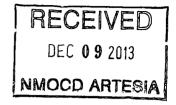
R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW 🛦 Suite F-142 🛦 Albuquerque, NM 87104 🛦 505.266.5004 🛦 Fax: 505.266-0745

December 5, 2013

Mr. Brad Jones NMOCD 1220 South St. Francis Drive Santa Fe, NM 87505



RE: C-144 Closure Report for the Poseidon Modular Impoundment. Operator: XTO Energy. API #: 30-015-29434. Unit Letter J Section 13 T23S R29E.

Dear Mr. Jones:

R.T. Hicks consultants is pleased to submit this Closure Report for the above referenced location on the behalf of XTO Energy. Closure activities were performed in accordance with the approved C-144 application *"Nash Draw Unit #29 modular impoundment (Atlantis system) for temporary storage of treated produced water"* dated June 13, 2012. The location of the modular impoundment is on Plate 1. Plate 2 is a plat of the location.

On June 20th, 2012, XTO Energy began sending treated water from Halliburton's CleanWave system, located at Nash Unit #53 SWD, to the Poseidon Modular Impoundment (Poseidon tank). On June 25, 2012, the first well, Nash Unit 39H, was hydraulically fractured using treated water from the Poseidon tank. On September 26th, 2012, the last well, Nash Unit 49, was fractured using treated water from the Poseidon tank. The transfer completion date, in lieu of rig release date, was October 5, 2012 as noted on Form C-105 per approved C-144 plan.

CLOSURE NOTIFICATIONS

Closure activities for the Poseidon tank began on October 15, 2012. Notification of closure activities were sent to Mr. Bratcher (NMOCD), Mr. Jones (NMOCD), and Mr. Jim Amos (BLM) via email on October 12, 2012. Closure notification to the surface owner (BLM) was sent via certified mail return receipt. A copy of the receipt is presented in Appendix A.

MODULAR IMPOUND CLOSURE

On October 15, 2012 Poseidon Concepts began the disassembly of the Poseidon tank. Due to the oily nature of remaining fluid in the



Figure 1: One of the four roll-offs containing liner material that was transported to R360.

December 05, 2013 Page 2

Poseidon tank, the fluid was removed using a vacuum truck and transported to R360 (formerly CRI) in Lea County, NM. The closure plan originally stated that remaining fluid would be injected into the Nash Unit 53 SWD (API#: 3001539400) well.

Poseidon Concepts transported all reusable pipes, pumps, and tank walls to their field yard. The tank liner was deposited into four 20-cu. yrd. roll-offs (Figure 1) and transported to R360 for proper disposal.

OPERATION LOGS

Operation logs for the Poseidon tank and the CleanWave system are presented in Appendix B. As noted in Tables B-1 and B-2, on August 27th, 2012 the Poseidon tank liner seam split slightly 1-foot from the top of the tank and approximately 3 barrels of fluid escaped. Mr. Randy Green of XTO Energy mobilized water haul trucks to the site and lowered the water level to prevent further leakage. The water was transferred to Nash Draw 49 H and Nash Draw Unit # 57 H for use in well stimulation. Water levels in the tank were kept below the split and the seam was repaired to prevent further leakage. The release was reported on Form 141 and submitted to NMOCD District 2 on March 15, 2013.

SPILL RELEASE NOTIFICATION AND CORRECTION ACTION

A spill "Release Notification and Corrective Action" Form C-141 was submitted to NMOCD District 2 on March 15, 2013. Corrective action reproduced from the Final Spill Report (C-141) is summarized below.

Between November 13, 2012 and June 24, 2013, soil samples were obtained to determine the magnitude, extent, and background hydrocarbon and chloride concentrations associated with the reported release. Table 1 summarizes the results of soil sampling. Plate 3 shows the locations of the soil samples. Plate 4 shows the extent of the remediation area.

Sample ID		,	Chloride mg/kg	EC uS/cm	Benzene mg/kg	BTEX mg/kg	[°] TPH mg/kg	GRO/DRO mg/kg
NMAC 19.15.17.13.B(1).b			500 or background		0.2	50	2,500	500
Tank Composite	11/13/2012	1.0	7,500	NS	<0.49	ND	<20	<10
BG Composite	11/13/2012	1.0	3,000	NS	<0.49	ND	<20	<10
Trench Sample	2/11/2013	2.0	3,480	8,010	NS	NS	NS	NS
Trench Sample	2/11/2013	4.0	2,120	3,020	NS	NS	NS	NS
Trench Sample	2/11/2013	6.0	2,000	7,050	NS	NS	NS	NS
Background Sample	6/24/2013	1.5	2,960	NS	NS	NS	NS	NS
Background Sample	6/24/2013	3.0	2,440	NS	NS	NS	NS	NS
Background Sample	6/24/2013	4.5	2,920	NS	NS	NS	NS	NS
Background Sample	6/24/2013	6.0	1,880	NS	NS	NS	NS	NS
Background Sample	6/24/2013	7.5	1,380	NS	NS	NS	NS	NS
Background Sample	6/24/2013	8.0	1,500	NS	NS	NS	NS	NS

Table 1: Soil chemistry summary results

Notes

1. ND = non-detect

2 NS = not sampled

On November 13, 2012, Hicks Consultants collected two on-site 5-point composite soil samples for closure of the modular impoundment employed for hydraulic fracturing of five wells in 2012.

The point samples for the Tank Composite and BG Composite were collected approximately two inches below the caliche pad/soil interface at a depth of approximately 1-foot. The Trench Sample consisted of discrete samples at 2, 4, and 6 foot depths. Table 2 summarizes the lithology of the Trench Sample.

Table 2: Lithology	of Trench	Sample
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Depth (ft)	Description
0 - 1	Caliche pad
1 - 4	Top soil (loamy sand), dark brown, moist
4 - 6	Top soil, reddish brown, moist
6	Medim sand w/caliche, hard, brown, moist

Note: native hard caliche was observed below 6 feet.

The Tank Composite sample with a chloride concentration of 7,500 mg/kg (see Table 1) indicates production activities have impacted the western half of the caliche pad. The BG Composite sample has a chloride concentration comparable to the Trench Sample at the 2 foot depth (3,480 mg/kg).

On February 11, 2013; in support of the C-141 initial report submission, Hicks Consultants performed additional characterization to determine the vertical extent of chloride in soil near the western edge of the former modular impoundment, in proximity of the reported release. The "Trench Sample" identified in Table 1 and on Plate 3 represents the February 2013 sample.

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Soil chloride concentrations at the Trench Sample (collected within the area of the Tank Composite sample) show chloride concentrations are decreasing with depth, from 3,480 mg/kg at 2 feet to 2,000 mg/kg at 6 feet and indicate that the majority of chloride impairment is limited to the production pad surface.

On June 24, 2013 we sampled an off-site background location (Background Sample) per C-141/Part 29 approval conditions/stipulations for release event 2RP-1674. The background location was located in

an area not impacted by past or current production activities.

Comparing the on-site Trench Sample (Table 3) to the off-site Background Sample at depths below 2-feet bgs, the on-site chloride concentrations are either near or lower than off-site background concentrations.

Table 3: Chloride concentration comparisonbetween an on-site and off-site (background)

	Chlorid	le (mg/kg)
Depth (+/- 0.5 ft)	Trench Sample	Background Sample
1.5 - 2	3,480	2,960
4	2,120	2,920
6	2,000	1,880

The chemistry and lithology of the trench samples suggest that:

- the moist soil at a depth of 6 feet, which exhibits approximately 2,000 mg/kg chloride, is likely impacted by shallow groundwater wicking up from the underlying brine groundwater zone,
- the moist soil near the surface (Trench Sample) was likely from recent precipitation events and past releases at the site,
- soil at depths from 1 to 5 feet below surface have chloride and EC concentrations that will support vegetation. Re-vegetation of the impacted area is included in the C-141 remediation plan and also satisfies BLM's request for interim reclamation, and
- the eastern portion of the location is not measurably impaired by production activities as the BG sample result (3,000 mg/kg) is not different from the background samples

Removing the upper 2-feet of soil within the remediation area as shown on Plate 2 will remediate the observed higher chlorides and allow for vegetation.

The Final Report for the C-141 was submitted to NMOCD District 2 on December 5, 2013. Photo documentation of the remediation activities is located in Appendix C.

The location is currently an active well site. To return the site to pre-existing conditions, the three "Y" shaped trenches associated with the modular impoundment were backfilled with caliche (Figure 2) and graded even with the existing production pad (Figure 3).

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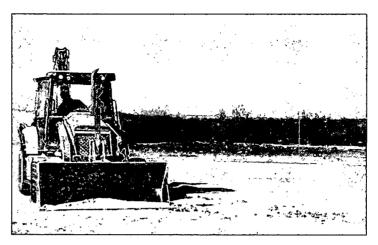


Figure 2: Backfilling a "Y" shaped trench with caliche.

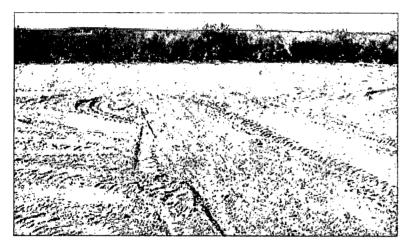


Figure 3: Location reclaimed to pre-existing conditions graded even with the active production pad.

Please contact us at 505-266-5004 if you have any questions or comments.

Sincerely, R.T. Hicks Consultants

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Andrew Parker Durango Field Office

Copy: David Luna, XTO Energy

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240				State of New Mexico Energy, Minerals and Natural Resources					Form C-105 Revised August 1, 2011 1. WELL API NO.								
District II 811 S. First St., Artesin, NM 88210 District III 1000 Rio Brazos Rd., Aztee, NM 87410 District IV				Oil Conservation Division 1220 South St. Francis Dr.					30-015-29434 2. Type of Lease STATE ☐ FEE X FED/INDIAN 3. State Oil & Gas Lease No.								
1220 S. St. Francis Dr., Santa Fe, NM 87505 Sat						Santa Fe, I						3. State Oil &	z Gas	Lease No	•		
		LETIO	N OR I	RECC	MPL	ETION RE	PO	RT A	NE	LOG		5. Lease Name or Unit Agreement Name					
4. Reason for filin	-											5. Lease Nam	e or u	nit Agree	ment ini	ame	
	ON REP	ORT (Fill	in boxes	#1 throu	gh #31	for State and Fe	e well	ls only)				6. Well Number:					
C-144 CLOSI #33; attach this and	d the <u>pla</u>										l/or	Nash	Ur	nit #	29		
7. Type of Compl] workd	VER] DEEPE	INING	PLUGBAC	к 🗆	DIFFE	REN	VT RESERV	VOIR	I I OTHER	C-1	144 (llos	ure	Report
8. Name of Operat	or											9. OGRID	380				
10. Address of Op		cqy,	<u>111C</u>									11. Pool name					
		raine	e, Si	iite	800) Midlan	d,	ΤX	79	9701							
12.Location	Unit Ltr	Secti	on	Towns	hip	Range	Lot			Feet from	the	N/S Line	Feet	from the	E/W I	Line	County
Surface:							+										
BH:																	
13. Date Spudded	14. Da	ate T.D. Re	ached	 15. I O	Date Rip CtO	g Released Der 5, 2	201	2	16.	Date Comp	leted	(Ready to Prod	uce)] 7. Elevat T, GR, c		and RKB,
18. Total Measured	d Depth	of Well		19. F	lug Ba	ck Measured De	pth		20.	Was Direc	tiona	l Survey Made?		21. Typ	e Electr	ic and O	ther Logs Run
22. Producing Inte	rval(s), c	of this com	pletion -	Top, Bot	tom, Ni	ame											
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26. Perforation r	ecord (In	iterval, size	, and nu	mber)						D, SHOT, INTERVAL		ACTURE, CE TAMOUNT A					
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28.							PR	ODU	C]	ΓΙΟΝ							
Date First Producti	on		Product	tion Meth	od (Fla	owing, gas lift, p	umpin	ıg - Size	anc	d type pump)	Well Status	(Prod	l. or Shut-	in)		
Date of Test	Hours	Tested	Ch	oke Size		Prod'n For Test Period		Oil -	Bbl		Ga	s - MCF	Ŵ	ner - Bbl.		Gas - C	Dil Ratio
Flow Tubing Press.	Casing	g Pressure		culated 2 ur Rate	4-	Oil - Bbl,		 C 	las -	MCF	, 	Water - Bbl.		Oil Ġra	vity - Al	<u>।</u> Р I - <i>(Сог</i>	г.)
29. Disposition of C	l Jas (Sold	d, used for	fuel, ven	ted, etc.)				-					30. T	est Witne	ssed By		
31. List Attachmen	ts																
32. If a temporary p									ι. 5	See Pl	at	es 1 an	d 2	2.			
33. If an on-site but	rial was	used at the	well, rep	ort the e	xact loc	ation of the on-	site bu	irial:									
I hereby certify	that th	efinform	atipn s.	howpy			forn	n is tri	ie a	und compl	lete	Longitude to the best of	f my	knowled	lge an	NA d belief	D 1927 1983
Signature	\mathcal{A}	pr.	1 à	J.	I	Printed Name				Tit		2	-		-	Date	
	,	d T			(D-	vid L	una				s Engineer		De	ecemb	per 05,	2013
E-mail Address	Davi	.uuna	awXCO	energ	y.cc			_		•	-			-	-	1	

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

NMOCD District Office.

1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	1220 South St. Francis Dr. Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
	losed-Loop System, Below-Grade	
Closur Modifi	of a pit, closed-loop system, below-grade tank, e of a pit, closed-loop system, below-grade tank, ication to an existing permit e plan only submitted for an existing permitted o ed alternative method	or proposed alternative method
Instructions: Please submit one application	tion (Form C-144) per individual pit, closed-loop syst	tem, below-grade tank or alternative request
	t relieve the operator of liability should operations result of its responsibility to comply with any other applicable g	
Operator: XTO Energy,Inc		5380
	land, TX 79701	
Facility or well name: <u>Nash Unit #29</u>		
API Number: <u>30-015-29434</u>	OCD Permit Number:	
U/L or Qtr/Qtr J Section 13	Township 23S Range 29E	County: Eddy
Center of Proposed Design: Latitude <u>N 32.303</u> Surface Owner: X Federal X State Private	322 Longitude <u>W 103.9371</u>] Tribal Trust or Indian Allotment	9 NAD: 🗌 1927 🔀 1983
2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	KC P&A X Other: Modular impoundment for tem 30mi1 ⊠ LLDPE ☐ HDPE ☐ PVC ⊠ C	
¹ Liner Seams: 🛛 Welded 🖾 Factory 🗋 Other	Volume: <u>41,000</u> bb	Diameter: 157 ft. Height: 12 ft Dimensions: t
 intent) Drying Pad Above Ground Steel Tanks Lined Unlined Liner type: Thickness	17.11 NMAC vell Workover or Drilling (Applies to activities wh Haul-off Bins Other mil LLDPE HDPE PVC] Other
4.		
Below-grade tank: Subsection I of 19.15.17		
	luid:	
Tank Construction material:		
	Visible sidewalls, liner, 6-inch lift and automatic o	
	alls only Other HDPE PVC Other	
5.		

Alternative Method:

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration 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, hospital, institution or church)							
Four foot height, four strands of barbed wire evenly spaced between one and four feet							
Alternate. Please specify Modular impoundment walls are 12 feet high; no fencing necessary.							
7. <u>Netting</u> : 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							
I X Signed in compliance with 19.15.16.8 NMAC See photos in Appendix SSI-1							
9. Administrative Approvals and Exceptions:							
¹ 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. 	office for						
Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.							
 <u>Siting Criteria (regarding permitting)</u>: 19.15.17.10 NMAC <u>Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.</u> 							
 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 X No EE FIGURES 1a,1b						
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 X No SEE FIGURE 2						
 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 X No ☐ NA SEE FIGURE 3						
 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 SEE FIGURE 4						
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 X No SEE FIGURE 5						
 Within 500 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site 	Yes 🛛 No SEE FIGURE 6						
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes 🛛 No SEE FIGURE 7						
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	X Yes No SEE FIGURE 8						
Within a 100-year floodplain. - FEMA map	Yes 🛛 No SEE FIGURE 9						

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11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : Subsection B of 19.15.17.9 NMAC <u>Instructions</u> : Fach of the following items must be attached to the application Please indicate by a check mark in the box, that the documents are								
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 (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic 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 								
Previously Approved Design (attach copy of design) API Number: or Permit Number:								
12. 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) API Number:								
Previously Approved Operating and Maintenance Plan API Number: (Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)								
13. 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 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 Perteobard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Peremoted Vertopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Preceboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Preceboard and Overtopping Prevention Plan Beregency Response Plan								
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 Xalternative Modular impoundment for temporary storage of treated produced water 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) 								
 15. 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 								

<u>11.</u>

^{16.} <u>Waste Removal Closure For Closed-loop Systems That Utilize Above Ground St</u> <i>Instructions: Please indentify the facility or facilities for the disposal of liquids, dr</i>		
facilities are required.	nning junus und urni cunings. Ose anachment ij r	nore inan iwo
-	Disposal Facility Permit Number:	
	Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur 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 r Re-vegetation Plan - based upon the appropriate requirements of Subsection I Site Reclamation Plan - based upon the appropriate requirements of Subsection	equirements of Subsection H of 19.15.17.13 NMA of 19.15.17.13 NMAC	2
^{17.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC		
Instructions: Each siting criteria requires a demonstration of compliance in the cl provided below. Requests regarding changes to certain siting criteria may require considered an exception which must be submitted to the Santa Fe Environmental 1 demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for	administrative approval from the appropriate dist Bureau office for consideration of approval. Justi	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 of	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 of	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 of	obtained from nearby wells	□ Yes □ No □ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signi lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	ficant watercourse or lakebed, sinkhole, or playa	🗌 Yes 🗌 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in - Visual inspection (certification) of the proposed site; Aerial photo; Satellite i		🗌 Yes 🗍 No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less t watering purposes, or within 1000 horizontal feet of any other fresh water well or spr - NM Office of the State Engineer - iWATERS database; Visual inspection (co	ring, in existence at the time of initial application.	🗌 Yes 🗌 No
Within incorporated municipal boundaries or within a defined municipal fresh water adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval		🗌 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 a	nd Mineral Division	🗌 Yes 🗌 No
 Within an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology of Society; Topographic map 	& Mineral Resources; USGS; NM Geological	🗌 Yes 🗌 No
Within a 100-year floodplain. - FEMA map		🗋 Yes 🗌 No
18. On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the J by a check mark in the box, that the documents are attached.	following items must be attached to the closure pl	an. Please indicate,

- 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 19.15.17.11 NMAC
- 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
- Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) Soil Cover Design - 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

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief. Name (Print): David Luna Signature: Operations Engineer David Luna Title: Operations Engineer Signature: David Luna@xtoenergy.com Telephone: 432-620-6742 a: OCD Anproval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: //14///2
Signature: Dorust Dite: 06/13/2012 e-mail address: David Luna@xtoenergy.com Telephone: 432-620-6742 mail OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: L/14/(72
e-mail address: David_Luna@xtoenergy.com Telephone:432-620-6742
OCD Anproval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment) OCD Representative Signature: Approval Date: ////////////////////////////////////
Title:
St. 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 activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an opproved closure plan has been obtained and the closure activities have been completed. Closure Completion Date: November 13, 2012 c. Closure Method: If different from approved plan, please explain. Modular impoundment closure - hauled off-site c. Closure Report Regarding Woste Removal Closure For Closed-loon Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the figuids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. Disposal Facility Name:
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 activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an opproved closure plan has been obtained and the closure activities have been completed. Closure Method: Closure Completion Date: November 13, 2012 Closure Method: November 13, 2012 Waste Excavation and Removal On-Site Closure Method If different from approved plan, please explain. Modular impoundment closure - hauled off-site en. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment If more than two facilities were utilized. Disposal Facility Name: R360 Disposal Facility Permit Number: Disposal Facility Name: Closure Closure Disposal Facility Permit Number:
Closure Method: On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain. Modular impoundment closure - hauled off-site Sector Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tunks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than hwo facilities were utilized. Disposal Facility Name: Disposal Facility Name: Disposal Facility Name: Disposal Facility Permit Number:
Closure Method: On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain. Modular impoundment closure - hauled off-site a. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. Disposal Facility Name: R360 Disposal Facility Name: Disposal Facility Permit Number: Closure: Disposal Facility Name:
Closure Report Regarding Woste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tunks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized. Disposal Facility Name:
Disposal Facility Name: <u>R360</u> Disposal Facility Permit Number: <u>R-9166</u> 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 used for future service and operations?
☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No
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
a. Closure Report Attachment Checklist: Instructions: Each of the fallowing items must be attached to the closure report. Please indicate, by a check
mark in the box, that the documents are attached.
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 Rectanation (Photo Documentation) On-site Closure Location: Longitude NAD: 1927 1983
\$
Onerator Closure Certification: hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Nome (Print): David Luna Tille: Operations Engineer
Signature: Date: 12/05/2013
e-moil address: David Luna@xtoenergy.com Telephone: 432-620-6742

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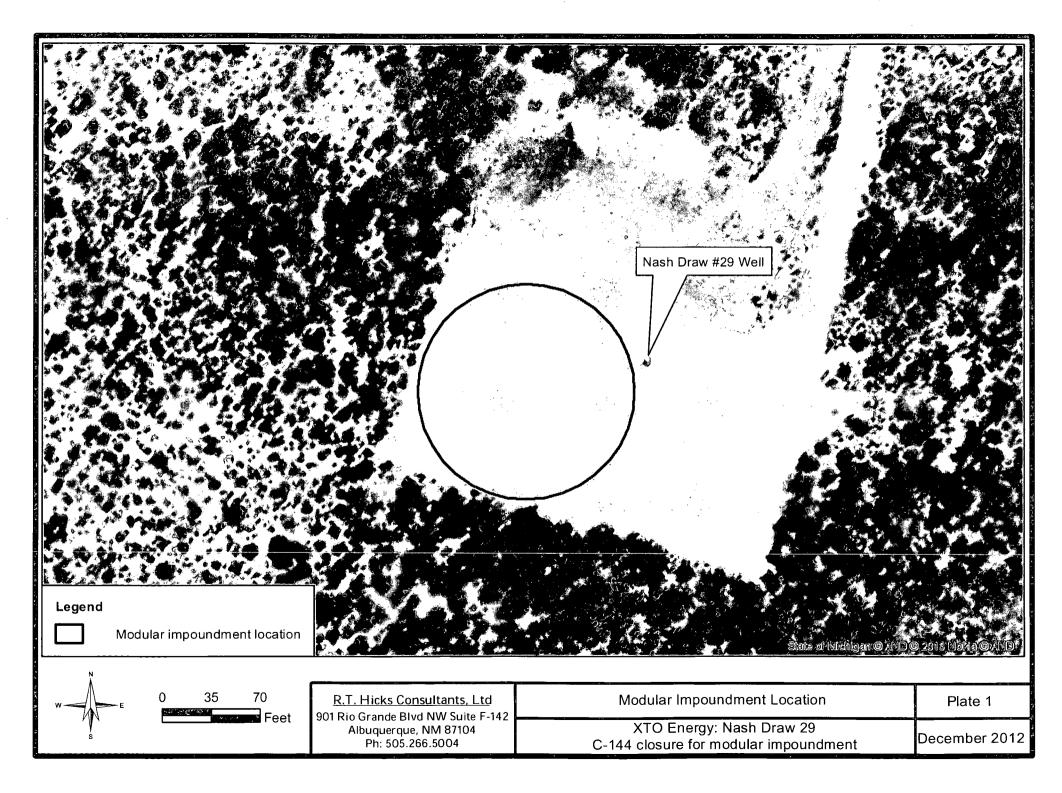
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Oil Conservation Division

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District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department

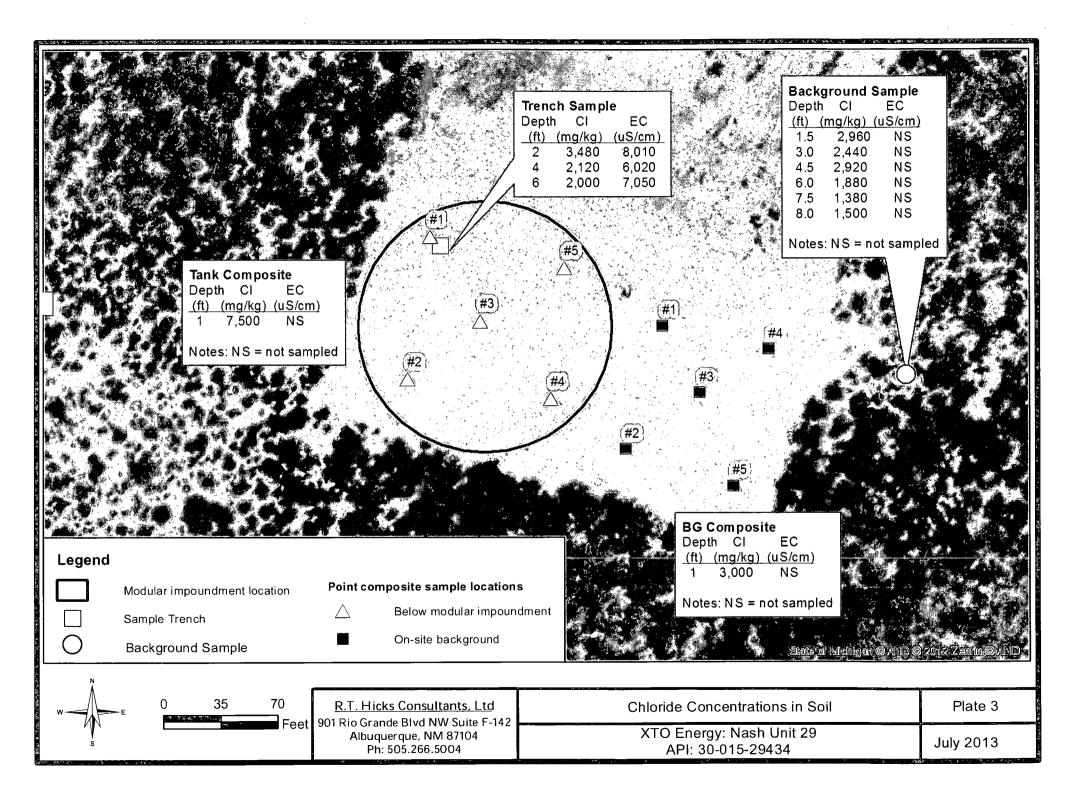
OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

