-14-02 N/A N/A 01-14-02 BTEX
Calibration and Calibration and Calibration Calibratio Calibration Calibration Calibration	as a second a second and the second second second and the second second second second second second second second	CellEF Vousial Renge	%]∰i ≎(0iG9%	Benk Conc	ୁ ହିନ୍ତାମେକ୍ର କୁମ୍ବର ସ୍ଥାମାନ
Benzene	1.7143E-001 1.7	195E-001	0.3%	ND	0.2
Foluene		883E-002	0.2%	ND	0.2
Ethylbenzene		321E-001	0.3%	ND	0.2
o,m-Xylene o-Xylene		843E-001	0.3% 0.2%	ND ND	0.2 0.1
Duplicate/Conc. (ug/Kg)	Samplet	uilleate:	250m	Accent Rences	
anna 7 ann a d ann 1974. A 1976 A 1979 Sannth Anna de anns a stàirt 1976 ann an 1976 Anna ann an 1976 Anna ann	Samplet 5.8	ujansene:	21Diii 21	Accepti Rance . 0 - 30%	2110eceq: Limite 1.8
Benzene					
Benzene Foluene Ethylbenzene	5.8 ND 60.6	5.7 ND 59.1	1.7% 0.0% 2.5%	0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5
Benzene Foluene Ethylbenzene o,m-Xylene	5.8 ND 60.6 144	5.7 ND 59.1 140	1.7% 0.0% 2.5% 2.3%	0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2
Duplicate:Conc. (ug/Kg) Benzene Toluene Ethylbenzene p,m-Xylene p-Xylene	5.8 ND 60.6	5.7 ND 59.1	1.7% 0.0% 2.5%	0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5
Benzene Foluene Ethylbenzene o,m-Xylene	5.8 ND 60.6 144 22.4	5.7 ND 59.1 140 22.0	1.7% 0.0% 2.5% 2.3%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2
Benzene Foluene Ethylbenzene o,m-Xylene o-Xylene	5.8 ND 60.6 144 22.4	5.7 ND 59.1 140 22.0	1.7% 0.0% 2.5% 2.3% 1.8%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0
Benzene Foluene Ethylbenzene o,m-Xylene o-Xylene Spike Conct (ug/Kg)	5.8 ND 60.6 144 22.4 Sample	5.7 ND 59.1 140 22.0	1.7% 0.0% 2.5% 2.3% 1.8%	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0
Benzene Foluene Ethylbenzene o,m-Xylene o-Xylene Spike Conc: (ug/Kg)	5.8 ND 60.6 144 22.4 Sample Ame 5.8	5.7 ND 59.1 140 22.0 000 Spked	1.7% 0.0% 2.5% 2.3% 1.8% Spiked/Shuple	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0
Benzene Foluene Ethylbenzene o,m-Xylene o-Xylene Spike Conc: (Ug/Kg) Benzene Foluene	5.8 ND 60.6 144 22.4 Semple Ame 5.8 ND	5.7 ND 59.1 140 22.0 MINISPIKE 50.0 50.0	1.7% 0.0% 2.5% 2.3% 1.8% 50Ked0Stmpto 55.7 49.9	0 - 30% 0 - 30% 0 - 30% 0 - 30% 0 - 30%	1.8 1.7 1.5 2.2 1.0

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996. Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996. Comments: QA/QC for samples 21788 - 21791.

feren Analyst

hristen my Wheeters_





EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	R & J Enterprises	Project #:	01104-001
Sample ID:	Small Pit	Date Reported:	01-14-02
Laboratory Number:	21790	Date Sampled:	01-10-02
Chain of Custody No:	8902	Date Received:	01-11-02
Sample Matrix:	Soil	Date Extracted:	01-14-02
Preservative:	Cool	Date Analyzed:	01-14-02
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)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

C. Cerenar Ånalyst

Winter m Walten Review





EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	R & J Enterprises	Project #:	01104-001
Sample ID:	Large Pit	Date Reported:	01-14-02
Laboratory Number:	21791	Date Sampled:	01-10-02
Chain of Custody No:	8902	Date Received:	01-11-02
Sample Matrix:	Soil	Date Extracted:	01-14-02
Preservative:	Cool	Date Analyzed:	01-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

	Concentration	Det. Limit
Parameter	(mg/Kg)	(mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

~ C. apun Analvst

Christian Walters Beview

ENVIROTECE LABS

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

			····		
Client:	QA/QC		Project #:		N/A
Sample ID:	01-14-TPH QA	VQC	Date Reported:		01-14-02
Laboratory Number:	21787		Date Sampled:		N/A
Sample Matrix:	Methylene Chlor	ide	Date Received:		N/A
Preservative:	N/A		Date Analyzed:		01-14-02
Condition:	N/A		Analysis Reques	ted:	TPH
		the state was granted and			ىسىرىتىتىرى بىرىكى ب
	Real Date	Centres . C	C-CELIRE		AGERIAL (REINOGER
Gasoline Range C5 - C10	01-07-02	2.5028E-002	2.5003E-002	0.10%	0 - 15%
Diesel Range C10 - C28	01-07-02	1.2696E-002	1.2671E-002	0.20%	0 - 15%
Blank:Conc-(mg/l=mg/l			in the second	อิตุเลลเอาปลก	
Gasoline Range C5 - C10	NEL CERTIFICATION CONTRACTOR	<u>, ogonsejnesniens</u> ∠ND		0.2	1116
Diesel Range C10 - C28		ND	······································	0.1	
Total Petroleum Hydrocarbon	•	ND	•	0.1	
Total Petroleum Hydrocarbon	3	ND		0.2	
Duplicate Conc. (mc//kg)	Semile		% Differences	Accept Renco	8
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%	
-					
Spike Conc. (mg/Kg)	station Semile	Solke Acideci	Spille result	% Recovery	Access Rendes
0 05 040	ND	250	250	100.0%	75 - 125%
Gasoline Range C5 - C10					

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 21787 - 21791.

m L. african

/ Misting Waller Review

Client / Project Name	Project Location		ANALYSIS / P	ANALYSIS / PARAMETERS	
REJ Enterprises	Sec. 16	TZUN RIZW			
Sampler:	Client No.		;	Remarks	S
	01104-001	001	o. of tainer 2-1 754 c/5 PH		
Sample No./ Sample Sample Identification Date	Lab Number	Sample Matrix	Cont For B		
Swich PH 1-10-02 -	21790	2	- 5 5		
Laure P:4 1-10-02 -	19716	L	- 2		
		<u>\</u>			
> >					
Mingdished by: (Bignature)		Date Time Rece	Received by: (Signature)	Date	Time
Contrantes		F11-62 8:40 L	eni L. Verun	171-02	\$.40
Refinquished by: (Signature)/		Rece	Received by: (Signature)	1	
Relinquished by: (Signature)		Rece	Received by: (Signature)		
FOBM 51		ENVIROTECH I	CH INC.	Sample Receipt	-
Ferrying fran 87499				~	N N/A
· 327-9931 320-1073	1073 cell	5796 U.S. Highway 64 Farmington, New Mexico 87401	ghway 64 Mexico 87401	Received Intact	
John Conkinghan		c1 an-25a (cnc)	cian-		

CHAIN OF CIICTONY BECORD

60680



Nose Rock Evaporation Pond

Small Tank #2 back filled



Nose Rock Large Tank R&J Enterprises July 19, 2002 Inspection by OCD, Enriques Villanueva



Photo 1. Closed pit and remaining pit



Photo 4. Closed pit



Photo 2. Empty pit to be left for surface owner / lessee use



Photo 3. Closed pit

Page 1

Kieling, Martyne

From: Sent: To: Cc: Subject: Foust, Denny Monday, July 15, 2002 10:07 AM Kieling, Martyne Chavez, Frank; Anderson, Roger; Olson, William; Perrin, Charlie R&J Enterprises Closure and Questar Evaporation Pond Operated without a Permit.

Martyne,

I talked to Mike Matusak about the R&J Enterprises closure and he said to get in touch with him to find who approved the closure from State Land Surface Management Group. Do you want to review the pit closures or do you want me to do it? I can send out an approval then you can okay the facility closure. Get back with me on this, Mr. Cunningham was supposed to have sent you the pit closure data, I have it here.

We had a report from BLM of Questar disposing produced in an earthen pit at the State J #7, G-16-23N-07W, 30-039-25349. This was confirmed by Henry Villanueva. Questar thought they had inherited a permit from BCO, Inc. the previous operator. Disposal at this site has probably been ongoing since 1994. I have requested fence repairs, cease dumping and forwarded Roger Anderson request for Total Anion-Cation Lab test on the water. Currently they are emptying the tanks on location. Roger suggested you would write a compliance letter for permitting or closure.

Kieling, Martyne

From: Sent: To: Subject: Foust, Denny Thursday, July 25, 2002 7:34 AM Kieling, Martyne FW: DCP00836.JPG;DCP00835.JPG;DCP00834.JPG;DCP00837.JPG RJ Enterprises Nose Rock Facility











DCP00836.JPG







DCP00837.JPG

0



t

DCP00834.JPG



to identify this as Nose Rock

----Original Message-----From: Foust, Denny Sent: Thursday, July 25, 2002 8:32 AM To: Kieling, Martyne Subject: FW: DCP00836.JPG;DCP00835.JPG;DCP00834.JPG;DCP00837.JPG

Martyne,

Henry took these photos of Nose Rock and they fit Mr. Cunningham's description. The fence around the pits is not shown but it is still in place except for where they closed the small pit. Should we require the removal of the fence? Do we have any leverage?

----Original Message-----From: Villanueva, Enriques Sent: Thursday, July 25, 2002 8:26 AM To: Foust, Denny Subject: DCP00836.JPG; DCP00835.JPG; DCP00834.JPG; DCP00837.JPG

nose rock pit closure.

DCP00836.JPG; DCP00835.JPG; DCP00834.JPG; DCP00837.JPG

District 1 1625 N. French Dr., Hobbs, NM 88240 District 1 1301 W. Grand Avenue, Artesia, NM 88210 District 111 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

5

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit 1 copy to appropriate District Office and 1 copy to the Santa Fc Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: <u>R & J ENTERPRISES</u>	Telephone: 50	5-327-9931
Address: P. O. BOX 51 FARMINGTON, NM	87499	
Facility Or:STATE COOKIE #1 Well Name		
330FNL-990FEL		
Location: Unit or Qtr/Qtr SecSec16	$T_{\rm M}^{\rm 20N} R_{\rm M}^{\rm 12W} County$	McKINLEY
Pit Type: Separator Dehydrator O	Other HOLDING	
Land Type: BLM, State, Fee	Other	
2 PITS 108'	57'	8] 8'
Pit Location: Pit dimmensions: length 207	, width <u>204</u> , de	pth <u>10'</u>
(Attach diagram) Reference: wellhead χ , othe	-	
Footage from reference:50'	·	
Direction from reference:	DegreesEast N	orth X
	of	S
	West	South
Depth To Ground Water	Less than 50 feet	(20 points)
(Vertical distance from	50 feet to 99 feet	(10 points)
contaminants to seasonal	Greater than 100 feet	(0 points)
contaminants to seasonal high water elevation of		(0 points)
		(0 points)
high water elevation of ground water.)	Greater than 100 feet	
high water elevation of ground water.) Wellhead Protection Area:	Greater than 100 feet	Yes (20 points)
high water elevation of ground water.)	Greater than 100 feet	
high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private	Greater than 100 feet	Yes (20 points)
high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than	Greater than 100 feet	Yes (20 points) No (0 points)
high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.)	Greater than 100 feet	Yes (20 points)
high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.) Distance To Surface Water:	Greater than 100 feet Less than 200 feet	Yes (20 points) No (0 points) (20 points)
high water elevation of ground water.) Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources.) Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches.)	Greater than 100 feet Less than 200 feet 200 feet to 1000 feet	Yes (20 points) No (0 points) (20 points) (10 points) (0 points)

Date Remediation Start	ed: Date completed:
Remediation Method:	Excavation Approx. cubic yards
(Check all appropriate sections.)	Landfarmed Insitu Bioremediation
	OtherTHIS PIT TO BE TURNED OVER TO NEW MEXICO SURFACE DIVISION
	CONTACT RICHARD GALLEGOS 505-326-5716
(i.e. landfarmed onsite, name and location of offsite facility)	
General Description of	Remedial Action:
TWO	(2) PITS LEFT FOR SURFACE DIVISION ARE 108'x57'x8' &
207	'x204'x10' APROX. ALSO LEAVING FENCE AT THEIR REQUEST
Ground Water Encoun	tered: No X Yes Depth
Final Pit: Closure Sampling:	tered: No X Yes Depth Sample location BOTTOM & SIDES OF PIT's
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location BOTTOM & SIDES OF PIT's
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location BOTTOM & SIDES OF PIT's
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample locationBOTTOM & SIDES OF PIT's Sample depth2'
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location BOTTOM & SIDES OF PIT's Sample depth 2' Sample Date 1/11/02 Sample Date 1/11/02
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location BOTTOM & SIDES OF PIT's Sample depth 2' Sample Date 1/11/02 Sample Results SEE ATTACHED REPORT
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location BOTTOM & SIDES OF PIT's Sample depth 2' Sample Date 1/11/02 Sample Results SEE ATTACHED REPORT Benzene(ppm)
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample location BOTTOM & SIDES OF PIT's Sample depth 2' Sample Date 1/11/02 Sample Results SEE ATTACHED REPORT Benzene(ppm)
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample locationBOTTOM & SIDES OF PIT's Sample depth2' Sample Date
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample	Sample depth2' Sample Date1/11/02Sample time 12noon Sample ResultsSEE ATTACHED REPORT Benzene(ppm) Total BTEX(ppm) Field headspace(ppm) TPH Yes No (If yes, attach sample results)
Final Pit: Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample	Sample locationBOTTOM & SIDES OF PIT's Sample depth2' Sample Date1/11/02Sample time 12n00n Sample ResultsSEE ATTACHED REPORT Benzene(ppm) Total BTEX(ppm) Field headspace(ppm)

