District I 4625 N. French Dt., Hobbs, NM 88240 V District II 1301 W. Grand Avenue, Artesia, NM 88210	L	D
District III 1000 Rio Brazos Road, Aztep N012741 PT District IV 1220 S St Francis Dr., Santa Fe, NM 87505	8	14

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or Proposed Alternative Method Permit or Closure Plan Application

	Closure of a pit, closed-lo Modification to an existin	oop system, below- ng permit ted for an existing	grade tank, or proposed alternative met grade tank, or proposed alternative me permitted or non-permitted pit, closed-	ethod
Instructions: Please submit o	ne application (Form C-144) p	er individual pit, clo	sed-loop system, below-grade tank or alter	rnative request
			rations result in pollution of surface water, gr r applicable governmental authority's rules, re	
Operator: Dugan Production C	corp.		OGRID#: 006515	
Address: 709 East Murray Dr		Mexico 87401		- Andrews - Andr
Facility or well name: Seoul #88				
API Number: 30-045-26630		OCD Permit Nui	mber:	-
U/L or Qtr/Qtr A Secti			10W County: San Juan	
	36.24764 North	Longitude	107.89321 West NAD:	
 ☑ Pit: Subsection F or G of 19.15.1 Temporary: ☐ Drilling ☐ Workover ☑ Permanent ☐ Emergency ☐ Cavi ☐ Lined ☑ Unlined Liner type: T ☐ String-Reinforced Liner Seams: ☐ Welded ☐ Factory 	ritation P&A Thicknessmil LI	LDPE HDPE	PVC Other bbl Dimensions: L_12'_x W	
intent) Drying Pad	ing a new well Workover or well Tanks Haul-off Bins ckness mil	Other HDPE	activities which require prior approval of a	
Below-grade tank: Subsection I of Volume:				
Secondary containment with leak d	etection [7] Visible sides with	liner 6-inch lift and	automatic overflow shut-off	
☐ Visible sidewalls and liner ☐ Vis			automatic overnow situt-off	
	mil HDPE PV			
5.				
Alternative Method:		,		
	uired. Exceptions must be sub-	mitted to the Santa Fo	e Environmental Bureau office for conside	ration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify 4' = 3'Hog Wire + One Strand Barbed Wire	hospital.
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
8. Signs: Subsection C of 19.15.17.11 NMAC ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☐ Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptant material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate of the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	ppriate district pproval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 Within an unstable area. Engineering measures incorporated into the design: NM Bureau of Geology & Mineral Resources: USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No

Lemporary Pits, Emergency Pits, and Below-grade Fanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Itydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Itydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Previously Approved Design (attach copy of design) API Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
 □ Previously Approved Design (attach copy of design) □ Previously Approved Operating and Maintenance Plan □ API Number:
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. ☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC ☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC ☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) ☐ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC ☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.17) Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling flaids and drill cuttings. Use attachment if							
facilities are required.							
Disposal Facility Name: Disposal Facility Permit Number:							
Disposal Facility Name: Disposal Facility Permit Number:							
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future service and operations? Yes (If yes, please provide the information below) No							
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMA Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	С						
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be						
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No						
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No						
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No						
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No						
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No						
Within a 100-year floodplain FEMA map	Yes No						
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plans a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Soil Cover Design - based upon the appropriate requirements of Subsection II of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	15.17.11 NMAC						