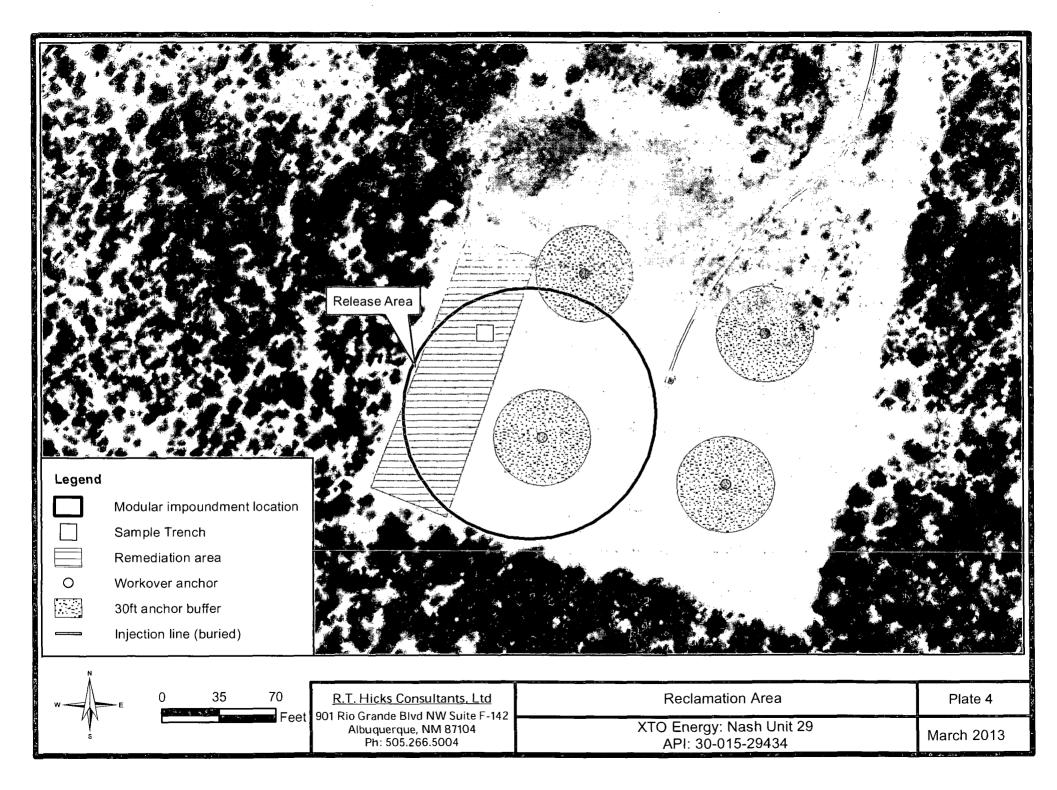
Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

	WI	ELL LOO	CATIO	N AND ACH	REAGE DEDI	CATION PL	AT	•		
	'API Number 0-015-29434			ic	NASH DRAW BRUSHY CANYON OIL POOL					
* Property Code 010735	NASH	UNIT		* Property	Property Name 'Well Number 29					
'OGRID No. 021712	STRAT	A PRODU	CTION	² Operator	Name				'Elevation 2991.	
				¹⁰ Surface	Location					
UL or lot no. Section J 13	Township 23-S	Range 29-E	Lot Ida	Feet from the 1980	North/South line SOUTH	Feet from the 2310	East/Wes EAS		County EDDY	
			tom Ho		f Different Fro	A			1	
UL or lot no. Section	1 Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/Wes	t line	County	
¹² Dedicated Acres ¹³ Jo 40.00	nt or Infill ¹⁴	Consolidation U	a Code 15	Order No.		I			<u></u>	
NO ALLOWABLE					UNTIL ALL INT			CONSO	LIDATED OR A	
16				- -		17 OPEI I hereby certi Irue and comp ignature CAROL Printed Nam	RATOR fy that the in, plete to the b 	formation est of my b L 5 CIA	TIFICATION contained herein is nowledge and belief MANAGER	
			, 980,		23/0	I hereby certij was plotted fr or under my s correct to the	fy that the we om field note supervision, o best of my b SER 203 N. K. R. E	ell location es of actual and that th etief. 1996 Cossional S	Wveyer:	

Plate 2







	 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also conitem 4 if Restricted Delivery is desired Print your name and address on the so that we can return the card to you Attach this card to the back of the more on the front if space permits. Article Addressed to: Jim Amos BLM- Carlsbal 620 E. Green St. Carlsbad, NM 88220 	nplete 1. reverse	3. Service Type X Certified Mall □ Express Mail	CAgent Addresse Date of Defive UUUUUU UUUUU UUUUU No
	2. Article Number (Transfer from service label)	7004 3	1350 0001 9663 561s	
ĺ	PS Form 3811, February 2004	Domestic Rel		102595-02-M-15

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Date	Processing Hrs	Bbls Processed	Comments
4-Jun	0	0	Arrive & check out location
5-Jun	2		RU Unit & 2 Weir Tanks
6-Jun			Continue RU Unit & Weir Tanks
7-Jun			RU Setteling Tanks, Electricity, Acid
8-Jun			Wait on Caustic
9-Jun	7	2900	Receive Caustic, fill weir & set tanks
10-Jun	6	2500	Clean tanks full
11-Jun			Wait on Poseidon Tank
12-Jun			Wait on Poseidon Tank
13-Jun			Wait on Poseidon Tank
14-Jun			Wait on Poseidon Tank
15-Jun			Wait on Poseidon Tank
16-Jun			Wait on Poseidon Tank
17-Jun			Wait on Poseidon Tank
18-Jun			Wait on Poseidon Tank
19-Jun			Wait on Poseidon Tank
20-Jun			Hook up H-Pump: send water to Poseidon at 7PM
21-Jun	13	4000	1st full day of processing
22-Jun		3600	
23-Jun	23	7500	
24-Jun	8	3800	
25-Jun	11	1400	Frac Nash 39H: used 10,000 bbls
26-Jun	0	0	Wait until closer to frac date to process
27-Jun	0	0	11
28-Jun			11
29-Jun			11
30-Jun			11
1-Jul	6	1650	Pull down "dirty tanks" to make room
2-Jul			Wait until closer to frac date to process
3-Jul			"
4-Jul			n
5-Jul			u
6-Jul			n
7-Jul			n
8-Jul			II
9-Jul	4		Start back up
10-Jul	8	3363	
11-Jul	4	1980	
12-Jul		3362	
13-Jul	10	4704	
14-Jul	10	4321	
15-Jul	9	4273	
16-Jul	7	3852	
17-Jul		2352	Tank full. Wait on frac
18-Jul			II
19-Jul	3	1141	Pull down "dirty tanks" to work on valve

Date	Processing Hrs	Bbls Processed	Comments
20-Jul		2136	Tank full. Wait on frac
21-Jul			11
22-Jul		· · ·	п
23-Jul			
23 Jul 24-Jul			и в
25-Jul	<u> </u>		Frac Nash 40 JITP: 13,000 BBL
26-Jul			Frac nash 41 JITP: 19,000 BBL
20-Jul	· · · · ·		
27-Jul 28-Jul			
28-Jul			
30-Jul	<u> </u>		
31-Jul	t		
1-Aug			
2-Aug			Start back up
3-Aug		3351	
4-Aug		4903	
5-Aug		3263	
6-Aug		5060	
7-Aug	11	5560	
8-Aug	12	4126	
9-Aug	8	3441	
10-Aug	9	3990	Frac Nash 56: 33,000 BBL
11-Aug	10	4279	
12-Aug	16	3359	
13-Aug	12	4735	
14-Aug	14	6008	
15-Aug	16	7282	
16-Aug	11	3056	Screened out 1st Stage of Nash 49
17-Aug	· · · · · · · · · · · · · · · · · · ·	1009	
18-Aug		2885	
19-Aug		1009	
20-Aug		0	
21-Aug		3208	Poseidon Tank Full. Top off XTO tanks.
22-Aug	• • • • • • • • • • • • • • • • • • •	1419	
23-Aug		2648	
24-Aug			All Tanks full. Oil found on top of Poseidon tank.
25-Aug			All Tanks are full.
26-Aug		0	
27-Aug			Poseidon Tank started leaking from seams.
28-Aug			Hauling water from Poseidon to frac tanks.
20 Aug 29-Aug		0	and any water nom rosedon to nat tanks.
30-Aug			Frac Nash 57
31-Aug		5125	
		6101	
1-Sep			
2-Sep		4483	
3-Sep	l	4394	

Date	Processing Hrs	Bbls Processed	Comments
4-Sep		4844	
5-Sep		5113	
6-Sep		2786	Frac Nash 58
7-Sep		6480	Brown Bear went down/hauling water
8-Sep		6480	Tanks full from hauling all night
9-Sep		1230	Filled holding tanks
10-Sep		2277	Frac Nash 51/Pulled sludge & cleaned tanks
11-Sep		935	Replaced Suction riser on Poseidon Tank
12-Sep		2513	
13-Sep		2206	
14-Sep		2206	
15-Sep		0	Maintenance & Repair
16-Sep		0	XTO Transfer pump is down
17-Sep		0	
18-Sep		3005	Transfer pump is working
19-Sep		1366	
20-Sep		4476	
21-Sep		1967	
22-Sep		2982	
23-Sep		1441	
24-Sep		1156	
25-Sep		0	Maintenance & Repair
26-Sep		2970	
27-Sep		1045	Frac Nash 49/Done with Treating water

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Date:	6/	/4/2012		Report	Number:		1
Date.		4/2012			Number:		8
					,		· · · ·
Client:		XTO		}	hift Onsite Time:	NA	am/pm
Location:		NASH			hift Offsite Time:	NA	am/pm
Site Contact:	BO	JACKSON			ystem Run Time:	1	Total hrs.
Site Contact:				Present	Onsite Activities:	Treating Pr	oduced Water
			0		<u></u>	1	hrs
Processing Hr BBLS Processe		1 hrs 1 bbls		Cumulative Processing Hrs: Cumulative BBLS Processed:			
BBLS/Hr Proc		1		BBLS/Hr Proces			bbls bbl/hr
BBCSMIFIC		1	Cumulative	BBL3/HI FIOC	esseu.	1.0	DDI/III
Lead Operator:	Pau	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Crew:			NA		NA	NA	NA
			NA		NA	NA	NA
			NA		NA	NA	NA
ľ			NA		NA	NA	NA
			NA		NA	NA	NA
			NA		NA	NA	NA
			Chemical	Usage	Start Inv.	End Inv.	On Order
l			HcL Acid	0	0	0	YES
			Sodium Hydroxide	0	0	0	YES
Visitors:					├ ──── 		ļ
Visitors: Visitors:				1			
Are there any addit	tional supplie	es/equipment neede	ed? If so, what items and	when?			
NO Have there been ar NO	ny changes to	o the current sched	ule, including volumes n	eeded by clien	t?		
Has client provided	d any operati	onal feedback (pos	itive or negative)?				
Person:	, .p		Company:			OXY	
NO Additional Cor							
		TION CUSTOMER	SAID IT WOULD TAKE 3	DAYS BEFOR	E HE COULD HA	VE ANY WAT	ER FOR US

Date:	6/	5/2012		Report	Number:		2
		,			lumber:		8
					<u>_</u>		
Client:		хто		S	hift Onsite Time:	7:00 AM	am/pm
Location:	N	ash 29		S	hift Offsite Time:	4:00 PM	am/pm
Site Contact:		Jackson			ystem Run Time:		Total hrs.
Site Contact:					, Onsite Activities:	Rig Up I	Equipment
	L				<u> </u>		
Processing Hr	s Today:	0 hrs	Cumulativ	ve Processing	Hrs:	0	hrs
BBLS Processe		0 bbls		Cumulative BBLS Processed:			
BBLS/Hr Proc		#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	#D	IV/0!
··							
Lead Supervisor:	Pau	I Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			06:00				
Crew			08:00		† †		
	Kevi	in Wilson	10:00	<u> </u>	<u> </u>		
		Service hands	12:00				
			14:00	+			
			16:00	1,	ll		
				<u> </u>			
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	4,000	4,000	NO
			Sodium Hydroxide	0	3,800	3,800	NO
Visitors:	Bo	o Wells					
Visitors:							
Visitors:							
							_
Were there any abr	ormal operat	ional issues onsite?	?				
None							
Are there only addit	ional ounnilio	loquinment needer	I? If so, what items and	whon?			
2 frac tanks will be d			r? It so, what items and	when		, .	
	w abcress t	4ha augurut 1		odod by -l'- ··	2		
			le, including volumes ne of the week. Could be a				
			-				-
the second s	any operatio	nal feedback (posit			.		
Person:			Company:			XTO	
N/A Additional Co		long with 2 on wair	ianko Milli aamolata ria un	when the 2 fra		norrow Mood	to contact the
			anks.Will complete rig up units. Will return to locati				

Date:	6/	6/2012		Report	Number:		3
				Unit N	lumber:	-	8
Client:		хто		S	hift Onsite Time:	7:00 AM	am/pm
Location:		ash 29		S	hift Offsite Time:	6:00 PM	am/pm
Site Contact:		Jackson			ystem Run Time:		Total hrs
Site Contact:					Onsite Activities:	Rig Up I	Equipment
Processing Hrs		0 hrs	Cumulativ	e Processing	Hrs:	0 hrs	
BBLS Processe	d Today:	0 bbls	Cumulative	BBLS Proces	ssed:	0	bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	Cumulative BBLS/Hr Processed:			
Lead Supervisor:		ıl Worley	Deadinger	flow book	Volte (Among		Turbidit
		d Edwards	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator Crew		in Wilson	06:00				
		d White S.S.	10:00		<u>}</u>		
ŀ	-	Id Neal S.S.	10:00				
ŀ	¥	her Perry S.S.	12:00	·	┟		
ł		arson S.S.	14:00				
	JUNT	_ars011 0.0.	10.00		I I		
1			Chemical	Usage	Start Inv.	End Inv.	On Orde
ſ			HcL Acid	0	2,000	2,000	NO
-			Sodium Hydroxide	0	3,800	3,800	NO
Visitors:	B	o Wells					
Visitors:	Во	Jackson					
Visitors:							
ne e there any additi ttling tanks arrived	onal supplie: around 5:30	pm	d? If so, what items and v				
	e delivered to	location possible en	d of the week. Could be a c				
s client provided	any operation	indi leeuback (posi	Company:			ХТО	
s client provided Person:							

Date:	6/	/7/2012		Report	Number:	· -	4
	-,	.,			Number:		8
					** I		
Client:		XTO		S	hift Onsite Time:	6:00 AM	am/pm
Location:	N	lash 29		S	hift Offsite Time:	6:00 PM	am/pm
Site Contact:	Bo	Jackson			ystem Run Time:		Total hrs
Site Contact:		<u> </u>		Present	Onsite Activities:	Rig Up	Equipment
					1		
Processing Hrs		0 hrs		e Processing		0	hrs
BBLS Processe BBLS/Hr Proc		0 bbls		BBLS Proce			bbls
BBL5/Hr Proc	essea:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	#L	0IV/0!
Lead Supervisor:	Bo	ul Worley	Deadings	flow book	Volte / Amag		Turkidit
Lead Operator		d Edwards	Readings: 06:00	flow back	Volts/Amps	рН	Turbidit
Crew		d White S.S.	08:00		<u> </u>	· · · · ·	
CICVV		ald Neal S.S.	10:00		<u> </u>		
ŀ		her Perry S.S.	12:00				
-			14:00		† · · · · · · · · · · · · · · · · · · ·		
ŀ			16:00			···	
1					1 I		
ľ			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	2,000	2,000	NO
-			Sodium Hydroxide	0	3,800	3,800	NO
Visitors:	B	o Wells					
Visitors:	Во	Jackson					
Visitors:							
	ormal operat	tional issues onsite	22		I		
Vere there any abnoone re there any additione ave there been any	onal supplie y changes to	the current sched	e? ed? If so, what items and w ule, including volumes ne Tuesday after the permits a	eded by client			
fere there any abno one re there any additi one ave there been any oseidon tank will be as client provided	onal supplies y changes to e delivered to	s/equipment neede	ed? If so, what items and v ule, including volumes ne Tuesday after the permits a itive or negative)?	eded by client			
lere there any abnoone re there any additione ave there been any oseidon tank will be as client provided Person:	onal supplies y changes to e delivered to	s/equipment neede	ed? If so, what items and w ule, including volumes ne Tuesday after the permits a	eded by client		XTO	
fere there any abno one re there any additi one ave there been any oseidon tank will be as client provided	onal supplies y changes to e delivered to	s/equipment neede	ed? If so, what items and v ule, including volumes ne Tuesday after the permits a itive or negative)?	eded by client			
ere there any abnoone re there any additione ave there been any oseidon tank will be as client provided Person: (A Additional Con	onal supplie y changes to delivered to any operatic	s/equipment neede the current sched location possibly on	ed? If so, what items and v ule, including volumes ne Tuesday after the permits a itive or negative)?	eded by client are approved.			

Date:	6/	7/2012		Report	Number:		4
	i				lumber:		8
		¥70					
Client:		XTO			hift Onsite Time:	8:00 AM	am/pm
Location:		ash 29			hift Offsite Time:	12:00 PM	am/pm Total hrs
Site Contact: Site Contact:	B0	Jackson			ystem Run Time: Onsite Activities:	Ria Up I	Equipment
		· ••••					
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	0	hrs
BBLS Processed		0 bbls		BBLS Proces		0	bbls
BBLS/Hr Proce	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	#D	0IV/0!
Lead Supervisor:	Pai	I Worley	Readings:	flow back	Volts/Amps	pH	Turbidit
Lead Operator		d Edwards	06:00	HOW Back	Voita/Ampa	PI1	Turolule
Crew		d White S.S.	08:00				
		Id Neal S.S.	10:00				
F		her Perry S.S.	12:00				
F	onnaiop		12:00				
			14:00				
ŀ			10.00		1 1		1
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	2,000	2,000	NO
			Sodium Hydroxide	0	3,800	3,800	NO
Visitors:							
Visitors:							
Visitors:							
one re there any addition	onal supplie	the current sched	d? If so, what items and v ule, including volumes ne Saturday after the permits	eded by client	1?		
oseidon tank will be as client provided	any operatic	onal feedback (posi				VTO	
oseidon tank will be	any operatic	onal feedback (posi	itive or negative)? Company:			хто	

Date:	6,	/9/2012		Report	Number:		5
				Unit N	lumber:		8
Client:		хто		s	hift Onsite Time:	4:00 AM	am/pm
Location:	N	lash 29			hift Offsite Time:	2:00 PM	am/pm
Site Contact:		Jackson			stem Run Time:	7	Total hrs
Site Contact:				Present	Onsite Activities:	PROCES	SS WATER
		·····	<u> </u>		. 1		
Processing Hr		7 hrs		e Processing		<u> </u>	
BBLS Processe		2,908 bbls		BBLS Proces			
BBLS/Hr Proc	essed:	415.4285714	Cumulative	BBLS/Hr Proc	essed:	415.4	bbl/hr
Land Companyiana	De		Deadlease	flaur haad.	\/_lh_/A		T
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	pH	Turbidit
Lead Operator			06:00		110	6.73	0.134
Crew			08:00		110	6.54	0.765
			10:00		110	6.85	0.443
			12:00 14:00		110	6.52 6.91	0.691
			14:00		110	0.91	0.346
			10:00	L			
	<u></u>		Chemical	Usage	Start Inv.	End Inv.	On Orde
	-	· · · · ·	HcL Acid	0sage 140	1,900	1,760	NO
	l		Sodium Hydroxide	140	2,500	2,310	NO
Visitors:	BO	JACKSON	Sourani Tiyaroxide	190	2,300	2,510	
Visitors:	00						
Visitors:							
there envio	armal anarai	tional icourse ensite	n				
	ormal operat	tional issues onsite	?				
e re there any abn one	ormal operat	tional issues onsite	?				
	ormal operat	tional issues onsite	?				
	ormal operat	tional issues onsite	?				
ne							
ne e there any addit			? d? If so, what items and v	when?			
ne e there any addit				when?			
ne e there any addit				when?			
ne e there any addit ne	ional supplie	s/equipment neede	d? If so, what items and v		2		
ne e there any addit ne ve there been an	ional supplie y changes to	s/equipment neede	d? If so, what items and v le, including volumes ne	eded by client			
ne e there any addit ne ve there been an	ional supplie y changes to	s/equipment neede	d? If so, what items and v	eded by client			
ne e there any addit ne ve there been an	ional supplie y changes to	s/equipment neede	d? If so, what items and v le, including volumes ne	eded by client			
ne e there any addit one ive there been an	ional supplie y changes to	s/equipment neede	d? If so, what items and v le, including volumes ne	eded by client			
ne e there any addit ne ve there been an	ional supplie y changes to	s/equipment neede	d? If so, what items and v le, including volumes ne	eded by client			
ne e there any addit ne ve there been an seidon tank did no	ional supplie y changes to ot show up too	s/equipment neede	d? If so, what items and v ile, including volumes ne head start on the frac V	eded by client			
ne e there any addit ne ve there been an seidon tank did no seidon tank did no s client provided <i>Person:</i>	ional supplie y changes to ot show up too	s/equipment neede the current schedu day but want to get a	d? If so, what items and v ile, including volumes ne head start on the frac V	eded by client		XTO	
e there any addit one ave there been an seidon tank did no seidon tank did no	ional supplie y changes to ot show up too	s/equipment neede the current schedu day but want to get a	d? If so, what items and v ile, including volumes ne head start on the frac V tive or negative)?	eded by client		XTO	
ne e there any addit ne ve there been an seidon tank did no seidon tank did no seidon tank did no seidon tank did no	ional supplie y changes to ot show up too	s/equipment neede the current schedu day but want to get a	d? If so, what items and v ile, including volumes ne head start on the frac V tive or negative)?	eded by client		XTO	
e there any addit one ive there been an iseidon tank did no is client provided <i>Person:</i>	ional supplie y changes to ot show up too	s/equipment neede the current schedu day but want to get a	d? If so, what items and v ile, including volumes ne head start on the frac V tive or negative)?	eded by client		XTO	
ne a there any addit ne ve there been an seidon tank did no s client provided Person:	ional supplie y changes to ot show up too	s/equipment neede the current schedu day but want to get a	d? If so, what items and v ile, including volumes ne head start on the frac V tive or negative)?	eded by client		XTO	
e there any addit ne ve there been an seidon tank did no s client provided <i>Person:</i>	ional supplie y changes to ot show up too any operatio	s/equipment needer	d? If so, what items and v ile, including volumes ne head start on the frac V tive or negative)?	eded by client Vater was looki	ng very clean.		

	6/	10/2012		Report	Number:		6
				Unit	lumber:		8
Client:		хто		S	hift Onsite Time:	4:00 AM	am/pm
Location:	N	lash 29		S	hift Offsite Time:	1:00 PM	am/pn
Site Contact:	Во	Jackson		S	ystem Run Time:	6	Total hr
Site Contact:	Pa	ul Worley			Onsite Activities:	PROCES	S WATER
Processing Hrs		6 hrs		e Processing		13	hrs
BBLS Processe		2,544 bbls		BBLS Proces			2 bbls
BBLS/Hr Proce	essed:	424	Cumulative	BBLS/Hr Proc	essed:	419.4	bbi/hr
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidi
Lead Operator			06:00		120	7.24	1.3
Crew			08:00		120	6.68	0.876
Ļ			10:00		120	6.93	0.557
Ļ			12:00		120	6.88	0.942
Ļ			14:00				
ŀ			16:00	L	I		
ŀ	<u> </u>		Chemical	Usage	Start Inv.	End Inv.	On Ord
F			HcL Acid	175	1,900	1,725	NO
L			Sodium Hydroxide	220	2,500	2,280	NO
Visitors:	BO .	JACKSON				_,	
Visitors:							
Visitors:							
re there any abno	ormal operat	tional issues onsite	?				
ne e there any addition ne ve there been any	onal supplie y changes to	s/equipment needed	d? If so, what items and v le, including volumes ne		?		
ne e there any addition ne ve there been any seidon tank is supp	onal supplie / changes to pose to be he	s/equipment needed	d? If so, what items and v le, including volumes ne ursday of next week.		?	XTO	

Date:	6/	11/2012		Report	Number:		7	
					Number:		8	
Client:		ХТО		S	hift Onsite Time:	N/A	am/pm	
Location:	N	ash 29		S	hift Offsite Time:	N/A	am/pm	
Site Contact:	Во	Jackson		S	ystem Run Time:	0	Total hrs.	
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCE	SS WATER	
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	13	hrs	
BBLS Processe		0 bbis	Cumulative	Cumulative BBLS Processed:				
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	419.4	bbl/hr	
Lead Supervisor:	Pau	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity	
Lead Operator			06:00					
Crew			08:00					
			10:00					
		<u>.</u>	12:00					
			14:00					
			16:00					
			Chemical	Usage	Start Inv.	End Inv.	On Order	
l			HcL Acid	0	1,725	1,725	NO	
Visitors:		JACKSON	Sodium Hydroxide	0	2,280	2,280	NO	
Visitors: Visitors:	BU .	JACKSON					·	
Visitors:							<u> </u>	
V131073.								
· · ·								
Were there any abn	ormal operat	ional issues onsite	a?					
None								
	onal supplie	s/equipment neede	ed? If so, what items and v	when?				
None								
			ule, including volumes ne	eded by client	t?			
Poseidon tank is sup	pose to be he	ere Wednesday or T	hursday of next week.					
Has client provided	any operatio	nal feedback (pos	itive or negative)?					
Person:			Company:			XTO		
N/A						-		
		· · · · · · · · · · · · · · · · · · ·		· · · ·				
Additional Cor		idaa taala						
All tanks are full ,wa	aung on pose	iaon tanks.						

