<u>District I</u> 1625 N French Dr , Hobbs, NM 88240 District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

OPERATOR Initial Report Final Report Initial Report Final Report Initial Report	2	,	/	Rele	ease Notific	ation	and Co	rrective A	ction					
Name of Company Dugan Production Corp. Contact Kirt Fagrelius Address P.O. Box 420 Telephone No. 505-325-1821 Facility Name Champ #7 (Production) Facility Type Permanent Pit	50 - 04	5-28	3241				OPERA?	ГOR	☐ Initia	al Report	X Final	Report		
Surface Owner Federal Mineral Owner Federal Lease No NM-42059	Name of Co	mpany I	Dugan P	roduc	tion Corp	. (Contact	Kurt F		· · · · · · · · · · · · · · · · · · ·				
Lose No. NM-42059 Location of Release														
LOCATION OF RELEASE Unit Letter Section Township Range Feet from the Nonth/South Line Feet from the Sat/West Line County Latitude 36.25383 N Longitude 107.92136 W NATURE OF RELEASE Type of Release Spill Cleanup and pit closure Volume of Release Unknown Source of Release Spill Cleanup and pit closure Volume of Release Unknown Source of Release Spill Cleanup and pit closure Volume of Release Unknown Source of Release Spill Cleanup and pit closure Volume of Release Unknown Was mediate Notice Given? Yes No Not Required By Whom? Date and Hour of Occurrance Date and Hour of Discovery Date and Hour of Discovery Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse Was a Watercourse was Impacted, Describe Fully * Describe Cause of Problem and Remedial Action Taken * During permanent pit closure a chloride impact was discovered. A five-point composite sample tested 864-mg/kg chlorides which exceeds the threshold limits as per subsection B of 19.15.17.13 (B) (1) (b). See attached sample results. Describe Area Affected and Cleanup Action Taken *Contamination was addressed under the "spill rule", 19.15, 30. 60.0-cubic yards of contaminated soil was hauled from site of release to Envirotech Landfarm. C-144 ranking=10. The chloride release does not pose a threat to contamination of groundwater. See attachment to "Final C-141" and invoice #12651. Hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD acceptione of a C-141 report does not release to Environce of labelity should their operations have failed to adequately investigate and remediate contamination happen a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptione of a C-141 report does not releve the operator of responsibility for compliance with any other federal state, or local laws and/or regulations OIL CONSERV	Facility Name Champ #7 (Production) Facility Type Permanent Pit										····			
Latitude Section Township Range Feet from the South 1830 West San Juan	Surface Owner Federal Mineral Owner Federal Lease No NM-42059													
Latitude 36.25383 NLongitude 107.92136 W NATURE OF RELEASE Type of Release Spill Cleanup and pit closure Source of Release Below grade permanent pit release December 1 release December 1 release December 1 Date and Hour of Discovery Dictiown Was Immediate Notice Given? Ves No Not Required By Whom? Was a Watercourse Reached? Ves No Date and Hour If YES, To Whom? During permanent pit closure a chloride impact was discovered. A five-point composite sample tested 864-mg/kg chlorides which exceeds the threshold limits as per subsection B of 19.15.17.13 (B) (1) (b). See attached sample results. Describe Area Affected and Cleanup Action Taken *Contamination was addressed under the "spill rule", 19.15.30. 60.0-cubic yards of contaminated soil was hauled from site of release to Envirotech Landfarm. C-144 ranking-10. The chloride release does not pose a threat to contamination of groundwater. See attachment to "Final C-141" and invoice #22651. Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD occupies of a C-141 report does not releve the operator of liability should their operators have failed to adequately investigate and remediate contamination that pose a threat to groundwater, when the contemination of the environment in addition. NMOCD acceptance of a C-141 report does not releve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations Approved by District Supervisor				_		TION	OF REI	LEASE						
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Signature / Land Signat														
Printed Name Kurt Fagrelius Approved by District Supervisor Title VP Exploration E-mail Address kfagrelius@duganproduction.com Day November 11, 2010 Phys. 505-335-1831						· 		-						
Printed Name Kurt Fagrelius Approved by District Supervisor Title VP Exploration Approval Date //30/20 VExpiration Date E-mail Address kfagrelius@duganproduction.com Conditions of Approval Attached Printed Name Kurt Fagrelius Approved by District Supervisor Approval Date //30/20 VExpiration Date		11 +	1,					OIL CON:	<u>SERVATION</u>	DIVISI	$\frac{ON}{A}$			
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E-mail Address kfagrelius@duganproduction.com Conditions of Approval Attached			ploration	n			Approval Dat	e 11/30/20	Expiration	V V I − Date	()			
n November 11, 2010 ph 505-325-1821		ess kfagr	celius@dı	ıgannro	oduction.com				11 11-19-11-11					
Attach Additional Sheets If Necessary 2512	November 11, 2010 Ph. 505-325-1831													
	Date				203 323 10	<u> </u>	TK	11334425	512	1				