	(ICO STATE LAND OFFICE
APPLICATION F	FOR PERMISSION TO MAKE IMPROVEMENTS
I. NAVAZO ILATION	of (address) Window Rock, AZ
nerewith make application for the written conse	ent of the Commissioner of Public Lands to make improvements on
the lands in Lease No. 5 2251, described	as follows:
UBDIVISION	SEC. TWP. RGE. ACRES
NWNE	16 ZON 12W
14 00 14 E	16 2011 (200
	· · · · · · · · · · · · · · · · · · ·
	and a second
f any or all proposed improvements are to be	built under a federal cost-share program, please check which pro-
ram or programs are involved and give actual	
reat Plains Program (SCS) () - ASCS ()	
arns, stables and corrals	Value \$
ell (give depth and description)	the second s
	Value \$
ences (give length, i.e., miles or footage a	
	Value \$
/indmill	Value \$ 0
^	<- TRANSFERRER FROM RATE ENTERINE
to use for this fock where the large tank.	ER. Shown on Attached diagram As Small TANK
AND ASIZAS IANIN.	
	TOTAL VALUE OF IMPROVEMENTS \$
	program, if any Value \$
otal economic cost expended by LESSEE Astimated time of completion:	
sermated rime of completion:	
4	
~	LESSEE
LESSER	
LESSEE	· · ·
	Commissioner of Bublic I
I,	
I, nereby give my consent to the above lessee(s	a) to make improvements as listed above, conditioned upon the comple
I, mereby give my consent to the above lessee(s tion of construction and installation of suc	a) to make improvements as listed above, conditioned upon the comple th improvements on or before
I,	a) to make improvements as listed above, conditioned upon the complect improvements on or before
I, hereby give my consent to the above lessee(s tion of construction and installation of suc	a) to make improvements as listed above, conditioned upon the complect improvements on or before
I,	a) to make improvements as listed above, conditioned upon the complect improvements on or before
I,	a) to make improvements as listed above, conditioned upon the complect improvements on or before
I, mereby give my consent to the above lessee(s tion of construction and installation of suc 19, and further conditioned upon rec evidence of actual costs.	a) to make improvements as listed above, conditioned upon the comple th improvements on or before
I, mereby give my consent to the above lessee(stion of construction and installation of suc .9, and further conditioned upon rec evidence of actual costs.	a) to make improvements as listed above, conditioned upon the complect improvements on or before
I, mereby give my consent to the above lessee(s tion of construction and installation of suc 19, and further conditioned upon rec evidence of actual costs. APPROVAL DATE	a) to make improvements as listed above, conditioned upon the complet th improvements on or before

.

S-09 (REVISED 8/4/88)

2071 ND (10' depth) 204 hg. Tonk 422,280 ff³ 108' Sn. Tank #1 -> ND 57 Sr ,[±]2 (10' depth) 99,248 ft³ (10'DE+L) 20,520 ft3 451 57 G. Nr

January 15, 2001

SOLUTIONS FOR A

Mr. John Cunningham R & J Enterprises P.O. Box 51 Farmington, NM 87499

Phone: (505) 327-9931

Dear Mr. Cunningham,

Project No.: 01104-001

Enclosed are the analytical results for the samples collected from the location designated as "Sec 16 T20N R12W". Two soil samples were collected on 1/10/01, and received by the Envirotech laboratory on 1/11/01 for TPH per USEPA 8015 and BTEX per USEPA 8021.

ETTER TOMORROW

The samples were documented on Envirotech Chain of Custody No. 8902 and assigned Laboratory Nos. 21790 (Small Pit) and 21791 (Large Pit) for tracking purposes.

The samples were analyzed 1/14/01 using USEPA or equivalent methods.

Should you have any questions or require additional information, please do not hesitate to contact us at (505) 632-0615.

Respectfully submitted, **Envirotech, Inc.**

Mistin m

Christine M. Walters Laboratory Coordinator / Environmental Scientist

enc.

CMW/cmw

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C:/files/labreports/RJ.wpd



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

	Client:	QA/QC		Project #:		N/A
Sample Matrix:Methylene ChlorideDate Received:N/APreservative:N/ADate Analyzed:01-14-02Condition:N/AAnalysis Requested:TPHGasoline Range C5 - C1001-07-022.5028E-0022.5003E-0020.10%0 - 15%Diesel Range C10 - C2801-07-021.2696E-0021.2671E-0020.20%0 - 15%Blank Conc. (mg/L - mg/Kg)Image C5 - C10ND0.20.10.2Diesel Range C10 - C28ND0.10.20.10.2Diesel Range C10 - C28ND0.10.20.10.2Diesel Range C10 - C28ND0.10.20.10.2Diesel Range C10 - C28ND0.10.20.10.2Duplicate Conc. (mg/Kg)Sample Image C5 - C10ND0.20.30%Duplicate Conc. (mg/Kg)Sample Image C5 - C10ND0.0%0 - 30%Duplicate Conc. (mg/Kg)Sample Image C5 - C10ND0.0%0 - 30%Diesel Range C10 - C28NDND0.0%0 - 30%Diesel Range C5 - C10NDND0.0%0 - 30%Diesel Range C5 - C10NDND0.0%0 - 30%Spike Conc. (mg/Kg)Sample Image Spike AddedSpike ResultSpike ResultGasoline Range C5 - C10ND250250100.0%75 - 1259	Sample ID:	01-14-TPH QA	VQC	Date Reported:		01-14-02
Preservative:N/ADate Analyzed:01-14-02Condition:N/AAnalysis Requested:TPHGasoline Range C5 - C1001-07-022.5028E-0022.5003E-0020.10%0 - 15%Diesel Range C10 - C2801-07-021.2696E-0021.2671E-0020.20%0 - 15%Blank Conc. (mg/L - mg/Kg)ConcentrationConcentrationConcentrationConcentrationConcentrationGasoline Range C5 - C10ND0.2Detection LimitGasoline Range C5 - C10ND0.10.2Diesel Range C10 - C28ND0.1Total Petroleum HydrocarbonsND0.2Duplicate Conc. (mg/Kg)SampleDuplicata% DifferenceGasoline Range C5 - C10NDND0.30%Duplicate Conc. (mg/Kg)SampleSolies AddedSolies ResultSpike Conc. (mg/Kg)SampleSolies AddedSolies ResultSpike Conc. (mg/Kg)SampleSolies AddedSolies ResultGasoline Range C5 - C10NDND0.0%0 - 30%Diesel Range C10 - C28NDND0.0%0 - 30%Spike Conc. (mg/Kg)SampleSolies AddedSolies ResultGasoline Range C5 - C10ND250250<	Laboratory Number:	21787		Date Sampled:		N/A
Condition:N/AAnalysis Requested:TPHGasoline Range C5 - C1001-07-022.5028E-0022.5003E-0020.10%0 - 15%Diesel Range C10 - C2801-07-021.2696E-0021.2671E-0020.20%0 - 15%Blank Conc. (mg/L - mg/Kg)ConcentrationDetection LinitGasoline Range C5 - C10ND0.2Diesel Range C10 - C28ND0.1Gasoline Range C5 - C10ND0.2Diesel Range C10 - C28ND0.1Total Petroleum HydrocarbonsND0.2Duplicate Conc (mg/Kg)SampleDuplicate% DifferenceGasoline Range C5 - C10NDND0.0%Ouplicate Conc (mg/Kg)SampleSolke AddedSolke ResultSplike Conc. (mg/Kg)SampleSolke AddedSolke ResultGasoline Range C5 - C10ND0.0%0 - 30%Diesel Range C10 - C28NDND0.0%0 - 30%Diesel Range C5 - C10NDND0.0%0 - 30%Diesel Range C5 - C10NDND0.0%0 - 30%Diesel Range C5 - C10ND250250100.0%Total Petroleum HydrocarbonsND100.0%75 - 125%	Sample Matrix:	Methylene Chlor	ide	Date Received:		N/A
Cal Data Cal Data Col Cal Cal Cal Cal Cal Cal Cal Cal Cal Ca	Preservative:	N/A		Date Analyzed:		01-14-02
Gasoline Range C5 - C10 01-07-02 2.5028E-002 2.5003E-002 0.10% 0 - 15% Diesel Range C10 - C28 01-07-02 1.2696E-002 1.2671E-002 0.20% 0 - 15% Blank Conc. (mg/L - mg/Kg) Concentration Detection Limit Detection Limit Gasoline Range C5 - C10 ND 0.2 Detection Limit Gasoline Range C10 - C28 ND 0.1 Diesel Range C10 - C28 ND 0.1 Total Petroleum Hydrocarbons ND 0.2 Duplicate Conc. (mg/Kg) Sample Duplicate % Difference Gasoline Range C5 - C10 ND ND 0.30% Duplicate Conc. (mg/Kg) Sample Duplicate % Difference Gasoline Range C10 - C28 ND ND 0.0% 0 - 30% Diesel Range C10 - C28 ND ND 0.0% 0 - 30% Spike Conc. (mg/Kg) Sample Spike Added Spike Result % Recovery Accept Ban Gasoline Range C5 - C10 ND 250 250 100.0% 75 - 125%	Condition:	N/A		Analysis Request	ed:	TPH
Diesel Range C10 - C28 01-07-02 1.2696E-002 1.2671E-002 0.20% 0 - 15% Blank Conc. (mg/L - mg/Kg) Mode Concentration Mode Detection Limit Gasoline Range C5 - C10 ND 0.2 Detection Limit Detection Limit Gasoline Range C10 - C28 ND 0.1 O.1 Detection Limit Diesel Range C10 - C28 ND 0.1 O.2 Diesel Range Concentration 0.2 Duplicate Concentration ND 0.1 O.2 O.2 Duplicate Concentration ND 0.1 O.2 Duplicate Concentration ND 0.2 O.2 Duplicate Concentration ND 0.2 O.2 Duplicate Concentration ND 0.2 O.2 Duplicate Concentration ND 0.0% 0 - 30% Gasoline Range C10 - C28 ND ND 0.0% 0 - 30% Spike Co		i coaloaci-	- LCallRa	Leisen Bar ()	/4)	
Blank Conc. (mg/L - mg/Kg) Concentration Detection Limit Gasoline Range C5 - C10 ND 0.2 Diesel Range C10 - C28 ND 0.1 Total Petroleum Hydrocarbons ND 0.2 Duplicate Conc. (mg/Kg) Sample Duplicate Gasoline Range C5 - C10 ND ND Bupilicate Conc. (mg/Kg) Sample Duplicate Sasoline Range C5 - C10 ND ND 0.0% Diesel Range C10 - C28 ND ND 0.0% 0 - 30% Diesel Range C10 - C28 ND ND 0.0% 0 - 30% Spike Conc. (mg/Kg) Sample Spike Addeed Spike Result Krecovery Gasoline Range C5 - C10 ND 250 250 100.0% 75 - 1259	Gasoline Range C5 - C10	01-07-02	2.5028E-002	2.5003E-002	0.10%	0 - 15%
Gasoline Range C5 - C10 ND 0.2 Diesel Range C10 - C28 ND 0.1 Total Petroleum Hydrocarbons ND 0.2 Duplicate Conc. (mg/Kg) Sample Duplicate % Difference Accept Range Gasoline Range C5 - C10 ND ND 0.0% 0 - 30% Diesel Range C10 - C28 ND ND 0.0% 0 - 30% Spike Conc. (mg/Kg) Sample Spike Added Spike Result % Recovery Accept Bad Gasoline Range C5 - C10 ND 250 250 100.0% 75 - 125%	Diesel Range C10 - C28	01-07-02	1.2696E-002	1.2671E-002	0.20%	0 - 15%
Gasoline Range C5 - C10 ND 0.2 Diesel Range C10 - C28 ND 0.1 Total Petroleum Hydrocarbons ND 0.2 Duplicate Conc. (mg/Kg) Sample Duplicate % Difference Accept Range Gasoline Range C5 - C10 ND ND 0.0% 0 - 30% Diesel Range C10 - C28 ND ND 0.0% 0 - 30% Spike Conc. (mg/Kg) Sample Spike Added Spike Result % Recovery Gasoline Range C5 - C10 ND ND 0.0% 0 - 30% Diesel Range C10 - C28 ND ND 0.0% 0 - 30% Spike Conc. (mg/Kg) Sample Spike Added Spike Result % Recovery Gasoline Range C5 - C10 ND 250 250 100.0% 75 - 125%	Blank Conc. (mg/L - mg/K	g)	Concentration		Detection Lim	jî.
Total Petroleum HydrocarbonsND0.2Duplicate Conc. (mg/Kg)SampleDuplicate% DifferenceAccept RanceGasoline Range C5 - C10NDND0.0%0 - 30%Diesel Range C10 - C28NDND0.0%0 - 30%Spike Conc. (mg/Kg)SampleSpike AddedSpike Result% RecoveryGasoline Range C5 - C10ND250250100.0%						
Duplicate Conc. (mg/Kg) Sample Duplicate % Difference Accept Range Gasoline Range C5 - C10 ND ND 0.0% 0 - 30% Diesel Range C10 - C28 ND ND 0.0% 0 - 30% Spike Conc. (mg/Kg) Sample Spike Added Spike Result Spike Result Gasoline Range C5 - C10 ND 250 250 100.0% 75 - 125%	Diesel Range C10 - C28		ND		0.1	
Gasoline Range C5 - C10 ND ND 0.0% 0 - 30% Diesel Range C10 - C28 ND ND 0.0% 0 - 30% Spike Conc. (mg/Kg) Sample Spike Added Spike Result Recovery Accept Ban Gasoline Range C5 - C10 ND 250 250 100.0% 75 - 125%	Total Petroleum Hydrocarbons		ND		0.2	
Gasoline Range C5 - C10 ND ND 0.0% 0 - 30% Diesel Range C10 - C28 ND ND 0.0% 0 - 30% Spike Conc. (mg/Kg) Sample Spike Added Spike Result Recovery Accept Ban Gasoline Range C5 - C10 ND 250 250 100.0% 75 - 125%	Duplicate Conc. (mg/Kg)	Sample 1	Duplicater	% Difference	AccepteRang	
Spike Conc. (mg/Kg) Gasoline Range C5 - C10 ND 250 250 100.0% 75 - 1259		ND	ND		0 - 30%	
Gasoline Range C5 - C10 ND 250 250 100.0% 75 - 125%	Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%	
Gasoline Range C5 - C10 ND 250 250 100.0% 75 - 125%	Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	e% Recovery	Accepterate
Diesel Range C10 - C28 ND 250 250 100.0% 75 - 1259					100.0%	75 - 125%
	Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments:

QA/QC for samples 21787 - 21791.