Date:	6/	12/2012		Report	Number:		7
	-,				Number:	<u>. </u>	8
Client:		XTO		S	hift Onsite Time:	N/A	am/pm
Location:	Ν	lash 29		S	hift Offsite Time:	N/A	am/pm
Site Contact:	Bo	Jackson		System Run Time:		0	Total hrs.
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	13	hrs
BBLS Processe	d Today:	0 bbls	Cumulative	Cumulative BBLS Processed:			
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	419.4	bbl/hr
					· · · · · · · · · · · · · · · · · · ·		
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator			06:00				
Crew			08:00				
			10:00				
			12:00				
			14:00				
			16:00				
			· · · · · · · · · · · · · · · · · · ·				
			Chemical	Usage	Start Inv.	End Inv.	On Order
[HcL Acid	0	1,725	1,725	NO
			Sodium Hydroxide	0	2,280	2,280	NO
Visitors:	BO .	JACKSON					
Visitors:							
Visitors:							
	· .						
Were there any abn	ormal operat	tional issues onsite	?				
None							
Are there any additi	onal supplie	s/equipment neede	d? If so, what items and v	when?			
None							
Have there been an	y changes to	the current sched	ule, including volumes ne	eded by client	?		
Poseidon tank is sup	pose to be he	ere Wednesday or T	hursday of next week.				
						- <u></u>	
Has client provided	anu eneratio	nal foodbook (naoi				<u> </u>	·····
Person:	any operation	nai teeoback (posi	Company:	r			
N/A			company.			XTO	
,							
Additional Cor	nments						
			ll dirty tanks Bo Jackson sh	lowed me wher	e to get more wat	er to fill dirty ta	anks and I filled
them using pumps or	n different loc	ations.					

Date:	6/	13/2012		Report	Number:		8
	0, 10, 2012			Unit Number:		8	
Client:		ХТО		S	hift Onsite Time:	N/A	am/pm
Location:	Nash 29			S	hift Offsite Time:	N/A	am/pm
Site Contact:		Jackson		System Run Time:		0	Total hrs
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCE	SS WATER
Decension He	- T- d		Committee in the second s			13	
	Processing Hrs Today: 0 hrs BBLS Processed Today: 0 bbls			Cumulative Processing Hrs: Cumulative BBLS Processed:			hrs
	BBLS/Hr Processed: #DIV/0!			Cumulative BBLS Processed: Cumulative BBLS/Hr Processed:			2 bbls bbl/hr
BBL3/HI PIOU	esseu.	#010/0!	Cumulative	BBLS/Hr Proc	esseu:	419.4	
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	pH	Turbidity
Lead Operator			06:00	HOW Back	- Voics/Amps		
Crew			08:00		<u> </u>		<u> </u>
0.04			10:00				<u> </u>
ł			12:00		<u>† </u>		1
ł			14:00				
ł			16:00				<u> </u>
·							I
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	1,725	1,725	NO
L			Sodium Hydroxide	0	2,280	2,280	NO
Visitors:	BO.						<u> </u>
		JACKSON	1				1
Visitors:		JACKSON					
Visitors: Visitors:			2				
Visitors: ere there any abn one re there any additione	ormal operat onal supplie y changes to	tional issues onsite s/equipment neede	e? ed? If so, what items and v ule, including volumes ne		?		
Visitors: ere there any abn one re there any additione ave there been an oseidon tank is sup as client provided	ormal operation onal supplie y changes to pose to be he	tional issues onsite s/equipment neede	d? If so, what items and v ule, including volumes ne		?		
Visitors: ere there any abn one re there any additione ave there been an oseidon tank is sup as client provided <i>Person:</i>	ormal operation onal supplie y changes to pose to be he	tional issues onsite s/equipment neede the current sched ere anytime now.	d? If so, what items and v ule, including volumes ne		?	XTO	
Visitors: ere there any abn one re there any additione ave there been an oseidon tank is sup as client provided	ormal operation onal supplie y changes to pose to be he	tional issues onsite s/equipment neede the current sched ere anytime now.	d? If so, what items and v ule, including volumes ne itive or negative)?		· · · · · · · · · · · · · · · · · · ·	XTO	

Lead Operator 06:00 08:00 00:00 Crew 00:00 00:00 00:00 00:00 10:00 00:00 00:00 00:00 00:00 00:00 12:00 00:0	Date:	6/14/2012			Report Number:			9
Location: Nash 23 Site Contact: B Jackson Site Contact: Paul Woney Processing. Hrs Today: 0 The Contact: PROCESS WATER Processing. Hrs Today: 0 BBLS.Processed Today: 0 BBLS.Processed Today: 0 BBLS.Processed: 5.452 bbls Cumulative BBLS Processed: 5.452 bbls 06:00			_		Unit I	Number:		8
Location: Nash 28 Site Contact: Bo Jackson Site Contact: Paul Workey Processing Hrs Today: 0 BBLS Processed Today: 0 BBLS/Processed Today: 0 BBLS/Processed: \$5.452 Device Sector \$0 Cumulative BELS Processed: \$5.452 Device Sector \$0.401 Lead Supervisor: Paul Workey Crew 0 Crew 0 Crew 0 Crew 0 Chemical Usage Static On Order 12:00 12:00 14:00 14:00 17:25 16:00 12:00 Visitors: 0 Visitors: 0 <t< td=""><td>Client</td><td>1</td><td>XTO I</td><td></td><td></td><td>hift Oncita Timou</td><td>N/A</td><td>2m/nm</td></t<>	Client	1	XTO I			hift Oncita Timou	N/A	2m/nm
Site Contact: Bo Jackson Site Contact: Paul Worley Processing Hrs: 0 BBLS Processed Today: 0 BBLS Processed: \$5.452 BBLS Processed: \$5.452 BBLS Processed: \$6.00 Lead Operator 0 Crew 0 Crew 0 Discord 0 12:00 1 13:00 1 14:00 1 16:00 1 16:00 1 16:00 1 16:00 1 16:00 1 16:00 1 16:00 1 Visitors: 1/725 Visitors: 1/725 Visitors: 1/725 Visitors: 1/725 Sodium Hydroxide 0 2280 2,280 No Sodium Hydroxide 0 2,280 No Sodium Hydroxide 0 2,280 No Sodium Hydroxide								
Site Contact: Paul Worley Present Onsite Activities PROCESS WATER Processing Hrs Today: 0 hrs BLS Processed Today: 0 hrs BBLS Processed Today: 0 bils Gumulative Processed: 5.452 bils BBLS Processed: #DIV/01 Cumulative BBLS Processed: 5.452 bils Lead Supervisor: Paul Worley Readings: flow back Volts/Amps pH Turbidit Lead Operator 06:00 10:00 <td< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>		-						
BBL SProcessed: 9. bbls BBL S/Hr Processed: #DIV/01 Lead Operator Cumulative BBLS Processed: 419.4 bbl/hr Lead Operator 06.00								
BBL SProcessed: 9. bbls BBL S/Hr Processed: #DIV/01 Lead Operator Cumulative BBLS Processed: 419.4 bbl/hr Lead Operator 06.00								
BBLS/Hr Processed: #DIV/01 Lead Supervisor: Paul Worley Lead Operator 06:00 Crew 08:00 Image: Start Inv. End Inv. Visitors: Image: Start Inv. </td <td colspan="2">Processing Hrs Today: 0 hrs</td> <td>Cumulativ</td> <td>e Processing</td> <td>Hrs:</td> <td>13</td> <td>hrs</td>	Processing Hrs Today: 0 hrs		Cumulativ	e Processing	Hrs:	13	hrs	
Lead Supervisor: Paul Worley Lead Operator 06:00 Crew 06:00 10:00 10:00 12:00 10:00 14:00 10:00 16:00 10:00 Visitors: 16:00 Visitors: 11:00 visi	BBLS Processe	BBLS Processed Today: 0 bbls		Cumulative BBLS Processed:			5,45	2 bbls
Lead Operator 06:00 08:00 08:00 Crew 00:00 08:00 08:00 08:00 10:00 10:00 10:00 10:00 10:00 10:00 12:00 14:00 10:0	BBLS/Hr Pro	cessed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	419.4	bbl/hr
Lead Operator 06:00 08:00 Crew 00:00 00:00 10:00 00:00 00:00 12:00 10:00 00:00 14:00 10:00 00:00 16:00 0 1,725 1,725 Visitors: 0 2,280 2,280 NO Visitors: 0 2,280 2,280 NO Visitors: 0 2,280 2,280 NO Visitors: 0 0 0 0 0 ethere any abnormal operational issues onsite? 0 0 0 0 ethere any additional supplies/equipment needed? If so, what items and when? 0 0 0 0 we there been any changes to the current schedule, including volumes needed by client? 0 0 0 0 0 is client provided any operational feedback (positive or negative)? YTO XTO X	Load Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps		Turbidit
Crew 08:00 10:00 12:00 11:00 11:00 14:00 16:00 11:00 Visitors: 0 1725 1725 Visitors: 0 2,280 2,280 NO Visitors: 0 2,280 2,280 NO Visitors: 0 1 1 1 1 Visitors: 0 2,280 2,280 NO Sodium Hydroxide 0 2,280 2,280 NO visitors: 0 0 2,280 NO Sodium Hydroxide 0 2,280 NO sections: 0 0 0 0 visitors: 0 0 0 0 0 wisitors: 0 0 0 0 0 0 ere there any abnormal operational issues onsite? 0 0 0 0 0 0 0 0 0 0 0 0 0					HOW DACK	Voits/Amps	рп	
10:00 1 11:00 <td< td=""><td></td><td></td><td></td><td></td><td> </td><td> </td><td></td><td>ł</td></td<>								ł
12:00 14:00 14:00 14:00 16:00 16:00 Chemical Usage Start Inv. End Inv. On Order HcL Acid 0 1,725 1,725 NO Visitors: Sodium Hydroxide 0 2,280 2,280 NO Visitors: Image: Start Inv. End Inv. On Order NO Visitors: Image: Start Inv. End Inv. On Order Visitors: Image: Start Inv. Image: Start Inv. Image: Start Inv. Visitors: Image: Start Inv. Image: Start Inv. Image: Start Inv. Visitors: Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. Image: Start Inv. </td <td>CIEW</td> <td></td> <td></td> <td></td> <td></td> <td>┟────┤</td> <td></td> <td><u> </u></td>	CIEW					┟────┤		<u> </u>
14:00 16:00 Chemical Usage Start Inv. Chemical Usage Start Inv. Visitors: Image: Start Inv. End Inv. Visitors: Image: Start Inv. Image: Start Inv. et there any abnormal operational issues onsite? Image: Start Inv. ine Image: Start Inv. Image: Start Inv. we there been any changes to the current schedule,					l	┨────┤		┨─────
16:00 0 0.00 Orde Chemical Usage Start Inv. End Inv. 0 Orde Visitors: 0 1,725 NO Visitors: 0 2,280 2,280 NO Visitors: 0 2,280 2,280 NO Visitors: 0 0 2,280 2,280 NO Visitors: 0 0 0 0 0 0 visitors: 0								
Chemical Usage Start Inv. End Inv. On Orde HcL Acid 0 1,725 1,725 NO Sodium Hydroxide 0 2,280 2,280 NO Visitors:								
HcL Acid 0 1,725 1,725 NO Visitors: 0 2,280 2,280 NO Visitors: 0 2,280 2,280 NO Visitors: 0 1 1 1 1 Visitors: 0 2,280 2,280 NO Visitors: 0 1 1 1 1 visitors: 0 1 1 1 1 1 visitors: 0 1 <t< td=""><td></td><td></td><td></td><td>10.00</td><td>1</td><td>II</td><td><u></u></td><td>.</td></t<>				10.00	1	II	<u></u>	.
Sodium Hydroxide 0 2,280 2,280 NO Visitors:				Chemical	Usage	Start Inv.	End Inv.	On Orde
Visitors:					0	1,725	1,725	NO
Visitors:				Sodium Hydroxide	0	2,280	2,280	NO
Visitors:								
ere there any abnormal operational issues onsite? e there any additional supplies/equipment needed? If so, what items and when? ne we there been any changes to the current schedule, including volumes needed by client? section tank is suppose to be here maybe on Monday. sclient provided any operational feedback (positive or negative)? Person: Company: XTO Additional Comments	Visitors:	·	_					
e there any additional supplies/equipment needed? If so, what items and when? The second sec	10110101							<u> </u>
Person: Company: XTO A A A A Additional Comments A A	Visitors:							<u> </u>
A	Visitors: ere there any abr ne e there any addit ne ve there been ar	tional supplie	s/equipment neede	ed? If so, what items and v ule, including volumes ne		17		
	Visitors: ere there any abr ne e there any addit ne ve there been ar seidon tank is su seidon tank is su	tional supplie ny changes to ppose to be he	s/equipment neede	ed? If so, what items and v ule, including volumes ne ay. itive or negative)?		· · · · · · · · · · · · · · · · · · ·		
	Visitors: ere there any abr ne e there any addit ne ve there been ar seidon tank is sup seidon tank is sup s client provideo Person:	tional supplie ny changes to ppose to be he	s/equipment neede	ed? If so, what items and v ule, including volumes ne ay. itive or negative)?		?	XTO	
NI taula ang kali ang kina ng Panalalan taula	Visitors: ere there any abr ne e there any addit ne ve there been ar seidon tank is sup seidon tank is sup s client provideo Person:	tional supplie ny changes to ppose to be he	s/equipment neede	ed? If so, what items and v ule, including volumes ne ay. itive or negative)?		1? 1?	ХТО	

	6/	15/2012		Report Number: Unit Number:			10
·	· · ·					8	
TAND BY WA	AITING	ON TANK					
Client:		ХТО		S	hift Onsite Time:	N/A	am/pn
Location:	Nash 29			Shift Offsite Time:		N/A	am/pn
Site Contact:	Bo Jackson			System Run Time:		0	Total hr
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs Today: 0 hrs		Cumulativ	Cumulative Processing Hrs:			13 hrs	
	BBLS Processed Today: 0 bbls			BBLS Proces		5,452 bbls	
BBLS/Hr Proces	ssed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	419.4	bbl/hr
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidi
Lead Operator			06:00	HOW Dack	voits/Airips		, unbian
Crew			08:00				ŀ
			10:00				
			12:00		· · · · ·		
			14:00				
			14:00				
			10.00		I		
		_	Chemical	Usage	Start Inv.	End Inv.	On Ord
			HcL Acid	0	1,725	1,725	NO
			Sodium Hydroxide	0	2,280	2,280	NO
Visitors:							
Visitors:							
Visitors:			·				
ere there any abnor	mal opera	tional issues onsite	?				
	mal opera	tional issues onsite	?				
	mal opera	tional issues onsite	?	· · · · · · · · · · · · · · · · · · ·			
one				whon?			
one e there any additior			? d? If so, what items and v	when?			
one re there any additior				when?			
one re there any additior one	nal supplie	s/equipment neede	d? If so, what items and v		2		
one re there any addition one ave there been any o	nal supplie	s/equipment neede	d? If so, what items and v ule, including volumes ne		?		
one re there any additior one	nal supplie	s/equipment neede	d? If so, what items and v ule, including volumes ne		?		
re there any addition one ave there been any o oseidon tank is suppo	nal supplie changes to ose to be he	s/equipment neede the current schede ere maybe on Monda	d? If so, what items and v ule, including volumes ne		?		
re there any addition one ave there been any o pseidon tank is suppo	nal supplie changes to ose to be he	s/equipment neede the current schedu ere maybe on Monda	d? If so, what items and v ule, including volumes ne		?	хто	
re there any addition one ave there been any o pseidon tank is support as client provided at Person:	nal supplie changes to ose to be he	s/equipment neede the current schedu ere maybe on Monda	d? If so, what items and v ule, including volumes ne		?	хто	
one re there any addition one ave there been any o oseidon tank is suppo as client provided a	nal supplie changes to ose to be he ny operatio	s/equipment neede the current schedu ere maybe on Monda	d? If so, what items and v ule, including volumes ne		?	хто	

Date:	6/	16/2012		Report	Number:		11
20101	0/	10,2012		Unit Number:		8	
TAND BY W		ΟΝ ΤΑΝΚ			1	· · · · -	-
Client:		хто		s	hift Onsite Time:	N/A	am/pm
Location:	N	lash 29		Shift Offsite Time:		N/A	am/pm
Site Contact:	Во	Jackson				0	Total hrs
Site Contact:	Pa	ul Worley		Present Onsite Activities:		PROCESS WATER	
Processing Hrs Today: 0 hrs		Cumulative Processing Hrs:			13	hrs	
BBLS Processed Today: 0 bbls			e BBLS Proces		5,452 bbls		
	BBLS/Hr Processed: #DIV/0!			BBLS/Hr Proc		419.4 bbl/hr	
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		i	06:00		· · · · · · · · · · · · · · · · · · ·	·	
Crew			08:00				
			10:00				
	[12:00				
			14:00				· · · ·
			16:00		<u> </u>		
					LL		
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	1,725	1,725	NO
	·	J	Sodium Hydroxide	0	2,280	2,280	NO
Visitors:			Journality		2,200	2,200	
Visitors:							
Visitors:							
Thomas and the second sec	·			I	L L		
<u> </u>				····			
oro thoro ony ohn		tional issues onsite	2				
one	onnai operai	lional issues ofisite	ſ				
JIIC							
	ional supplie	s/equipment neede	d? If so, what items and v	when?			
e there any addit	ional supplie	s/equipment neede	d? If so, what items and v	when?			
	ional supplie	s/equipment neede	d? If so, what items and v	when?			
one							
one ave there been an	y changes to) the current schedu	ule, including volumes ne	eded by client			
one ave there been an	y changes to) the current schedu		eded by client			
one ave there been an	y changes to) the current schedu	ule, including volumes ne	eded by client			
ave there been an oseidon tank is sup	y changes to	e the current schedu ere on Monday and v	ule, including volumes ne ve are suppose to start fillir	eded by client			
ave there been an oseidon tank is sup as client provided	y changes to) the current schedu	ule, including volumes ne ve are suppose to start fillir tive or negative)?	eded by client		· · · · · · · · · · · · · · · · · · ·	
ave there been an oseidon tank is sup as client provided <i>Person:</i>	y changes to	e the current schedu ere on Monday and v	ule, including volumes ne ve are suppose to start fillir	eded by client		хто	
ave there been an oseidon tank is sup as client provided	y changes to	e the current schedu ere on Monday and v	ule, including volumes ne ve are suppose to start fillir tive or negative)?	eded by client		XTO	
ave there been an oseidon tank is sur as client provided <i>Person:</i> A	by changes to oppose to be he any operatio	e the current schedu ere on Monday and v	ule, including volumes ne ve are suppose to start fillir tive or negative)?	eded by client		хто	
ave there been an oseidon tank is sup as client provided <i>Person:</i>	any operation	o the current schedu ere on Monday and v pnal feedback (posi	ule, including volumes ne ve are suppose to start fillir tive or negative)?	eded by client		хто	

Date.]	Date: 6/17/2012			Report Number: Unit Number:			12
						8	
TAND BY W	/AITING	ON TANK					
Client:		ХТО	[S	hift Onsite Time:	N/A	am/pm
Location:	٨	lash 29		Shift Offsite Time:		N/A	am/pm
Site Contact:	Bo	Jackson				0 Total	
Site Contact:	Pa	ul Worley	l	Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	cessing Hrs Today: 0 hrs		Cumulativ	Cumulative Processing Hrs:			hrs
	BBLS Processed Today: 0 bbls			BBLS Proces		<u>13 hrs</u> 5,452 bbls	
	BBLS/Hr Processed: #DIV/0!			BBLS/Hr Proc		419.4 bbl/hr	
DBEGANTITOC		#01010:	- Outifulative (5520/11/100	535CU.	-15.4	550011
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator			06:00				
Crew			08:00				
			10:00				
			12:00				
			14:00				
			16:00				
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	1,725	1,725	NO
-			Sodium Hydroxide	0	2,280	2,280	NO
Visitors:							
Visitors:							
Visitors:							
•							
ere there any abn	ormal opera	tional issues onsite	?				
one							
	onal supplie	s/equipment neede	d? If so, what items and w	vhen?			
	onal supplie	es/equipment neede	d? If so, what items and w	vhen?			
e there any additi	onal supplie	es/equipment needeo	d? If so, what items and w	vhen?			
one	· · ·				?		
one	y changes to	o the current schedu	d? If so, what items and w		?		
one ave there been an	y changes to	o the current schedu			?		
one ave there been an oseidon tank should	y changes to d arrive on M	o the current schedu onday.	ile, including volumes ne		?		
ave there been an oseidon tank should as client provided	y changes to d arrive on M	o the current schedu	ile, including volumes nee		?		
one we there been an iseidon tank should is client provided Person:	y changes to d arrive on M	o the current schedu onday.	ile, including volumes ne		?	хто	
ave there been an oseidon tank should as client provided	y changes to d arrive on M	o the current schedu onday.	ile, including volumes nee		?	хто	
ve there been an seidon tank should s client provided <i>Person:</i>	y changes to d arrive on M any operation	o the current schedu onday. onal feedback (posit	ile, including volumes nee		?	хто	