PHONE (575) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

December 31, 2009

Fred Cornish
Dugan Production Corporation
4100 Piedras Street
Farmington, NM 87401

Re: Earth Pit Closure

Enclosed are the results of analyses for sample number H18942, received by the laboratory on 12/23/09 at 11:15 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes

Total Patrolaum Hadroneck and Total Xylenes

Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethancs (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 6 (includes Chain of Custody)

Sincerely,

Celcy D. Keene Laboratory Director



PHONE (575) 393-2326 . 101 E MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR DUGAN PRODUCTION CORP ATTN: FRED CORNISH 4100 PIEDRAS ST FARMINGTON, NM 87401 FAX TO (505) 325-4873

Receiving Date: 12/23/09
Reporting Date: 12/31/09

Project Number: NOT GIVEN

Project Name: EARTH PIT CLOSURE

Project Location: NOT GIVEN

Sampling Date: 12/21/09

Sample Type. SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: CK

Analyzed By: ZL

LÁB NO SAMPLE ID BENZENE TOLUENE BENZENE XYLENES (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS D	DATE:	12/30/09	12/30/09	12/30/09	12/30/09
H18942-1	ST. MORITZ #1	<0.050	<0.050	< 0.050	<0,300
H18942-2	AUGUST #1 SEP.	<0.050	<0.050	<0.050	<0.300
H18942-3	GOLD MEDAL #1	<0.050	<0.050	<0.050	<0.300
H18942-4	SILVER MEDAL #1 SEP.	<0.050	<0.050	<0.050	<0,300
H18942-5	GOLD MEDAL #2 SEP.	<0.050	<0.050	<0.050	<0.300
H18942-6	CHAMP #1 T B. PROD, T,	<0.050	<0.050	0.223	< 0.300
H18942-7	CHAMP #1 T.B. SEP.	<0.050	<0.050	<0.050	<0.300
H18942-8	CHAMP #7 T.B PROD T	<0.050	<0.050	<0.050	<0.300
H18942-9	CHAMP #7 T.B. SEP	<0,050	< 0.050	<0.050	<0.300
H18942-10	MARY LOU T. BON #1	<0.050	<0.050	<0.050	< 0.300
H18942-11	CALGARY #88 T.B., P.T.	<0.050	<0.050	<0.050	<0.300
H18942-12	CALGARY #88 T.B. SEP.	<0.050	<0.050	<0.050	<0.300
H18942-13	GOLD MEDAL #5 T.B., P.T.	< 0.050	<0.050	<0.050	< 0.300
H18942-14	GOLD MEDAL #5 T.B., SEP.	<0.050	<0.050	< 0.050	< 0.300
H18942-15	FLO JO #1 PROD. T.	< 0.050	<0.050	<0.050	<0,300
Quality Cont	rol	0.049	0.047	0.048	0.130
True Value (ac ·	0.050	0.050	0.050	0.150
% Recovery	The state of the s	98,0	94.0	96,0	86.7
Relative Per	cent Difference	<1.0	<1.0	<1.0	≤1.0

METHODS: BTEX - SW-846 8021B

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight.

H18942 BTEX DUGAN

Date /2/31/09

PLEASE NOTE Liability and Lamages. Cardinate liability and client conductive immony for any daint bits of whether based in contract or for whether to make the temperature of the amount of page whereas is shall be about durings made in writing nod proof and by Cardinat writing to the page and any other page whereas is shall be about the machine to the page and by Cardinat writing the page and the page and



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR DUGAN PRODUCTION CORP. ATTN: FRED CORNISH 4100 PIEDRAS ST FARMINGTON, NM 87401 FAX TO (505) 325-4873