Operator Application Certification:	
The raby carrify that the information submitted with this application is true, accurate and complete to the best	a of my knowledge and belief.
	esident, Exploration
Signature: Norte Fragretion Date: 09-	09-2008
c-mail address: kfagrelius@duganproduction.com	25-1821 (O), 505-320-8248 (C)
20. OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan (only) ☐ OCD Conc	litions (see attachment)
OCD Representative Signature:	Approval Date: US /28/53
Title: 500 Permit Number:	
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure. The closure report is required to be submitted to the division within 60 days of the completion of the closure section of the form until an approved closure plan has been obtained and the closure activities have been Date soil analysis did not meet "pit rule" standards (19.15.17). Release will be handled under "spill rule" (19.15.30).	re activities. Please do not complete this
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method If different from approved plan, please explain.	Waste Removal (Closed-loop systems only)
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Grou Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cutting two facilities were utilized.	nd Steel Tanks or Haul-off Bins Only: gs were disposed. Use attachment if more than
Disposal Facility Name: Disposal Facility Permit	Number:
Disposal Facility Name: Disposal Facility Permit	Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be use Yes (If yes, please demonstrate compliance to the items below) No	ed for future service and operations?
Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	
	al and a state to a state to
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the mark in the box, that the documents are attached. ✓ Proof of Closure Notice (surface owner and division) ☐ Proof of Deed Notice (required for on-site closure) ✓ Plot Plan (for on-site closures and temporary pits) ✓ Confirmation Sampling Analytical Results (if applicable) ☐ Waste Material Sampling Analytical Results (required for on-site closure) ☐ Disposal Facility Name and Permit Number ✓ Soil Backfilling and Cover Installation ✓ Re-vegetation Application Rates and Seeding Technique ☐ Site Reclamation (Photo Documentation) ☐ On-site Closure Location: Latitude	
25. Operator Closure Certification:	
Thereby certify that the information and attachments submitted with this closure report is true, accurate and cobelief. Talso certify that the closure complies with all applicable closure requirements and conditions specifi	
	ident, Exploration
Signature: Kurt Fagralin Date: 10-	11-10
,	25-1321 (O), 505-320-3248 (C)

Kurt Fagrelius

From: Kurt Fagrelius

Sent: Monday, September 13, 2010 5:45 PM

'Powell, Brandon, EMNRD'; 'brad.a.jones@state.nm.us.'; 'bertha.spencer@bia.gov'

Subject: Seoul #88 Permanent Pit Closure Notice

Mr. Brandon Powell, Mr. Brad Jones and Ms. Bertha Spencer

We are giving notice that Dugan will be closing the permanent pit on Dugan Production Corp.'s "Seoul #88"; API #30-045-26630 on Navajo Allotted lease NO-C-14-20-7312; on Navajo Allotted Surface; Location Unit A of S9, T23N, R10W; on September 16, 2010.

under guidelines of the spill rule with a final C-141 sent to the NMOCD district office. This permanent pit will be closed according to the guidelines of the "Spill Rule" (19.15.30 NMAC). Sample testing results were not within acceptable limits of the pit rule and are as follows: Benzene <0.050-mg/kg, BTEX <0.300- mg/kg, TPH - <100-mg/kg and Chloride 368-mg/kg. NM State Form C-141 with analytical results will be included with the C-144 final closure report and submitted to the Santa Fe office of the NMOCD, and the cleanup of contamination will be addressed

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

Tank & Seperater Pit **Dugan Production** Seoul #88







a Distance of 77' to Center of Pit. From Reference Point Go N. 70 Degrees NW. For

Seoul #88 Permanent Pit Closure Report-Methods, Procedures and Protocols

1. Comply with deadlines for closure of a permanent pit established by the State of New Mexico, Energy Minerals and Natural Resources Department 19.15.17.13 NMAC, or an earlier date if required by the NMOCD in the case of imminent danger to fresh water, public health or the environment.

Existing	Permit Applc. Submittal or	File Closure Plan	Stop Use By	Close By
On June 16, 2008	Modification Request	Ву		
Temporary Pit - Unlined	Not Permtd under 19.15.17	7/16/2008	Upon drlg rig release	9/16/2008
Temporary Fit - Offined	Not Ferrita under 13.13.17	1110/2000	Telease	3/10/2000
Permanent Pit - Unlined or Lined	Not permitted or Registered	7/16/2008	6-16-2008	12/16/2008
	with NMOCD	W444	VALUE	
Permanent Pit – Unlined	Permitted or Registered with	12-16-2008	6-16-2010	6-16-2011
	NMOCD			
BGT-Aprvd. Design	Not Permtd under 19.15.17	12/16/2008	fail integrity replc	
	Applc. by 9-16-2008		w/apprvd design	
BGT-Not Aprvd Design Nor Retrofit	Not Permtd under 19.15.17	12/16/2008	6/16/2013	6-16-2013
to Comply w/19.15.17	Mod. Rqust by 9-16-2008			
BGT-Not Aprvd Design Nor Retrofit	NA	12/16/2008	6/16/2013	6/16/2013
to comply w/19.15.17				
Permanent Pit-Design and Constr	Mod Paust by 12 16 2008	12/16/2008	fail integrity replc	60-days after cessation
Ferniahent Fit-Design and Consti	Mod. Rqust by 12-16-2008	submit w/mod	rail integrity repic	Cessation
Does not comply w/19.15.17	Comply w/in 18-mos of aprvl	request	w/apprvd design	
permitted and lined				
Permanent Pit-Design and Constr	Permit Apple by 12-16-2008	12/16/2008		60-days after cessation
Termanent it besign and consti	1 cmit / ppio by 12-10-2000	submit w/permit		Goodton
Does not comply w/19.15.17	Comply w/in 18-mos of aprvl	Apple		
Registered and Lined				
Permanent Pit	Permitted under 19.15.17	60-Days prior to close		
T Girianett Fit	remitted under 19.13.17	CIOSC		
			Upon drlg rig	6-mos after
Temporary Pit	Permitted under 19.15.17	Prior to closure	release	rig release
			failed integrity	60-days after
BGT	Permitted under 19.15.17	12/16/2013	replc	cessation
		or prior to closure	w/apprvd design	