Date:	6/1	8/2012			Number:		13
		~~~~		Unit	Number:		8
STAND BY WA				ŕ			
Client:		ХТО			hift Onsite Time:	N/A	am/pm
Location:		ash 29		S	hift Offsite Time:	<u>N/A</u>	am/pm
Site Contact:		Jackson			·····	0	Total hrs.
Site Contact:	Pau	I Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs T		0 hrs		/e Processing		13 hrs	
BBLS Processed 1	-	0 bbls	Cumulative	e BBLS Proces	ssed:	5,45	52 bbls
BBLS/Hr Proces	sed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	419.4	bbl/hr
	Pou	I Worley	Poodings	flow back	Valts/Amps		Turbidity
Lead Supervisor: Lead Operator		en Erler	Readings: 06:00	HUW DALK	Volts/Amps	рН	Turbidity
			08:00		┨──────┤		<b> </b>
Crew	Ada	m Pollard				· · · · · · · · · · · · · · · · · · ·	<del> </del> :
			10:00				<u> </u>
			12:00				
			14:00				
			16:00		l		
			Chamieral	Lienge	Chart Inv		
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	1,725	1,725	NO
			Sodium Hydroxide	0	2,280	2,280	<u>NO</u>
Visitors:							
Visitors:	-						
Visitors:							
				4.1	· · · · · · · · · · · · · · · · · · ·		<u> </u>
Were there any abnorr	mal operat	ional issues onsite	?				
None							
Are there any addition	al supplies	s/equipment neede	d? If so, what items and v	when?			
None							
•							
	-						
Have there been any c	hanges to	the current schedu	ile, including volumes ne	eded by client	?		
			until 8:00, walls were not up				
Has client provided an	y operatio	nal feedback (posi	tive or negative)?				
Person:	<u> </u>		Company:			XTO	
N/A				•	<u>,                                    </u>		
Additional Carry	anto						
Additional Comm		iden lank to be inste	illed				
An lanks are full, Walli	iy un Pose	iuon tank to be insta	meu.				

					-			
Date:	6/19/	2012			Report	Number:	1	4
						umber:		8
STAND	BY WA	AITING	ON TA	NK				
Client:	ХТ	0	]		Shift O	nsite Time:	6:00	am/pm
Location:	Nast	า 29				ffsite Time:	N/A	am/pm
e Contact:	Bo Jac	ckson	1				0	Total hrs.
e Contact:	Paul V	Vorley	1		esent Onsit	e Activities:	PROCES	S WATER
	<u> </u>							
rocessing	Hrs Today	0 hrs	]	Cumulat	ive Proces	sing Hrs:	13	hrs
BLS Proce	ssed Toda	0 bbls		Cumulati	ve BBLS P	rocessed:	5,452	bbls
BBLS/Hr F	Processed:	#DIV/0!	]	Cumulative	BBLS/Hr	Processed	419.4	bbl/hr
L Supervisor:	Paul V	Vorley	]	Readings:	flow back	Volts/Amps	рН	Turbidity
d Operator	Adam I	Pollard		06:00				
Crew				08:00				
				10:00				
				12:00				
				14:00				
				16:00				
				Chemical	Usage	Start Inv.	End Inv.	On Order
				HcL Acid	0	1,725	1,725	NO
			So	dium Hydrox	0	2,280	2,280	NO
Visitors:								
Visitors:								
Visitors:								
Were there	any abnor	mal operat	tional issue	s onsite?				
None								
1								
Are there a	any addition	al supplie	s/equipmer	nt needed?	lf so, what	items and	when?	
None								
Have there	been any o	hanges to	the curren	t schedule,	including	volumes ne	eded by c	ient?
	Poseidon ta							
Has client	provided an	ny operatio	nal feedba	ck (positive	or negativ	/e)?		
Person:				Company :			XTO	
N/A				<u> </u>				
A	Comment					-		
	Comments are full .waiti	na on Door	idon topk t	he comple	to			
All tariks a	n⊎ iui .WdHi	ng un Puse	айон тапк те	, ne comple	c			

Date:	6/	20/2012		Report	Number:		15
				Unit N	Number:		8
Ollert	·····	XTO 1			hift Oncite Time	E.00	
Client: Location:		XTO lash 29			hift Onsite Time:	5:00 0:00 PM	am/pm
Site Contact:		Jackson			hift Offsite Time:	9:00 PM 0	am/pm Total hrs
Site Contact:		ul Worley		Present	Onsite Activities:		SS WATER
	ra			Plesell	Unalle Autvilles.		
Processing Hr	s Today:	0 hrs	Cumulativ	ve Processing	Hrs:	13	hrs
BBLS Processe		0 bbls		e BBLS Proces		5,45	2 bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	419.4	bbl/hr
		·	·	<u> </u>	4		
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		m Pollard	06:00	·	· · · · · · · · · · · · · · · · · · ·		
Crew			08:00				
			10:00				
			12:00				
			14:00		<u> </u> †		
			16:00	1	+		·
					<b>ا</b> ــــــــــــــــــــــــــــــــــــ		
			Chemical	Usage	Start Inv.	End Inv.	On Orde
	· · · · ·		HcL Acid	0	1,725	1,725	YES
			Sodium Hydroxide	0	2,280	2,280	YES
Visitors:	BO	JACKSON		<u> </u>		_,	
Visitors:				<u> </u>			·····
Visitors:				<u> </u>			
				· · · ·	۰		L
		<u></u>					
ere there any abn	ormal operation	tional issues onsite	?				
		IN CLEAN TANK AN 2 ANOTHER PUMP.	ID PRESSURED UP ON L			OUR PUMP.	CALLED E
e there any addit	ional supplie	s/equipment neede	d? If so, what items and	when?			
		CID AND CAUSTIC			·····		
					- 1		
ave there been an	y changes to	the current schedu	ule, including volumes ne	eded by client	?		
<u> </u>							
	any operation	onal feedback (posi					
Person:			Company:			XTO	
A	nments	I					
A Additional Co		O AM REVIEWED J	SA WAITED ON POSEID	ON TANK FIN	ALLY READY FO	R WATER BU	T OUR PUN

	6/	21/2012		Report	Number:		16
				Unit N	lumber:		8
Client:		хто		c	hift Onsite Time:	5:30	am/pm
Location:	N	Nash 29			hift Offsite Time:	5:00 PM	am/pm
Site Contact:		Jackson			int onsite fille.	9	Total hrs
Site Contact:		ul Worley		Present (	Onsite Activities:		S WATER
						TROOLE	
Processing Hr	s Today:	9 hrs	Cumulativ	e Processing	Hrs:	13	hrs
BBLS Processe	d Today:	3,828 bbls	Cumulative	BBLS Proces	ssed:	5,45	2 bbls
BBLS/Hr Proc	essed:	425.3333333 Cumulative BBLS/Hr Processed:			419.4		
		<u>.                                    </u>	·				
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator		am Pollard	07:30		100	7.23	1.36
Crew		en Erler	09:30		100	6.98	1.23
			11:30		100	6.43	1.05
			13:30		100	6.23	0.98
			15:30		100	6.76	1.31
			16:30		100	6.81	1.03
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	213	1,725	1,512	YES
·			Sodium Hydroxide	295	2,280	1,985	YES
Visitors:	BO .	JACKSON					
Visitors:							
Visitors:							
re there any abn	ormal operat	tional issues onsite?	)				
ere there any ability							
)							
						<u>.</u>	
	onal supplie	s/equipment needed	? If so, what items and v	when?			
there any additi	onal supplie	s/equipment needed	? If so, what items and v	vhen?			
, 	onal supplie	s/equipment needed	? If so, what items and v	vhen?			
there any additi	onal supplie	s/equipment needed	? If so, what items and v	vhen?			
e there any additi			1? If so, what items and v		?		
e there any additi					?		
e there any additi					?		
e there any additi					?		
e there any additi	y changes to		le, including volumes ne		?		
e there any additi	y changes to	o the current schedul	le, including volumes ne		?	хто	
there any additi , ve there been an , s client provided	y changes to	o the current schedul	le, including volumes ne ve or negative)?		?	хто	
e there any additi ve there been an s client provided <i>Person:</i>	y changes to	o the current schedul	le, including volumes ne ve or negative)?		?	хто	
e there any additi ve there been an s client provided <i>Person:</i>	y changes to any operatio	o the current schedul	le, including volumes ne ve or negative)?		?	XTO	

Date:	6/	22/2012		Report	Number:		17
					lumber:		8
Client:		хто			hift Onsite Time:	5:30	
Location:	N	lash 29			hift Offsite Time:	12:00 AM	am/pm am/pm
Site Contact:		Jackson		3	int onsite nine.	12.00 AM 11	Total hrs
Site Contact:		ul Worley		Present	Onsite Activities:		SWATER
				1100011	Charle / Idi Video.		O WITEI
Processing Hrs	Today:	11 hrs	Cumulativ	e Processing	Hrs:	33	hrs
BBLS Processed	d Today:	3,555 bbls	Cumulative	BBLS Proces	ssed:	12,835 bbls	
BBLS/Hr Proce	essed:	323.1818182	Cumulative	BBLS/Hr Proc	essed:	388.9	bbl/hr
			· · · · · · · · · · · · · · · · · · ·		I		· · · ·
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator	Ada	m Pollard	07:30		100	6.57	1.63
Crew	K	en Erler	09:30		100	6.87	1.87
	F	Ray Lee	11:30		100	6.43	1.19
	Eddy	/ McGruder	13:30		100	7.02	1.98
			15:30		100	7.1	1.32
			16:30		100	6.79	1.27
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	197	1,512	1,315	YES
			Sodium Hydroxide	262	1,985	1,723	YES
Visitors:	BO .	JACKSON					
Visitors:							
Visitors:				l			
		tional issues onsite?	<b>)</b>				
AD TO REPLACE A	CID PUMP						
			·····				
					· · · · · · · · · · · · · · · · · · ·		
	onal supplie	eloquinmont noodod		whon?			
		Siequipment neeueu	? If so, what items and v				
		s/equipment needed	? If so, what items and v				
			? If so, what items and t				
e there any additio							
) ive there been any			e, including volumes ne		?		
) ve there been any					?		
<u> </u>					?		
) ve there been any )	r changes to	) the current schedul	le, including volumes ne		?		
) ve there been any ) is client provided	r changes to		le, including volumes ne ve or negative)?		?		
there been any there been any client provided Person:	r changes to	) the current schedul	le, including volumes ne		?	ХТО	
) there been any ) as client provided	r changes to	) the current schedul	le, including volumes ne ve or negative)?		?	хто	
there been any there been any s client provided <i>Person:</i>	o changes to	) the current schedul	le, including volumes ne ve or negative)?		?	хто	
ve there been any s client provided Person:	any operation	) the current schedu onal feedback (positi	le, including volumes ne ve or negative)?	eded by client		<u> </u>	

Date:	6/2	23/2012		Report	Number:		18	
	·				lumber:		8	
		VTO 1						
Client:		XTO			hift Onsite Time:	5:00	am/pm	
Location:		ash 29		S	hift Offsite Time:	5:00 AM	am/pm	
Site Contact: Site Contact:	L	Jackson Il Worley		Dragont	Onsite Activities:	23	Total hrs S WATER	
Site Contact:	Pat	n woney		Present	Unsite Activities:	PROCES	5 WATER	
Processing Hr	rs Today:	23 hrs	Cumulativ	e Processing	Hrs:		hrs	
BBLS Processe		7,541 bbls		BBLS Proces		20,37	6 bbls	
BBLS/Hr Prod		327.8695652	Cumulative	BBLS/Hr Proc	essed:	363.9	63.9 bbl/hr	
Lead Supervisor:	Pau	I Worley	Readings:	flow back	Volts/Amps	pН	Turbidity	
Lead Operator		m Pollard	07:00		100	7.23	1.98	
Crew	Ke	en Erler	13:00		100	6.97	1.76	
	R	ay Lee	19:00		100	6.72	1.56	
	Eddy	McGruder	23:00		100	7.15	1.87	
			2:00		100	6.45	1.45	
			4:00		100	6.81	1.51	
			Chemical	Usage	Start Inv.	End Inv.	On Orde	
			HcL Acid	416	1,315	899	YES	
			Sodium Hydroxide	590	1,723	1,133	YES	
Visitors:	BO J	JACKSON						
Visitors:								
Visitors:								
			2					
/ere there any abr	normal operat	ional issues onsite						
Vere there any abr	normal operat	ional issues onsite						
0								
O re there any addit			l? If so, what items and v	vhen?				
0				vhen?				
O re there any addit				vhen?				
O re there any addit O	ional supplies	s/equipment needec	l? If so, what items and v					
O re there any addit O ave there been an	ional supplies	s/equipment needec			?			
O re there any addit O	ional supplies	s/equipment needec	l? If so, what items and v		?			
O re there any addit O ave there been an	ional supplies	s/equipment needec	l? If so, what items and v		?			
O re there any addit O ave there been ar O	ional supplies	s/equipment needec	I? If so, what items and v le, including volumes ne		?			
O re there any addit O ave there been ar O as client provideo	ional supplies	s/equipment needec	I? If so, what items and v le, including volumes ne ive or negative)?		?			
O re there any addit O ave there been ar O as client provideo <i>Person:</i>	ional supplies	s/equipment needec	I? If so, what items and v le, including volumes ne		?	XTO		
O re there any addit O ave there been ar O as client provideo	ional supplies	s/equipment needec	I? If so, what items and v le, including volumes ne ive or negative)?		?	хто		
O re there any addit O ave there been ar O as client provideo <i>Person:</i>	ional supplies	s/equipment needec	I? If so, what items and v le, including volumes ne ive or negative)?		?	XTO		

Date:	6/:	24/2012		Report	Number:		19
<u></u>	· · · ·				lumber:		8
Client:		XTO			hift Onsite Time:	5:00	am/pm
Location:		lash 29		S	hift Offsite Time:	1:30 PM	am/pm
Site Contact:		Jackson			-	8	Total hrs
Site Contact:	Pai	ul Worley		Present	Onsite Activities:	PROCES	S WATER
Processing Hrs	s Today:	8 hrs	Cumulativ	ve Processing	Hrs:	64 hrs	
BBLS Processe		3,806 bbls		e BBLS Proces		24,182 bbls	
BBLS/Hr Proc		475.75		BBLS/Hr Proc		377.8 bbl/hr	
		·					
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator		m Pollard	07:00		100	6.89	1.89
Crew		en Erler	09:00		100	7.03	1.45
	R	Ray Lee	11:00		100	7.09	1.76
ĺ		McGruder	13:00		100	6.97	1.94
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	213	899	686	YES
L			Sodium Hydroxide	295	1,133	838	YES
Visitors:	BO .	JACKSON					
Visitors:							
Visitors:			-				
<b>/ere there any abn</b> O	ormal operat	tional issues onsite	?				
e there any additi	onal supplie	s/equipment neede	d? If so, what items and v	when?		······································	
0		•••					
ave there been an	y changes to	the current schedu	Ile, including volumes ne	eded by client	?		
	y changes to	the current schedu	lle, including volumes ne	eded by client	?		
	y changes to	the current schedu	Ile, including volumes ne	eded by client	?	<u>_</u>	
	y changes to	the current schedu	ile, including volumes ne	eded by client	?		
0		the current schedu		eded by client	?		
D				eded by client	?		
O as client provided Person:			tive or negative)?	eded by client	?	хто	······
O as client provided			tive or negative)?	eded by client	?	хто	······································
O as client provided Person: /A	any operatio		tive or negative)?	eded by client	?	хто	······
as client provided Person: A Additional Cor	any operatic	onal feedback (posi	tive or negative)?				CLEAN

Date:	6/2	25/2012		Report	Number:		20
				Unit N	lumber:		8
Client:		хто		c	hift Onsite Time:	6:00	am/pm
Location:		ash 29			hift Offsite Time:	5:00 PM	am/pm
Site Contact:		Jackson			mit Offsite fime.	11	Total hrs.
Site Contact:		Il Worley		Present (	Onsite Activities:		ROCESS WATER
one contact.				- Tresent	onate / touvites.	· · · · · · · · ·	
Processing Hrs T	oday:	4 hrs	Cumulativ	ve Processing	Hrs:		75 hrs
BBLS Processed T	-	1,450 bbls		e BBLS Proces			25,632 bbls
BBLS/Hr Proces		362.5		BBLS/Hr Proc			341.8 bbl/hr
Lead Supervisor:	Pau	I Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		m Pollard	07:00		100	6.97	1.67
Crew	Ke	en Erler	09:00		100	7.13	1.89
	R	ay Lee	11:00		100	6.89	1.45
	Eddy	McGruder	12:30		100	6.57	1.72
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			Chomical	licano	Start Inv	Endlow	On Order
			Chemical HcL Acid	Usage 115	Start Inv. 5,686	End Inv.	RECEIVED 5000 GALS
			Sodium Hydroxide	115	220	5,571 70	YES
Visitors:	BO	IACKSON	Soulum Hydroxide	150	220	70	163
Visitors:	00.3	ACROON					
Visitors:							
tialiora.							
ere there any abnorr	nal operat	ional issues onsite	?				
	al supplie	s/equipment neede	d? If so, what items and	when?			
e there any addition		s/equipment neede					
e there any addition		arequipment neede					
•		sequipment neede					
)	4 -						
) ve there been any c	hanges to		lle, including volumes ne	eded by clien	17		
)	hanges to		ile, including volumes ne	eded by clien	t?		
) ve there been any c	hanges to		ile, including volumes ne	eded by clien	17		
) ve there been any c )		the current schedu		eeded by clien	t?		
) ve there been any c		the current schedu		eeded by clien	t?		0
) ve there been any c ) is client provided an		the current schedu	tive or negative)?	eeded by clien	t?	XT	0
ve there been any c ) is client provided an Person:		the current schedu	tive or negative)?	eeded by clien	t?	TX	0
ve there been any c ) is client provided an Person:	y operatic	the current schedu	tive or negative)?	eded by clien	t?	XT	0
ve there been any c be client provided an <i>Person:</i> A A Additional Comm <i>E ARRIVED AT LOCA</i>	ents	the current schedu onal feedback (posi 6:00 AM. COMPLET	tive or negative)?	. INSTALLED C	CLEANED CELLS	AND STARTE	D PROCESSING WATER

	6/	26/2012			Number:		21
				Unit N	lumber:		8
	· ·						
Client:	<u> </u>	ХТО			hift Onsite Time:	6:00	am/pm
Location:		ash 29		SI	hift Offsite Time:	5:00 PM	am/pm
Site Contact:		Jackson				0	Total hrs.
Site Contact:	• • • • • • • • • • • • • • • • • • •	ul Worley		Present	Onsite Activities:	PROCE	SS WATER
MAINTENA						_	
Processing H		0 hrs		e Processing		75	
BBLS Process		1,450 bbls		BBLS Proces			32 bbls
BBLS/Hr Pro	cessed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.	8 bbl/hr
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator			N/A		N/A	N/A	N/A
Crew			N/A			N/A	N/A
· ·····			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	5,686	5,686	CEIVED 5000 G
			Sodium Hydroxide	0	1,000	1,000	YES
Visitors:	BO .	JACKSON					
Visitors:							
V1511015.							
Visitors:							
			<u></u>				
Visitors:			L				·
Visitors: Were there any abi	normal operat	tional issues onsite	?				·
Visitors:	normal operat	tional issues onsite	?				
Visitors: Were there any abi	normal operat	tional issues onsite	?				<u></u>
Visitors: Were there any abi	normal operat	tional issues onsite	?				
Visitors: Were there any abi				when?			
Visitors: Were there any abi			? d? If so, what items and y	when?			······
Visitors: Were there any abi NO Are there any addit				when?			······································
Visitors: Were there any abo NO Are there any addit	tional supplie	s/equipment needer	d? If so, what items and v				
Visitors: Were there any abi NO Are there any addi NO Have there been a	tional supplie	s/equipment needer			?		
Visitors: Were there any abo NO Are there any addit	tional supplie	s/equipment needer	d? If so, what items and v		?		
Visitors: Were there any abi NO Are there any addi NO Have there been a	tional supplie	s/equipment needer	d? If so, what items and v		?		
Visitors: Were there any abo NO Are there any addit NO Have there been at	tional supplie	s/equipment needer	d? If so, what items and v le, including volumes ne		?		
Visitors: Were there any abo NO Are there any addit NO Have there been at	tional supplie	s/equipment needer	d? If so, what items and v ile, including volumes ne tive or negative)?		?	XTO	
Visitors: Were there any abi NO Are there any addi NO Have there been at NO Has client provided	tional supplie	s/equipment needer	d? If so, what items and v le, including volumes ne		?		
Visitors: Were there any abi NO Are there any addi NO Have there been at NO Has client provided <i>Person:</i> N/A	tional supplie by changes to d any operatio	s/equipment needer	d? If so, what items and v ile, including volumes ne tive or negative)?		?	XTO	
Visitors: Were there any abi NO Are there any addit NO Have there been at NO Has client provided <i>Person:</i> N/A Additional Co	tional supplie ny changes to d any operatio	s/equipment needer	d? If so, what items and v ile, including volumes ne tive or negative)?	eded by client			

Date:	6/	/27/2012		Report	Number:		22	
	· ·	•••••••••••••••••••••••••••••••••••••••			Number:		8	
Client:		XTO		S	hift Onsite Time:	6:00	am/pm	
Location:	N	Nash 29		S	hift Offsite Time:	5:00 PM	am/pm	
Site Contact:		Jackson				0	Total hrs.	
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCE	SS WATER	
Processing Hr		0 hrs	Cumulativ	ve Processing	Hrs:	75	hrs	
BBLS Processe		1,450 bbls		Cumulative BBLS Processed: 25,632				
BBLS/Hr Proc		#DIV/0!		BBLS/Hr Proc		341.8 bbi/hr		
				<u>DDE0/11 1100</u>				
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity	
Lead Operator			N/A		N/A	N/A	N/A	
Crew			N/A		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
							1	
		<u> </u>	Chemical	Usage	Start Inv.	End Inv.	On Order	
			HcL Acid	0	5,686	5,686	CEIVED 5000	
		100/000	Sodium Hydroxide	0	1,000	1,000	YES	
Visitors:	BO	JACKSON						
Visitors:			······					
Visitors:					l		I	
				<u> </u>				
Voro there any ahr	ormal opera	tional issues onsite						
vere mere any apri IO	ormai opera	tional issues onsite	ſ					
					- · · · · · · · · · · · · · · · · · · ·			
re there any addit	ional sunnlie	s/equinment needer	d? If so, what items and v	when?				
lo	ional supplie	is/equipment needet			·····			
		<u> </u>						
lave there been an	y changes to	o the current schedu	le, including volumes ne	eded by client	t?			
10								
	any operation	onal feedback (posit		<del></del>	·····			
			Company:	L	l	XTO		
Person:								
Person: I/A		I						
Person: //A Additional Cor		AM CHECKED ALL	VALVES AND TANKS IN					

Date:	6/	28/2012		Report	Number:		23
Date.		20/2012			Number:		8
							0
Client:		хто		S	hift Onsite Time:	N/A	am/pm
Location:	N	ash 29		S	hift Offsite Time:	N/A	am/pm
Site Contact:	Bo	Jackson				0	Total hrs.
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCE	SS WATER
STAND B	Y						
Processing Hr	s Today:	0 hrs	Cumulativ	ve Processing	Hrs:	75	hrs
BBLS Processe	d Today:	1,450 bbls	Cumulativ	e BBLS Proces	ssed:	25,6	32 bbls
BBLS/Hr Proc		#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.8	3 bbi/hr
Lead Supervisor:	Pau	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			N/A		N/A	N/A	N/A
Crew			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
				-			
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	5,686	5,686	CEIVED 5000 G
			Sodium Hydroxide	0	1,000	1,000	YES
Visitors:	BO .	JACKSON					
Visitors:							
Visitors:							
Were there any abn	ormal operat	ional issues onsite	?				
NO	•						A
Are there any addit	ional supplie	s/equipment neede	d? If so, what items and	when?			
NO							
Have there been an	y changes to	the current schedu	ule, including volumes ne	eded by client	t?		
NO	<u> </u>		<b>_</b>				
Has client provided	any operatio	onal feedback (posi	tive or negative)?				
Person:			Company:			ХТО	
N/A			· · · · · · · · · · · · · · · · · · ·	-	-		
Additional Co	mments						
			STARTING BACK UP ON			RAC ON THE	20TH DUE
TO POSSIBLE BAC	TERIA GROV	/TH WE WILL WAIT	UNTIL CLOSER TO THE	FRAC DATE			

	6/2	29/2012		Report	Number:		24	
				Unit N	lumber:		8	
Client:		хто		C	hift Onsite Time:	NI/A		
Location:	<u> </u>	lash 29			hift Offsite Time:	N/A N/A	am/pm am/pm	
Site Contact:		Jackson		3	fint Onsite Time.	0	Total hrs.	
Site Contact:		ul Worley		Present	Onsite Activities:	-	SS WATER	
STAND B			·					
Processing H		0 hrs	Cumulativ	e Processing	Hrs:	75	hrs	
BBLS Process		1,450 bbls		BBLS Proces			32 bbls	
BBLS/Hr Pro	,	#DIV/0!	Cumulative BBLS/Hr Processed:			341.8 bbl/hr		
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	pH	Turbidity	
Lead Operator			N/A		N/A	N/A	N/A	
Crew			N/A		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
			N/A	· · · · · · · · · · · · · · · · · · ·	N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
			Chemical	Usage	Start Inv.	End Inv.	On Order	
			HcL Acid	0	5,686	5,686	CEIVED 5000	
			Sodium Hydroxide	0	1,000	1,000	YES	
Visitors:	BO .	JACKSON						
Visitors:	<u> </u>							
Visitors:	<u> </u>							
		·····						
Vere there any abr	ormal operat	tional issues onsite	?					
10	ional supplie	s/equipment needed	d? If so, what items and v	vhen?				
NO Are there any addit	ional supplie	s/equipment needed	d? If so, what items and v	vhen?				
NO	ional supplie	s/equipment needed	d? If so, what items and v	vhen?				
NO Are there any addit					2			
NO Are there any addit NO Have there been ar			d? If so, what items and v le, including volumes ne		?			