Receiving Date: 12/23/09

Reporting Date 12/30/09 Project Number: NOT GIVEN

Project Name: EARTH PIT CLOSURE

Project Location NOT GIVEN

Sampling Date 12/21/09

Sample Type. SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By CK

Analyzed By AB

418.1 TOTAL TPH

LAB NUMBER	R SAMPLE ID	(mg/kg)
ANALYSIS DA	ATE	12/28/09
H18942-1	ST MORITZ #1	<100
H18942-2	AUGUST #1 SEP.	<100
H18942-3	GOLD MEDAL #1	<100
H18942-4	SILVER MEDAL #1 SEP.	<100
H18942-5	GOLD MEDAL #2 SEP.	<100
H18942-6	CHAMP #1 T.B. PROD. T	8,800
H18942-7	CHAMP #1 T.B. SEP.	<100
H18942-8	CHAMP #7 TB PROD. T	<100
H18942-9	CHAMP #7 T.B. SEP	<100
H18942-10	MARY LOU T. BON #1	<100
H18942-11	CALGARY #88 T.B., P.T.	141
H18942-12	CALGARY #88 T.B. SEP.	<100
H18942-13	GOLD MEDAL #5 T.B., P T.	<100
H18942-14	GOLD MEDAL #5 T.B., SEP	713
H18942-15	FLO JO #1 PROD. T.	900
Quality Contr	306	
True Value Q	300	
% Recovery	102	
Relative Perc	31	

METHODS: EPA 418.1

Not accredited for TPH 418.1 Reported on wet weight

Officialist

H18942 418 T DUGAN

12/31/09 Date

REASE NOTE Liability and Damagos. Cordinate liability and client election or composition which expends whether boshing or composition control to indicate a more product of the emount public, other to some distinct program of an agrigance and shirt cause whatevers can be greatly as a funder withing and more by Cordinal Winningary (30) can after controlled of the expenditure of a controlled by a some for the demand or consequential administration becomes interruptione, on duser of for other indicates of sources because of sources are sufficiently on the samples of the controlled of the participance of sources because of a notion such controlled on the participance of sources are sufficiently on the samples decreased upon any or the above stated response on the control position above stated response on the samples decreased on the controlled on the participance of sources are sufficiently without the samples decreased upon any or the above stated response on the controlled on the samples decreased on the controlled on the samples decreased on the controlled on the samples decreased on the controlled on the control



PHONE (575) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR DUGAN PRODUCTION ATTN: FRED CORNISH 4100 PIEDRAS STREET FARMINGTON, NM 87401 FAX TO (505) 325-4873

Receiving Date: 12/23/09 Reporting Date: 12/30/09

Project Number: NOT GIVEN

Project Name: EARTH PIT CLOSURE

Project Location: NOT GIVEN

Analysis Date: 12/30/09 Sampling Date: 12/21/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 3.5°C

Sample Received By: CK

Analyzed By: HM

		CI
LAB NUMBER	SAMPLE ID	(mg/kg)
H18942-1	ST MORITZ#1	8,200
H18942-2	AUGUST #1 SEP.	6,800
H18942-3	GOLD MEDAL #1	1,340
H18942-4	SILVER MEDAL #1 SEP.	992
H18942-5	GOLD MEDAL #2 SEP	448
H18942-6	CHAMP #1 T B PROD T.	752
H18942-7	CHAMP #1 TB SEP.	1,120
1-118942-8	CHAMP #7 TB PRDD T	864
H18942-9	CHAMP #7 TB SEP	608
H18942-10	MARY LOU T BON #1	880
H18942-11	CALGARY #88 T.B., P.T.	1,760
H18942-12	CALGARY #88 T.B. SEP.	352
H18942-13	GOLD MEDAL #5 T.B., P.T.	2,240
H18942-14	GOLD MEDAL, #5 T.B., SEP.	1,550
H18942-15	FLOJO #1 PROD. T	1,100
Quality Control		500
True Value QC		500
% Recovery	* * * * * * * * * * * * * * * * * * *	100
Relative Percent Diffe	rence	< 0.1

METHOD. Standard Methods

4500-CIB

Note Analyses performed on 1:4 w;v aqueous extracts. Not accredited for Chloride.

Chemist

Dat€

H18942 Dugan

Chent Degan PRODUCTION

Connect FRED CORNISTA

Address

Phone Number 505-330-0729

FAN Number 505-325-4873

CHAIN OF CUSTODY RECORD

Page 1 of 2

. 4	O.	:	ш	c

- 1) Ensure proper container packaging
- 2) Strip samples promptly following collection
- 3) Designate Sample Reject Disposition

PO#

Project Name ERATH

Table 1 - Matrix Type

I = Surface Water, 2 = Ground Water

3 = Soil/Sediment, 4 = Rinsate, 5 = Oil

6 =Waste, 7 =Other (Specyfy)