- 2. The Seoul #88 permanent pit is an approved design registered under rule 50, but was not permitted under rule 19.15.17. The permanent pit is not in use; it was taken out of commission on 9/10/2007 but has not been closed yet. This report serves as the closure plan and final closure report for the pit.

 Permanent pit was closed on 12-30-09 (date soil analysis did not met "pit rule" standards (19.15.17). Release will be handled under "spill rule" (19.15.30).
- 3. Provide the NMOCD district office at least 72-hours notice but no greater than 1 week prior to any closure operations. Notice will include operator name, well name and number. API number, and location (unit letter, section, township and range). *Notification is attached (sent 9-13-10 via e-mail).*

4. Provide the Environmental Bureau in the NMOCD Santa Fe office a closure plan with this notice. Upon approval of this closure plan, provide the Environmental Bureau in the NMOCD Santa Fe office a proposed schedule for closure at least 60-days prior to closing the permanent pit.

10/29/2008 and 11/15/2008 e-mails to NMOCD Santa Fe office.

- 5. Proof of closure notice will be provided by certified mail to surface owner prior to closing the permanent pit. Proof of notice will be attached to final closure report.

 The closure notification was sent to the surface owner via e-mail (9-13-10), prior to closing the permanent pit (See attached e-mail). Well is located on Navajo Allotted surface, certified mail is not required per BLM/OCD MOU.
- 6. Remove all liquid from the permanent pit prior to closure and dispose of at the Dugan Production operated Sanchez O'Brien #1 SWD (permit SWD-694) located 1650 feet from the South line and 990 feet from the West line (Unit L) of Section 6, Township 24 North, Range 9 West.

Permanent pit did not have any fluids in it to be hauled.

7. All solids from the permanent pit will be excavated, hauled to and disposed of at either the Envirotech facility (permit #NM-01-0011) located in Section 6, Township 26 North, Range 10 West or the IEI facility (permit NM-01-0010B) located in Section 2, Township 29 North, Range 12 West.

10.0-cubic yards of contaminated soil was hauled prior to initial sampling. Copy of invoice to Envirotech (#22521) is attached.

8. Remove pit liner system, if applicable and dispose of in a NMOCD approved facility (Waste Management's Crouch Mesa facility).

Permauent pit did not have a liner system.

- 9. On site equipment associated with the permanent pit will be removed unless it is needed for some other purpose.
- 10. Collect at a minimum, a five point, composite sample; also, collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyze for Benzene, BTEX, TPH, GRO/DRO and chlorides to demonstrate that Benzene, BTEX, TPH, GRO/DRO and chlorides do not exceed the standards as specified in 19.15.17.13.E or the background chloride concentration, whichever is greater.

Components	Test Method	Limit (mg/kg)	Results (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2	<0.050
BTEX	EPA SW-846 8021B or 8260B	50	<0.300
TPH	EPA SW-846 418.1	100	<100
GRO/DRO	EPA SW-846 8015M	NS	
Chlorides	EPA 300.1	250 or Background	368

11. The NMOCD will be notified of the testing results on form C-141.

C-141 with results of sample analysis is attached. Sample analyses exceeded limits permissible under 19.15.17.13. Chlorides tested 368-mg/kg, exceeding the limit of 250- mg/kg.