NO Are there any addit NO Have there been ar					?			
NO Are there any addit NO Have there been ar	ny changes to	the current schedu	ıle, including volumes ne		?			
NO Are there any addit NO Have there been ar NO Has client provided	ny changes to		ile, including volumes ne ive or negative)?		?			
NO Are there any addit NO Have there been ar	ny changes to	the current schedu	ıle, including volumes ne		?	хто		

Date:	6/	30/2012		Report	Number:		25
1					lumber:		8
							· · · · · · · ·
Client:		XTO		S	hift Onsite Time:	N/A	am/pm
Location:	N	lash 29		S	hift Offsite Time:	N/A	am/pm
Site Contact:	Bo	Jackson				0	Total hrs.
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCE	SS WATER
STAND BY	,						
Processing Hrs	Today:	0 hrs	Cumulativ	ve Processing	Hrs:	75	hrs
BBLS Processed	Today:	0 bbls	Cumulative	e BBLS Proce	ssed:	25,6	32 bbls
BBLS/Hr Proce	ssed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.	8 bbl/hr
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			N/A		N/A	N/A	N/A
Crew			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
	<u>_</u>		N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
				-			
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	120	5,686	5,566	CEIVED 5000 G
			Sodium Hydroxide	100	1,000	900	YES
Visitors:	BO .	JACKSON					
Visitors:							
Visitors:							
		· · · · · · · · · · · · · · · · · · ·					
Were there any abno	rmal operat	tional issues onsite	?				
NO							
	nal supplie	s/equipment neede	d? If so, what items and v	when?			
NO							
	changes to	the current schedu	ule, including volumes ne	eded by client	?		
NO							
Has client provided a	nu onoratio	nal foodback (nooi	tive or possible)?				
Person:	iny operation	inal reeuback (posi	Company:	1			
N/A	· · ·		l company.	I		XTO	
Additional Com							
			STARTING BACK UP ON		JLY FOR THE FF	AC ON THE	20TH DUE
TO POSSIBLE BACTE	RIA GROU	VIH WE WILL WAIT	UNTIL CLOSER TO THE	FRAC DATE			

Date:	7/	1/2012		Report	Number:		26	
				Unit N	lumber:		8	
				r			· · · · · · · · · · · · · · · · · · ·	
Client:		хто			hift Onsite Time:	3:00	am/pm	
Location:		ash 29		S	hift Offsite Time:	9:30 PM	am/pm	
Site Contact:		Jackson				6	Total hrs.	
Site Contact:	Pau	I Worley		Present	Onsite Activities:	PROCE	SS WATER	
Processing Hrs	s Today:	6 hrs	Cumulativ	e Processing	Hrs:	81	hrs	
BBLS Processe	d Today:	1,650 bbls	Cumulative	BBLS Proce	ssed:	28,9	32 bbls	
BBLS/Hr Proc	essed:	275	Cumulative	Cumulative BBLS/Hr Processed:				
Lead Supervisor:	Pau	l Worley	Readings:	flow back	Volts/Amps	рН	Turbidity	
Lead Operator		AY LEE	0500		100	6.67	0.87	
Crew		MCGRUBER	0700		100	6.73	0.98	
			0900		100	6.91	1.03	
			N/A		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
-			Chemical	Usage	Start Inv.	End Inv.	On Order	
			HcL Acid	120	5,686	5,566	CEIVED 5000	
L			Sodium Hydroxide	100	1,000	900	YES	
Visitors:								
Visitors:								
Vere there any abn IO	ormal operat	ional issues onsite	?					
re there any additi	onal supplies	s/equipment needer	d? If so, what items and v	when?				
lave there been an IO	y changes to	the current schedu	lle, including volumes ne	eded by client	?			
las client provided	any operatio	nal feedback (posit	tive or negative)?					
Person:			Company:			XTO		
I/A								
	TION AT 3:00		A DAVID LUNA CALLED					
ULL AND WE NEE	JED TO RUN	WATER TO GET TA	ANKS DOWN. AFTER INV	ESTIGATING	FOUNDOULIM	AIA VALVI	= WAS	

Date:	7/	/2/2012		Report	Number:		27
				Unit I	Number:		8
							<b>.</b>
Client:		ХТО		5	hift Onsite Time:	N/A	am/pr
Location:	N	lash 29		S	hift Offsite Time:	N/A	am/pr
Site Contact:		Jackson				0	Total h
Site Contact:		ul Worley	i	Present	Onsite Activities:	PROCES	SS WATEF
TAND B	ľ						
Processing Hrs		0 hrs	Cumulativ	e Processing	Hrs:	75	hrs
BBLS Processe	d Today:	0 bbls	Cumulative	25,63	32 bbls		
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.8	bbl/hr
Lead Supervisor:		ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidi
Lead Operator			N/A		N/A	N/A	N/A
Crew			N/A		N/A	N/A	N/A
diet.			N/A		N/A	N/A	N/A
-			N/A		N/A	N/A	N/A
F			N/A		N/A	N/A	N/A
F			N/A		N/A	N/A	N/A
		_	Chemical	Usage	Start Inv.	End Inv.	On Orc
ſ			HcL Acid	0	5,556	5,556	
			Sodium Hydroxide	0	900	900	
Visitors:	BO .	JACKSON					
Visitors:							
Visitors:							
	ormal operation	tional issues onsite	?				
	ormai opera						
)							
) e there any addition			ed? If so, what items and v	vhen?			
) e there any addition				vhen?			
) e there any addition				vhen?			
) e there any addition	onal supplie	es/equipment neede			1?		
e there any addition	onal supplie	es/equipment neede	ed? If so, what items and v		1?		
)	onal supplie	es/equipment neede	ed? If so, what items and v		1?		
) e there any additi ) ive there been any )	onal supplie y changes to	es/equipment neede	ed? If so, what items and v ule, including volumes ne		1?		
e there any additi ) ive there been any ) is client provided	onal supplie y changes to	es/equipment neede	ed? If so, what items and v ule, including volumes ne itive or negative)?		t?	XTO	
e there any addition	onal supplie y changes to	es/equipment neede	ed? If so, what items and v ule, including volumes ne		t?	XTO	
e there any additi ve there been any s client provided <i>Person:</i>	onal supplie y changes to any operatio	es/equipment neede	ed? If so, what items and v ule, including volumes ne itive or negative)?		t?	XTO	

Date:	7/	3/2012		Report	Number:		28
<b>_</b>					lumber:		8
Client:		хто		s	hift Onsite Time:	N/A	am/pm
Location:	N	ash 29			hift Offsite Time:	N/A	am/pm
Site Contact:		Jackson				0	Total hrs.
Site Contact:		I Worley		Present	Onsite Activities:		SS WATER
STAND BY					· · · · · · · · · · · · · · · · · · ·		
Processing Hrs	Today:	0 hrs	Cumulativ	/e Processing	Hrs:	75	hrs
BBLS Processed		0 bbls		e BBLS Proces			32 bbls
BBLS/Hr Proc		#DIV/0!	Cumulative	BBLS/Hr Proc	essed:		3 bbl/hr
					I		
Lead Supervisor:	Pau	al Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator			N/A		N/A	N/A	N/A
Crew			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
Γ			N/A		N/A	N/A	N/A
i T			N/A		N/A	N/A	N/A
Γ			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	5,566	5,566	
_			Sodium Hydroxide	0	900	900	
Visitors:	BO 、	JACKSON					
Visitors:							
Visitors:							
Were there any abno	ormal operat	ional issues onsite	?	-			
NO							
Are there any addition	onal supplie	s/equipment neede	d? If so, what items and v	when?			
NO							
Have there been any	/ changes to	the current schedu	ule, including volumes ne	eded by client	?		
NO							
Has client provided	any operatio	nal feedback (posi	tive or negative)?				
Person:			Company:			XTO	
N/A							
Additional Corr	ments					<u> </u>	
		ND TANKSTOOK S	SAMPLES TO HOBBS LAE	TO CHECK F	OR BACTERIA GI	ROWTH.	

				Report Number:         29           Unit Number:         8				
					Number:		8	
Client:		хто		(	hift Onsite Time:	NI/A	<u></u>	
Location:	N	ash 29			hift Offsite Time:	N/A N/A	am/pm am/pm	
Site Contact:		Jackson			nin Onsite nine.	0 Total h		
Site Contact:		J Worley		Present	Onsite Activities:	PROCESS WATER		
STAND BY				Trosent	onoite / louvilles.]			
Processing Hrs		0 hrs	Cumulati	ve Processing	Hrs:	75	hrs	
BBLS Processed		0 bbls		e BBLS Proces	the second s	25,632 bbls		
BBLS/Hr Proce	essed:	#DIV/0!	Cumulative BBLS/Hr Processed:				bbl/hr	
Lead Supervisor:	Pa	I Worley	Readings:	flow back	Volts/Amps	рН	Turbidit	
Lead Operator			N/A		N/A	N/A	N/A	
Crew			N/A		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
L			N/A		N/A	N/A	N/A	
L			N/A		N/A	N/A	N/A	
F			N/A		N/A	N/A	N/A	
-			Chemical	Usage	Start Inv.	End Inv.	On Orde	
			HcL Acid	0 OSage	5,566	5,566	On Orde	
L			Sodium Hydroxide	0	900	900		
Visitors:	BO	JÄCKSON	- Social Hydroxide		500			
Visitors:								
Visitors:				1	• · ·			
				1	· · · · · ·		· · · · · · · · · · · · · · · · · · ·	
		innel lanua anala						
Vere there any abno	rmai operat	ional issues onsite						
0								
	onal supplie	s/equipment neede	d? If so, what items and	when?				
10								
			· ·					
lave there been any	changes to	the current schod	ule, including volumes no	adad by client	· · · · · · · · · · · · · · · · · · ·			
lo	changes to	the current sched	the, including volumes in	eeded by chem	. :		·	
• <u>•</u> ••••••••••••••••••••••••••••••••••								
las client provided a	any operatio	nal feedback (posi	tive or negative)?					
Person:	•		Company:			XTO		
I/A								
Additional Com								

Date:	7	/5/2012		Report	Number:		30
					lumber:		8
Client:		XTO		S	hift Onsite Time:	N/A	am/pm
Location:	Ν	lash 29		S	hift Offsite Time:	N/A	am/pm
Site Contact:	Во	Jackson				0	Total hrs.
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
STAND B	Y						
Processing Hrs	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	75	hrs
BBLS Processe	d Today:	0 bbls		e BBLS Proces		25,63	32 bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.8	bbl/hr
				_			
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			N/A		N/A	N/A	N/A
Crew			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			p				<b>,</b>
			Chemical	Usage	Start Inv.	End Inv.	On Order
l l			HcL Acid	0	5,566	5,566	
Г			Sodium Hydroxide	0	900	900	
Visitors:	BO	JACKSON					
Visitors:							
Visitors:						<u></u>	
			-				
Were there any abn NO	ormal opera	tional issues onsite	?				
NO							
Are there any additi	onal supplie	s/equipment neede	d? If so, what items and v	when?			
NU							
						<u> </u>	
					2		
Have there been any	changes to	the current scheat	ule, including volumes ne	eded by client			
Has client provided	any operatio	nal feedback (nosi	tive or negative)?				· · · · · · · · · · · · · · · · · · ·
Person:	any operation	Inconsider (posi	Company:	l		хто	
N/A					L		
Additional Con	ments	-				· · · · ·	
		H OF JULY FOR TH	E FRAC ON THE 20TH	DUE TO POSS	IBLE BACTERIA	GROWTH WI	É WILL WAIT
UNTIL CLOSER TO							

Date:	7,	/6/2012		Report	Number:		31
<b></b>					lumber:		8
					I		
Client:		ХТО		S	hift Onsite Time:	N/A	am/pm
Location:	Ν	lash 29		S	hift Offsite Time:	N/A	am/pm
Site Contact:	Во	Jackson				0	Total hrs.
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
STAND BY							
Processing Hrs T	oday:	0 hrs	Cumulativ	e Processing	Hrs:	75	hrs
BBLS Processed T	oday:	0 bbls	Cumulative	BBLS Proces	ssed:	25,63	32 bbls
BBLS/Hr Process	sed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.8	bbl/hr
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			N/A		N/A	N/A	N/A
Crew			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	5,566	5,566	
			Sodium Hydroxide	0	900	900	
Visitors:	BO	JACKSON					
Visitors:							
Visitors:							
Were there any abnorr	nal opera	tional issues onsite	?				
NO							
Are there any addition	al supplie	s/equipment needed	d? If so, what items and v	when?			
NO			i	· · ·			-
Have there been any c	hanges to	the current schedu	le, including volumes ne	eded by client	?		
NO							
			·····				
Has client provided an	y operatio	onal feedback (posit	ive or negative)?				
Person:		······································	Company:			хто	
N/A			· · · · ·	•			······································
Additional Comm	ents			· · · · ·	-		
STARTING BACK UP C	N THE 97	H OF JULY FOR TH	E FRAC ON THE 20TH	DUE TO POSS	IBLE BACTERIA	GROWTH W	E WILL WAIT
UNTIL CLOSER TO TH	E FRAC D	ATE					

Processing Hrs Today:       0       hrs       Cumulative Proc         BBLS Processed Today:       0       bbls       Cumulative BBLS         BBLS/Hr Processed:       #DIV/0!       Cumulative BBLS/         Lead Supervisor:       Paul Worley       Readings:       flow         Lead Operator       N/A       N/A       N/A         Crew       N/A       N/A       N/A         N/A       N/A       N/A       N/A         Visitors:       BO JACKSON       N/A       N/A         Visitors:       Visitors:       N/A       N/A         Nome       Nome       Nome       N/A         Nome       Nome       Nome       N/A         Nome       Nome       Nome       N/A	Shif Present Or cessing Hr S Process	ft Onsite Time: ft Offsite Time: nsite Activities: nsite Activities: sed:	75	8 am/pr am/pr Total hr SS WATER hrs 32 bbls bbl/hr Turbidi N/A N/A N/A N/A N/A N/A
Location:       Nash 29         Site Contact:       Bo Jackson         Site Contact:       Paul Worley         TAND BY         Processing Hrs Today:       0 hrs         BBLS Processed Today:       0 bbls         BBLS/Hr Processed:       #DIV/0!         Lead Supervisor:       Paul Worley         Lead Supervisor:       Paul Worley         Readings:       flow         N/A       N/A         N/A       N/A         N/A       N/A         Crew       N/A         N/A       N/A         N/A       N/A         N/A       N/A         N/A       N/A         N/A       N/A         Chemical       Usitors:         Visitors:       BO JACKSON         Visitors:       Visitors:	Shif Present Or cessing Hr S Process Hr Process / back	ft Offsite Time: nsite Activities: rs: sed: volts/Amps N/A N/A N/A N/A N/A N/A N/A N/A Start Inv. 5,566	N/A 0 PROCES 25,63 341.8 PH N/A N/A N/A N/A N/A N/A N/A N/A S,566	am/pr Total h SS WATER hrs 32 bbls bbl/hr Turbidi N/A N/A N/A N/A N/A
Location:       Nash 29         Site Contact:       Bo Jackson         Site Contact:       Paul Worley         STAND BY         Processing Hrs Today:       0 hrs         BBLS Processed Today:       0 bbls         BBLS/Hr Processed:       #DIV/0!         Lead Supervisor:       Paul Worley         Lead Supervisor:       Paul Worley         Crew       N/A         N/A       N/A         N/A       N/A         Crew       N/A         N/A       N/A         Chemical       Usitors:         Visitors:       BO JACKSON         Visitors:       O         Visitors:       O         Sodium Hydroxide       O         Here any abnormal operational issues onsite?       O	Shif Present Or cessing Hr S Process Hr Process / back	ft Offsite Time: nsite Activities: rs: sed: volts/Amps N/A N/A N/A N/A N/A N/A N/A N/A Start Inv. 5,566	N/A 0 PROCES 25,63 341.8 PH N/A N/A N/A N/A N/A N/A N/A N/A S,566	am/pr Total h SS WATER hrs 32 bbls bbl/hr Turbidi N/A N/A N/A N/A N/A
Site Contact:       Bo Jackson         Site Contact:       Paul Worley         STAND BY         Processing Hrs Today:       0       hrs         BBLS Processed Today:       0       bbls       Cumulative Proc         BBLS/Hr Processed:       #DIV/0!       Cumulative BBLS/         Lead Supervisor:       Paul Worley       Readings:       flow         Lead Operator       N/A       N/A       N/A         Output       Readings:       flow         M/A       N/A       N/A       N/A         Output       Chemical       Usitors:       BO JACKSON         Visitors:       BO JACKSON       Output       Description	Present Or cessing Hr S Process Hr Process / back	nsite Activities: rs: sed: Volts/Amps N/A N/A N/A N/A N/A N/A N/A N/A	0 PROCES 25,63 341.8 PH N/A N/A N/A N/A N/A N/A N/A S,566	Total h SS WATER hrs 32 bbls bbl/hr Turbidi N/A N/A N/A N/A N/A
Site Contact:       Paul Worley       I         Processing Hrs Today:       0       hrs       Cumulative Proc         BBLS Processed Today:       0       bbls       Cumulative BBLS         BBLS/Hr Processed:       #DIV/0!       Cumulative BBLS/         Lead Supervisor:       Paul Worley       Readings:       flow         Lead Operator       N/A       N/A       N/A         Crew       N/A       N/A       N/A         N/A       N/A       N/A       N/A         Usitors:       BO JACKSON       Visitors:       Visitors:         Visitors:       BO JACKSON       Visitors:       Visitors:         visitors:       Nisitors:       Visitors:       Visitors:         visitors:       Visitors:       Visitors:       Vi	Sessing Hr S Process Hr Proces back	rs: sed: Ssed: Volts/Amps N/A N/A N/A N/A N/A N/A N/A Start Inv. 5,566	PROCES 75 25,63 341.8 PH N/A N/A N/A N/A N/A N/A N/A S,566	hrs hrs bbls bbl/hr Turbidi N/A N/A N/A N/A N/A
Processing Hrs Today:       0       hrs         BBLS Processed Today:       0       bls       Cumulative Proc         BBLS/Hr Processed:       #DIV/0!       Cumulative BBLS/         Lead Supervisor:       Paul Worley       Readings:       flow         Lead Operator       N/A       N/A       N/A         Crew       N/A       N/A       N/A         N/A       N/A       N/A       N/A         Chemical       Us       Usitors:       BO JACKSON       Nisitors:         Visitors:       BO JACKSON       Usitors:       Other and another and when?	Sessing Hr S Process Hr Proces back	rs: sed: Ssed: Volts/Amps N/A N/A N/A N/A N/A N/A N/A Start Inv. 5,566	75 25,63 341.8 PH N/A N/A N/A N/A N/A N/A End Inv. 5,566	hrs 32 bbls bbl/hr Turbidi N/A N/A N/A N/A N/A
Processing Hrs Today:       0       hrs       Cumulative Proc         BBLS Processed Today:       0       bbls       Cumulative BBLS         BBLS/Hr Processed:       #DIV/0!       Cumulative BBLS/         Lead Supervisor:       Paul Worley       Readings:       flow         Lead Operator       N/A       N/A       N/A         Crew       N/A       N/A       N/A         N/A       N/A       N/A       N/A         Visitors:       BO JACKSON       Usitors:       Usitors:         Visitors:       Visitors:       N       N/A         Dere there any abnormal operational issues onsite?       Deremotional supplies/equipment needed? If so, what items and when?	S Processe Hr Process / back	sed: ssed: N/A N/A N/A N/A N/A N/A N/A Start Inv. 5,566	25,63 341.8 PH N/A N/A N/A N/A N/A N/A End Inv. 5,566	32 bbls bbl/hr Turbidi N/A N/A N/A N/A N/A
BBLS Processed Today:       0       bbls       Cumulative BBLS         BBLS/Hr Processed:       #DIV/0!       Cumulative BBLS/         Lead Supervisor:       Paul Worley       Readings:       flow         Lead Operator       N/A       N/A       N/A         Crew       N/A       N/A       N/A         N/A       N/A       N/A       N/A         Visitors:       BO JACKSON       Sodium Hydroxide       Sodium Hydroxide         Visitors:       N       N       N/A       N/A         et there any abnormal operational issues onsite?       N       N/A       N/A	S Processe Hr Process / back	sed: ssed: N/A N/A N/A N/A N/A N/A N/A Start Inv. 5,566	25,63 341.8 PH N/A N/A N/A N/A N/A N/A End Inv. 5,566	32 bbls bbl/hr Turbidi N/A N/A N/A N/A N/A N/A
BBLS/Hr Processed:       #DIV/0!       Cumulative BBLS/         Lead Supervisor:       Paul Worley       Readings:       flow         Crew       N/A       N/A       N/A         N/A       N/A       N/A       N/A         Chemical       Us       HcL Acid       Sodium Hydroxide         Visitors:       Nisitors:       N/A       N/A       N/A         Provisitors:       Note:       N/A       N/A       N/A         Provisitors:       Note:       Note:       N/A       N/A         Provisitors:       Note:       Note:       Note:       Note:         Provisitor:       Note:       Note:       Note:       Note: <td>Hr Proces</td> <td>Volts/Amps N/A N/A N/A N/A N/A N/A Start Inv. 5,566</td> <td>341.8 pH N/A N/A N/A N/A N/A End Inv. 5,566</td> <td>bbl/hr Turbidi N/A N/A N/A N/A N/A N/A</td>	Hr Proces	Volts/Amps N/A N/A N/A N/A N/A N/A Start Inv. 5,566	341.8 pH N/A N/A N/A N/A N/A End Inv. 5,566	bbl/hr Turbidi N/A N/A N/A N/A N/A N/A
Lead Supervisor:       Paul Worley         Lead Operator       N/A         Crew       N/A         N/A       N/A         Sodium Hydroxide       N/A         Visitors:       N/A         Visitors:       N/A         Nisitors:       N/A         Noticital       N/A         Notic	/ back	Volts/Amps N/A N/A N/A N/A N/A N/A Start Inv. 5,566	pH N/A N/A N/A N/A N/A End Inv. 5,566	Turbidi N/A N/A N/A N/A N/A N/A
Lead Operator       N/A         Crew       N/A         N/A       N/A         Sodium Hydroxide       N/A         Visitors:       N/A         Visitors:       N/A         Noticital       N/A         Noticital       N/A         Noticital       N/A         Noticital       N/A         Noticital       N/A         Noticital       Noticital         Noticital       Noticital         Noticital       Noticital         Noticital       Noticit	Gage O	N/A N/A N/A N/A N/A Start Inv. 5,566	N/A N/A N/A N/A N/A End Inv. 5,566	N/A N/A N/A N/A N/A N/A
Lead Operator       N/A         Crew       N/A         N/A       N/A         Sodium Hydroxide       N/A         Visitors:       N/A         Visitors:       N/A         Noticital       N/A         Noticital       N/A         Noticital       N/A         Noticital       N/A         Noticital       N/A         Noticital       Noticital         Noticital       Noticital         Noticital       Noticital         Noticital       Noticit	Gage O	N/A N/A N/A N/A N/A Start Inv. 5,566	N/A N/A N/A N/A N/A End Inv. 5,566	N/A N/A N/A N/A N/A N/A
Crew       N/A         N/A       N/A         Chemical       Us         HcL Acid       Sodium Hydroxide         Visitors:       Visitors:         Visitors:       Visitors:         Pare there any abnormal operational issues onsite?       O         Pare there any additional supplies/equipment needed? If so, what items and when?	0	N/A N/A N/A N/A Start Inv. 5,566	N/A N/A N/A N/A End Inv. 5,566	N/A N/A N/A N/A N/A
N/A         Chemical         Usitors:         Visitors:         Visitors:         Visitors:         Nisitors:         Nother there any abnormal operational issues onsite?         Nother there any additional supplies/equipment needed? If so, what items and when?	0	N/A N/A N/A Start Inv. 5,566	N/A N/A N/A N/A End Inv. 5,566	N/A N/A N/A N/A
N/A         Chemical         Usitors:         Visitors:         Visitors:         Visitors:         Image: Section of the section of	0	N/A N/A N/A Start Inv. 5,566	N/A N/A N/A End Inv. 5,566	N/A N/A N/A
N/A         N/A         N/A         N/A         N/A         N/A         N/A         N/A         N/A         Chemical         Usitors:         Visitors:         Visitors:         Visitors:         Visitors:         ere there any abnormal operational issues onsite?         O	0	N/A N/A Start Inv. 5,566	N/A N/A End Inv. 5,566	N/A N/A
N/A         N/A         Chemical         Usitors:         Visitors:         Visitor         Visitor	0	N/A Start Inv. 5,566	N/A End Inv. 5,566	N/A
Chemical       Us         Visitors:       BO JACKSON         Visitors:       Sodium Hydroxide         Visitors:       Image: Sodium Hydroxide         visitors:       Image: Sodium Hydroxide         ere there any abnormal operational issues onsite?       Image: Sodium Hydroxide         Image: Sodium Hydroxide       Image: Sodium Hydroxide </td <td>0</td> <td>Start Inv. 5,566</td> <td>End Inv. 5,566</td> <td>· · · · · ·</td>	0	Start Inv. 5,566	End Inv. 5,566	· · · · · ·
Visitors:       BO JACKSON         Visitors:       Image: Constraint of the state of t	0	5,566	5,566	On Orc
Visitors:       BO JACKSON         Visitors:       Image: Constraint of the second secon	0	5,566	5,566	On Orc
Visitors:       BO JACKSON         Visitors:       Image: Sodium Hydroxide         Visitors:       Image: Sodium Hydroxide         ere there any abnormal operational issues onsite?       Image: Sodium Hydroxide         et there any additional supplies/equipment needed? If so, what items and when?				