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	R & J Enterprises	Project #:		01104-001
Sample ID:	Large Pit	Date Reported:		01-14-02
Laboratory Number:	21791	Date Sampled:		01-10-02
Chain of Custody:	8902	Date Received:		01-11-02
Sample Matrix:	Soil	Date Analyzed:		01-14-02
Preservative:	Cool	Date Extracted:		01-14-02
Condition:	Cool & Intact	Analysis Requested:		BTEX
· · · · · · · · · · · · · · · · · · ·			Det.	
_		entration	Limit	
Parameter	(ug/	Kg)	(ug/Kg)	
_				
Benzene		ND	1.8	
Toluene		ND	1.7	
Ethylbenzene		ND	1.5	
p,m-Xylene		ND	2.2	
o-Xylene		ND	1.0	
Total BTEX		ND		
ND - Parameter not detected at	the stated detection limit.			
Surrogate Recoveries:	Parameter	P	ercent Reco	very
	Fluorobenzene			%
,	1,4-difluorobenze	ene	96	%
	Bromochloroben		96	%

References. method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

> Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

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Client:	R & J Enterprises	Project #:	01104-001
Sample ID:	Large Pit	Date Reported:	01-14-02
Laboratory Number:	21791	Date Sampled:	01-10-02
Chain of Custody:	8902	Date Received:	01-11-02
Sample Matrix:	Soii	Date Analyzed:	01-14-02
Preservative:	Cool	Date Extracted:	01-14-02
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	1.8
Toluene	ND	1.7
Ethylbenzene	ND	1.5
p,m-Xylene	ND	2.2
o-Xylene	ND	1.0
Total BTEX	ND	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
•	Fluorobenzene 1,4-difluorobenzene Bromochlorobenzene	96 % 96 % 96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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<u>Aristing</u> Walless Review



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

• · · ·			
Client:	R & J Enterprises	Project #:	01104-001
Sample ID:	Small Pit	Date Reported:	01-14-02
Laboratory Number:	21790	Date Sampled:	01-10-02
Chain of Custody No:	8902	Date Received:	01-11-02
Sample Matrix:	Soil	Date Extracted:	01-14-02
Preservative:	Cool	Date Analyzed:	01-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH
· · · ·		Concentration	Det. Limit
Parameter			
		(mg/Kg)	(mg/Kg)
Gasoline Range (C5 -	C10)	(mg/Kg) ND	(mg/Kg) 0.2
· · · · · · · · · · · · · · · · · · ·	·		

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	R & J Enterprises	Project #:	Q	1104-001
Sample ID:	Small Pit	Date Reported:	0	1-14-02
Laboratory Number:	21790	Date Sampled:	C	1-10-02
Chain of Custody:	8902	Date Received:	C)1-11-02
Sample Matrix:	Soil	Date Analyzed:	C)1-14-02
Preservative:	Cool	Date Extracted:	C)1-14-02
Condition:	Cool & Intact	Analysis Requested:	E	BTEX
<u> </u>			Det.	
Parameter	Conc (ug/	entration Kg)	Limit (ug/Kg)	
Benzene		94,2	1.8	
Toluene		ND	1.7	
Ethylbenzene		42.5	1.5	
p,m-Xylene		ND	2.2	
o-Xylene		8.2	1.0	
0-Aylene		0.2	1.0	
Total BTEX		145		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
1	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

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

Client:	R & J Enterprises	Project #:	01104-001
Sample ID:	Large Pit	Date Reported:	01-14-02
Laboratory Number:	21791	Date Sampled:	01-10-02
Chain of Custody No:	8902	Date Received:	01-11-02
Sample Matrix:	Soil	Date Extracted:	01-14-02
Preservative:	Cool	Date Analyzed:	01-14-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH
	,, , <u> </u>		Det.
Parameter	· · · · · · · · · · · · · · · · · · ·	Concentration (mg/Kg)	Det. Limit (mg/Kg
Parameter Gasoline Range (C5	- C10)		Limit
	·	(mg/Kg)	Limit (mg/Kg

ND - Parameter not detected at the stated detection limit.

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, References: SW-846, USEPA, December 1996.

Sec 16 T20N R12W. Comments:

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Other / Daviant Nama	Project Location					
	Sec 16	TZUN RIZW		ANALYSIS / PARAME1EHS	AMETEHS	
Sampler:	Client No.				· Re	Remarks
	0/104-	001	o. of taine 2-1 -TG4 -CIS -PH			
Sample No./ Sample Sample Identification Date Time	Lab Number	Sample Matrix	Con			
4 1-10-02	21790	Se.;	- 5			
Laure P.4 1-10-02 -	19516		- 5			
0						
hinodishedov: (Bionalua)		Date Time Recei	Received by: (Signature)			
Sher Kander		- 8:40	Deni P. (Efre -	1-1	1-1-02 8.40
Refinquished by: (Signature)/		Rece	ived by: (Signature)			
Refinquished by: (Signature)		Recei	Received by: (Signature)			
		ENVIDOTECH			Sample Receipt	eceipt
POBAL 51						≺ z
Farming tran 87477	073 cell.	5796 U.S. Highway 64	hway 64		Received Intact	2
15 hb- L25		(505) 632-0615	0615		Cool - Ice/Blue Ice	7

CHAIN OF CUSTODY RECORD

08902

martyne Geling



PHOTO NO. 1 DATE:06/12/97



PHOTO NO. 2 DATE:06/11/97



PHOTO NO. 3 DATE:06/12/97



PHOTO NO. 4 DATE:06/12/97



PHOTO NO. 3 DATE:06/12/97



PHOTO NO. 4 DATE:06/12/97

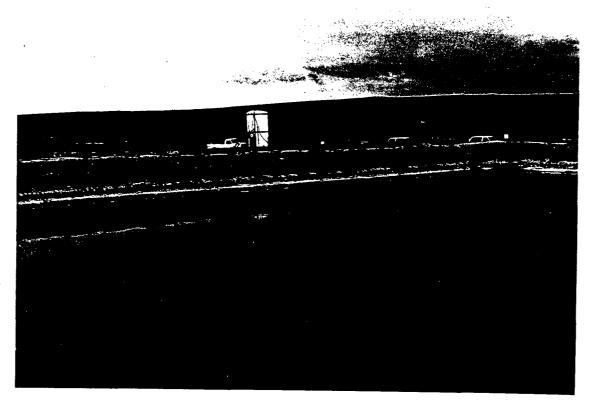


PHOTO NO. 3 DATE:06/12/97



PHOTO NO. 4 DATE:06/12/97



PHOTO NO. 1 DATE:06/12/97



PHOTO NO. 2 DATE:06/11/97



PHOTO NO. 1 DATE:06/12/97



PHOTO NO. 2 DATE:06/11/97

P. O. Box 19 Hobbs, NM <u>District II</u> - 811 S. First Artesia, NM <u>District III</u> 1000 Rio Br Aztec, NM 8	1 88241-1980 Energy Minerals and Natural Ref • (505) 748-1283 Oil Conservation I • (505) 748-1283 2040 South Pacheco • (505) 334-6178 Santa Fe, New Mexico • (505) 827-713 (505) 827-713	esources Department Division Street 9 87505 Originated 8/8/95 Revised 6/25/97 Submit Original Plus 1 Copy to Santa Fe
	APPLICATION FOR WASTE MAN (Refer to the OCD Guidelines for assistance in	
		Centralized
1.	Type: Evaporation Injection	Other
	Solids/Landfarm Treating Pla	nt
2.	Operator:	
	Address:	
	Contact Person:	Phone:
3.	Location:4/4 Section Submit large scale topographic map showing exact I	
4.	Is this a modification of an existing facility?	No
5.	Attach the name and address of the landowner of the facility s	ite and landowners of record within one mile of the site.
6.	Attach description of the facility with a diagram indicating loc	ation of fences, pits, dikes, and tanks on the facility.
7.	Attach designs prepared in accordance with Division guideline or ponds, leak-detection systems, aerations systems, enhance security systems, and landfarm facilities.	
8.	Attach a contingency plan for reporting and clean-up for spil	ls or releases.
9.	Attach a routine inspection and maintenance plan to ensure	permit compliance.
10.	Attach a closure plan.	
11.	Attach geological/hydrological evidence demonstrating tha groundwater. Depth to and quality of ground water must be	
12.	Attach proof that the notice requirements of OCD Rule 711	nave been met.
13.	Attach a contingency plan in the event of a release of H_2S .	
14.	Attach such other information as necessary to demonstrate orders.	compliance with any other OCD rules, regulations and
15.	CERTIFICATION	
	I hereby certify that the information submitted with this appland belief.	ication is true and correct to the best of my knowledge
ř	Name:Tit	e:
,	Signature: Da	te:



NOSEROLU RJ JNTERPRISES G112197

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Nose Rock BJ Interprises 6/12/97



Nose Rock RJ Interprises

612197

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Nose Lock RSInterprises G/12/97 STATE OF NEW MEXICO OIL CONSERVIATION DIVISION

MEMORANDUM OF MEETING OR CONVERSATION

Time Date 7-2-97 Telephone Personal 2:30 Originating Party Other Parties Martyne Kieling 327-9931 Johnny Cunningham Subject Nose Rock Bond Discussion write a letter to the Director Reguesting a Varance Rule Ha Bond σŕ Have Amount Estimate of Closure 400 Cstimates \$ 6900.00 + \$10.000.00 have been Blackoil - JR Interprises - Nose -Conclusions or Agreements Distric Work with Denny Foutz Azter Signed **Distribution** Maryne Kieling

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



E PRUG FREE

POST OFFICE BOX 2088

STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504

(505) 827-5800

BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

April 18, 1994

CERTIFIED MAIL RETURN RECEIPT NO. P-111-334-314

Mr. Riley S. Hill R.J. Enterprises 313 North Locke Farmington, New Mexico 87401

RE: REQUEST FOR COMPLIANCE WITH RULE 711 R.J. ENTERPRISES SAN JUAN COUNTY, NEW MEXICO

Dear Mr. Hill:

The New Mexico Oil Conservation Division (OCD) regulates commercial and centralized surface disposal facilities pursuant to OCD Rule 711 (effective date June 6, 1988) and as defined in OCD Order R-8662. Under Ordering Paragraph (2) of R-8662, existing facilities are required to comply with the provisions of Rule 711 no later than 120 days after receipt of OCD's request for additional information.

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OCD Rule 711 outlines specific information required by the OCD to permit surface disposal facilities. Although the pond at your facility was administratively approved previously, certain information now required by Rule 711 must be supplied by R.J. Enterprises in order for your facility to come into compliance with OCD Rule 711.

You have 120 days from receipt of this letter to come into compliance with OCD Rule 711 for your centralized surface collection facility located in Section 16, Township 20 North, Range 12 West, NMPM, San Juan County, New Mexico. Please submit the following information to the OCD in a timely manner to allow sufficient time for review and evaluation of your facility prior to permit approval:

1. The contact person's name and phone number.

2. A plat and topographic map showing the location of the facility in relation to

Mr. Riley Hill April 18, 1994 Page 2

governmental surveys, roads, watercourses, water wells, and dwellings within one mile of the site.

- 3. The names and addresses of landowners of record within one-half mile of the site.
- 4. A facility description and diagram indicating the location of fences, gates, cattleguards, pits/ponds, dikes, tanks and piping at the facility.
- 5. Detailed engineering designs with diagrams for any pits or ponds, liners, leak-detection systems, aeration systems, enhanced evaporation (spray) system, waste treating systems, security systems and associated waste facilities. Note that disposal of all approved wastes must be in accordance with Division rules, regulations, and guidelines. Enclosed is a copy of the OCD Guidelines for Permit Application, Design, and Construction of Waste Storage/Disposal Facilities.
- 6. A routine inspection and maintenance plan. Include a proposed testing schedule and plan for analysis of the pond water.
- 7. A contingency plan for reporting and clean-up of spills or releases.
- 8. A contingency plan in the event of a release of hydrogen sulfide (H2S).
- 9. A closure plan.
- 10. An affidavit of verification by an authorized representative of the company. Please use the attached "Application for Surface Waste Disposal Facility."