OSUTE Samplers Signature

GAL 106 #

Analyses Required Lat Name Green Analytical Laboratories (970) 247-4220 FAX (970) 247-4227 75 Suttle Sueet, Durango, CO 81303 Adaless Collection Miscellaneous Preservative(s) rights Unpreserved (Ice Only) Sample Piltered 2 Y/N Benzene of Containers Other (Specify) Sample ID Comments Date Tune Matux Type From Table I Collected by H2SO⁴ NAOH HN03 9.35A M Moitz# 12-21-09 12-21-09 10:15A 12-21-09 10:35 AT (2-21-09 10:50 A.M 12-21-09 11.10 AW P417.13 Prod T. 12-21-09 11.30 AW NamerITB SCA 12-21-09 17.40 AM Numr#77B Food T. 12:00 PM 12-21-09 namof171B SPD 12-21-09 12:10 Pm 12-21-09 .05 P.M 10 ME ALOUT BON AFT Date 12-21-09 Relinguished by 'Sample Reject [] Return [] Dispose [] Store (30 Days)

Analytical Laboratories

CHAIN OF CUSTODY RECORD

Page	2	of	2
1020		\sim	

Chem Dugan PRODUCTION	
Contact: FRED CORNISH	_
Address:	_
	_
Phone Number. 505-330-0929	_
FAY Number 501 375 4873	

NOTES.

- 1) Ensure proper container packaging.
- 2) Slup samples promptly following collection.
- 3) Designate Sample Reject Disposition.

PO#

Project Name

Table 1	- Matrix Type
---------	---------------

1 = Surface Water. 2 = Ground Water

3 = Soil/Sedument, 4 = Rinsate, 5 = Oil

6 = Waste, 7 = Other (Specify)

FOR GAL USE ONCE
GAL JOB #

Samplers Signature: fined Winish

Lab Name: Green Analytical Laboratories (970) 247-4220 FAX (970) 247-4227								Aı	ıalys	es Re	quire	eđ													
Address: 75 Suttle	Street, Duran	go, CO 813	303																			ì			
	Colle	ction		Miscell	aneous	5		Рте	serva	ative	(s)		}	<u>у</u>				1				ļ	-		ļ
Sample ID H13942 —	Date	Time	Collected by: (Init.)	Matrix Typc From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCI.	H2SO4	NAOH	Other (Specify)	Buzene	FPH BTE	418.1	Chlorides							Сотп	ents	بدم رسد فرون المتاليف الموارد المالية والمراجعة والمراجع
11 1 Calonry \$887.BP.T	12-21-09	12:25PM		3									7	/	1	1									
12 20 algo (4485TB, Sep.		12,35PM	-										1	/	7										
13 3. Add Medal + 57897	12-21-09	1:25 Pm											/	1	1	1									
14 1 Dela Meda 1 25 T.O. St	717-21-09	1:35 P.M											1	_	1	1									
5	4												3		3							I 			
150 Flow # 1 Prod. T	12-21-09												1			-						<u> </u>			
7																									
১ .																									
9										7															
10.	-								j	71	7)						`				
Relumpushed by	rush	}```		Date:	21-8	19	Time	7.14	PIN	ecei	种儿	W.	u	7	1.	20	4				Days	12/10	9 7	10/4	
Relinquisted by dF	<u> </u>			Date:			Time	:		Recei	ved b	C	0		7	·~	_			1	Date:	1236	07 Tu		

^{*} Sample Reject. [] Return [] Dispose [] Store (30 Days)

Envirotech 5796 US Hwy 64 Farmington, NM 87401 Phone 505-632-0615 Fax 505-632-1865