Visitors:       BO JACKSON         Visitors:       Image: Constraint of the second secon	0	900	900	
Visitors: Visitors: ere there any abnormal operational issues onsite? C e there any additional supplies/equipment needed? If so, what items and when?				
Visitors:				
ere there any abnormal operational issues onsite?				
C re there any additional supplies/equipment needed? If so, what items and when?				1
e there any additional supplies/equipment needed? If so, what items and when?				
e there any additional supplies/equipment needed? If so, what items and when?				
e there any additional supplies/equipment needed? If so, what items and when?				
e there any additional supplies/equipment needed? If so, what items and when?				
we there been any abanged to the surrent schedule, including values and at I	aliant?			
ave there been any changes to the current schedule, including volumes needed t	Jy client r			
as client provided any operational feedback (positive or negative)?				· · · · ·
Person: Company:			XTO	
A				
Additional Comments				

Date:	7	/8/2012		Report	Number:		33
				Unit I	Number:		8
	·····		1			N/A	
Client:		XTO			hift Onsite Time:	N/A	am/pn
Location:		Nash 29		5	hift Offsite Time:	N/A	am/pn
Site Contact:		Jackson			<b>A 1 1 1 1 1</b>	0	Total hi
Site Contact:		ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs		0 hrs	Cumulativ	e Processing	Hre	75	hrs
BBLS Processed		0 bbls		BBLS Proces			32 bbls
BBLS/Hr Proce							
BBLS/Hr Proce	ssea:	#DIV/0!	Cumulative BBLS/Hr Processed:			341.8	bbl/hr
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator			N/A		N/A	N/A	N/A
Crew			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
Γ			N/A		N/A	N/A	N/A
Г			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	5,566	5,566	
			Sodium Hydroxide	0	900	900	
Visitors:	BO	JACKSON		l			
Visitors:							
Visitors:							
	rmal opera	tional issues onsite	9?				
	rmal opera	tional issues onsite	2?				·
lere there any abno	rmal opera	tional issues onsite	3?				
	rmal opera	tional issues onsite	3?	- <u></u>			
0							·
O re there any additio			e? ed? If so, what items and v	when?			
O re there any additio				when?			
0				when?			
O re there any additic O	onal supplie	es/equipment neede	ed? If so, what items and v				
O re there any additic O ave there been any	onal supplie	es/equipment neede			?		
O re there any additic O ave there been any	onal supplie	es/equipment neede	ed? If so, what items and v		1?		
O re there any additic O ave there been any	onal supplie	es/equipment neede	ed? If so, what items and v		:?		
O re there any additic O ave there been any O	onal supplie changes to	es/equipment neede	ed? If so, what items and v ule, including volumes ne		?		
O re there any additic O ave there been any O	onal supplie changes to	es/equipment neede	ed? If so, what items and v ule, including volumes ne		:?	хто	
O re there any additic O ave there been any O as client provided a	onal supplie changes to	es/equipment neede	ed? If so, what items and v ule, including volumes ne itive or negative)?		:?	XTO	
The there any addition ave there been any as client provided a Person:	onal supplie changes to any operatio	es/equipment neede	ed? If so, what items and v ule, including volumes ne itive or negative)?		?	хто	

Date:	7/	9/2012		Report	Number:		34
				Unit N	lumber:	·····	8
Client:		XTO			hift Onsite Time:	6:00	am/pm
Location:		ash 29			hift Offsite Time:	6:00 PM	am/pm
Site Contact:		Jackson		Dragant		4	Total hrs
Site Contact:	Pau	I Worley		Present	Onsite Activities:	PROCES	55 VATER
Processing Hrs	a Today:	4 hrs	Cumulativ	/e Processing	Hrs:		hrs
BBLS Processe	d Today:	1,650 bbls	Cumulative	e BBLS Proces	ssed:	30,50	5 bbls
BBLS/Hr Proc		412.5	Cumulative	BBLS/Hr Proc	essed:	358.9	bbl/hr
Lead Supervisor:	Pau	I Worley	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator	ADAM	POLLARD	0200		100	6.35	1.16
Crew	REGO	GIE WHITE	0400		100	6.65	0.57
	CHR	S ONEAL	0500		100	6.9	0.78
ſ			N/A		N/A	N/A	N/A
Ĩ			N/A		N/A	N/A .	N/A
			N/A		N/A	N/A	N/A
ſ					<b> _</b>		
ľ			Chemical	Usage	Start Inv.	End Inv.	On Orde
Ì			HcL Acid	150	5,566	5,416	
L		·	Sodium Hydroxide	130	900	770	YES
Visitors:	BO J	ACKSON					
Visitors:	BO	WELLS					
Visitors:							
IO re there any additi IO	onal supplies		? d? If so, what items and v le, including volumes ne		?		
·	any operatio	nal feedback (posit					
Person:			Company:		L	XTO	
/A							
Additional Con							
OUR WAY UP FROM	I KILGORE T WE GOT V	RIED TO FIX OVER ALVE PROBLEMS F	A EMPLOYEES HAD SC THE PHONE AND COUL IXED AND STARTED PR	D NOT EMPL OCESSING AR	LOYEES WERE IN OUND 1:30 PM A	NSTRUCTED	TO WAIT EM WITH

Date:	7/:	10/2012		Report	Number:		35
					lumber:		8
<b>_</b>							
Client:		XTO			hift Onsite Time:	6:00	am/pm
Location:		lash 29		SI	nift Offsite Time:	6:00 PM	am/pm
Site Contact:		Jackson				8	Total hrs
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCES	S WATER
Processing Hrs	Today:	8 hrs	Cumulativ	e Processing	Hrs:	93	hrs
BBLS Processed		3,363 bbls		BBLS Proces			8 bbls
BBLS/Hr Proces		420.375		BBLS/Hr Proc			bbl/hr
Lead Supervisor:	Par	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		/ POLLARD	800		100	7.1	1.34
Crew		GIE WHITE	1000		100	6.89	1.22
		RISONEAL	1200		100	6.65	0.98
F			1400	······	100	6.65	1.35
F			0:00		N/A	 N/A	N/A
			0:00		N/A	N/A	N/A
_							
			Chemical	Usage	Start Inv.	End Inv.	On Orde
L			HcL Acid	200	5,416	5,216	
			Sodium Hydroxide	185	770	585	YES
Visitors:							
Visitors:	BO	OWELLS					
Visitors:							
			· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
	mal operat	tional issues onsite	?				
ere there any abno							
ere there any abno							
ere there any abnor							
)		s/equipment neede	d? If so, what items and y	when?			
)		s/equipment neede	d? If so, what items and v	when?			
e there any additio		s/equipment neede	d? If so, what items and v	vhen?			<u> </u>
e there any additio		s/equipment neede	d? If so, what items and v	when?			
e there any additio	nal supplie		d? If so, what items and v ule, including volumes ne		?		
e there any additio	nal supplie				?		
e there any additio	nal supplie				?		
e there any additio	nal supplie				?		
e there any additio	nal supplie changes to		ule, including volumes ne		?		
e there any additio	nal supplie changes to	) the current schedu	ule, including volumes ne		?	хто	
e there any additio	nal supplie changes to	) the current schedu	ule, including volumes ne tive or negative)?		?	ХТО	
e there any additio	nal supplie changes to	) the current schedu	ule, including volumes ne tive or negative)?		?	хто	
e there any additio	nal supplie changes to ny operatio nents	o the current schedu onal feedback (posi	ule, including volumes ne tive or negative)? Company:	eded by client			
e there any additio	nal supplie changes to ny operatio nents	o the current schedu onal feedback (posi 0 AM REVEIWED JS	ule, including volumes ne tive or negative)?	eded by client	7:00 AM FILLED	CLEAN TANK	

Date:	7/:	11/2012			Number:		36	
				Unit	Number:		8	
Client:		хто	1	s	hift Onsite Time:	6:00	am/pm	
Location:	N	ash 29			hift Offsite Time:	6:00 PM	am/pm	
Site Contact:	Bo	Jackson				4	Total hr	
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCES	S WATER	
Processing Hrs	Today:	4 hrs	Cumulativ	e Processing	Hre.	07		
BBLS Processed		1,980 bbls		e BBLS Proce		97 hrs 35,848 bbls		
BBLS/Hr Proce	-	495	Cumulative		bbl/hr			
DDEG/III 11008		400	Cumulative	BBEO/INTIOC	<u></u>		001/11	
Lead Supervisor:	Pau	I Worley	Readings:	flow back	Volts/Amps	pН	Turbidit	
Lead Operator		POLLARD	800		100	6.85	1.67	
Crew		IS ONEAL	1000		100	6.76	1.55	
			1200		100	6.9	1.89	
F			1400		100	6.85	1.66	
Γ			0:00		N/A	N/A	N/A	
			0:00		N/A	N/A	N/A	
Ļ			Chemical	Usage	Start Inv.	End Inv.	On Orde	
L			HcL Acid	235	5,416	5,181		
		· · · · · · · · · · · · · · · · · · ·	Sodium Hydroxide	205	3,800	3,595		
Visitors:								
Visitors:	BO	WELLS			<b>├</b> ────┤			
Visitors:					L			
							=	
are there any abae	-mai onorat	ional issues onsite	<u>.</u>					
o chere any abrio	rinal operat	ional issues ofisite	£					
,								
			· · · ·					
e there any additio	nal supplie	s/equipment needed	d? If so, what items and v	when?				
)		or equipment not det						
ve there been any	changes to	the current schedu	lle, including volumes ne	eded by clien	t?			
)				•				
· •••	ny operatio	onal feedback (posit	ive or negative)?					
is client provided a	<u> </u>		Component			XTO		
Person:			Company:		<u> </u>			
			Company.		<b>_</b>			

Date:		12/2012		Bonort	Number:		37
Date.	/.	12/2012			lumber:		8
							0
Client:		хто		S	hift Onsite Time:	6:00	am/pm
Location:	N	ash 29		S	hift Offsite Time:	8:00 PM	am/pm
Site Contact:	Bo	Jackson				8	Total hrs.
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	Today:	8 hrs	Cumulativ	e Processing	Hrs:	105	hrs
BBLS Processed		3,362 bbls		e BBLS Proces		39,21	0 bbls
BBLS/Hr Proce	essed:	420.25	Cumulative	BBLS/Hr Proc	essed:	373.4	bbl/hr
Lead Supervisor:	PAUL	WORLEY	Readings:	flow back	Volts/Amps	рН	Turbiditý
Lead Operator	ADAM	POLLARD	800		110	7.1	2.56
Crew	CHR	IS ONEAL	1000		110	7.43	1.89
	REGO	GIE WHITE	1200		110	6.67	0.98
Γ			1400		110	6.63	1.45
			0:00		N/A	N/A	N/A
Γ			0:00		N/A	N/A	N/A
Г				•	·		
ſ			Chemical	Usage	Start Inv.	End Inv.	On Order
Γ			HcL Acid	355	5,181	4,826	
L.			Sodium Hydroxide	420	3,595	3,175	
Visitors:							
Visitors:	BO	WELLS					
Visitors:							
				•	<b>،</b>		
Were there any abno	ormal operat	ional issues onsite	?				
NO	<u></u>		• •				
Are there any addition	onal supplies	s/equipment needed	I? If so, what items and	when?			
NO							
Have there been any	changes to	the current schedu	le, including volumes ne	eded by client	?		
NO							
Has client provided	any operatio	nal feedback (positi	ive or negative)?				
Person:			Company:			хто	
N/A							
Additional Com							
			ASTARTED PROCESSII				
			ECAUSE THE SMALL PU				
			N TO KEEP FILLING. THE				
			REPAIR THEMXTO CO SINGLE PUMP ON XTO S				
			ENT WELL AND WE MAL				JITER IHAN
		LINE THING LEGE W	LINI WELLE AND WE WAL	JE MINUN ADJ	JOINILINIS IU	UNILIVII UALO.	

Date:	7/	13/2012		Report	Number:	3	38	
				Unit N	lumber:		8	
Client:		хто			hift Onsite Time:	2:00	am/pm	
Location:	N	lash 29			hift Offsite Time:	7:00 PM	am/pm	
Site Contact:		Jackson			int offsite fine.	10	Total hrs	
Site Contact:		ul Worley		Present	Onsite Activities:	PROCESS WATER		
							-	
Processing Hrs	Today:	10 hrs	Cumulativ	e Processing	Hrs:	107	hrs	
BBLS Processed	t Today:	4,704 bbls	Cumulative	BBLS Proces	ssed:	40,55	2 bbls	
BBLS/Hr Proce	essed:	470.4	Cumulative	BBLS/Hr Proc	essed:	379.0	bbl/hr	
Lead Supervisor:	PAUI	LWORLEY	Readings:	flow back	Volts/Amps	рН	Turbidity	
Lead Operator		/ POLLARD	800		110	7.21	0.76	
Crew		RISONEAL	1000		110	6.87	0.87	
1		GIE WHITE	1200		110	6.95	1.24	
L L L L L L L L L L L L L L L L L L L			1400		110	6.34	2.34	
ſ			0:00		N/A	N/A	N/A	
			0:00		N/A	N/A	N/A	
-			Chemical	1100.00	Start Inv.	End Inv.	On Orde	
-			HcL Acid	Usage. 345	5,181	4,836	UII UIUE	
L			Sodium Hydroxide	345	3,595	3,215		
Visitors:			Sodiam Hydroxide		3,555	5,215		
Visitors:								
Visitors:								
0		tional issues onsite	? d? If so, what items and v	when?				
O								
D ave there been any D as client provided		o the current schedu onal feedback (posi	<u> </u>	eded by client	?			
O ave there been any O				eded by client	?	ХТО		

Date:	7/:	14/2012		Report	Number:		39
				Unit	Number:		8
Client:		XTO		[	hift Onsite Time:	5:00	am/pm
Location:		ash 29			hift Offsite Time:	7:00 PM	am/pm
Site Contact:		Jackson			int offsite fine.	10	Total hrs
Site Contact:		I Worley		Present	Onsite Activities:		SS WATER
Processing Hrs	s Today:	10 hrs	Cumulativ	ve Processing	Hrs:	117	hrs
BBLS Processe	d Today:	4,321 bbls	Cumulative	e BBLS Proces	ssed:	44,84	3 bbls
BBLS/Hr Proc	essed:	432.1	Cumulative	Cumulative BBLS/Hr Processed: 383.3 b			
Lead Supervisor:	PAUL	WORLEY	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator	ADAM	I POLLARD	800		100	7.24	0.89
Crew	CHR	IS ONEAL	1000		100	6.98	1.31
	REGO	GIE WHITE	1200		100	6.54	1.87
ļ			1400	ļ	100	6.88	1.63
ļ			0:00		N/A	N/A	N/A
ľ			0:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	380	5,181	4,801	
			Sodium Hydroxide	410	3,595	3,185	
Visitors:	LARF	RY ONEAL					
Visitors:							
Visitors:							
ere there any abn	ormal operat	ional issues onsite	?				
	onal supplie	s/equipment neede	d? If so, what items and v	when?			
)							
ve there been an	v abangos to	the ourrent cabodi	ule, including volumes ne	adad by aliant			
)	y changes to	the current sched	the, including volumes ne	eded by chem			
			·				
s client provided	any operatio	nal feedback (posi	tive or negative)?		·		
			Company:			XTO	
Person:							
Person:							
	nments			· · · · · · · · · · · · · · · · · · ·			

Date:	7/:	15/2012		Report	Number:	4	40
	· · · ·				lumber:		8
Client:		хто		s	hift Onsite Time:	6:00	am/pm
Location:		ash 29			nift Offsite Time:	6:00 PM	am/pm
Site Contact:		Jackson			int offsite fille.	9	Total hrs
Site Contact:		I Worley		Present Onsite Activities:		PROCESS WATER	
		,			L		
Processing Hr	s Today:	9 hrs	Cumulativ	e Processing	Hrs:	126	hrs
BBLS Processe	d Today:	4,273 bbls	Cumulative	BBLS Proces	sed:	49,11	6 bbls
BBLS/Hr Proc	essed:	474.777778	Cumulative	BBLS/Hr Proc	essed:	389.8	bbl/hr
Lead Supervisor:		WORLEY	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		POLLARD	800		100	6.75	1.65
Crew		IS ONEAL	1000		100	6.56	1.97
ļ	REGO	SIE WHITE	1200		100	6.87	1.88
			1400		100	6.93	1.53
ļ			0:00		N/A	N/A	N/A
-			0:00		N/A	N/A	N/A
			Chaminal		Stand Law		
			Chemical	Usage	Start Inv.	End Inv.	On Orde
Į			HcL Acid	320 385	4,801	4,481	
Visitors:		RY ONEAL	Sodium Hydroxide	365	3,185	2,800	
Visitors:							
Visitors:							
					I		
			• • • • • • • • • • • • • • • • • • • •	· · · · · ·			
ere there any abn	ormal operat	ional issues onsite	,				
ere there any abn	ormal operat	ional issues onsite	?				
	ormal operat	ional issues onsite?	?				
	ormal operat	ional issues onsite?	>				
	ormal operat	ional issues onsite	>				
0			) I? If so, what items and v	vhen?			
0				vhen?			
O re there any additi				vhen?			
O re there any additi O	onal supplie	s/equipment needec	l? If so, what items and v				
O re there any additi O ave there been any	onal supplie	s/equipment needec			?		
O re there any additi O	onal supplie	s/equipment needec	l? If so, what items and v		?		
O re there any additi O ave there been any	onal supplie	s/equipment needec	l? If so, what items and v		?		
O re there any additi O ave there been any O	onal supplies y changes to	s/equipment needec the current schedu	I? If so, what items and v le, including volumes ne		?		
O re there any additi O ave there been an O as client provided	onal supplies y changes to	s/equipment needec	I? If so, what items and v le, including volumes ne ive or negative)?		?		
O re there any additi O ave there been an O as client provided <i>Person:</i>	onal supplies y changes to	s/equipment needec the current schedu	I? If so, what items and v le, including volumes ne		?	  	
O re there any additi O ave there been an O as client provided	onal supplies y changes to	s/equipment needec the current schedu	I? If so, what items and v le, including volumes ne ive or negative)?		?	XTO	
O re there any additi O ave there been an O as client provided <i>Person:</i>	onal supplies y changes to any operatio	s/equipment needec the current schedu	I? If so, what items and v le, including volumes ne ive or negative)?		?	XTO	
O re there any additi O ave there been an O as client provided <i>Person:</i> A Additional Cor	onal supplies y changes to any operatio	s/equipment needec the current schedu nal feedback (posit	I? If so, what items and v le, including volumes ne ive or negative)? Company:	eded by client			
O re there any additi O ave there been an O as client provided <i>Person:</i> A Additional Con <i>RRIVED ON LOCA</i>	onal supplies y changes to any operatio nments TION AT 6:00	s/equipment needec the current schedu nal feedback (posit	I? If so, what items and v le, including volumes ne ive or negative)?	eded by client	6:15 AM WE H	AD TO WAIT	

Date: 7/16/2012		16/2012		Report	Number:		41
					lumber:		8
Client:		XTO		S	hift Onsite Time:	6:00	am/pm
Location:	N	ash 29		S	nift Offsite Time:	4:00 PM	am/pm
Site Contact:	Bo	Jackson				7 Total I	
Site Contact:	Pau	I Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr		7 hrs	Cumulativ		133	hrs	
	BBLS Processed Today: 3,852 bbls			BBLS Proces			58 bbls
BBLS/Hr Proc	essed:	550.2857143	Cumulative	BBLS/Hr Proc	essed:	398.3	bbl/hr
Lead Supervisor:	PAUL	WORLEY	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator	CHR	IS ONEAL	800		100	6.35	0.87
Crew	REGO	GIE WHITE	1000		100	6.43	1.23
	REGO	GIE WHITE	1200		100	7.12	2.1
			1400		100	6.97	1.87
			0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	260	4,481	4,221	
			Sodium Hydroxide	285	2,800	2,515	
Visitors:	LARF	RY ONEAL					
Visitors:							
Visitors:							
				······································			
			7				
ere there any abn	ormal operat	ional issues onsite	•				
<b>fere there any abn</b> O	ormal operat	ional issues onsite	·				
	ormal operat	ionai issues onsite	·				
	ormal operat		<u> </u>				
0							
O re there any additi			d? If so, what items and v	vhen?			
0				vhen?			
O re there any additi				vhen?			
O re there any additi O	ional supplies	s/equipment needec	d? If so, what items and v		2		
O re there any additi O ave there been an	ional supplies	s/equipment needec			?		
O re there any additi O	ional supplies	s/equipment needec	d? If so, what items and v		?		
O re there any additi O ave there been an	ional supplies	s/equipment needec	d? If so, what items and v		?		
O re there any additi O ave there been an O	ional supplies y changes to	s/equipment needec	d? If so, what items and v le, including volumes ne		?		
O re there any additi O ave there been an O as client provided	ional supplies y changes to	s/equipment needec	I? If so, what items and v ile, including volumes ne ive or negative)?		?		
O re there any additi O ave there been an O as client provided <i>Person:</i>	ional supplies y changes to	s/equipment needec	d? If so, what items and v le, including volumes ne		?	XTO	
O re there any additi O ave there been an O as client provided	ional supplies y changes to	s/equipment needec	I? If so, what items and v ile, including volumes ne ive or negative)?		?	XTO	
O re there any additi O ave there been an O as client provided <i>Person:</i>	ional supplies y changes to any operatio	s/equipment needec	I? If so, what items and v ile, including volumes ne ive or negative)?		?	XTO	
The there any addition ave there been and as client provided <i>Person:</i> A Additional Cor	ional supplies y changes to any operatio	s/equipment needed the current schedu onal feedback (posit	I? If so, what items and v ile, including volumes ne ive or negative)?	eded by client			TANKS AN

	7/	17/2012		Report	Number:		42
				Unit N	lumber:		8
Client:		хто		s	hift Onsite Time:	6:00	am/pm
Location:	N	lash 29		S	hift Offsite Time:	2:00 PM	am/pm
Site Contact:	Bo	Jackson				6	Total hrs
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	S WATER
		······································					
Processing Hrs		6 hrs		e Processing		139	hrs
BBLS Processed		2,352 bbls		e BBLS Proces			0 bbls
BBLS/Hr Proce	ssed:	392	Cumulative	BBLS/Hr Proc	essed:	398.0	bbl/hr
Lead Supervisor:	PAU	LWORLEY	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	CHF	RISONEAL	800		100	6.75	1.32
Crew	REG	GIE WHITE	1000		100	7.12	1.45
			1200		100	6.88	0.98
			N/A		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
F			0:00		N/A	N/A	N/A
-			Chemical	Usage	Start Inv.	End Inv.	On Orde
Г			HcL Acid	205	4,221	4,016	
	• • • • • • • • • • • • • • • • • • • •		Sodium Hydroxide	180	2,515	2,335	
Visitors:	LAR	RY ONEAL					
Visitors:	JAM	IE HARRIS					
Visitors:	STEV	'EN TIPDEN					
) )	nnai opera	tional issues onsite					
)			d? If so, what items and v		?		
ve there been any	changes to		le, including volumes ne ive or negative)?		?	XIO	
ve there been any	changes to	o the current schedu	le, including volumes ne		?	хто	
ve there been any s client provided a Person:	changes to	o the current schedu	le, including volumes ne ive or negative)?		?	хто	

# Appendix B

Та	ble	B-2

Date:	7/	18/2012			Report	Number:		43
	· · · · · · · · · · · · · · · · · · ·					lumber:		8
Client:		XTO			S	hift Onsite Time:	6:00	am/pm
Location:	Ν	lash 29			SI	nift Offsite Time:	6:00 PM	am/pm
Site Contact:	Bo	Jackson					0	Total hrs.
Site Contact:	Pa	ul Worley			Present	Onsite Activities:	PROCES	SS WATER
STAND B	Y WAI	TING ON	۶	RAC				
Processing Hr		0 hrs			e Processing		139	
BBLS Processe	ed Today:	0 bbls		Cumulative	e BBLS Proces	ssed:	55,32	20 bbls
BBLS/Hr Proc	cessed:	#DIV/0!		Cumulative	BBLS/Hr Proc	essed:	398.0	) bbl/hr
	DAL		1	Deathara	0. 1.1			Transfer to the
Lead Supervisor:	PAU	L WORLEY		Readings:	flow back	Volts/Amps	pH	Turbidity
Lead Operator				800		N/A	N/A	N/A
Crew				1000	<u> </u>	N/A	<u>N/A</u>	N/A
				1200	ļ	N/A	<u>N/A</u>	N/A
				N/A		N/A	<u>N/A</u>	N/A
				0:00		N/A	N/A	N/A
				0:00	]	N/A	N/A	N/A
				Chemical	Urago	Start Inv.	End Inv.	On Order
				HcL Acid	Usage			
				Sodium Hydroxide	0	4,016 2,335	4,016 2,335	╂
Visitors:	<u> </u>	· · · · ·		Souldin Hydroxide		2,355	2,555	<del> </del>
Visitors:				·· ·······		· · · · · · · · · · · · · · · · · · ·	<u> </u>	
Visitors:					· · · · ·			<u> </u>
101010.	I			L	1	Li		
Were there any abr	ormal opera	tional issues onsit	<u>6</u> ?	· · ·				
NO	ionnai opera	aonar ioodeo onoit			······································			
		· · · · · ·						
Are there any addit	ional supplie	s/equipment need	ed?	If so, what items and	when?			
NO								
		· · · · · · · · · · · · · · · · · · ·						
Have there been an	y changes to	the current sched	lule	, including volumes ne	eded by client	?		
NO								
Has client provided	any operation	onal feedback (pos	itive	e or negative)?		2		
Person:				Company:			XTO	
N/A								
Additional Co		1						
				14" FROM THE TOP A			7,280 BBLS	THE
MANUFACTURER	-UR TANK HE	E RECOMMENDED	VVE	STAY AROUND 12" F	RUM THE TOP	·		

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Date:	7/	19/2012		Report	Number:		44	
				Unit N	lumber:		8	
Client:		хто		S	hift Onsite Time:	16:00	am/pm	
Location:	N	lash 29			hift Offsite Time:	9:00 PM	am/pm	
Site Contact:	Во	Jackson				3	Total hrs.	
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCE	SS WATER	
Processing Hr	s Today:	3 hrs	Cumulativ	e Processing	Hrs:	142 hrs		
BBLS Processe	ed Today:	1,141 bbls	Cumulative	Cumulative BBLS Processed:			51 bbls	
BBLS/Hr Proc	cessed:	380.3333333	Cumulative	BBLS/Hr Proc	essed:	397.6	i bbl/hr	
Lead Supervisor:	PAUL	WORLEY	Readings:	flow back	Volts/Amps	pH	Turbidity	
Lead Operator	CHR	IS PERRY	800		100	7.2	2.34	
Crew			1000		N/A	N/A	N/A	
			1200		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