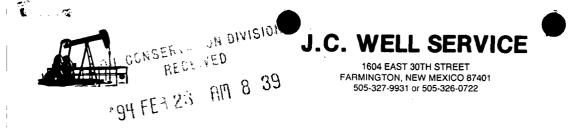
If any of the above items do not pertain to your facility please indicate on the application. Pursuant to OCD Rule 711, centralized facilities do not require a \$25,000 bond or public notice. If you have any questions please do not hesitate to contact Roger Anderson at (505) 827-5812.

Sincerely,

Kathy M. Brown Geologist

Attachments

xc: Denny Foust, OCD Aztec District Office



JOHN CUNNINGHAM OWNER

OWNER OPERATOR OF WELL'S R.J. ENTERPRISES P. O. BOX 51 FARMINGTON,NM 87499

DEAR SIRS:

FOLLOWING IS A LIST OF FOUR WELLS THAT DISCHARGE INTO POND LOCATED IN SEC. 16, T20N, R12W AS LISTED

NMALCO GURLEY #1 SEC.9 T2ON, R12W	36BWPD
SALAZAR NAVACITO #1 SEC.10, T20N R12W	41BWPD
STATE COOKIE #1 SEC. 16, T20N R12W	26BWPD
STATE COOKIE #5 SEC. 16, T2ON R12W	31BWPD
TOTAL	134BWPD

POND IS IN THE NE CORNER OF SEC. 16 T2ON R12W OF MCKINLEY COUNTY, NEW MEXICO ALL WELL'S OWNED BY R.J. ENTERPRISES

IF ANY QUESTIONS OR I CAN BE OF SERVICE CALL JOHN CUNNINGHAM (505) 327-9931 or 320-1073

CUNNING MAN

			VSIS REPORT	
_IVI IIN I L_I ()				
	PRISES	Location: Abvacily	GURLEY #1 = C 2015 #1-	# <u>~</u>
	11020			
e NEW MEXICO		· · · · · · · · · · · · · · · · · · ·		<u> </u>
			an a	
mg/L	meq/L		<u>mg/L meq/L</u>	
0.00	0.00	Sulfate	16.3 0.34	
540.00	23.49	Chloride	415.0 11.71	
2.10	0.10	Carbonate	0.0 0.00	
0.50	0.04	Bicarbonate	730.0 11.96	
0.60	0.03	Hydroxide	0.0 0.00	
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lonic Stre Specific G pt	ravity: n: d Solids: ========	1.901 7.80 1580		
Ionic Stre Specific G ph Total Dissolve Total Dissolve X (Positive Value	ravity: n: d Solids: ========	1.001 7.80 1580 ale Tendency)	CaSO4 SI	
Ionic Stre Specific G pt Total Dissolve	ravity: n: d Solids: ========	1.901 7.80 1580	<u>CaSO4 SI</u> 0.25	
Ionic Stre Specific G pt Total Dissolve ======= X (Positive Value <u>Temperature</u>	ravity: n: d Solids: ========	1.001 7.80 1580 <u>ale Tendency)</u> <u>CaCO3 SI</u>		
Ionic Stre Specific G pt Total Dissolve <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C	ravity: n: d Solids: ========	1.001 7.80 1580 Ale Tendency) <u>CaCO3 Si</u> -0.32	-0.25	
Ionic Stre Specific G pt Total Dissolve <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C	ravity: n: d Solids: ========	1.001 7.80 1580 Ale Tendency) <u>CaCO3 Si</u> -0.32	-0.25	
Ionic Stre Specific G pt Total Dissolve <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C	ravity: n: d Solids: ========	1.001 7.80 1580 Ale Tendency) <u>CaCO3 Si</u> -0.32	-0.25	
Ionic Stre Specific G pt Total Dissolve <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C	ravity: n: d Solids: ========	1.001 7.80 1580 Ale Tendency) <u>CaCO3 Si</u> -0.32	-0.25	
Ionic Stre Specific G pt Total Dissolve <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C	ravity: n: d Solids: ========	1.001 7.80 1580 Ale Tendency) <u>CaCO3 Si</u> -0.32	-0.25	
Ionic Stre Specific G pt Total Dissolve <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C	ravity: n: d Solids: ========	1.001 7.80 1580 Ale Tendency) <u>CaCO3 Si</u> -0.32	-0.25	
Ionic Stre Specific Gi ph Total Dissolved <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C 122F 50.0C	ravity: n: d Solids: ========	1.001 7.80 1580 Ale Tendency) <u>CaCO3 SI</u> -0.32 -0.30	-0.25	
Ionic Stre Specific G ph Total Dissolve <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C 122F 50.0C	ravity: n: d Solids: ========	1.001 7.80 1580 <u>Ale Tendency)</u> <u>CaCO3 SI</u> -0.32 -0.30	-0.25	
Ionic Stre Specific Gi ph Total Dissolve ====================================	ravity: n: d Solids: ========	1.001 7.80 1580 <u>Ale Tendency)</u> <u>CaCO3 SI</u> -0.32 -0.30	-0.25	
Ionic Stre Specific Gi ph Total Dissolved <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C 122F 50.0C	ravity: n: d Solids: ====================================	1.001 7.80 1580 Ale Tendency) <u>CaCO3 SI</u> -0.32 -0.30	-0.25	
Ionic Stre Specific Gi ph Total Dissolved <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C 122F 50.0C	ravity: n: d Solids: ====================================	1.001 7.80 1580 <u>Ale Tendency)</u> <u>CaCO3 SI</u> -0.32 -0.30	-0.25	
Ionic Stre Specific Gi ph Total Dissolved <u>X (Positive Value</u> <u>Temperature</u> 86F 30.0C 122F 50.0C	ravity: n: d Solids: ====================================	1.001 7.80 1580 Ale Tendency) <u>CaCO3 SI</u> -0.32 -0.30	-0.25	
	iy: R J. ENTERI id: N. MALCO iy: SAN JUAN ie:NEW MEXICO 540.00 540.00 2.10 0.50 0.60 0.75 <u>0.04</u>	iy: R J. ENTERPRISES id: N. MALCO iy: SAN JUAN ie:NEW MEXICO <u>mg/L</u> <u>meq/L</u> 0.00 0.00 540.00 23.49 2.10 0.10 0.50 0.04 0.60 0.03 0.75 0.01 <u>0.04</u> 0.00 544.0 23.67 GASES: mg/l ide (CO2) 0)] 0	iy: K J. ENTERPRISES Location: Abuac: JU C id: N. MALCO Engineer: J. C ty: SAN JUAN Analyst: A. te:NEW MEXICO SAMPLE DATE: 0 Mg/L meq/L 0.00 Sulfate 540.00 23.49 Chloride 2.10 0.10 Carbonate 0.50 0.04 Bicarbonate 0.60 0.03 Hydroxide 0.75 0.01 - 0.04 0.00 - 544.0 23.67 SUM –	TC J. ENTERPRISES Location: $Ab Jac; JJ', GURLEY #1 - C. aoKIE; $

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STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



POST OFFICE BOX 2088

STATE LAND OFFICE BUILDING

SANTA FE, NEW MEXICO 87504 (505) 827-5800

BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

January 12, 1994

CERTIFIED MAIL RETURN RECEIPT NO. P-111-334-067

Mr. Riley S. Hill R.J. Enterprises 31\$3 North Locke Farmington, New Mexico 87401

RE: REQUEST FOR OCD RULE 711 COMPLIANCE NOSE ROCK-HOSPAH EVAPORATION POND McKINLEY COUNTY, NEW MEXICO

Dear Mr. Hill:

On November 30, 1993 (enclosure), the New Mexico Oil Conservation Division (OCD) requested Black Oil to submit information on the unlined pond located in Section 16, Township 20 North, Range 12 West, NMPM, McKinley County, New Mexico. The pond was originally permitted by the OCD on November 4, 1987. The information required was to bring the pit into compliance with the permit approval and to determine if the evaporation pond requires an OCD Rule 711 permit.

Mr. Black has informed the OCD that he sold this operation to Mr. Pat Gurley of Gurley Oil Company who in turn sold the properties to R.J. Enterpises. If you are the new operator of this pond please submit the following information:

1. <u>Discharge Quality</u>: An analysis of the pond water using standard EPA sampling methods and analyzing for volatile aromatic organics using EPA method 8020, heavy metals using ICAP, mercury using the Atomic Absorption (AA) method, and major cations/anions including TDS using approved EPA methods.

Mr. Riley Hill January 12, 1994 Page 2

> 2. <u>Discharge Volume</u>: The average daily volume of water discharged into the pond. Include the name, number, owner and operator of the wells currently and historically discharging into the pond.

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The OCD requests that R.J. Enterprises submit the materials requested above by February 18, 1994. If you have any questions, please do not hesitate to contact Kathy Brown at (505) 827-5884.

Sincerely,

Roger C. Anderson Environmental Bureau Chief

RCA/kmb

Enclosures

xc: Denny Foust, OCD Aztec Office



BRUCE A. BLACK Ph.D. Registered Petroleum Geologist 206 W. 38th Ph: (505) 325-7855 Farmington, New Mexico 87401

OIL CONSERVE ON DIVISION RECEIVED

'93 DEC 15 AM 8 32

December 13, 1993

Roger Anderson Energy, Minerals and Natural Resources Department PO Box 2088 State Land Office Building Santa Fe, New Mexico 87504

RE: Certified Mail No. p-111-334-079

Dear Mr. Anderson:

I spoke to Kathy Brown of your office yesterday and explained that I am no longer the Operator of the Nose Rock - Hospah oil field. Mr. Pat Gurley of Gurley Oil company took over all operations and responsibilities several years ago (1989 or 1990). This year he has sold the properties to R.J. Enterprises at 313 North Locke in Farmington, New Mexico 87401. I have taken the liberty of sending a copy of your letter on to them.

If I can be of further assistance please advise.

Sincerely,

Bruce A. Black

STATE OF NEW MEXICO MEMORANDUM OF MEETING OR CONVERSATION OIL CONSERVATION DIVISION Time Date 🕌 Telephone Personal 3:00 P.M. Nov 4, 1993 Originating Party Other Parties Rillie Robinson K. Brown 983-7195 OCF ic ject BlackOi lose Rock Centralized Discussion Billie + George Coleman are leasers e status of the th Por ? under compl Black Oils inne sem 50. Leen 100 70 182 wen ll to Riley 64 les vants +0 Ôsing to 0 to choc 2 are producing reed N lc serm onclusions or Agreements Need a rater analysis (TDS) of pind than Bill Lemay's approval Nov. 4, 1987. signed Katty O stribution

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



ANITA LOCKWOOD CABINET SECRETARY November 30, 1993

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

CERTIFIED MAIL RETURN RECEIPT NO. P-111-334-079

Mr. Bruce A. Black Black Oil, Inc. P.O. Box 537 Farmington, New Mexico 87499

RE: REQUEST FOR OCD RULE 711 COMPLIANCE BLACK OIL, INC. EVAPORATION POND McKINLEY COUNTY, NEW MEXICO

Dear Mr. Black:

On November 4, 1987 (enclosure) the New Mexico Oil Conservation Division (OCD) approved the discharge of up to 150 BPD of produced water to be used for watering livestock. The source of the water is from five (5) producing oil wells located in the Nose Rock-Hospah Extension field. The water is discharged into an unlined pond located in Section 16, Township 20 North, Range 12 West, NMPM, McKinley County, New Mexico.

A condition of approval was that Black Oil would submit an annual analysis for total dissolved solids (TDS) on or before November 1, beginning in 1988. The last analysis that the OCD has on record is dated February 17, 1988. To come into compliance with the permit approval and to determine if the evaporation pond requires an OCD Rule 711 permit, please submit the following information:

1. <u>Discharge Quality</u>: An analysis of the pond water using standard EPA sampling methods and analyzing for volatile aromatic organics using EPA method 8020, heavy metals using ICAP, mercury using the Atomic Absorption (AA) method, and major cations/anions including TDS using approved EPA methods. Mr. Bruce A. Black November 30, 1993 Page 2

> 2. <u>Discharge Volume</u>: The average daily volume of water discharged into the pond. Include the name, number, owner and operator of the wells currently and historically discharging into the pond.

The OCD requests that Black Oil submit the materials requested above by January 1, 1994. If you have any questions, please do not hesitate to contact Kathy Brown at (505) 827-5884.

Sincerely,

Roger C. Anderson Environmental Bureau Chief

RCA/kmb

Enclosure

xc: Denny Foust, OCD Aztec Office



4/19/88 Black Oil



Black Oil 4/19/88

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Block Oil

4/19/88



Black Oil

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4/19/88



Black Oil 4/19/88



February 17, 1988

Mr. David G. Boyer Energy, Minerals and Natural Resources Dept. Oil Conservation Division P.O. 2088 Santa Fe, New Mexico 87504

Dear Mr. Boyer:

Enclosed please find water analysis reports on produced water being discharged into a centralized pit to be used for stock water at our Nose Rock-Hospah Ext. field. The field is located in section 16, T2ON, R12W, in McKinley County, New Mexico.

Water samples are from our NMALCO Gurley No. 1 and 4, State Cookie No. 1, State Margie No. 1, and Salazar Navajocito No. 1.