- 12. If it is determined that a release has occurred, rules 19.15.3.116 NMAC and 19.15.1.19 NMAC will be complied with as required.
 - A release of Chlorides did occur. Contamination will be addressed under the "spill rule" 19.15.30
- 13. If the sampling results demonstrate that a release has not occurred, or that any release does not exceed the concentrations specified above or background concentrations, the pit will be backfilled with compacted, non-waste containing, earthen material. *There was a release of Chlorides.*
- 14. 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 four feet of compacted, non-waste containing, earthen material will be used as backfill. Stockpiled sub-surface soil was used to backfill permanent pit and re-contour. A minimum of four-feet of compacted, non-waste containing, earthen material was used as backfill.
- 15. 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.

 Stockpiled surface soil was used to cover over the backfilled permanent pit and disturbed area no longer needed for production operations. The soil cover included
 - disturbed area no longer needed for production operations. The soil cover included background thickness of topsoil (which was greater than 1-foot thick) to establish vegetation at the site. The soil cover was constructed to the site's existing grade and will prevent water collection or pouding and erosion of the cover material.
- 16. The area will be re-seeded as per BLM guidelines. Re-seeding will be repeated until 70% of the native natural cover is achieved and maintained for two successive growing seasons. The first growing season after the pit is closed the disturbed area will be reseeded. The seeding method will be to drill on contour whenever possible.

 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
 - This provision will/has been accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.
- 17. The NMOCD will be notified within 60-days of closure of the permanent pit. The closure report will be filed on form C-144 and will include the following:
 - a. Proof of Closure Notice (surface owner and division)
 - b. Confirmation Sampling Analytical Results (if applicable)
 - c. Disposal Facility Name and Permit Number

successful vegetative growth occurs.

- d. Soil Backfilling and Cover Installation
- e. Re-vegetation Application Rates and Seeding Technique
- f. Site Reclamation (Photo Documentation)
- 18. The NMOCD will be notified once successful re-vegetation has been achieved.

 The Aztec District office of the OCD will be notified after each re-seeding operation and after successful re-vegetation has been achieved.

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

Phone: 505-632-0615 Fax: 505-632-1865



To:

Dugan Production Corp.

PO Box 420

Farmington, NM 87401

Invoice

Invoice Number:

22521

Job:

06094-0043

January 2,2009

DATE:

barraary 2,2000

Seoul #88- accept exempt contaminated soil and oil from production stream.

and on norm production of our

Ordered by Fred Cornish

Project Manager:

April Pohl

Ē	mployee	Staff Type	Description	<u>Units</u>		Rate	Total
12/19	/2008						
Landf	arm						
			BOL# 32235	1.00	ea	10.00	10.00
	Paint Filter Test		BOL# 32235	1.00	ea	15.00	15.00
C	Chloride Analysis-	Water	BOL# 32235	10.00	су	18.00	180.00
C	Contaminated Soi	l Receival			•		
		*****	Landfarm Total:	12.00			205.00
			12/19/2008 Total:	12.00		:	205.00
			Invoice Sub-total				205.00
			Sales Tax				12.68
Ar	mount due th	is Invoice					\$217.68

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.

Permanent pit: Seoul #88 API number: 30-045-26630

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 four-feet 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 District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Name of Company

Address

Dugan Production Corp.