			0:00		N/A	N/A	N/A	
			0:00		N/A	N/A	N/A	
			Chemical	Usage	Start Inv.	End Inv.	On Order	
			HcL Acid	145	4,016	3,871		
		· · · · · · · · · · · · · · · · · · ·	Sodium Hydroxide	120	2,335	2,215		
Visitors:								
Visitors:								
Visitors:				l				
							<u> </u>	
Were there any abn	ormal operat	tional issues onsite	?					
NO								
	ional supplie	s/equipment neede	d? If so, what items and v	when?				
NO								
Have there been an	y changes to	the current schedu	lle, including volumes ne	eded by client	?			
NO								
Has client provided		nal foodback (nee	tive or pogetive)?	· · · ·				
Person:	any operation	mai leeuback (posi	Company:	I		хто		
N/A	I		L. Company.	<b>I</b>	I			
Additional Co	mmente							
		I N THAT THE DIRTY	TANKS WERE FULL AND			UT TO GET	THEM	
	VED ON LOC		MAND GOT TANKS DOV					

Date:	7/	20/2012		Report	Number:		45	
	.,.				lumber:		8	
Client:		хто		S	hift Onsite Time:	9:00	am/pm	
Location:	N	ash 29		S	hift Offsite Time:	5:00 PM	am/pm	
Site Contact:	Во	Jackson				7	Total hrs.	
Site Contact:	Pau	I Worley		Present	Onsite Activities:	PROCES	SS WATER	
Processing Hr		7 hrs		ve Processing		149 hrs		
BBLS Processe		2,136 bbls	Cumulativ	e BBLS Proces	ssed:	58,59	7 bbls	
BBLS/Hr Proc	cessed:	305.1428571	Cumulative	BBLS/Hr Proc	essed:	393.3	bbl/hr	
					<u> </u>			
Lead Supervisor:		WORLEY	Readings:	flow back	Volts/Amps	рН	Turbidity	
Lead Operator	CHR	IS PERRY	1200		100	6.82	1.43	
Crew			1400		100	6.66	1.65	
			1600		100	6.54	<u>N/A</u>	
			N/A		N/A	N/A	N/A	
			0:00		N/A	N/A	N/A	
			0:00	I	N/A	N/A	N/A	
				····				
			Chemical	Usage	Start Inv.	End Inv.	On Order	
	_		HcL Acid	220	3,871	3,651		
-			Sodium Hydroxide	180	2,215	2,035		
Visitors:								
Visitors:								
Visitors:								
Were there any abn	ormal operat	ional issues onsite?						
NO								
			0.16	10		·		
NO	ional supplie:	s/equipment needed	? If so, what items and v	wnen ?				
Have there been an	v changes to	the current schedul	e, including volumes ne	eded by client	2			
NO	y onlanges to	the ourient seneral	c, mondaring volumes ne	eded by chem	·			
Has client provided	any operatio	nal feedback (positi	ve or negative)?					
Person:		V	Company:			хто		
N/A				•				
Additional Cor	nments							
			ANKS LOW ENOUGH TO					
	TANKS DOWN	I TO 5 FOOT AND C	WN SO THEY WOULD NO ALLED BO JACKSON TO					

Date:	7/2	21/2012		Report	Number:	-	46
					lumber:		8
					I	-	
Client:		хто		S	hift Onsite Time:	9:00	am/pm
Location:	N	ash 29		S	hift Offsite Time:	5:00 PM	am/pm
Site Contact:	Во	Jackson				0	Total hrs.
Site Contact:	Pau	I Worley		Present	Onsite Activities:	PROCES	SS WATER
STAND BY	,						
Processing Hrs	Today:	0 hrs		ve Processing		149	hrs
	BBLS Processed Today: 0 bbls			e BBLS Proces	ssed:		97 bbls
BBLS/Hr Processed: #DIV/0!			Cumulative	BBLS/Hr Proc	essed:	393.3	bbl/hr
	DALU		Deservice and	<b>6</b>			
Lead Supervisor:	PAUL	WORLEY	Readings: 1200	flow back	Volts/Amps	pH N/A	Turbidity N/A
Lead Operator		·			N/A		
Créw			1400		N/A	N/A	N/A
-			1600		N/A	<u>N/A</u>	N/A
-			N/A		N/A	N/A	N/A
			0:00		N/A	<u>N/A</u>	N/A
			0:00		N/A	<u>N/A</u>	N/A
-			Character		<u></u>		
-			Chemical	Usage	Start Inv.	End Inv.	On Order
L			HcL Acid	0	3,651	3,651	
<u> </u>			Sodium Hydroxide	0	2,035	2,035	
Visitors:							<u> </u>
Visitors:							
Visitors:							L
			<u></u>				
Were there any abno	rmal operat	ional issues onsite	?				
NO							
	nal supplie	s/equipment neede	d? If so, what items and v	when?			
NO							
Have there been any	changes to	the current schedu	ule, including volumes ne	eded by client	?		
NO							
					-		
			4				
Has client provided a	iny operatio	nal feedback (posi					
Person:			Company:	L		XTO	
Additional Com							
STAND BY WAITING	ON FRAC.						

Date:	7/3	22/2012	1	Report	Number:		47	
			7		lumber:		8	
				L				
Client:	-	хто	1	S	hift Onsite Time:	9:00	am/pm	
Location:	N	lash 29	1		hift Offsite Time:	5:00 PM	am/pm	
Site Contact:	Bo	Jackson	1			0	Total hrs.	
Site Contact:	Pau	ul Worley	1	Present	Onsite Activities:		SS WATER	
STAND B			_					
Processing Hrs	s Todav:	0 hrs	Cumulativ	ve Processing	Hrs:		hrs	
	S Processed Today: 0 bbls			e BBLS Proces		58,597 bbls		
BBLS/Hr Proc		#DIV/0!		BBLS/Hr Proc			bbl/hr	
Lead Supervisor:	PAUL	WORLEY	Readings:	flow back	Volts/Amps	pH	Turbidity	
Lead Operator			1200		N/A	N/A	N/A	
Crew			1400		N/A	N/A	N/A	
			1600		N/A	N/A	N/A	
i t			N/A		N/A	N/A	N/A	
			0:00		N/A	N/A	N/A	
			0:00		N/A	N/A	N/A	
				l				
			Chemical	Usage	Start Inv.	End Inv.	On Order	
			HcL Acid	03060	3,651	3,651		
Ļ			Sodium Hydroxide	0	2,035	2,035		
Visitors:					2,035			
Visitors:		<u> </u>				_		
Visitors:								
¥151015.								
	· · · · · ·					<u> </u>		
187		lawat lawa a saali						
Were there any abn NO	ormai operat	Ional Issues bilsit						
						-		
Are there any additi	onal supplie	s/equipment need	led? If so, what items and	when?			······	
NO		<u>singlapinent neve</u>						
Have there been an	v changes to	the current scher	dule, including volumes ne	eded by client	2			
NO	y onunges to	the ourient solice	dule, molaung volumes ne	eded by chern				
Has client provided	any operatio	nal foodback (nos	sitive or pogetive)?	<u></u>				
Person:	any operation	mai neeuback (pos	Company:			ХТО		
N/A	<u>.</u>		company.		<u> </u>			
Additional Con	nmente		<u> </u>				i	
STAND BY WAITING		L ₄					Í	

Date:	7/23/2012			Report Number: Unit Number:			48
••••••••••••••••••••••••••••••••••••••						8	
Client:	ХТО			Shift Onsite Time:		9:00	am/pm
Location:		lash 29		Shift Offsite Time:		5:00 PM	am/pm
Site Contact:		Jackson				0 Total hrs	
Site Contact:		ul Worley		Present	Onsite Activities:	PROCES	S WATER
		0 hrs	Cumulativ	. Drococcing		149	hrs
	Processing Hrs Today: 0 BBLS Processed Today: 0 bb			Cumulative Processing Hrs:		149 IIIS 58,597 bbls	
BBLS Processed Today: BBLS/Hr Processed:		#DIV/0!	Cumulative BBLS Processed: Cumulative BBLS/Hr Processed:		393.3 bbl/hr		
BBL3/HI FIU	esseu.	#010/0!	Cumulative	BBL3/Hr Proc	essea:	393.3	DDI/NF
Lead Supervisor:	PAU	L WORLEY	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator			1200		N/A	N/A	N/A
Crew			1400		N/A	N/A	N/A
			1600		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	3,651	3,651	011 01 00
		I	Sodium Hydroxide	0	2,035	2,035	
Visitors:							
Visitors:					-		
Visitors:			· · · · · · · · · · · · · · · · · · ·				
Vere there any abn IO	ormal opera	tional issues onsite	?				
<b>re there any addit</b> O	onal supplie	s/equipment neede	ed? If so, what items and v	vhen?			
					<u></u>		
	-	) the current sched	ule, including volumes ne	eded by client	?		
lave there been an	y changes to						
O as client provided	· · · · · · ·	onal feedback (posi					
O as client provided Person:	· · · · · · ·	·····	itive or negative)? Company:			ХТО	
IO las client provided <i>Person:</i> //A	any operatio	·····				ХТО	
O as client provided Person:	any operation	·····				ХТО	

-

Date:	7/	24/2012		Report	Number:		49
- Dutoi		- //			lumber:		8
				Unit			
Client:		хто		s	hift Onsite Time:	9:00	am/pm
Location:	٨	lash 29			hift Offsite Time:	5:00 PM	am/pm
Site Contact:	Bo	Jackson				0	Total hrs.
Site Contact:		ul Worley		Present	Onsite Activities:		SS WATER
STAND B							
Processing Hr	s Today:	0 hrs	Cumulativ	ve Processing	Hrs:	149	hrs
BBLS Processe		0 bbls		e BBLS Proces		58,59	97 bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	393.3	bbl/hr
Lead Supervisor:	PAU	LWORLEY	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			1200		N/A	N/A	N/A
Crew			1400		N/A	N/A	N/A
			1600		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
					· · · · · · · · · · · · · · · · · · ·		<u> </u>
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	3,651	3,651	
			Sodium Hydroxide	0	2,035	2,035	
Visitors:			·		<i>,</i>	,	(
Visitors:							
Visitors:				· · · · · · · · · · · · · · · · · · ·			
			·				
					······································		
Were there any abn	ormal onera	tional issues onsite	7				
NO			· · · · · · · · · · · · · · · · · · ·				
			10.16				
	onal supplie	s/equipment needed	d? If so, what items and	when?			
NO							
	y changes to	the current schedu	le, including volumes ne	eded by client	?		
NO							
Has client provided	any operation	onal feedback (posit			···-		
Person:			Company:			XTO	
N/A							
Additional Cor							
STAND BY WAITING	G ON FRAC.						

Date:	7/	/25/2012	1		Report	Number:		50
Date.	/	25/2012	1			Number:	·	8
				I		iumper:		8
Client:		XTO	1		s	hift Onsite Time:	9:00	am/pm
Location:		Nash 29	1			hift Offsite Time:	5:00 PM	am/pm
Site Contact:		Jackson	1				0	Total hrs.
Site Contact:		ul Worley			Present	Onsite Activities:		SS WATER
STAND B			1		• • • • • • •			
Processing Hr	s Today:	0 hrs	1	Cumulativ	/e Processing	Hrs:	149	hrs
BBLS Processe		0 bbls	1	Cardina -	e BBLS Proces		58,59	97 bbls
BBLS/Hr Proc		#DIV/0!	1		BBLS/Hr Proc			bbl/hr
			1					
Lead Supervisor:	PAU	L WORLEY	1	Readings:	flow back	Volts/Amps	рH	Turbidity
Lead Operator			1	1200		N/A	N/A	N/A
Crew			1	1400		N/A	N/A	N/A
			1	1600		N/A	N/A	N/A
			1	N/A		N/A	N/A	N/A
			1	0:00		N/A	N/A	N/A
			1	0:00		N/A N/A	N/A	N/A
l l			1	0.00	l			
			1	Chemical	Usage	Start Inv.	End Inv.	On Order
•	i		1	HcL Acid	0386	3,651	3,651	
L		····	J	Sodium Hydroxide	0	2,035	2,035	
Visitors:			1	Soulum riyuroxide		2,035		h
Visitors:			$\mathbf{I}$			┝──────────────────────────────		
Visitors:			1			<u> </u>		
VISILOIS.			1		Li	<u> </u>		L
had an el anno anno alban		the set termine analy						
Were there any abn	ormal operat	tional issues onsi	te'r		·····			
NO								
Are there any additi	ional supplie	s/equinment need	ed?	If so, what items and v	when?		_	
NO	Undi Gappine	orequipment inc			110111			
Have there been an	v changes to	the current sche	dule	, including volumes ne	eded by client	?	<u> </u>	
NO				<u> </u>				
								<u> </u>
Has client provided	any operatio	onal feedback (por	sitivo	e or negative)?				
Person:	uny operation	mai rooucaen (p		Company:	<b></b>		XTO	- ·
N/A								
		Ţ						
Additional Con		L						• • • • • • • • • • • • • • • • • • •
STAND BY WAITING	J ON FRAG.							

Date:	1,	26/2012	]	Report	Number:		51
			1		Number:		8
Client:		хто	]	S	hift Onsite Time:	9:00	am/pm
Location:	<u>N</u>	lash 29		s	hift Offsite Time:	5:00 PM	am/pm
Site Contact:		Jackson				0	Total hrs
Site Contact:	4	ul Worley	J	Present	Onsite Activities:	PROCES	S WATER
STAND B			······································				
Processing H		0 hrs		e Processing		149	hrs
BBLS Process		0 bbls		BBLS Proce			7 bbls
BBLS/Hr Pro	cessed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	393.3	bbl/hr
Lead Supervisor:	PAUL	WORLEY	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator			1200		N/A	N/A	N/A
Crew			1400		N/A	N/A	N/A
			1600		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	3,651	3,651	·
			Sodium Hydroxide	0	2,035	2,035	
Visitors:							
Visitors:							
Visitors:							
/ere there any abr	iormal operat	ional issues onsit					
O re there any addit	ional supplies	s/equipment need	ed? If so, what items and v	when?			
re there any addit	ny changes to	the current schec	dule, including volumes ne		?		
re there any addit	ny changes to	the current schec	dule, including volumes ne		?	XIO	
O re there any addit O ave there been ar O	ny changes to	the current schec	dule, including volumes ne		?	ХТО	
O re there any addit O ave there been ar O as client provideo Person:	ny changes to I any operatio	the current schec	dule, including volumes ne		?	XTO	

.

Date:	8/	/1/2012		Report	Number:		52
		1,1012			lumber:		8
Client:		хто		s	hift Onsite Time:	11:00	am/pm
Location:	N	lash 29		s	hift Offsite Time:	4:00 PM	am/pm
Site Contact:	Во	Jackson				0	Total hrs.
Site Contact:	Jas	on Distall		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	149	hrs
BBLS Processe		0 bbls		e BBLS Proces		58,59	97 bbls
BBLS/Hr Proc	cessed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	393.3	bbl/hr
Lead Supervisor:	Jas	on Distall	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			1200		N/A	N/A	N/A
Crew	Eddie	e McGruder	1400		N/A	N/A	N/A
	San	nmy Dean	1600		N/A	N/A	N/A
	R	Ray Lee	N/A		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
							-
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	3,651	3,651	
			Sodium Hydroxide	67	2,035	1,968	
Visitors:							
Visitors:							
Visitors:							
	<u> </u>						
Were there any abn	ormal operat	tional issues onsite	?	-	-		·
NO							
			······································				
Are there any addit	ional supplie	s/equipment neede	d? If so, what items and v	when?			
NO			·	··· ···			
Have there been an	y changes to	the current schedu	ule, including volumes ne	eded by client	?		
NO							
Has client provided	any operation	onal feedback (posi	tive or negative)?				
Person:	-		Company:			XTO	
N/A							
Additional Co	nments						
Filled weir and settlin	ng tanks to res	sume recycle operati	ons 8-02-2012	<u> </u>			

Date:	8,	/2/2012		Report	Number:		53
				Unit N	lumber:		8
Client:		ХТО			hift Onsite Time:	5:30	am/pm
Location:		lash 29		S	hift Offsite Time:	4:00 PM	am/pm
Site Contact:		Jackson				10.5	Total hrs
Site Contact:	Jas	on Distall		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Todav:	3 hrs	Cumulativ	e Processing	Hrs:	152	hrs
BBLS Processe		1,392 bbls	and the second se	BBLS Proces			9 bbls
BBLS/Hr Proc		464		BBLS/Hr Proc			bbl/hr
Lead Supervisor:	Jas	on Distall	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator			1200		20v 100a	7.05	3.32
Crew	Eddie	e McGruder	1400		N/A	N/A	N/A
	San	nmy Dean	1600		20v 100a	7.03	3.27
	F	Ray Lee	N/A		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
-			Chemical	Usage	Start Inv.	End Inv.	On Orde
-			HcL Acid	143	3,651	3,508	0110100
L			Sodium Hydroxide	117	1,968	1,851	
Visitors:							
Visitors:							
Visitors:							
		tional issues onsite? ating, the lost power.	,				
re there any additi O	onal supplie	s/equipment needed	I? If so, what items and v	when?			
ave there been an O	y changes to	the current schedu	le, including volumes ne	eded by client	?		
	any operatio	onal feedback (positi	ve or negative)?				
as client provided			Company:			хто	
as client provided Person:							
T							

Date:	8/	/3/2012		Report	Number:		54
Buter	0,	3,2022		· · · · · ·	lumber:		8
Client:		XTO			hift Onsite Time:	5:30	am/pm
Location:		lash 29		SI	hift Offsite Time:	4:00 PM	am/pm
Site Contact:		Jackson d Edwards		Bropont		10.5 DROCES	Total hr: SS WATER
Site Contact:		J Edwards		Present	Onsite Activities:	PROCES	S WATER
Processing Hr	s Today:	6 hrs	Cumulativ	e Processing	Hrs:	158	hrs
BBLS Processe		3,351 bbls		BBLS Proces		63,34	0 bbls
BBLS/Hr Proc	essed:	558.5	Cumulative	BBLS/Hr Proc	essed:	400.9	bbl/hr
Lead Supervisor:	Cha	d Edwards	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		on Distall	1200		20v 100a	6.99	3.29
Crew		McGruder	1400		N/A	N/A	N/A
	Sam	nmy Dean	1500		20v 100a	7.03	3.18
	R	ay Lee	N/A		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
[			Chemical	Usage	Start Inv.	End Inv.	On Orde
[			HcL Acid	345	3,508	3,163	
			Sodium Hydroxide	361	1,851	1,490	
Visitors:	Bo	Jackson					
Visitors:					L		
Visitors:							
are there any ahn	ormal operat	ianal locuse analite'					
o	ormai operat	ional issues onsite	f				
e there any additions, supply list will b			1? If so, what items and v	vhen?			
							_
			1. t. d. d.				
			le, including volumes ne ng produced water do to po		<u>{</u>		
s client provided	any operatio	nal feedback (posit	ive or negative)?				
as chefit provided			Company:			хто	
Person:							
Person:	nments		<u> </u>				
Person:		n occasional minor a	adjustment is needed. Incr	eased rate to 4	10 gpm without e	ffecting the wa	ter quality.

# Appendix B

Table	B-2
TUDIC	02

Date:	8/	4/2012		· · · · ·	Number:		55
				Unit	Number:		8
Client:		XTO			hift Onsite Time:	2:30	am/pm
Location:		ash 29		S	hift Offsite Time:	2:00 PM	am/pm
Site Contact:		Jackson				11.5	Total hrs
Site Contact:	Unac	d Edwards		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	Today:	8.75 hrs	Cumulativ	e Processing	Hrs:	166.7	5 hrs
BBLS Processed	d Today:	4,903 bbls		BBLS Proces		68,24	3 bbls
BBLS/Hr Proc		560.3428571		BBLS/Hr Proc	1		bbl/hr
			h		<b>----------------------------------------------------------------------------</b> -		
Lead Supervisor:	Chao	d Edwards	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Jas	on Distall	06:00		20v 100a	7.1	4.25
Crew	Eddie	McGruder	10:00		20v 100a	7.08	4.03
	Sam	imy Dean	12:30		20v 100a	7.03	3.25
Γ	R	ay Lee	N/A		N/A	N/A	N/A
	Ke	en Ehler	N/A		N/A	N/A	N/A
	Ada	m Pollard	N/A		N/A	N/A	N/A
Γ	Eli	Tangura					
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	505	3,163	2,658	
			Sodium Hydroxide	508	1,490	982	
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
re there any addition b, supplies on order ave there been any	changes to	the current schedu	I? If so, what items and v Ie, including volumes ne g produced water do to po	eded by client		on expects th	at to change
	any operatio	nal feedback (positi	ive or negative)?				
Person:		lo Jackson	Company:			ХТО	
is pleased with our returning rate up to			ve are currently limited by	our incoming s	upply of produced	water. He ha	s been work
Additional Com							
	al adjustmen	to needed today Bat	h pH and turbidity are stat	la 14/a had to a	shut down treating	at 12:45 Bo	indicated th

Date:	8,	/5/2012		Report	Number:		56
				Unit N	lumber:		8
Client:		хто		S	hift Onsite Time:	6:00	am/pm
Location:	N	lash 29		SI	hift Offsite Time:	4:00 PM	am/pm
Site Contact:	Во	Jackson				11.5	Total hrs
Site Contact:	Cha	d Edwards		Present (	Onsite Activities:	PROCES	S WATER
Processing Hrs	s Today:	6 hrs	Cumulativ	e Processing	Hrs:	172.75	5 hrs
BBLS Processe	d Today:	3,263 bbls	Cumulative	BBLS Proces	ssed:	71,50	6 bbls
BBLS/Hr Proc	essed:	543.8333333	Cumulative	BBLS/Hr Proce	essed:	413.9	bbl/hr
Lead Supervisor:	Cha	d Edwards	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator			08:00		20v 100a	7.1	5.12
Crew	Eddie	e McGruder	10:00		20v 100a	7.09	4.03
	San	nmy Dean	12:30		20v 100a	7.11	4.05
	ĥ	Ray Lee	N/A		N/A	N/A	N/A
	Ke	en Ehler	N/A		N/A	N/A	N/A
ľ	Ada	m Pollard	N/A		N/A	N/A	N/A
-	-		Chemical	Usage	Start Inv.	End Inv.	On Orde
ĺ			HcL Acid	326	2,658	2,332	
•			Sodium Hydroxide	331	982	651	
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
ere there any abn	ormal operat	tional issues onsite	?				
re there any additi o, supplies on orde		s/equipment needec	I? If so, what items and v	when?			
ave there been any o	y changes to	the current schedu	le, including volumes ne	eded by client	?		
as client provided Person:	any operatio	onal feedback (posit	ive or negative)? Company:			хто	
Additional Con		g rate tomorrow shou	ld be about 4500 bbls.				

Date:		/6/2012		Report	Number:		57
				Unit N	lumber:		8
Client:		хто		s	hift Onsite Time:	5:30	am/pm
Location:	١	lash 29		The Real Property of the Prope	hift Offsite Time:	7:30 PM	am/pm
Site Contact:	Bc	Jackson				11.5	Total hrs
Site Contact:	Cha	d Edwards		Present	Onsite Activities:	PROCES	S WATER
Processing Hrs		10.5 hrs		e Processing		183.25	
BBLS Processe		5,060 bbls		BBLS Proces			6 bbls
BBLS/Hr Proc	essed:	481.9047619	Cumulative	BBLS/Hr Proc	essed:	417.8	bbl/hr
Lead Supervisor:	Cha	d Edwards	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Sar	nmy Dean	08:00		20v 100a	7.1	2.58
Crew	Eddi	e McGruder	10:00		20v 100a	7.01	2.25
		Ray Lee	14:00		20v 100a	7.05	2.06
	C	hris Ray	16:00		20v 100a	7.09	1.89
ļ	Reg	inald White	N/A		20v 100a	7	1.92
-			N/A		N/A	N/A	N/A
ŀ			Chemical	Usage	Start Inv.	End Inv.	On Orde
Ī			HcL Acid	512	2,332	1,820	
			Sodium Hydroxide	379	651	272	
Visitors:	Bc	Jackson					
Visitors:							
Visitors:							
Vere there any abn	ormal opera	tional issues onsite	?				
re there any additi	onal supplie	s/equipment needed	1? If so, what items and v	when?			
		will begin receiving to					
lave there been an	v changes to	the current schedu	le, including volumes ne	eded by client	?		
			. Bo Jackson will be out F		·	ture as much	water as
		evening shifts at his s			•		
las client provided	any operation	onal feedback (posit	ive or negative)?				
Person:			Company:			XTO	
Additional Con	mente						

we will continue to run after reaching the 35,000 bbls need which will be tight given limited incoming produced water. ٦

Date:		/7/2012		Report	Number:		58
				Unit N	lumber:		8
							·;
Client:		XTO			hift Onsite Time:	6:00	am/pm
Location:		lash 29		SI	hift Offsite Time:	12:00 PM am/pm 18 Total hrs	
Site Contact: Site Contact:		Jackson ul Worley		Brosont	Onsite Activities:		SS WATER
Sile Contact.	Fd			Present	Unsite Activities.	PROUE	33 WATER
Processing Hr	s Today:	11 hrs	Cumulativ	e Processing	Hrs:	194	hrs
BBLS Processe	d Today:	5,560 bbls	Cumulative	BBLS Proces	ssed:	82,1	26 bbls
BBLS/Hr Proc	essed:	505.4545455	Cumulative	BBLS/Hr Proc	essed:	423.	3 bbl/hr
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	pH	Turbidity
Lead Operator	San	nmy Dean	08:00		100	6.89	1.43
Crew	Eddie	e McGruder	10:00		100	6.93	0.89
	F	Ray Lee	14:00		100	7.12	0.93
	С	hris Ray	16:00		100	7.24	1.23
	Regi	nald White	18:00		100	7.1	1.56
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	375	3,750	3,375	eceived 4000
			Sodium Hydroxide	420	1,200	780	Yes
Visitors:	Bo	Jackson					
Visitors: Visitors:	· · · · · · · · · · · · · · · · · · ·						
lere there any abn	ormal operation	tional issues onsite	2				
0			·····				
e there any addit	onal supplie	s/equipment needed	d? If so, what items and v	when?			
ave there been an		the current schodu	lo including volumos no	o'dod by allont			
		the current schedu	ile, including volumes ne EEN SHIFTS.	eded by client	?		
PLIT SHIFTS TO L			EEN SHIFTS.	eded by client	?		
PLIT SHIFTS TO L		NKS FILL IN BETWE	EEN SHIFTS.	eded by client	?	ХТО	

Date:		/8/2012		Report	Number:		59
		-,		· · · ·	lumber:	•	8
					1		
Client:	<u> </u>	ХТО		S	hift Onsite Time:	6:00	am/pm
Location:	N	lash 29		S	hift Offsite Time:	1:00 AM	am/pm
Site Contact:	Bo	Jackson				19	Total hrs.
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCE	SS WATER
Processing Hrs	s Today:	12 hrs	Cumulativ	e Processing	Hrs:	206	hrs
BBLS Processe	d Today:	4,126 bbls	Cumulative	BBLS Proces	ssed:	86,2	52 bbls
BBLS/Hr Proc	essed:	343.8333333	Cumulative	BBLS/Hr Proc	essed:	418.	7 bbl/hr
Lead Supervisor:	Pau	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator	Ke	en Erler	08:00		100	7.21	1.87
Crew	Eddie	e McGruder	10:00		100	7.45	0.78
	R	lay Lee	14:00		100	6.89	0.69
Γ	Ch	ris Perry	16:00		100	7.33	0.56
Γ	Regi	nald White	18:00		100	7.1	1.34
Γ			N/A		N/A	N/A	N/A
Γ							
Γ			Chemical	Usage	Start Inv.	End Inv.	On Order
Γ			HcL Acid	300	3,750	3,450	eceived 4000 g
-			Sodium Hydroxide	335	3,280	2,945	eceived 2500 g
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
Nora thora any aba	ormal oporat	tional issues onsite?	· · · · · · · · · · · · · · · · · · ·	·	<u></u>		
	ormai operat						
No No							
No				when?			
No			1? If so, what items and v	when?			
No				when?			
No				when?			