If you have any questions or require further information, please contact us.

Sincerely,

Bruce A. Black

BAB/ta

cc: Aztec District Office

Encs.

707 North Leech

P.O.Box 1499

Hobbs, New Mexico 88240

Company : Black Oil Date : 01-08-1988 Location: Gurley #1 - Gunbarrel (on 12-17-1987)

		Sample 1
Specific Gravity:		1.001
Total Dissolved Solids:		1343
pH:	· .	8.65
IONIC STRENGTH:		0.024

<u>CATIONS:</u> Calcium Magnesium Sodium Iron (total)	(Ca ^{+ 2}) (Mg ^{+ 2}) (Na ^{+ 1}) (Fe ^{+ 2})	<u>me/liter</u> 0.333 0.533 20.1 0.039	<u>mg/liter</u> 6.67 6.48 462 1.10
ANIONS:	(Ba+2)	0.004	0.300
Bicarbonate Carbonate Hydroxide Sulfate Chloride	(HCO_3^{-1}) (CO_3^{-2}) (OH^{-1}) (SO_4^{-2}) $(C1^{-1})$	6.00 5.60 0.229 9.12	366 168 0 11.0 323

	SCALING	INDEX	(positive	value indicate	<u>s scale)</u>
·				Calcium	Calcium
Temp	<u>erature</u>			Carbonate	Sulfate
86°F	. 30°C.			0.77	-20
120°F	49 ° C			1.7	-20

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Black Oil Company Date : 02-12-1988 Location: Navajocito #1 - Separator (on 01-25-1988)

	Sample 1
Specific Gravity:	1.002
Total Dissolved Solids:	2167
pH:	8.18
IONIC STRENGTH:	0.035

CATIONS:		me/liter	mg/liter	
Calcium	(Ca+2)	0.500	10.0	
Magnesium	(Mg ^{+ 2})	0.500	6.07	
Sodium	(Na ⁺¹)	31.5	725	
Iron (total)	(Fe ⁺²)	0.023	0.630	
Barium	(Ba+²)	0.001	0.060	
Manganese	(Mn+2)	0.003	0.070	
ANIONS: Bicarbonate	(HCO_{3}^{-1})	10.4	634	
Carbonate	(CO_3^{-2})	2.40	72.0	
Hydroxide	(OH^{-1})		0	
Sulfate	(504^{-2})	1.67	80.0	
Chloride	$(C1^{-1})$	18.1	640	

·	SCALING	INDEX	(positive	value indicate	<u>s scale)</u>
				Calcium	Calcium
Temper	ature			<u>Carbonate</u>	Sulfate
86 " F	30°C			0.47	-19
120°F	49°C	•		1.4	-19

707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Black Oil Company Date : 02-12-1988 Location: St. Cookie #1 - Separator (on 01-25-1988)

	Sample 1
Specific Gravity:	1.002
Total Dissolved Solids:	2245
pH:	8.05
IONIC STRENGTH:	0.036

<u>CATIONS:</u> Calcium Magnesium Sodium Iron (total) Barium Manganese	(Ca ⁺²) (Mg ⁺²) (Na ⁺¹) (Fe ⁺²) (Ba ⁺²) (Mn ⁺²)	<u>me/liter</u> 0.400 0.600 32.6 0.012 0.003 0.003	<u>mg/liter</u> 8.00 7.29 751 0.330 0.180 0.080
ANIONS: Bicarbonate Carbonate Hydroxide Sulfate Chloride	(HCO_3^{-1}) (CO_3^{-2}) (OH^{-1}) (SO_4^{-2}) $(C1^{-1})$	10.8 2.00 0 1.67 19.2	659 60.0 0 80.0 680

	SCALING	INDEX	(positive	value indicate	<u>s scale)</u>
				Calcium	Calcium
. Temp	erature			<u>Carbonate</u>	<u>Sulfate</u>
86 F	30°C			0.24	-19
120°F	49°C			1.1	-19

7D7 North Leech P.O.Box 1499

Hobbs, New Mexico 88240 -

Company : Black Oil Company Date : 02-12-1988 Location: Gurley #4 - Separator (on 01-25-1988)

	Sample 1
Specific Gravity:	1.002
Total Dissolved Solids:	2106
:Hq	8.17
IONIC STRENGTH:	0.035

CATIONS:	•	me/liter	mg/liter
Calcium	(Ca+2)	0.700	14.0
Magresium	(Mg ⁺²)	0.300	3,65
Sodium	(Na ⁺¹)	30.9	711
Iron (total)	(Fe ⁺²)	0.012	0.330
Barium '	(Ba+2)	0.001	0.060
Manganese	(Mn ⁺²)	0.007	0.190
ANIONS:			
Bicarbonate	(HCO ₃ -1)	9.40	573
Carbonate	(CO_3^{-2})	2.80	84.0
Hydroxide	(OH-1)	0	0
Sulfate	$(SO_4 - 2)$	1.67	80.0
Chloride	(Ci-1)	18.1	640

	SCALING	INDEX	(positive	value indicate	<u>es scale)</u>
				Calcium	Calcium
Temp	erature			<u>Carbonate</u>	Sulfate
86 [°] F	30°C			0.58	-19
120°F	49°C			1.5	-19



707 North Leech P.O.Box 1499

Hobbs, New Mexico 88240

Company : Black Oil Company Date : O2-12-1988 Location: St. Margie #1 - Separator (on O1-25-1988)

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Sample 1
1.002
2203
8.18
0.036

CATIONS:		me/liter	mg/liter
Calcium	(Ca+2)	0.700	14.0
Magnesium	(Mg^{+2})	0.200	2.43
Sodium	(Na ⁺¹)	32.2	740
Iron (total)	(Fe ⁺²)	0.023	0.630
Barium	(Ba ^{+ 2})	0.001	0.090
Manganese	(Mn+2)	0.003	0.070
ANIONS:			
Bicarbonate	(HCO ₃ -1)	10.4	634
Carbonate	$(CO_3 - 2)$	2.40	72.0
Hydroxide	(OH-1)	0	0
Sulfate	(\$04-2)	1.67	80.0
Chloride	(C1-1)	18.6	660

•	SCALING	INDEX	(positive	value indicate	<u>es scale)</u>
				Calcium	Calcium
Temp	erature			<u>Carbonate</u>	<u>Sulfate</u>
86°F	30°C			0.61	-19
120 [°] F	49°C			1.5	-19





W.R. HUMPHRIES COMMISSIONER

Commissioner of Public Lands

.P.O. BOX 1148 SANTA FE, NEW MEXICO 87504-1148

November 19, 1987

David G. Boyer Environmental Bureau Chief Oil Conservation Division State Land Office Building Santa Fe, NM 87504

RE: T-20N, R-12W, Section 16 Black Oil Company Robert Becenti - Crownpoint, N. M.

I understand from our recent conversation and the material you sent me on October 28, that Black Oil Company is requesting approval from OCD to discharge produced water into an unlined pit which a Land Office grazing lessee, Robert Becenti, wishes to use for watering his stock.

Your tests have shown the water presently to be of sufficient quality for stock drinking without adverse side effects to the cattle or those who might consume products of the animal (milk or beef). Mr. Becenti states he is assuming the risk for his cattle drinking the water.

The Land Office probably has no obligation to police the relationship between users where they have mutually agreed to a given activity as long as the agreed activity is not detrimental to the trust's interests. As it is your decision to issue the requested permit based upon present water quality, I would strongly recommend that Black Oil Company regularly test the water and advise OCD and the grazing lessee periodically in writing of its quality. I understand you have decided to make this a requirement of the permit.

Thank you for the courtesy of advising of the situation. It is a healthy and welcomed approach that our two offices are working in sinc where we can on environmental matters.

Very truly yours,

Nicholas J. Black Associate Counsel

cc: Gary Carlson Dwain Glidewell Bill Garcia STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

November 4, 1987

Dr. Bruce Black Black Oil, Inc. P.O. Box 537 Farmington, New Mexico 87499

Dear Dr. Black:

Your request for approval of the discharge of up to 150 BPD of produced water to be used for stock water at the Nose Rock-Hospah Ext. field, Section 16, T20N, R12W has been received and evaluated by the Oil Conservation Division.

Based on the information furnished by you in letters dated June 1, June 10, October 22 and October 30, 1987, and the laboratory analyses of samples taken August 6, 1987, this request is hereby approved. Please be advised that this approval does not relieve you of liability should your operation result in pollution of surface or ground water or endangerment of humans or stock that may be actionable under other laws and/or regulations. Copies of the laboratory analyses are being provided for your information.

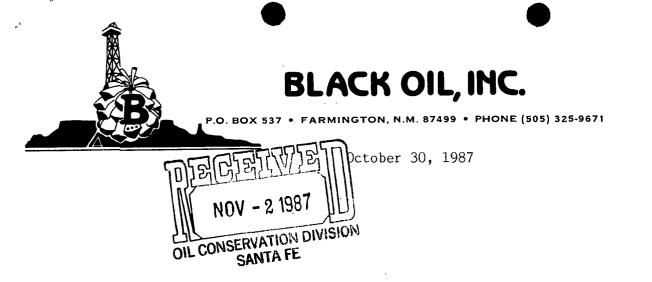
Annual analyses for total dissolved solids for water in the pond shall be submitted to the Oil Conservation Division on or before November 1, beginning in 1988.

You are required to notify the Oil Conservation Division if any changes are made in the discharge to the pond, submitting total dissolved solids analyses for water from any additional wells you may want to add to the system.

Sincerely, William J. Lemay Director

WJL:JB:sl

xc: OCD-Aztec David Catanach



Mr. David G. Boyer Energy Minerals and Natural Resources Department Oil Conservation Division P.O. Box 2088 Santa Fe, New Mexico 87504

Dear Mr. Boyer:

Enclosed is a completed pit registration form on our proposed facility located at our Nose Rock field in McKinley County, and a map showing the site of contributing wells. We will post a sign at the watering area stating that the water is not to be consumed by humans. We will submit to you a water sample each year detailing the solids contained in the water.

Please advise if we need to furnish any other information.

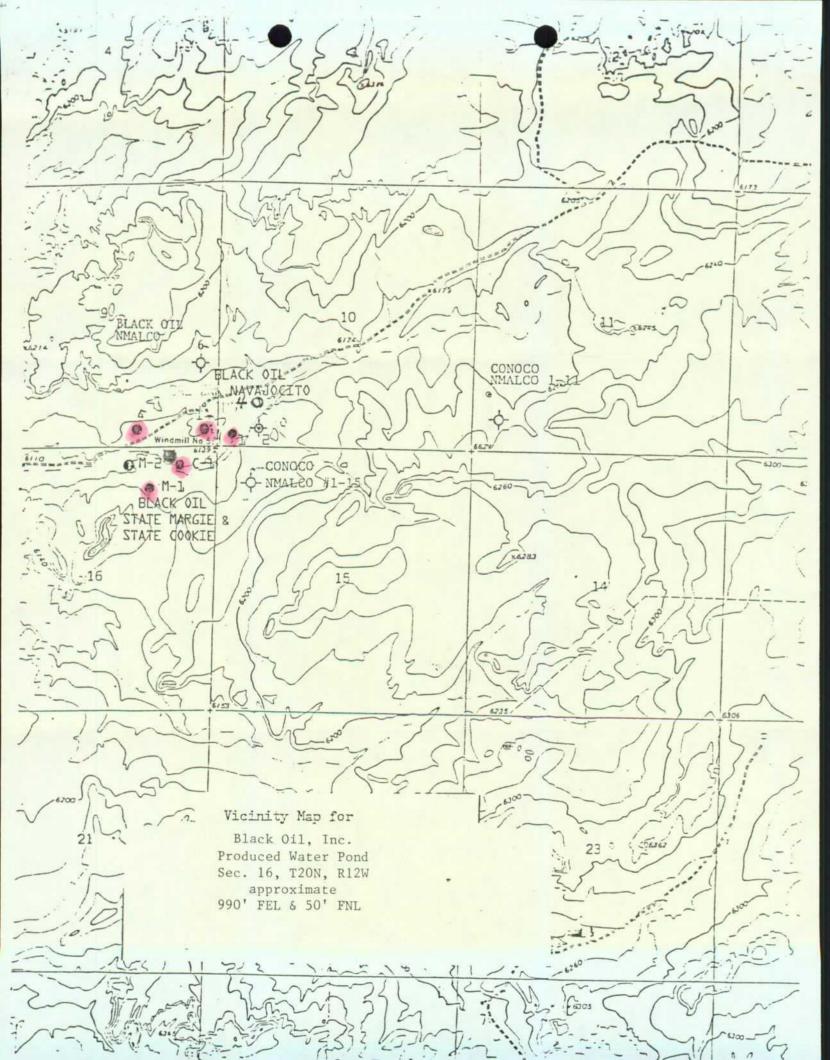
Sincerely,

Bruce A. Black

BAB/ta

Enc.

cc: Aztec District Office



State of New Mexico Energy and Minerals Department

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OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 37501 (505) 327-5800

CENTRALIZED DISPOSAL OR COLLECTION PIT REGISTRATION FORM

C-mer/Operator: Black Oil, Inc. List information only for pits operated by you at a lease or a	IF OTHER OCATIONS)
Address: P.O. Box 2092, Farmington, NM 8749	99
Well and Lease, or Facility Name: Nose Rock - Hospah Ex	۲ ٤.
Location:SE of Sec. 9, SW of Sec. 10, NE of Sec.	. 16, McKinley County
(A) (B) Fit Fluid Pit Fluid Type: Sources X 1. Produced Water 2. Completion Fluids Pumping oil Wells 3. Drilling Fluids 4. Drill Cuttings	(C) (D) Maximum Daily Fit Type: Discharge to X 1. Unlined each Fit 2. Lined 150 3. Tank
List all Weils a Locations that Contribute Fluid to Pit	
NMALCO GURLEY #1 - 330' FSL & 330' FNL, Sec. 9,	T20N, R12W
NMALCO GURLEY #4 - 330' FSL & 1750' FEL, Sec. 9,	. T20N. R12W
STATE COOKIE #1 - 330' FNL & 990' FEL, Sec. 16,	
STATE MARGIE #1 - 990' FNL & 1650' FEL, Sec. 16,	
SALAZAR NAVAJOCITO #1 - 330' FSL & 330' FNL, Sec	
	~
· · · ·	· .
	·
Is this facility located in or within 100 horizontal feet of a <u>Matercourse</u> : Any lake-bed or gully, draw, stream bed, wash, a water flows or has flowed.	
Is ground water at the site at 10 feet or less from the base of	the pit? YesNoX
I hereby certify that I am familiar with the information contain information is true, againsts and complete to the best of my kn	
A Samp la Kak	10-30-87
(Signature)	(Jaca)
Bruce A. Black	President
Printed Name of Person Signing)	(Titla)

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STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS GOVERNOR

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

October 28, 1987

MEMORANDUM

TO: Nicholas Black, Attorney, State Land Office

FROM: David Boyer, Environmental Bureau Chief, OCD

RE: Black Oil Company Request to Discharge Produced Water near Crownpoint

Since the requested discharge location is on state land (Section 16, T 20 N, R 12 W), I am enclosing for your information data on the site and planned operation. When OCD receives all the requested information, we plan to approve the application with the stipulation that they take samples and report pond Total Dissolved Solids yearly as well as sample and report the same for water from any additional wells they want to add to the system.