P.O. Box 420

State of New Mexico Energy Minerals and Natural Resources

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

OPERATOR

Form C-141

Final Report

Revised October 10, 2003

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

Initial Report

Kurt Fagrelius

Telephone No. 505-325-1821

Release Notification and Corrective Action

Contact

Facility Name Seoul #88 Facility Type Permanent Pit									
Surface Ow	ner 1	Navajo Al	lotted	Mineral O	wner	Navajo A	Allotted	Lease N	lo. NOO-C-14-20-7312
				LOCA	TION	OF REI	LEASE		
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County
A	9	23N	10W	330	No	rth	330	East	San Juan
			Lat	titude_36.24	764 1	Longitud	e 107.8932	21_W	
	NATURE OF RELEASE								
	Type of Release Reporting Pit Sampling Volume of Release Unknown Volume Recovered Unknown Source of Release Below grade permanent pit release Date and Hour of Occurrence? Date and Hour of Discovery Unknown								
			perman	ent pit rel	ease		our of Occurrence	e ? Date and I	Hour of Discovery Unknown
Was Immedia	ite Notice (Yes	No 🛚 Not Re	quired	If YES, To	Whom? N/A	A	
By Whom?						Date and H	our		
Was a Watero	Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.								
	☐ Yes ☒ No								
If a Watercou	rse was Im	pacted, Descri	be Fully.*						
NT / 7									
N/A	<u>.</u>								
Describe Cau	se of Proble	em and Remed	dial Action	Taken.*					
During p	permane	nt pit c	losure	a chloride	impa	ct was d	discovered.	A five-po:	int composite sample
							old limits	as per subse	ection B of
19.15.1	7.13(B)	(1)(b).	See at	tached samp	le re	sults.			
Describe Area	Affected a	and Cleanup A	ction Tak	en.*					
Contami	nation	will be	addres	sed under t	he "s	pill rul	le". 19.15.	30.	
				ou under e	110 0	prii iu.	, 13.13.	50.	
I hereby certif	v that the i	nformation gi	ven ahove	is true and compl	ete to the	hest of my	knowledge and u	nderstand that nurs	uant to NMOCD rules and
									ases which may endanger
public health	or the envir	onment. The	acceptanc	e of a C-141 repor	rt by the	NMOCD ma	arked as "Final Re	eport" does not reli	eve the operator of liability
should their o	perations h	ave failed to a	dequately	investigate and re	mediate	contamination	on that pose a three	eat to ground water	surface water, human health
federal, state,				tance of a C-141 r	eport do	es not relieve	e the operator of r	responsibility for co	ompliance with any other
	, , ,						OIL CONS	SERVATION	DIVISION
Signature:	urtl	2910	lun						
Printed Name	Kurt	Fagrelius	3		Α	approved by	District Superviso	or:	
Title:	VP Ex	ploration	1		A	pproval Dat	e:	Expiration I	Date:
E-mail Addre	ss: kfagı	elius@du	ganpro	duction.com	n C	onditions of	Approval:		Attached [
Date: Sept	ember 7	, 2010	Phone:	505-325-18	21				Attached
Attach Addit									<u> </u>



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

December 30, 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 H18941, 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

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 Trihalomethanes (TTHM)
Method EPA 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 5 (includes Chain of Custody)

Celey D. Keene

Sincerely

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: 12/30/09

Project Number: NOT GIVEN

Project Location: NOT GIVEN

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Project Name: EARTH PIT CLOSURE

Sampling Date: 12/18/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: CK

Analyzed By: AB

418.1 TOTAL TPH

		TPH
LAB NUMBER	R SAMPLE ID	(mg/kg)
ANALYSIS DA	ATE	12/29/09
H18941-1	OLSON #1	<100
H18941-2	WITTY #1	<100
H18941-3	WITS END T.B. PROD. TANK ON #3	<100
H18941-4	WITS END T.B. SEP. ON #3	228
H18941-5	OLYMPIC T.B. PROD. TANK ON #1	<100
H18941-6	OLYMPIC T.B. SEP. ON #1	<100
H18941-7	JIM THORPE #1 SEP.	544
H18941-8	SEOUL #88	<100
H18941-9	LAKE PLACID #1	<100
H18941-10	MARATHON #1 SEP.	1,890
Quality Contr	ol	315
True Value Q	C	300
% Recovery		105
		T

Relative Percent Difference METHODS: EPA 418.1

Not accredited for TPH 418.1. Reported on wet weight.