То

Dugan Production Corp PO Box 420

Farmington, NM 87401

<u>Invoice</u>

Invoice Number

Job

DATE

22651

06094-0048

January 22,2009

Champ #7- accept exempt contaminated soil

and oil from production stream

Ordered by Fred Cornish

Project Manager

April Pohl

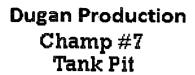
<u>Employee</u>	Staff Type	<u>Description</u>	<u>Units</u>		<u>Rate</u>	<u>Total</u>
01/15/2009						
Landfarm						
Paint Filter Test		BOL# 32374	2 00	ea	10 00	20 00
r dint r itter rest		BOL# 32374	2 00	ea	15 00	30 00
Chloride Analysi	s-Water					
Contaminated S	od Dagowal	BOL# 32374	20 00	су	18 00	360 00
Contaminated S	on Receival	BOL# 32378	2 00	ea	10 00	20 00
Paint Filter Test						
Chlanda Analiss	- 18/	BOL# 32378	2 00	ea	15 00	30 00
Chloride Analysi	s-vvater	BOL# 32378	20.00	су	∿18 00	360 00
Contaminated S	oil Receival			-,		
		Landfarm Total:	48.00			820.00
		01/15/2009 Total:	48.00			820.00
01/19/2009						
Landfarm						
		BOL# 32401	2 00	ea	10 00	20 00
Paint Filter Test						
Chloride Analysis	: Motor	BOL# 32401	2 00	ea	15 00	30 00
Chloride Analysis	s-vvaler	BOL# 32401	20 00	су	18 00	360 00
Contaminated So	oil Receival			,		5
		Landfarm Total:	24.00			410.00
		√ ∞ √ 01/19/2009 Total:	24.00			410.00

Invoice # 22651 Job # 06094-0048

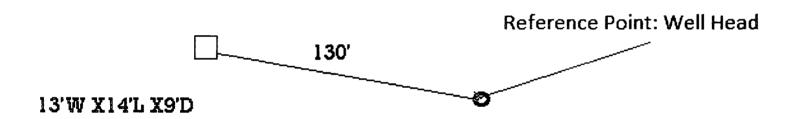
Employee	Staff Type	<u>Description</u>	<u>Units</u>	Rate	<u>Total</u>
		Invoice Sub-total			1,230 00
		Sales Tax			76 11
Amount due	this Invoice				\$1,306.11

All invoices are due upon receipt. A late charge of 1.5% will be added to any unpaid balance after 30 days.

This may not be the final bill - if charges are received after this invoice has been mailed, you will receive a separate invoice for those costs.







From Reference Point Go N **80** degrees N.W. For a Distance of **130**' to Center of Pit.

Permanent pit: Champ #7 TB (Production Tank)

API number: 30-045-28241

Results of sample analysis on the five-point composite sample collected on the subject permanent pit exceeded limits permissible under the "pit rule" (19.15.17.13.C) (see attached C-141 with analytic results).

The Environmental Bureau of the Oil Conservation Division (OCD) in Santa Fe is hereby provided a C-144 (closure report) and an "initial" C-141 (release notification) with analytic results of soil testing. The closure date on the C-144 (box 21) shows the date that the soil analysis did not meet pit rule standards. Also, this letter hereby provides notice that the subject permanent pit will be closed according to the requirements of the "spill rule" (19.15.30).

The OCD district office in Aztec is hereby provided a copy of the "initial report" C-141 (release notification) with analytic results of soil testing and also notice that the subject permanent pit will be closed according to the requirements of the "spill rule" (19.15.30). Assessment, clean-up and remediation of the reported spill will be done in accordance with the spill rule under the authority of the Aztec District office of the OCD. The "final report" C-141 with photo documentation of site reclamation will be sent to the Aztec District office of the OCD.

Following clean-up of the reported release and determination that the release is not a threat to groundwater contamination, the permanent pit will be closed in accordance with the approved C-144 (closure plan) and will include the following:

- 1. Stockpiled sub-surface soil will be used to backfill pit and re-contour (to a final or intermediate cover that blends with the surrounding topography). A minimum of fourfeet of compacted, non-waste containing, earthen material will be used as backfill.
- 2. Stockpiled surface soil will be used as a cover over the backfilled pit and disturbed area no longer needed for production operations. The soil cover will include either the background thickness of top soil or one-foot of suitable material to establish vegetation at the site whichever is greater. The soil cover will be constructed to the sites existing grade and prevent water collection or ponding and erosion of the cover material.
- 3. Disturbed areas will be seeded the first growing season after the pit is closed. Seeding will be accomplished by drilling on contour whenever possible or by other division approved methods. BLM stipulated seed mixes will be used on all Federal lands and OCD approved seed mixes (administratively approved if required) will be used on all State or private lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two consecutive growing seasons. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. Seeding or planting will be continued until successful vegetative growth occurs.
- 4. The Aztec District office of the OCD will be notified after each re-seeding operation and after successful re-vegetation has been achieved.