If you need further information, please contact me at extension 5812.

STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

GARREY CARRUTHERS

October 23, 1987

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Mr. Mike Maloney Black Oil Company Box 537 Farmington, NM 87499

Re: Centralized Pit Registration

Dear Mr. Maloney:

Enclosed is a copy of OCD Rule R-7940 A and a pit registration form for your proposed facility near Crownpoint. Please complete the form and return it to us along with the following information:

- 1. A map showing location of the site and contributing wells.
- 2. A drawing showing proposed location of pit(s), separation equipment, and cattle watering equipment.
- 3. Pit information (number, dimensions, depth, berms, fencing, etc.)
- 4. A statement or affidavit from the person responsible for the cattle stating that he understands the water is from an oil production facility and is not to be consumed by humans. Also, the document should acknowledge that while tests indicate the water is currently potable for livestock, no representations as to continued quality are made by Black Oil or the Oil Conservation Division, and the livestock owner takes responsibility for its use.
- 5. A commitment to post a sign at the watering area stating that the water is not to be consumed by humans.

After we receive this information, we expect to approve the pit, since we have already evaluated the ground water contamination potential as minimal. Also, if you do not desire to construct an injection well, please withdraw your application by notifying David Catanach of this office. Please contact me or Roger Anderson if you have any questions.

Sincerely David G. Boyer

Hydrogeologist/Environmental Bureau Chief

Encl.

cc: David Catanach Aztec District Office



October 22, 1987

Mr. Dave Boyer Oil and Gas Commission P.O. Box 2088 Santa Fe, NM 87504

Dear Mr. Boyer:

In accordance with your conversation today with Mike Maloney, we are enclosing the surface lease owner's letter giving us permission to give him stock tank water from our production zone in the Nose Rock field. Additionally, he has accepted full responsibility and liability for the water and its affects on his cattle.

We are also enclosing a vicinity map with the approximate location of our proposed pond, and a drawing showing the size of the proposed ponds.

We will fence the two ponds to keep all livestock out of the ponds and the third pond will be for livestock drinking water.

We appreciate your help and we anxiously await your final approval of our plans. Please advise if we need to furnish any other information.

Sincerel Bruce A. Black

June 1, 1987

Bruce A. Black Black Oil, Inc. P.O. Box 537 Farmington, NM 87499

Dear Mr. Black:

I am the surface grazing lease owner in the area where your new Nose Rock oil field is being drilled. You have told us that there is some fresh water being produced with the oil in this field.

Since we are in need of all the water we can find, we would greatly appreciate your making arrangements to provide to us any water that you produce for our surface stock tanks. We presently have a stock tank in section 16. This is a State owned parcel and we are using the surface under our grazing lease.

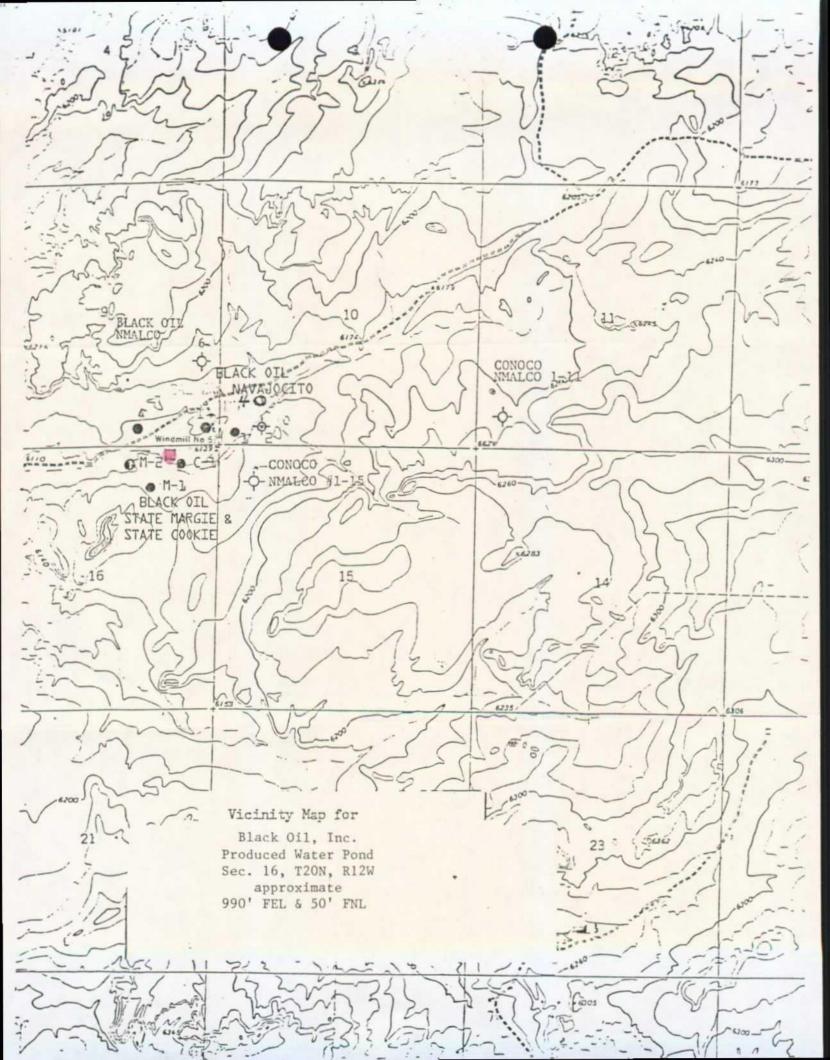
We would also greatly appreciate additional stock tank development or enlargement for the section if the water can be made available. I, of course, will accept full responsibility and liability for the water and its affect on our cattle.

Thank you for your help in arranging to help us with our water needs and in helping provide us with this badly needed resource.

Sincerely, .

Robert Becent

Robert Becenti Box 5 Crownpoint, NM 87313



stock drinking water Ø 3" VALVE 1 30' 3" valve to control flow 301 pond 200' X 300' X 3' pond 50' X 60' X 6' pond 30' X 30' X 3' proposed pond for stockwater produced water 3" steel pipe 6 wall to be 5' high 3' B. G. L. ъ. 4. 2. . 300' 330' to NL State Cookie No. 1 3" valve Ð **}**ਨ Approximate NE Corner 990' FEL & 50' FNL -- 2001 109 water in 50 6'BGI 6 Black Oil, Inc. Sec. 16, T20N, R12W ROADWAY Ś MCKINLEY COUNTY, NEW MEXICO 066 10-22-87 15 Sec. 16 grojage 10

7.53 343 AB 8-11-87	SCIENTIFIC LABORATORY DIVISION 87 328 G 700 Camino de Saluu NE Albuquerque, NM 87106 841-2570 754 M					
g - 11-9 87- 1343-C	REPORT TO: <u>David Bayer</u> <u>N-M. Oil Concernation Div.</u> S.L.D. No. OR. <u>1328 AD</u> <u>DATE REC. <u>8-7-87</u> <u>P.O. Box 2088</u> <u>Santa Fe 87504-2088</u> <u>PHONE(S): 827-5812</u></u>					
	COLLECTION CITY: $(rov_n flow_n)$; county: $S_{G_1} (f_{M_1})$; county: $S_{G_2} (f_{M_2})$; county:					
	SAMPLE TYPE: WATER A, SOIL , FOOD , OTHER: This form accompanies Septum Vials, Glass Jugs, and/or Samples were preserved as follows: NP: No Preservation; Sample stored at room temperature. P-Ice Sample stored in an ice bath (Not Frozen). P-Na SO Sample Preserved with Sodium Thiosulfate to remove chlorine residual.					
	ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. PURGEABLE SCREENS EXTRACTABLE SCREENS (753) Aliphatic Headspace (1-5 Carbons) (751) Aliphatic Hydrocarbons (754) Aromatic & Halogenated Purgeables (755) Base/Neutral Extractables (765) Mass Spectrometer Purgeables (758) Herbicides, Chlorophenoxy acid (766) Trihalomethanes (760) Organochlorine Pesticides (767) Polychlorinated Biphenyls (PCB's) (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (762) SDWA Pesticides & Herbicides					
	PIELD DATA: pH=; Conductivity=umho/cm at°C; Chlorine Residual=mg/l Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate/ Depth to waterft.; Depth of wellft.; Perforation Intervalft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) Klack Oil CoNMALCO Garley #1Second fibers/cs iKolding I certify that the results in this block/accurately/reflect the results of my field analyses, observations and /					
	A Certify that the results in this block are correct. Evidentiary Seals: Not Sealed OR Seals Intact: Yes No Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of Shipment to the Lab: Manual Method of Shipment to the Lab: <u>Manual Method of S</u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u></u>					

ANALYSES PERFO MED	LAB. No .: OR- 1328/1343
THIS PAGE FOR LABO	DRATORY RESULTS ONLY
This sample was tested using the analytical screening method(s)) checked below:
PURC EABLE SCREENS (753) Aliphatic Headspace (1-5 Carbons) (754) Aromatic & Halogenated Purgeables (765) Mass Spectrometer Purgeables (766) Trihalomethanes Other Specific Compounds or Classes	EXTRACTABLE SCREENS (751) Aliphatic Hydrocarbons (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides
ANALYTICA	AL RESULTS
COMPOUND(S) DETECTED CONC.	COMPOUND(S) DETECTED CONC.
He AD SPACE	heloginated surseafler N.D
MetHoma MOL = Span 459 por	admatic strageables semantes
ETHAME MOL = 1 mm 16 pom	Em-referre 1 500
Propance MOL = 1 por 195 por	
isoBut Are MDC = 1 ppm 1229 ppm	,
n-Barrame MOC = 1 ppm 326 ppm	l
1500 CATALE MOL = 1 ppm 1557 ppm n-peutous MOL = 1 ppm 1273 ppm	
	l
DETECTION LIMIT	+ DETECTION LIMIT + 10^{39}
ABBREVIATIONS USED: N D = NONE DETECTED AT OR ABOVE THE STATE: T R = DETECTED AT A LEVEL BELOW THE STATE: [RESULTS IN BRACKETS] ARE UNCONFIRMED AND/ LABORATORY REMARKS: Tester, companying 1	D DETECTION LIMIT (NOT CONFIRMED)
late eluting at apport 100-600 pab	letected by the photoionization
appear to be a misture of cycli as well as unsaturated alighet	a adjutation and linear alightetics
CERTIFICATE OF ANAL	
Seal(s) Not Sealed Intact: Yes No Seal(s) broken I certify that I followed standard laboratory procedures on handlin that the statements on this page accurately reflect the analytical s	by: date: g and analysis of this sample unless otherwise noted and
I certify that I have reviewed and concur with the analytical resu Reviewers signature: <u>M'eyapeir</u>	
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REPORT TO: David Boyer	IN BNUMBER WC 3632
N.M. Oil Conservation Mill	NU DATE RECEIVED 8-7-87
P.O. Box 2068 Old Santa Fe Trail	DATE REPORTED
Santa Fe MM. 87504	
	OCT - 9 1987 SLO USER CODE NUMBER 82235
Well Location Address <u>T-20N</u> , R	CONSERVATION DIVISION
Point of Collection <u>NHAL</u>	SANIAFE
Well Owner/User Alack Dil Co.	
Number of People Drinking Water from Well	\mathcal{O}
Collected 8/6/87 /100	By Bill Olson OCD
Date Time	Name Agency
Well Depth	PH
Water Level	Conductivity (Uncorrected) Uncorrected) umho/cm
Taste? Odor? Color? Collectors Remarks	
scapled from Met to second	Conductivity atumho/cm
tiberglass holding tank	
PROJECT:	
From, A-H ₂ SO ₄ Sample:	From <u>NF</u> , NA Sample: Date <u>Analyzed</u>
Nitrate-N ⁺ mg/1	[] Calcium 2 mg/1 9/10
Nitrite-N	Potassium <u>1.95 mg/1 8/3/</u>
Ammonia-Nmg/1	Magnesium <u><1</u> mg/1 <u>9/10</u>
Chemical mg/1 oxygen demand	Sodium <u>598</u> mg/1 <u>8/31</u> Bicarbonate 654 mg/1 9/2
	$\Box \text{ Chloride} \qquad \underline{438} \text{mg/l} \underline{7/2}$
	Sulfate <u>57,4</u> mg/1 91)
From, A-HNO3 Sample:	Total Solids <u>1380 mg/1 9/25</u>
ICAP Scan	A Cotion Balance
Metals by AA (Specify)	
This form accompanies <u>l</u> sample(s NF: Whole sample (no filtration F: Filtered in field with 0.4 A-H ₂ SO ₄ : Acidified with 2 ml conc H A=HNO ₃ : Acidified with 5ml conc H NA: No acid added	15u membrene filter 12S04/1 / J /