H18941 418.1 DUGAN

Date



1.7 307 2003 10.10

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 68240

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: 12/18/09

Sample Type: SOIL

Sample Condition: COQL & INTACT @ 6°C

Sample Received By: CK

Analyzed By: ZL

LAB NO. SAMPLE ID BENZENE TOLUENE BENZENE XYLENES (mg/kg) (mg/kg) (mg/kg) (mg/kg)

ANALYSIS D	ATE:	12/29/09	12/29/09	12/29/09	12/29/09
H18941-1	OLSON #1	<0.050	<0.050	<0.050	<0.300
H18941-2	WITTY #1	<0.050	<0.050	<0.050	<0.300
H18941-3	WITS END T.B. PROD. TANK ON #3	<0.050	< 0.050	<0.050	<0.300
H18941-4	WITS END T.B. SEP, ON #3	<0.050	<0.050	<0.050	< 0.300
H18941-5	OLYMPIC T.B. PROD. TANK ON #1	<0.050	<0.050	<0.050	<0.300
H18941-6	OLYMPIC T.B. SEP, ON #1	<0.050	<0.050	<0.050	<0.300
H18941-7	JIM THORPE #1 SEP.	<0.050	<0.050	<0.050	<0.300
H18941-8	SEOUL #88	<0.050	<0.050	<0.050	<0.300
H18941-9	LAKE PLACID #1	<0.050	<0.050	<0.050	<0.300
H18941-10	MARATHON #1 SEP.	0.101	<0.050	<0,050	<0.300
Quality Cont	rol	0.048	0.046	0,048	0,146
True Value QC		0.050	0.050	0.050	0.150
% Recovery		96.0	92.0	96.0	97.3
Relative Per	cent Difference	8.8	5.7	2.2	9.1

METHODS: BTEX - SW-846 8021B.

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

Chemist

Date

H18941 BTEX DUGAN



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: 12/29/09 Sampling Date: 12/18/09 Sample Type: SOIL

Sample Condition: COOL & INTACT @ 6°C

Sample Received By: CK

Analyzed By: HM

		CI
LAB NUMBER	SAMPLE ID	(mg/kg)
H18941-1	OLSON #1	1,960
H18941-2	WITTY #1	320
H18941-3	WITS END T.B. PROD.TANK ON #3	384
H18941-4	WITS END TB SEP ON #3	1,040
H18941-5	OLYMPIC T.B. PROD. TANK ON #1	2,360
H18941-6	OLYMPIC T.B. SEP. ON #1	928
H18941-7	JIM THORPE #1 SEP.	4,480
H18941-8	SEOUL #88	368
H18941-9	LAKE PLACID #1	192
H18941-10	MARATHON #1 SEP.	848
Quality Control		500
True Value QC		500
% Recovery		100
Relative Percent Difference		< 0.1

METHOD: Standard Methods

4500-CIB

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

Chemis

Date

CHAIN OF CUSTODY RECORD

0753037475 CARDITIAL LABS 6 7.6 **_**Q Ø Client Relinquished by: 10. Marathon #1 SED 6. Diyir pic TiB Sel-S. Olympic T.13 Prop In 4 1 1/18 END 78 SEP FAX Number: 505-325-4873 Contact Phone Number: Address. Adúress: Lab Name: 28 # 1000C 1 1 1 22 Tropod Sep Sample ID 15 ON # Placidit Green Analytical Laboratories 75 Suttle Street, Durango, CO 81303 330-JORNISH PRODUCTION 12-18-29 12-14-09 12-18-04 5260 13.96-21 12-14-09 12-18-09 12-18-01 12-18-09 12-18-09 12-1809 Date Collection 3:58 W 2 Pim. 1:00Pm 2:50Pm 2:30Pm 1:45 PM 1,000 (In 12:08PM 12:21 pm 1:15 Pm Time Collected by: (Init.) (970) Miscellaneous Date: Matrix Type PO# Project Name: 2) Ship samples promptly following collection. 1) Ensure proper container packaging NOTES Designate Sample Reject Disposition. From Table 1 247-4220 No. of Containers 8 Sample Filtered 7 Y/N EARTH FAX (970) 247-4227 05.50 Unpreserved (Ice Only) Preservative(s) HNO3 **₹** HCL Closure H2SO4 NAOH Other (Specify) Samplers Signature: Benezene BIEX 3 = Soil/Sediment, 4 = Rinsate, 5 = Oil1 = Surface Water, 2 = Ground Water 6 = Waste, 7 = Other (Specify)TP17 418.1 Table I. - Matrix Type Analyses Required Morides (Francist SOLE AND 188 smbo Ring Comments FOR GAL USE ONLY GAL JOB #

Sample Reject: [] Return [] Dispose [] Store (30 Days)

(°C, C+ I H) ("