Kurt Fagrelius VP – Exploration, Dugan Production Corp. Farmington, New Mexico 87401 505-325-1821 (O), 505-320-8248 (C) kfagrelius@duganproduction.com

Lease Name:	Champ #	7 (Production)				
API No 30-04	15-28241					
Site Specific I	nfromation	on .				
Depth to	95-ft	Distance to Surface	1500-ft	Wellhead Protection Area	> 1000-ft	
Groundwater	177. 4	Water Body		Distance from Water Source		
Total Ranking	Score					
Depth to	Ranking	Distance to Surface	Ranking	Wellhead Protection Area	Ranking Score	Total Ranking
Groundwater	Score	Water Body	Score	Distance from Water Source	Yes =20, No=0	Score
<50-feet	20	<200-feet	20	<1000-feet from water source	0	
50 - 99	10	200 - 1000	10	<200-feet domestic water	0	
>100-feet	0	>1000-feet	0			10
Total F			Ranking	Score	Sample	
		>19	10 - 19	0 - 9	Analysis	
Benzene (mg/kg) 10		10	10	<0.050		
BTEX (mg/kg)		50	50	50	<0.300	
TPH (mg/kg)		100	1000	5000	<100	
Chorides (mg/l	(g)	N.A	N.A.	N.A	864	
Note: Analytic	l al method	s used for Benzene S	l W-846, B	 TEX SW-846, TPH 418 1 and 0	Chlorides 4500-C	1-B

*

~

Champ #7 Hydrogeologic Report

The Champ #7 is located on Federal land on the Chaco Slope area in San Juan County, New Mexico. The region is characterized as a high arid mesa broken by numerous, deep cutting arroyos. Mesa tops are dominated by tall stands of sage with sparse grass in the arroyos and low-lying areas.

A records search of the NM Office of the State Engineer –iWATERS database was conducted on a three square mile area centered on the Champ #7 location (Exhibit 2). One water well was located 9,000 feet to the northeast (total depth 373 feet, no other available information). The results of the search are shown on Exhibit 1.

The main source of stock water in the region is encountered in valley-fill deposits in existing arroyos at shallow depths of approximately 15-50 feet below the surface and stock tanks constructed on surface shale layers at the confluence and upper reaches of arroyos. The below grade tank is not located in an arroyo; the closest arroyo is 1,500 feet to the southeast (Exhibit 2).

The Nacimiento extends from the surface down to a depth of approximately 85 feet and is comprised of mudstone / shale with a trace of siltstone. The Nacimiento is not a good source of water in the area; the section does not have rocks capable of storing groundwater and has been breeched to a depth of 80 feet by an arroyo 1/4-mile to the southeast.

The Ojo Alamo Sandstone extends from 85-165 feet and is comprised of a coarse grained sandstone inter-bedded with lenses of mudstone and occasional conglomeratic sandstone. If the Ojo Alamo contains groundwater, it would be in the lower sands below a depth of about 160 feet.

The Kirtland Shale interval is from 165-600 feet in depth and is comprised entirely of mudstone / shale with a few thin siltstone layers inter-bedded with shale from 290-370 feet. These thin stringers of siltstone might contain very minimal amounts of ground water.

The Fruitland Formation and Pictured Cliffs Sandstone from 910-1020 feet contain larger amounts of very poor quality ground water. Analysis of this water is available upon request from Dugan Production Corp.

Excessive drilling depth, unpredictable variations in reservoir quality and water quality have discouraged the drilling of water wells in the in the subject area.

Based on electric open hole logs, the iWATERS database and literature reviewed, very minor amounts of poor quality ground water might be found at a depth below 95 feet from the lowermost Ojo Alamo Sandstone. A deeper and larger source of poor quality groundwater occurs in the Fruitland Coals and Pictured Cliffs Sandstone from 910-1020 feet.

This Hydrogeologic Report was prepared by Mr. Kurt Fagrelius, Geologist for Dugan Production. Mr. Fagrelius has been employed as a geologist for Dugan for the past 31-years, received a MS in Geology from NMIMT in Socorro, NM and a BS in Geology from FLC in Durango, CO.

- Stone, W.J., Lyford, F.P., Frenzel, P.F., Mizell, N.H., and Padgett, E.T., 1983, Hydrogeology and water resources of San Juan Basin, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrologic Report 6, 70 p.
- Brown, D.R., and Stone, W.J., 1979, Hydrogeology of Aztec quadrangle, San Juan County, New Mexico: New Mexico Bureau of Mines and Mineral Resources Hydrogeologic Sheet 1.
- Levings, G.W., Craigg, S.D., Dam, W.L. Kernodle, J.M., and Thorn, C.R., 1990, Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S. Geological Survey, 'Atlas HA-720-A, Sheet 1 and 2.
- Thorn, C.R., Levings, G.W., Craigg, S.D., Dam, W.L., and Kernodle, J.M., 1990, Hydrogeology of the Ojo Alamo Sandstone in the San Juan Structural Basin, New Mexico, Colorado, Arizona and Utah: U.S. Geological Survey, Atlas HA-720-B, Sheet 1 and 2.