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•	700 Camino de Salud Ibuquerque, NM 87106 8	NE
REPORT TO:	David Boyer	S.L.D. No. OR- 1088 A4B
	N.M. Oil Conservation Division	DATE REC. 6-11-87.
	P. O. Box 2088	
	Santa Fe, N.M. 87504-2088	PRIORITY
PHONE(S):	327-5812	USER CODE: 3 2 2 3 5
SUBMITTER:	David Boyer	CODE: 12 6 0
SAMPLE COLLE	CTION CODE: (YYMMDDHHMMIII) 87206	1014110113WC0
	WATER X, SOIL , FOOD , OTHER:	CODE:
COUNTY: 14/2	Kihley ; CITY: Crownpoint	
LOCATION COD	E: (Township-Range-Section-Tracts) $ 2 0 N+ $	12 W+0 9+ (10N06E24342)
	UESTED: Please check the appropriate box(es) below t er possible list specific compounds suspected or required	
<pre>(753) Alipha (753) Alipha (754) Aroma (765) Mass (766) Trihale Other Remarks: FIELD DATA: pH=; Cu Dissolved Oxyger Depth to water Sampling Location</pre>	PURGEABLE SCREENS tic Purgeables (1-3 Carbons) tic & Halogenated Purgeables Spectrometer Purgeables comethanes specific Compounds or Classes PURGEABLE SCREENS AUG - G. 1987 AUG - G. 1987 AUG - G. 1987 OIL CONSERVATION DIVISION OIL CONSERVATION DIVISION SANTA FE Soft - training //: Alkalinity=mg/l; Flow Rateft.; Depth of wellft.; Perforation Interview, Methods and Remarks (i.e. odors, etc.)	EXTRACTABLE SCREENS [(751) Aliphatic Hydrocarbons] (760) Organochlorine Pesticides] (755) Base/Neutral Extractables [(758) Herbicides, Chlorophenoxy acid] (759) Herbicides, Triazines [(760) Organochlorine Pesticides] (761) Organophosphate Pesticides [(767) Polychlorinated Biphenyls (PCB's)] (764) Polynuclear Aromatic Hydrocarbons] (762) SDWA Pesticides & Herbicides [tesidual=mg/l
activities.(signatu This form accom Samples were pr NP: P-Ice P-Na S O CHAIN OF CU I certify that t at (location) the statements	he results in this block accurated reflect the results of the collector):	Method of Shipment to the Lab:
For OCD (Jse: Date Owner Notified Ph	one or Letter? Initials

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CERTIFICATE OF ANALYTICAL PERSONNEL	ANALYSES PERFORMED	LAB. No.: OR- 1088
PTROPABLE SCREENS EXTRACTABLE SCREENS [1753] Alphatic Furgesbies (1-5 Gestoons) [1751] Alphatic Furgesbies [1751] Alphatic Furgesbies [1763] Administic & Bialogenated Purgesbies [1760] Programblines Periodices [1760] Programblines Periodices [1761] Mass Spectrometer Purgesbies [1760] Staviolaticationses [1760] Staviolaticationses [1760] Staviolatices Transme [1760] Compounds of Classes [1760] Staviolatices Transme [1760] Staviolatices [1760] Staviolatices [1760] Compounds of Classes [1760] Staviolatices [1760] Staviolatices [1760] Staviolatices [1760] Compounds of Classes [1760] Staviolatices [1760] Staviolatices [1760] Staviolatices [1760] Staviolatices [1760] Staviolatices	THIS PAGE FOR LAR	BORATORY RESULTS ONLY
☐ (73) Aliphate Purgeblies (1-3 Carbons) ☐ (73) Aliphate Purgeblies ☐ (75) Manife & Hisperidie Compounds or Classes ☐ (75) Herbicides, Chicrophenoxy scid ☐ (75) Polyaber Aromatic Biphenys Peritcides ☐ (75) Barbicides, Chicrophenoxy scid ☐ (75) Barbicides, Chicrophenoxy scid ☐ (75) Polyaber Aromatic Biphenys Peritcides ☐ (75) Barbicides, Chicrophenoxy scid ☐ (75) Polyaber Aromatic Biphenys Peritcides ☐ (75) Polyaber Aromatic Biphenys Peritcides EXAMPTICAL RESULTS COMPOUND(5) DETECTED CONC. CONFOUND(5) DETECTED CONFC. CONFOUND(5) DETECTED CONFC. CONFOUND(5) DETECTED CONFC. CONFOUND(5) DETECTED CONFC. CONFOUND(5) DETECTED CONFC. PPDI CONFOUND(5) DETECTED CONFC. CONFOUND(5) DETECTED CONFC. CONFOUND(5) DETECTED CONFC. CONFOUND(5) DETECTED CONFOUND(5) DETECTED CONFC. CONFOUND(5) DETECTED CONFC. CONFOUND(6) DETECTED CONFOUND(6) DETECTED <p< td=""><td>This sample was tested using the analytical screening method(</td><td>(s) checked below:</td></p<>	This sample was tested using the analytical screening method((s) checked below:
COMPOUND(S) DETECTED CONC. [PPB] COMPOUND(S) DETECTED CONC. Algoritate Augustica N.D. [PDB] [PDB] Allog prefet Augustica N.D. [PDB] [PDB] DETECTION LIMIT • X 2.5 °mpl + DETECTION LIMIT + + [PDB] Abbreviations used: N D = NONE DETECTED AT OR ABOVE THE STATED DETECTION LIMIT T R = DETECTED AT A LEVEL BELOW THE STATED DETECTION LIMIT (NOT CONFIRMED) [RESULTS IN BRACKETS] ARE UNCONFIRMED AND/OR WITH APPROXIMATE QUANTITATION Abboratory REMARKS:	 (753) Aliphatic Purgeables (1-3 Carbons) (754) Aromatic & Halogenated Purgeables (765) Mass Spectrometer Purgeables (766) Trihalomethanes 	 (751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons
	ANALYTIC	AL RESULTS
Approximation guingrables N:D. Indicagination guingrables Indicagination guingrables Indicagination guingrables <td></td> <td></td>		
Indiagunality Jungality Indiagunality Indiagunality Jungality Indiagunality Image: Indiagunality Image: Indiagunality Image: Ima	2	
• DETECTION LIMIT • ★ 2.5 **** • DETECTION LIMIT • ★ 2.5 ***** • DETECTION LIMIT • ★ 2.5 ***** • DETECTION LIMIT • ★ 2.5 ****** • DETECTION LIMIT • ★ 2.5 ***********************************		
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CERTIFICATE OF ANALYTICAL PERSONNEL eal(s) Intact: Yes No Z. Seal(s) broken by: <u>mathematical</u> date: certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and hat the statements on this page accurately reflect the analytical results for this sample. Date(s) of analysis: <u>10 29/87</u> . Analyst's signature: <u>Many</u> C. Wellen	N D = NONE DETECTED AT OR ABOVE THE STATT R = DETECTED AT A LEVEL BELOW THE STAT	TED DETECTION LIMIT (NOT CONFIRMED)
eal(s) Intact: Yes $\[No \[A \]. Seal(s)$ broken by: <u>not sealed</u> date:	ABORATORY REMARKS:	
eal(s) Intact: Yes $\[No \[A \]. Seal(s)$ broken by: <u>not sealed</u> date:		
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eal(s) Intact: Yes $\[No \[A \]. Seal(s)$ broken by: <u>not sealed</u> date: date: date: date:		
certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and that the statements on this page accurately reflect the analytical results for this sample.		ALYTICAL PERSONNEL
	that the statements on this page accurately reflect the analytical	lling and analysis of this sample unless otherwise noted and I results for this sample.
certify that I have reviewed and concup with the analytical results for this sample and with the statements in this block.	· -	
	I certify that I have reviewed and concur with the analytical re Reviewers signature: <u>Reviewer</u> here	esults for this sample and with the statements in this block.

SCIENTIFIC LABORATORY 700 Camino de Salud NE	
Albuquerque, NM 87106 841-	2570 54 " ENVI 8/ 10/8/ -6
REPORT TO: David Boyer	S.L.D. No. OR- 1087 A4B
N.M. Oil Conservation Division	DATE REC. 6-11-87
P. O. Box 2088	
Santa Fe, N.M. 87504-2088	priority <u>3</u>
PHONE(S): 327-5812 U	SER CODE: 13 2 2 3 5
SUBMITTER: David Boyer	CODE: 2 6 0
SAMPLE COLLECTION CODE: (YYMMDDHHMMIII) 8-17 10161	01410140000000
SAMPLE TYPE: WATER X, SOIL , FOOD , OTHER:	CODE:
COUNTY: Mckihley ; CITY: Crownpoint	CODE:
LOCATION CODE: (Township-Range-Section-Tracts) 1210 1 N + 12	-1 -1 + 1 9 + 1 (10N06E24342)
ANALYSES REQUESTED: Please check the appropriate box(es) below to in	ndicate the type of analytical screens
required. Whenever possible list specific compounds suspected or required. PURGEABLE SCREENS	EXTRACTABLE SCREENS
	751) Aliphatic Hydrocarbons
	760) Organochlorine Pesticides
	755) Base/Neutral Extractables
	758) Herbicides, Chlorophenoxy acid 759) Herbicides, Triazines
	760) Organochlorine Pesticides
	761) Organophosphate Pesticides
	767) Polychlorinated Biphenyls (PCB's)
	764) Polynuclear Aromatic Hydrocarbons 762) SDWA Pesticides & Herbicides
NUC - 6 1981 1111	
Remarks:	
OIL CONSERVATION DIVISION	
PIELD DATA: OIL CONSENANTA FE	
pH=; Conductivity= 2450 umho/cm at -17 °C; Chlorine Resid	lual=mg/l
Dissolved Oxygen=mg/l; Alkalinity=mg/l; Flow Rate	/
Depth to waterft.; Depth of wellft.; Perforation Interval	ft.; Casing:
Sampling Location, Methods and Remarks (i.e. odors, etc.)	
Black Oil Co NMALCO Gurley #4, oil	in white stream.
I certify that the results in this block accurately reflect the results of my	field analyses, observations and 1 (
activities. (signature collector): <u>Wallow</u> Me	thod of Shipment to the Lab: hand
This form accompanies 2 Septum Vials, Glass Jugs, and/or	
Samples were preserved as follows:	
\mathbf{X} P-Ice Sample stored in an ice bath (Not Frozen).	
\square P-Na S O Sample Preserved with Sodium Thiosulfate to remove chi	orine residual.
CHAIN OF CUSTODY	
I certify that this sample was transferred from	
at (location) on	/: and that
the statements in this block are correct. Evidentiary Seals: Not Sealed	Seals Intact: Yes 🔲 No 🦳
Signatures	
For OCD Use: Date Owner Notified Phone	e or Letter? Initials

ANALYSES PERFOR

LAB. N : OR- 1087

THIS PAGE FOR LABORATORY RESULTS ONLY

This sample was tested using the analytical screening	ng method(s)	checked below:	
PURGEABLE SCREENS (753) Aliphatic Purgeables (1-3 Carbons) X (754) Aromatic & Halogenated Purgeables (755) Mass Spectrometer Purgeables (766) Trihalomethanes Other Specific Compounds or Classes		EXTRACTABLE SCREENS (751) Aliphatic Hydrocarbons (760) Organochlorine Pesticides (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbons (762) SDWA Pesticides & Herbicides	
COMPOUND(S) DETECTED	CONC.	COMPOUND(S) DETECTED	CONC.
COMPOUND(S) DELECTED	[PPB]		[PPB]
aramatia susaalles	N.D.		
halogenpled surgeables	N.D.	·	
			· · ·
· · · · · · · · · · · · · · · · · · ·			
* DETECTION LIMIT * 🗶	2548/2	+ DETECTION LIMIT +	
ABBREVIATIONS USED: N D = NONE DETECTED AT OR ABOVE ' T R = DETECTED AT A LEVEL BELOW ' [RESULTS IN BRACKETS] ARE UNCONFIN	THE STATED	DETECTION LIMIT (NOT CONFIRMED) OR WITH APPROXIMATE QUANTITATION	
LABORATORY REMARKS:			
		······································	
			· · · · · · · · · · · · · · · · · · ·
		TICAL PERSONNEL	
Seal(s) Intact: Yes No Seal(s) broken by:	_not a	date:	
I certify that I followed standard laboratory procedures on handling and analysis of this sample unless otherwise noted and			
that the statements on this page accurately reflect the analytical results for this sample.			
Date(s) of analysis: 10/29/87 Analyst's signature: Nary Celem			
I certify that I have reviewed and concur with the analytical results for this sample and with the statements in this block.			
Reviewers signature: K Meyerhen			