DUGAN PRODUCTION CORP. CHAMP # 7 TB NM-42059 API # 30-045-28241 NE/4, SW/4, UNIT K SEC. 5, T23N, R10W LAT. 36°15'14" LONG. 107°55'17" SAN JUAN COUNTY, NM **FOR EMERGENCY CALL (505)325-1823**

Champ #7 Prodution Tank Pit Close 11-16-10

From: Kurt Fagrelius

Sent: Thursday, November 11, 2010 3 49 PM

To: Kurt Fagrelius, Powell, Brandon, EMNRD, Evan Rowland (erowland@slo state nm us), dave_mankiewicz@nm blm gov,

Mark_Kelly@nm blm gov, lucas_vargo@blm gov

Cc: Johnny Lane, Mike Sandoval

Subject: RE 72-Hour Notice to Close Permanent Pits

Attachments: 72-Hour Notice to Close 11-16-2010 xls

I am sorry everyone, I failed to include the attachment on the previous mailing

Kurt Fagrelius Dugan Production Corp 709 East Murray Drive Farmington, New Mexico 87401 505-325-1821 (O), 505-320-8248 (C) kfagrelius@duganproduction com

From: Kurt Fagrelius

Sent: Thursday, November 11, 2010 11:59 AM

To: 'Powell, Brandon, EMNRD'; Evan Rowland (erowland@slo.state.nm.us); 'dave_mankiewicz@nm.blm.gov'; 'Mark_Kelly@nm.blm.gov'; 'lucas_vargo@blm.gov'

Cc: Johnny Lane; Mike Sandoval

Subject: 72-Hour Notice to Close Permanent Pits

Mr Brandon Powell, Mr Evan Rowland Mr Dave Mankiewicz, Mr Mark Kelly and Mr Lucas Vargo,

Dugan Production Corp is hereby giving notice that Dugan will be closing the permanent pits on the following well pads

- 1) Champ #7 (Separator)
- 2) Champ #7 (Production)
- 3) Champ #9
- 4) Flo Jo #2 (Separator)
- 5) Flo Jo #4
- 6) Hoss #1 (Separator)
- 7) LH #174 (Separator)
- 8) LH #174 (Production)
- 9) Luna #3

Site specific and soil analysis information for each permanent pit is included in the enclosed attachment

Those highlighted in blue (#'s 1 - 6) are located on Federal Surface, and those highlighted in red (#'s 7-9) are located on NM State surface

Permanent pits will be closed starting Tuesday November 16, 2010 thru Thursday November 18, 2010

If you have any questions or require additional information, please contact me

Sincerely,

Kurt Fagrelius
Dugan Production Corp
709 East Murray Drive
Farmington, New Mexico 87401
505-325-1821 (O), 505-320-8248 (C)
kfagrelius@duganproduction.com

Dugan Production Corp. Permanent Pits to be Closed on November18, 2010

Lease Name	Champ #7 Separator	Champ #7 Production	Champ #9	Flo Jo #2 Separator	Flo Jo #4
API Number	30-045-28241	30-045-28241	30-045-29287	30-045-27441	30-045-28645
Surface Owner - Notice Sent	Federal	Federal	Federal	Federal	Federal
Location - UL, Sec , Twp, Rge	K-5-23N-10W	K-5-23N-10W	O-1-23N-10W	C-1-23N-11W	I-1-23N-11W
Latitude	36.25383 N	36.25383 N	36.25096 N	36.26100 N	36.25434 N
Longitude	107.92136 W	107 92136 W	107.84501 W	107.95636 W	107 94865 W
C-144 Ranking Score	10	10	10	0	10
Benzene (mg/kg)	<0 050	<0.050	<0.050	<0.050	<0.050
Betex (mg/kg)	<0.300	<0 300	0.473	<0 300	<0.300
TPH (mg/kg) - Analy Mthd	<100 - 418.1	<100 - 418.1	<20 - 8015	<100 - 418.1	<100 - 418 1
Chlorides (mg/kg)	608	864	608	992	800
Total Yards Contaminated	60-yds	60-yds	N A	54-yds	124-yds
Soil Hauled to Landfarm	1	1			

Dugan Production Corp. Permanent Pits to be Closed on November 18, 2010

Hoss #1 Separator	LH #174 Separator	LH #174 Production	Luna #3
30-045-29376	30-045-28533	30-045-28533	30-045-29215
Federal	State	State	State
H-11-23N-11W	A-32-23N-8W	A-32-23N-8W	C-16-23N-9W
36 24188 N	36.18909 N	36 18909 N	36.23237 N
107.9649 W	107.69714 W	107.69714 W	107 79659 W
	_		1
10	10	'10	10
			j
<0.025	<0.100	<0.100	{0.041
0.485	<0 300	<0.300	<0.075
<10 - 418 1	54.3 - 8015	368 - 8015	286 - 8015
176	976	416	864
90-yds	N A	N.A.	36-yds
			J

From:

Kurt Fagrelius

Sent:

Thursday, November 11, 2010 3.49 PM

To:

Kurt Fagrelius, 'Powell, Brandon, EMNRD', Evan Rowland (erowland@slo state nm us), 'dave_mankiewicz@nm blm gov',

'Mark_Kelly@nm blm gov', 'lucas_vargo@blm gov'

Cc:

Johnny Lane, Mike Sandoval

Subject:

RE 72-Hour Notice to Close Permanent Pits

Attachments: 72-Hour Notice to Close 11-16-2010 xls

Tracking:

Recipient

Delivery

Read

Kurt Fagrelius

Delivered: 11/11/2010 3:49 PM Read: 11/11/2010 3:49 PM

'Powell, Brandon, EMNRD'

Evan Rowland (erowland@slo.state.nm.us)

'dave_mankiewicz@nm.blm gov'
'Mark_Keliy@nm.blm.gov'
'lucas_vargo@blm.gov'

Johnny Lane Mike Sandoval Delivered: 11/11/2010 3:49 PM Delivered: 11/11/2010 3:49 PM

I am sorry everyone, I failed to include the attachment on the previous mailing

Kurt Fagrelius
Dugan Production Corp
709 East Murray Drive
Farmington, New Mexico 87401
505-325-1821 (O), 505-320-8248 (C)
kfagrelius@duganproduction com

From: Kurt Fagrelius

Sent: Thursday, November 11, 2010 11:59 AM

To: 'Powell, Brandon, EMNRD'; Evan Rowland (erowland@slo.state.nm.us); 'dave_mankiewicz@nm.blm.gov'; 'Mark_Kelly@nm.blm.gov'; 'lucas_vargo@blm.gov'

Cc: Johnny Lane; Mike Sandoval

Subject: 72-Hour Notice to Close Permanent Pits

From:

postmaster@duganproduction com

Sent:

Thursday, November 11, 2010 3 49 PM

To:

Kurt Fagrelius

Subject:

Delivery Status Notification (Relay)

Attachments:

ATT14381 txt, RE 72-Hour Notice to Close Permanent Pits





ATT14381.txt (407 RE: 72-Hour Notice

B) to Close Pe..

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

Brandon.Powell@state.nm.us

From:

postmaster@duganproduction com

Sent:

Thursday, November 11, 2010 3.49 PM

To:

Kurt Fagrelius

Subject:

Delivery Status Notification (Relay)

Attachments:

ATT14372 txt, RE 72-Hour Notice to Close Permanent Pits





ATT14372.txt (422 RE: 72-Hour Notice

B) to Close Pe...

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

erowland@slo.state.nm.us

From:

Lucas_Vargo@blm.gov Tuesday, November 16, 2010 8 36 AM Kurt Fagrelius Sent:

To:

Subject: 72-Hour Notice to Close Permanent Pits

Return Receipt

72-Hour Notice to Close Permanent Pits Your

document:

was Lucas Vargo/FFO/NM/BLM/DOI

received

by:

at: 11/16/2010 08:35:53 AM

From:

System Administrator

To: Sent: Kurt Fagrelius, Johnny Lane, Mike Sandoval Thursday, November 11, 2010 3.49 PM

Subject:

Delivered RE 72-Hour Notice to Close Permanent Pits

Your message

To:

Kurt Fagrelius; Powell, Brandon, EMNRD; Evan Rowland (erowland@slo.state.nm.us); dave_mankiewicz@nm.blm.gov,

Mark_Kelly@nm blm.gov; lucas_vargo@blm.gov Johnny Lane; Mike Sandoval

Cc.

Subject

RE: 72-Hour Notice to Close Permanent Pits

Sent:

11/11/2010 3·49 PM

was delivered to the following recipient(s)

Kurt Fagrelius on 11/11/2010 3:49 PM Johnny Lane on 11/11/2010 3:49 PM Mike Sandoval on 11/11/2010 3:49 PM