SCIENTIFIC LABORATORY DIVISION 700 Camino de Salue TRONMENT Albuquerque, NM 87106 841-2570 75 5040 REPORT TO: S.L.D. No. OR-Construction Div --DATE REC. Nox 2088 PRIORITY Fe 87504-208 Santa 827-5812 PHONE(S): Crown point ; COUNTY: SGn Jnan COLLECTION CITY: COLLECTION DATE/TIME CODE: (Year-Month-Day-Hour-Minute) | 87 7101810161 LOCATION CODE: (Township-Range-Section-Tracts) |2|O|N + |2|W + |O|9| + |1|(10N06E2)USER CODE: 181212: 3151 SUBMITTER: Bill Olion ____CODE: SAMPLE TYPE: WATER [X], SOIL [], FOOD [], OTHER:_____ This form accompanies _____ Septum Vials, _____ Glass Jugs, and/or ____ Samples were preserved as follows: See 16? AYB NP: No Preservation; Sample stored at room temperature. X P-Ice Sample stored in an ice bath (Not Frozen). P-Na = Solution Solution Preserved with Sodium Thiosulfate to remove chlorine residual.ANALYSES REQUESTED: Please check the appropriate box(es) below to indicate the type of analytical screens required. Whenever possible list specific compounds suspected or required. PURGEABLE SCREENS EXTRACTABLE SCREENS (753) Aliphatic Headspace (1-5 Carbons) (751) Aliphatic Hydrocarbons (754) Aromatic & Halogenated Purgeables (755) Base/Neutral Extractables (765) Mass Spectrometer Purgeables (758) Herbicides, Chlorophenoxy acid (766) Trihalomethanes (759) Herbicides, Triazines Other Specific Compounds or Classes (760) Organochlorine Pesticides (761) Organophosphate Pesticides Space (767) Polychlorinated Biphenyls teont 764) Polynuclear Aromatic Hydre] (762) SDWA Pesticides & Herbicide Remarks: FIELD DATA: pH=____; Conductivity=____umho/cm at _____C; Chlorine Residual=____mg/l Dissolved Oxygen=____mg/l; Alkalinity=____mg/l; Flow Rate_____/ Depth to water _____ft.; Depth of well_____ft.; Perforation Interval _____ft.; Casing: Sampling Location, Methods and Remarks (i.e. odors, etc.) Co. - IK-5 Windmill () î Black from puc line orunning to stack pourd 56 mpled I certify that the results in this block occurately reflect the results of my field analyses, observations and activities.(signature collector): CHAIN OF CUSTODY I certify that this sample was transferred from ______ to ______ _____ on ____/____ - ____:____ and t at (location) the statements in this block are correct. Evidentiary Seals: Not Sealed OR Seals Intact: Yes No Signatures

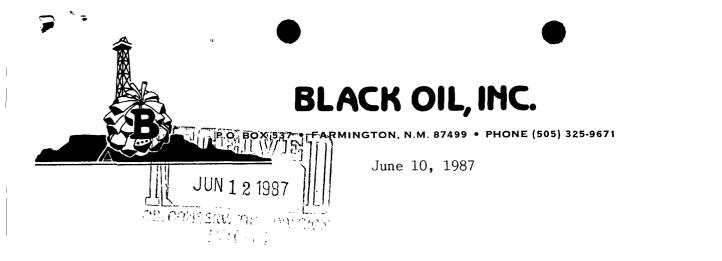
ANALYSES PERFO, MED	:	LAB. No .: OR- 1329/1344	
THIS PAG	E FOR LABORAT	ORY RESULTS ONLY	
This sample was tested using the analytical scree	ning method(s) che	cked below:	
PURCEABLE SCREENS (753) Aliphatic Headspace (1-5 Carbons) (754) Aromatic & Halogenated Purgeables (765) Mass Spectrometer Purgeables (766) Trihalomethanes Other Specific Compounds or Classes Other Specific Compounds or Classes		EXTRACTABLE SCREENS (751) Aliphatic Hydrocarbons (755) Base/Neutral Extractables (758) Herbicides, Chlorophenoxy acid (759) Herbicides, Triazines (760) Organochlorine Pesticides (761) Organophosphate Pesticides (767) Polychlorinated Biphenyls (PCB's) (764) Polynuclear Aromatic Hydrocarbon (762) SDWA Pesticides & Herbicides	8
COMPOUND(S) DETECTED	ALYTICAL conc.	COMPOUND(S) DETECTED	со NC. Іррв'
Alean space Matthewe MOL = Spon		aromatic surseables	N.D
MetHAME MOL = Som	m25	Kolonattal burger aller	N.D.
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Date(s) of analysis: <u>8/11/87</u> 9/14/87 I certify that I have reviewed and concur with the			nis block.
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David Boyen 859 B NUMBER UC - 21 REPORT TO: WNN DATE RECEIVED N. M. O.I Conservation Div. P.O. Box 2088 Old Santa Fe Trail <u>CO 9/25/8</u> DATE REPORTED Sante Fe, N.M. 87504-2088 SLD USER CODE NUMBER C223 Sec 19) Sec 16? ANTR Well Location Address T-20NR-12W Point of Collection IKWindmi (o_ Well Owner/User Black Oil Number of People Drinking Water from Well feeds cattle stock pond Collected $\frac{\mathcal{E}/6}{\mathcal{E}^{7}}$ 1147 OCD By <u>Bill Olson</u> Name Agency A. 5 Well Depth _____ pН Water Level Conductivity 2000 (Uncorrected) umho/cm 270 Taste? Odor? Color? Collectors Remarks . OC Temperature taken from PUC line running out Conductivity at 25°C umho/cm tank fad by windmill **PROJECT:** From <u>NF</u>, NA Sample: From , A-H₂SO₄ Sample: Date Analyzed ☐ Çalcium _____ mg/l_ ∃Nitrate-N⁺ mg/1 Nitrite-N 1.17 mg/1 Potassium \Box Magnesium ≤ 1 9/10 mg/1 mg/1Ammonia-N Sodium <u>508</u> mg/1 Chemical mg/1oxygen demand Bicarbonate 411 9/2 mg/1Chloride 43.8 9/1 mg/1911 Sulfate 570 mg/1Total Solids 1318 From ____, A-HNO3 Sample: 9/17 mg/1 IX Colon Askince ICAP Scan] Metals by AA (Specify) pH = 9.15, $[CO_3^2] = 38 mg/l$ sample(s) marked as follows to indicate field treatment: This form accompanies Whole sample (no filtration) Filtered in field with 0.45u membrane filter A-H₂SO₄: Acidified with 2 ml conc H₂SO₄/l sum 1:574. Acidified with 5ml conc HNO₃/1 A-HNO3: No acid added



Mr. Dave Boyer Oil and Gas Commission P.O. Box 2088 Santa Fe, NM 87504

Dear Mr. Boyer:

In accordance with our conversation last week, I have procured and am enclosing the surface lease owner's letter giving us permission to give him stock tank water from our production zone in the Nose Rock field. Additionally, he has accepted full responsibility and liability for the water and its affects on his cattle.

I appreciate your field workers picking up samples of the water and we anxiously await the determination of the water quality. Please keep us advised as soon as you know the results. Thanks for your help.

Sincere Bruce A.

BAB/ta

Enc.

June 1, 1987

Bruce A. Black Black Oil, Inc. P.O. Box 537 Farmington, NM 87499

Dear Mr. Black:

I am the surface grazing lease owner in the area where your new Nose Rock oil field is being drilled. You have told us that there is some fresh water being produced with the oil in this field.

Since we are in need of all the water we can find, we would greatly appreciate your making arrangements to provide to us any water that you produce for our surface stock tanks. We presently have a stock tank in section 16. This is a State owned parcel and we are using the surface under our grazing lease.

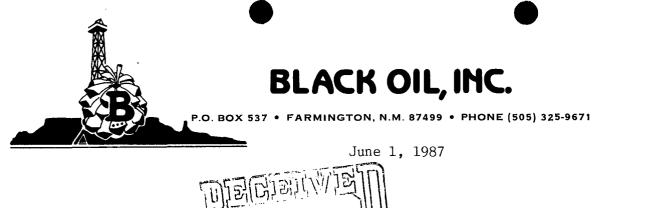
We would also greatly appreciate additional stock tank development or enlargement for the section if the water can be made available. I, of course, will accept full responsibility and liability for the water and its affect on our cattle.

Thank you for your help in arranging to help us with our water needs and in helping provide us with this badly needed resource.

Sincerely,

Robert Becenti

Box 5 Crownpoint, NM 87313



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Mr. Dave Boyer Oil and Gas Commission P.O. Box 2088 Santa Fe, NM 87504

Dear Mr. Boyer:

In accordance with our conversation on Monday, June 1st, I am sending you a copy of our first chemical analysis on the produced water from the Nose Rock field.

I want to thank you for your help in guiding us on how we can utilize these waters for the Indians who have the surface grazing lease. They are desperate for water in this part of the country and it will, of course, help us in producing our oil field more efficiently.

I will be forwarding to you Mr. Becenti's (the grazing lessee) written request for the water in the near future.

Sincerely,

Bruce A. Black

BAB/ta

Enc.



Home Office 707 N. Leech, P.O. Box 1499 / Hobbs, NM 88240 / Ph. 505/393-7751, TWX 910/986-0010 September 8, 1986

Black Oil Box 537 Farmington, NM 87401

Attention: Bruce Black

Dear Mr. Black:

Enclosed please find our water analyses reports on the samples from the Gurley #1 and #4 submitted to our laboratory on August 29, 1986.

If you have any questions or require further information, please contact us.

Sincerely, Sh'ar Iright Laboratory Technician

SW/ce

cc: Mike Jones Harold McCullough Doyle Roberts Skeet Raybon

UNICHEM INTERNATIONAL INC.

UNICHEM INTERNATIONAL

707 NORTH LEECH P.O.BOX 1499

HOBBS, NEW MEXICO 88240

COMPANY : BLACK OIL DATE : 9-8-86 FIELD,LEASE&WELL : GURLEY #1 SAMPLING POINT: STOCK TANK BOTTOM DATE SAMPLED : 8-25-86

SPECIFIC GRAVITY = 1.001 TOTAL DISSOLVED SOLIDS = 3479 RESISTIVITY AT 74F IS 3.25 OHMS PH = 8.62

		ME/L	MG/L	
CATIONS				
CALCIUM MAGNESIUM SODIUM	(CA)+2 (MG)+2 (NA),CALC.	.5 1.6 53.8	10.0 19.8 1237.	
ANIONS				
BICARBONATE CARBONATE HYDROXIDE SULFATE CHLORIDES	(HCO3)-1 (CO3)-2 (OH)-1 (SO4)-2 (CL)-1	8.6 1.4 0 .95 45	524. 42.0 0 45.5 1600	
DISSOLVED GASES	:			
CARBON DIOXIDE HYDROGEN SULFIDE OXYGEN	(CO2) (H2S) (O2)	NOT RUN NOT RUN NOT RUN		
IRÖN(TOTAL) BARIUM MANGANESE	(FE) (BA)+2 (MN)	0 NOT RUN	3.7 .3	
IONIC STRENGTH (MOLAL) =.059				

SCALING INDEX	TEMP		
	30C _	90C	
	86F	194F	
CARBONATE INDEX	1.05	2.93	
CALCIUM CARBONATE SCALING	LIKELY	LIKELY	
CALCIUM SULFATE INDEX	-19.	-19.	
CALCIUM SULFATE SCALING	UNLIKELY	UNLIKELY	



707 NORTH LEECH

P.O.BOX 1499

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HOBBS, NEW MEXICO 88240

COMPANY : BLACK OIL DATE : 9-8-86 FIELD, LEASE&WELL - GURLEY #4-SAMPLING POINT: STOCK TANK BOTTOM DATE SAMPLED : 8-25-86

SPECIFIC GRAVITY = 1.001 TOTAL DISSOLVED SOLIDS = 4366 RESISTIVITY AT 74F IS 2.04 OHMS PH = 7.28

	· .	ME/L	MG/L		
CATIONS					
CALCIUM MAGNESIUM SODIUM	(CA)+2 (MG)+2 (NA),CALC.	2 30 42.0	40.0 364. 966.		
ANIONS	•		- 4		
BICARBONATE CARBONATE HYDROXIDE SULFATE CHLORIDES	(HCO3)-1 (CO3)-2 (OH)-1 (SO4)-2 (CL)-1	10 0 0 8.0 56	610. 0 385 2000		
DISSOLVED GASES	,				
CARBON DIOXIDE HYDROGEN SULFIDE OXYGEN	(CO2) (H2S) (O2)	NOT RUN NOT RUN NOT RUN	•		
IRON(TOTAL) BARIUM MANGANESE	(FE) (BA)+2 (MN)	0 NOT RUN	120. .24		
IONIC STRENGTH (MOLAL) =.095					

SCALING INDEX	TEMP	
	30C	90C
	86F	194F 🗍
CARBONATE INDEX	05	1.83
CALCIUM CARBONATE SCALING	UNLIKELY	LIKELY

CALCIUM SULFATE	INDEX	-23.	-15.
CALCIUM SULFATE	SCALING	UNLIKELY	UNLIKELY