NO Are there any addition	onal supplie:	s/equipment needed	l? If so, what items and v		?		
Are there any addition Have there been any	onal supplies y changes to	s/equipment needed	1? If so, what items and v le, including volumes ne		?		
Are there any addition Have there been any	onal supplies y changes to	s/equipment needed	1? If so, what items and v le, including volumes ne		?		
No Are there any addition Have there been any	onal supplies y changes to	s/equipment needed	1? If so, what items and v le, including volumes ne		?		
Are there any addition Have there been any SPLIT SHIFTS TO LE	onal supplies y changes to ET DIRTY TA	s/equipment needed	I? If so, what items and v le, including volumes ne EEN SHIFTS.		?		
Are there any addition Have there been any SPLIT SHIFTS TO LE	onal supplies y changes to ET DIRTY TA	s/equipment needed the current schedu NKS FILL IN BETWE	I? If so, what items and v le, including volumes ne EEN SHIFTS.		?		
Are there any addition Have there been any SPLIT SHIFTS TO LE Has client provided	onal supplies y changes to ET DIRTY TA	s/equipment needed the current schedu NKS FILL IN BETWE	I? If so, what items and v le, including volumes ne EEN SHIFTS. ive or negative)?		?	XTO	
No Are there any addition Have there been any SPLIT SHIFTS TO LE Has client provided	onal supplies y changes to ET DIRTY TA any operatio	s/equipment needed the current schedu NKS FILL IN BETWE	I? If so, what items and v le, including volumes ne EEN SHIFTS. ive or negative)?		?	XTO	
Are there any addition Have there been any SPLIT SHIFTS TO LE Has client provided Person:	onal supplies y changes to ET DIRTY TA any operatio	s/equipment needed the current schedu NKS FILL IN BETWE	I? If so, what items and v le, including volumes ne EEN SHIFTS. ive or negative)?	eded by client			THEN SHUT
Are there any addition Have there been any SPLIT SHIFTS TO LE Has client provided Person: Additional Com	onal supplies y changes to ET DIRTY TA any operation nments TION AT 6 AM	s/equipment needed the current schedu NKS FILL IN BETWE onal feedback (posit	I? If so, what items and v le, including volumes ne EEN SHIFTS. ive or negative)? Company:	eded by client	D FROM DIRTY T	ANKS AND T	

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Date:	8/	9/2012		Report	Number:		60
				Unit N	Number:		8
Client:		XTO		s	hift Onsite Time:	6:00	am/pm
Location:	N	ash 29			hift Offsite Time:	1:00 AM	am/pm
Site Contact:	Во	Jackson				12	Total hr
Site Contact:	Pau	I Worley		Present	Onsite Activities:	PROCES	S WATER
Processing Hr	s Today:	8 hrs	Cumulativ	e Processing	Hrs:	214	hrs
BBLS Processe	d Today:	3,441 bbls	Cumulative	BBLS Proces	ssed:	89,69	13 bbls
BBLS/Hr Proc	essed:	430.125	Cumulative	Cumulative BBLS/Hr Processed:			
Lead Supervisor:	Рац	Il Worley	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator	Eddie	McGruder	08:00		100	6.97	1.87
Crew	R	ay Lee	10:00		100	6.78	0.78
	Ch	ris Perry	19:00		100	7.23	0.69
	Regi	nald White	21:00		100	6.89	0.56
			22:00		100	6.76	1.23
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	351	3,450	3,099	no
			Sodium Hydroxide	374	2,945	2,571	no
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
0		ional issues onsite					
re there any addit	ional supplie	s/equipment neede	d? If so, what items and v	when ?			
	· · · · · · · · · · · · · · · · · · ·		ule, including volumes ne	eded by client	1?		
		NKS FILL IN BETWI	EEN SHIFTS.				
as client provided	any operatio	nal feedback (posit	tive or negative)?				
as olicite providee			Company:			хто	
Person:			·		-		

WELL WITH MINOR ADJUSTMENTS TO THE CHEMICALS.

Date:	8/3	10/2012		Report Number: Unit Number:			61
				Unit N	lumber:		8
Client:		хто		S	hift Onsite Time:	6:00	am/pr
Location:	N	ash 29		S	hift Offsite Time:	4:00 PM	am/pn
Site Contact:	Bo	Jackson				9	Total hr
Site Contact:	Pau	Il Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Today:	9 hrs	Cumulativ	e Processing	Hrs:	223	hrs
BBLS Processe		3,990 bbls		BBLS Proces			3 bbls
BBLS/Hr Proc		443.33333333	Cumulative	BBLS/Hr Proc	essed:	420.1 bbl/hr	
Lead Supervisor:	Pau	J Worley	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator		McGruder	08:00		100	6.76	1.35
Crew	R	ay Lee	10:00		100	6.23	1.67
	 Ch	ris Perry	12:00		100	7.12	1.98
	Regi	nald White	14:00	-	100	6.52	1.32
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Ord
			HcL Acid	359	2,748	2,389	no
			Sodium Hydroxide	403	2,197	1,794	no
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
0		ional issues onsite s/equipment neede	? d? If so, what items and v	when?			
		the current schedu	ule, including volumes ne	eded by client	?		
ave there been an	y changes to	the current schede					
as client provided		nal feedback (posi		·		×T0	
			tive or negative)? Company:	 		хто	

Date:	8/	11/2012		Report	Number:	1	62
					lumber:		8
Client:	N	XTO			hift Onsite Time:	6:00	am/prr
Location: Site Contact:		lash 29 Jackson		5	hift Offsite Time:	6:00 PM	am/pr
Site Contact:		Jackson		Present	Onsite Activities:	10 PROCES	Total hr SS WATER
one contact.				, reserve	onsite / buvnies.	TROOLE	
Processing Hr	s Today:	10 hrs	Cumulativ	e Processing	Hrs:	233	hrs
BBLS Processe	d Today:	4,279 bbls	Cumulative	BBLS Proces	ssed:	97,96	2 bbls
BBLS/Hr Proc	essed:	427.9	Cumulative	BBLS/Hr Proc	essed:	420.4 bbl/hr	
Lead Supervisor:	Paı	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		McGruder	08:00		100	6.87	1.97
Crew	R	ay Lee	10:00		100	6.43	1.89
	Ch	ris Perry	12:00		100	6.97	1.78
	Regi	nald White	14:00		100	6.89	1.43
			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	385	2,389	2,004	no
			Sodium Hydroxide	411	1,794	1,383	no
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
ere there any abn		ional issues onsite					
e there any additi	onal supplie	s/equipment neede	d? If so, what items and v	vnen /			
ve there been an	y changes to		ule, including volumes ne		?		
ve there been an	y changes to	the current schedu	ule, including volumes ne		?	хто	

Date: 8/1		.2/2012		Report	Number:		63
				Unit N	lumber:		8
Client:		хто		S	hift Onsite Time:	6:00	am/pm
Location:		ash 29			hift Offsite Time:	6:00 PM	am/pm
Site Contact:		Jackson				16 hrs	Total hrs
Site Contact:	Pau	i Worley		Present	Onsite Activities:		S WATER
Processing Hr		16 hrs		e Processing		239	hrs
BBLS Processe		3,359 bbls		BBLS Proces		101,321 bbls	
BBLS/Hr Proc	essed:	209.9375	Cumulative	BBLS/Hr Proc	essed:	423.9 bbl/hr	
Lead Supervisor:	Pau	l Worley	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator	Eddie	McGruder	08:00		100	6.87	1.97
Crew	Ra	ay Lee	10:00		100	6.43	1.89
		ris Perry	12:00		100	6.97	1.78
[	Regin	nald White	14:00		100	6.89	1.43
			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
-			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	350	2,004	1,654	no
			Sodium Hydroxide	411	1,794	1,383	no
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
ere there any abn	ormal operati	ional issues onsite	?				
ave there been an	y changes to	the current schedu	d? If so, what items and v ule, including volumes ne		?		
ave there been an as client provided	y changes to		ule, including volumes ne tive or negative)?		?		
ave there been an	y changes to	the current schedu	ule, including volumes ne		?	хто	

when handling chemicals. It is hot make sure we drink plenty of fluids if feel weak go find a place to sit down. Worked on unit did housekeeping.

Date:	8/	13/2012		Report	Number:		64
<b>F</b>	i			Unit I	Number:		8
Olionte		хто			hift Onsite Time:	6.00	
Client:	<b>_</b>					6:00	am/pm
Location:		lash 29			hift Offsite Time:	6:00 PM 12 hrs	am/pm Total hrs.
Site Contact:		Jackson		Brogent	Onsite Activities:		SS WATER
Site Contact:	Pa	ul Worley		Fresenc	Unsite Activities.		55 WATER
Processing Hrs	s Today:	12 hrs	Cumulativ	ve Processing	Hrs:	235	hrs
BBLS Processe		4,735 bbls	Cumulativ	e BBLS Proce	ssed:	106,0	56 bbls
BBLS/Hr Proc	essed:	394.5833333	Cumulative	BBLS/Hr Proc	essed:	451.3 bbl/hr	
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	pH	Turbidity
Lead Operator		e McGruder	08:00		100	6.87	1.97
Crew		Ray Lee	10:00	1	100	6.43	1.89
		ris Perry	12:00	1	100	6.97	1.78
		nald White	14:00		100	6.89	1.43
-			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
ľ			·	•	<b></b>	<u>`</u>	
The second se			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	405	2,004	1,599	no
L			Sodium Hydroxide	411	1,794	1,383	no
Visitors:	Bo	Jackson					
Visitors:							
Visitors:			-				
					I		
lere there any abn	ormal operat	tional issues onsite?					
lo							
ve there any additi	onal supplie	s/equipment needed	? If so, what items and	when?			
lave there been any	y changes to	the current schedul	e, including volumes ne	eded by clien	t?		
lac alight provided	any operation	onal feedback (positi	vo or pogativo\2				k
Person:	any operation	man reeuback (positi	Company:	r · · ·	ſ		
reison:			Company:	I	I	хто	
Additional Con	nments						
			بالمامينية المتحدينية متحام المتحد		ويتعارفه والمستعاد والمستع		

Performed our morning JSA, Weather conditions some rain, slippery and muddy. Proper PPE when handling chemicals. Watch out for your coworkers. When lifting use the buddy system. XTO wells keep going down, have a crew working on them.

Date:	8/	14/2012		Report	Number:		65
		,			lumber:		8
					I		<u> </u>
Client:		хто		s	hift Onsite Time:	6:00	am/pm
Location:	N	ash 29		S	hift Offsite Time:	6:00 PM	am/pm
Site Contact:	Во	Jackson				14 hrs	Total hrs.
Site Contact:	Sam	my Deam		Present	Onsite Activities:	PROCES	SS WATER
¹				L <u>.</u>			
Processing Hrs	s Today:	14 hrs	Cumulativ	e Processing	Hrs:	251	hrs
BBLS Processe		6,008 bbls	Cumulative	BBLS Proces	ssed:	112,0	64 bbls
BBLS/Hr Proc	essed:	429.1428571	Cumulative	BBLS/Hr Proc	essed:	446.5	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Eddie	McGruder	08:00		100	6.87	1.97
Crew		ay Lee	10:00		100	6.43	1.89
		ris Perry	12:00		100	6.97	1.78
	Regi	nald White	14:00		100	6.89	1.43
			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
	· · · · <b>_ · _</b> · · · · · · · ·		L	1	I/		
- -			Chemical	Usage	Start Inv.	End Inv.	On Order
-			HcL Acid	525	2,004	1,479	no
L			Sodium Hydroxide	598	1,794	1,196	no
Visitors:	Bo	Jackson	,				
Visitors:							
Visitors:							
			L		ــــــــــــــــــــــــــــــــــــــ		
		·					
Were there any abn	ormal operat	ional issues onsite?					
No							
Are there any additi	onal supplie	s/equipment needed	? If so, what items and v	when?			
Have there been an	y changes to	the current schedul	le, including volumes ne	eded by client	?		
Has client provided	any operation	onal feedback (positi	ve or negative)?				
Person:			Company:			XTO	
Additional Con	nments						
Performed our morni	ing JSA, Prope	er PPE when handling	chemicals. Team work he	lp each other o	ut know where ou	ir musting are	a is. XTO Still

Performed our morning JSA, Proper PPE when handling chemicals. Team work help each other out known trying to get wells back up and online. Placed an order for Caustic will not be here till Friday morning.

Date:	8/	15/2012		Report	Number:		66
				Unit N	lumber:		8
Client:		хто		S	hift Onsite Time:	. 6:00	am/pm
Location:	N	lash 29			hift Offsite Time:	6:00 PM	am/pm
Site Contact:		Jackson			int offsite finite.	16 hrs	Total hrs
Site Contact:		my Deam		Present	Onsite Activities:		S WATER
Processing Hr		16 hrs	Cumulativ	e Processing	Hrs:	267	hrs
BBLS Processe	d Today:	7,282 bbls	Cumulative	BBLS Proces	ssed:	119,34	46 bbls
BBLS/Hr Proc	cessed:	455.125	Cumulative	BBLS/Hr Proc	essed:	447.0 bbl/hr	
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator	Eddie	McGruder	08:00		100	6.87	1.97
Crew	F	ay Lee	10:00		100	6.43	1.89
	Ch	ris Perry	12:00		100	6.97	1.78
	Regi	nald White	14:00		100	6.89	1.43
			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	525	2,004	1,479	no
			Sodium Hydroxide	598	1,794	1,196	no
Visitors:	Bo	Jackson					
Visitors:							
Visitors:		]					
		ional issues onsite s/equipment neede	? d? If so, what items and v	vhen?		· · · · · · · · · · · · · · · · · · ·	
ave there been an	y changes to	the current schedu	ıle, including volumes ne	eded by client	?		
		the current schedu		eded by client	?		
				eded by client	?	ХТО	

some pumps up and going. Received 2 totes of Caustic from Hobbs Yard.

Г

Date:	8/	16/2012		Report	Number:		67
	-,	-,			lumber:		8
					<u> </u>	<u> </u>	
Client:		ХТО		s	hift Onsite Time:	6:00	am/pm
Location:	N	lash 29		S	hift Offsite Time:	6:00 PM	am/pm
Site Contact:	Bo	Jackson				11 hrs	Total hrs.
Site Contact:	Sam	imy Deam		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Today:	11 hrs	Cumulativ	e Processing	Hrs:	278	hrs
BBLS Processe	d Today:	3,056 bbls	Cumulativ	e BBLS Proces	ssed:	121,4	02 bbls
BBLS/Hr Proc	essed:	277.8181818	Cumulative	BBLS/Hr Proc	essed:	436.7	bbl/hr
			<b></b>				
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator	Eddie	e McGruder	08:00		100	6.87	1.97
Crew	F	Ray Lee	10:00		100	6.43	1.89
	Ch	ris Perry	12:00		100	6.97	1.78
	Regi	nald White	14:00		100	6.89	1.43
			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
							<b>^</b>
			Chemical	Usage	Start Inv.	End Inv.	On Order
Ĩ			HcL Acid	355	1,479	1,124	no
-			Sodium Hydroxide	266	1,196	930	Yes
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
Were there any abn	ormal operat	tional issues onsite?	)				
No							
Are there any additi	onal supplie	s/equipment needed	? If so, what items and	when?			
Have there been an	y changes to	the current schedul	e, including volumes ne	eded by client	?		
Has client provided	any operatio	onal feedback (positi	ve or negative)?				
Person:			Company:			XTO	
Additional Con	nments	·					
	_	l					· · · · ·

Performed our morning JSA, Proper PPE when chemicals. Pick up all extra hose laying around. Receive 1 tote of Caustic from Third Party Vendor G&K. Had to repair 4 " valve screws broke off. Bought to C Clamps to fix valve. Acid arrive to location. Third party truck broke down on location.

Date:	8/1	17/2012		Report	Number:		58
			I		lumber:		8
Client:		ХТО		S	hift Onsite Time:	6:00	am/pm
Location:		ash 29		S	hift Offsite Time:	6:00 PM	am/pm
Site Contact:		Jackson				4 hrs	Total hrs
Site Contact:	Sam	my Deam		Present	Onsite Activities:	PROCES	S WATER
Processing Hrs	Today:	4 hrs	Cumulativ	ve Processing	Hrs:		hrs
BBLS Processed	-	1,009 bbis		e BBLS Proces			11 bbls
BBLS/Hr Proce		252.25		BBLS/Hr Proc		434.1 bbl/hr	
Lead Supervisor:	Sarr	imy Dean	Readings:	flow back	Volts/Amps	pH	Turbidit
Lead Operator		McGruder	08:00	HOW BUCK	100	6.87	1.97
Crew		ay Lee	10:00		100	6.43	1.89
		ris Perry	12:00	l	100	6.97	1.78
F		nald White	14:00	<u> </u>	100	6.89	1.43
F			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
Ļ			Chamical		Charles T	End Inv.	0 - 0 - 4
			Chemical HcL Acid	Usage 150	Start Inv. 1,124	974	On Orde no
. L			Sodium Hydroxide	130	3,930	3,800	Yes
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
		<u></u> ^					
	rmal operat	ional issues onsite	?				
re there any additio	nal supplies	s/equipment needed	d? If so, what items and v	when?			
ave there been any	changes to	the current schedu	le, including volumes ne	eded by client	?		
			ive or negative)?				
as client provided a	iny operatio	nal feedback (posit	IVE OF REGULIVES:				
as client provided a	iny operatio	nal feedback (posit	Company:			XTO	
	iny operatio	nal feedback (posit				XTO	
		nal feedback (posit				XTO	

Performed our morning JSA, Proper PPE when handling chemicals. Caustic will not show up until Monday 08-20-2012. Replace the Yardney Media Filter box on the Brown Bear. Raining watch walking area muddy and slippery

Date:	8/	18/2012		Report	Number:		69
		<u> </u>			lumber:		8
Client:		XTO		S	hift Onsite Time:	6:00	am/pm
Location:	N	lash 29		S	hift Offsite Time:	6:00 PM	am/pm
Site Contact:	Во	Jackson				6 hrs	Total hrs.
Site Contact:	San	1my Deam		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr		6 hrs	Cumulativ	e Processing	Hrs:	288	hrs
BBLS Processe	d Today:	2,885 bbls	Cumulative	BBLS Proces	ssed:	125,2	96 bbls
BBLS/Hr Proc	essed:	480.8333333	Cumulative	BBLS/Hr Proc	essed:	435.1	bbl/hr
·		· · · · · · · · · · · · · · · · · · ·					
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator	Eddie	e McGruder	08:00		100	6.87	1.97
Crew	F	Ray Lee	10:00		100	6.43	1.89
		ris Perry	12:00		100	6.97	1.78
		nald White	14:00		100	6.89	1.43
			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
			· · · · · · · · · · · · · · · · · · ·				·
			Chemical	Usage	Start Inv.	End Inv.	On Order
		····	HcL Acid	305	974	669	yes
L			Sodium Hydroxide	250	3,800	3,550	No
Visitors:	Bo	Jackson					
Visitors:							
Visitors:						· · · · · · · · · · · · · · · · · · ·	
==		······································	·····				
Were there any abn	ormal operat	tional issues onsite	······································				
No	onnur operu		• • • • • • • • • • • • • • • • • • •				
Are there any additi	onal cupplio	s/oquinment needes	1? If so, what items and v	when?			
Are mere any addit	onal Supplie	siequipment needet	is it so, what terms and t				
			···· ·				
Unite there been on	v eben and te	the ourrent cohodu	le, including volumes ne		<u></u>		
Have mere been an	y changes to	the current schedu	ie, including volumes ne	eded by client	ſ		
					e.	·	
Hae client provided	any operativ	onal feedback (posit	ive or negative)?				
Person:	any operation	man reeuback (posit	Company:	·		хто	
1 010011.		<del>_</del>	j ovnipany.		·	NU	<u></u>
Additional Cor	nmente						
Additional COI		L	··	·			
Performed our morn	ing JSA Prope	r PPE drink plenty of	fluid. Watch out for each c	other.			

Date:	8/	19/2012		Report	Number:		70
				Unit N	lumber:		8
Client:		хто	1	s	hift Onsite Time:	6:00	am/pm
Location:	N	ash 29			hift Offsite Time:	6:00 PM	am/pm
Site Contact:	Bo	Jackson				4 hrs	Total hr
Site Contact:	Sam	my Deam		Present	Onsite Activities:	PROCES	S WATER
Processing Hrs	s Today:	4 hrs	Cumulativ	e Processing	Hrs:	292	hrs
BBLS Processe		1,009 bbls		BBLS Proces			D5 bbls
BBLS/Hr Proc		252.25		BBLS/Hr Proc		432.6 bbl/hr	
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator	Eddie	McGruder	08:00		100	6.87	1.97
Crew		ay Lee	10:00		100	6.43	1.89
		ris Perry	12:00		100	6.97	1.78
	Regi	nald White	14:00		100	6.89	1.43
			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	125	3,669	3,544	yes
			Sodium Hydroxide	150	3,550	3,400	No
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
)		ional issues onsite s/equipment needed	? d? If so, what items and v	when?			
ave there been an	y changes to	the current schedu	ile, including volumes ne	eded by client	1?		
			tive or negative)?				
as client provided	any operatio	nal feedback (posit	live of negative/:				
as client provided Person:	any operatic	onal feedback (posit	Company:			XTO	

Date:	8/2	20/2012		Report	t Number:		71
				Unit I	Number:		8
Client:		хто		S	hift Onsite Time:	6:00	am/pn
Location:	N	ash 29			hift Offsite Time:	6:00 PM	am/pn
Site Contact:	Bo	Jackson				12 hrs	Total hi
Site Contact:	Sam	my Deam		Present	Onsite Activities:	Maint	enance
aint on Unit							
Processing Hrs		0 hrs		e Processing		292	hrs
BBLS Processe		0 bbls		BBLS Proce		126,3	05 bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	432.6	bbl/hr
Lead Supervisor:	Sam	imy Dean	Readings:	flow back	Volts/Amps	рН	Turbidi
Lead Operator	Eddie	McGruder	08:00		100	6.87	1.97
Crew	R	ay Lee	10:00		100	6.43	1.89
	Ch	ris Perry	12:00		100	6.97	1.78
	Regir	nald White	14:00		100	6.89	1.43
			16:00		100	6.76	1.56
r			N/A		N/A	N/A	N/A
-			Chemical	Usage	Start Inv.	End Inv.	On Ord
[			HcL Acid	0	3,544	3,544	yes
			Sodium Hydroxide	0	3,400	3,400	No
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
ere there any abn	ormal operat	ional issues onsite	9?				
e there any additi	onal supplies	s/equipment neede	ed? If so, what items and v	vhen?			
ve there been any	/ changes to	the current sched	ule, including volumes ne	eded by client	t?		
·····	any operatio	nal feedback (posi	/				
Person:			Company:		1	XTO	
Additional Con	monte						

Date:							
Date:	8/	21/2012		Report	Number:		72
				Unit N	lumber:		8
Client:		хто		s	hift Onsite Time:	5:00	am/pm
Location:	N	lash 29			hift Offsite Time:	11:00 PM	am/pm
Site Contact:	Bo	Jackson				18 hrs	Total hrs
Site Contact:	Sar	nmy Dean		Present	Onsite Activities:	PROCES	S WATER
Decension III	- <b>T</b> - d						
Processing Hr BBLS Processe		8 hrs 3,208 bbls		Processing		300	hrs
BBLS Processe BBLS/Hr Proc		3,208 bbis		BBLS Proces			13 bbls
BBL3/HI FIU	esseu.	401	Cumulative	BBLS/Hr Proc	essea:	431.7	bbl/hr
Lead Supervisor:	Sar	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		nris Perry	16:30	How back	110	7.54	0.64
Crew		inald White	18:30		110	7.54	1.67
			20:30		110	7.02	1.67
			22:30		110	7.34	1.25
			N/A		N/A	N/A	N/A
			N/A	-	N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	400	5,300	4,900	No
Visitors:	De	Jackson	Sodium Hydroxide	350	2,980	2,630	No
Visitors:	ĐU	JACKSUIT					
Visitors:							
VISILUI 3.							
• 151(013.							
	ormal opera	tional issues onsite	2	<u> </u>			
ere there any abn	ormal opera	tional issues onsite	?			· · ·	
	ormal opera	tional issues onsite	?			· · · · · · · · · · · · · · · · · · ·	
ere there any abn	ormal opera	tional issues onsite	?				
ere there any abn	ormal opera	tional issues onsite	?				
l <mark>ere there any abn</mark> D				when?		· · · · · · · · · · · · · · · · · · ·	
l <mark>ere there any abn</mark> D			? d? If so, what items and v	vhen?			
ere there any abn				vhen?			
ere there any abn				vhen?			
ere there any abn o re there any additi	ional supplie	s/equipment neede	d? If so, what items and v	· · · · ·	?		
ere there any abn o re there any additi	ional supplie	s/equipment neede		· · · · ·	?		
ere there any abn o re there any additi o ave there been an	ional supplie	s/equipment neede	d? If so, what items and v	· · · · ·	?		
ere there any abn the there any addition ave there been an	ional supplie y changes to	s/equipment neede	d? If so, what items and v ile, including volumes ne	· · · · ·	?		
ere there any abn	ional supplie y changes to	s/equipment neede	d? If so, what items and v Ile, including volumes ne live or negative)?	· · · · ·	?	XIO	
ere there any abn the there any addition ave there been an the client provided	ional supplie y changes to	s/equipment neede	d? If so, what items and v ile, including volumes ne	· · · · ·	?	хто	
ere there any abn the there any addition ave there been an the there been an the there been an the there been and the	ional supplie y changes to any operatio	s/equipment neede	d? If so, what items and v Ile, including volumes ne live or negative)?	· · · · ·	?	хто	

Date:	8/	22/2012		Report	Number:		73
	· · ·				lumber:		8
		<u></u>	1				,
Client:		XTO			hift Onsite Time:	9:00	am/pm
Location:		lash 29		S	hift Offsite Time:	4:00 PM	am/pm
Site Contact: Site Contact:		Jackson nmy Dean		Bracont	Onsite Activities:	7 hrs	Total hr SS WATER
Sile Contact.	3			Fresent	Unsite Activities.	PROCES	55 WATER
Processing Hrs	Today:	3 hrs	Cumulativ	e Processing	Hrs:	303	hrs
BBLS Processe		1,419 bbls		BBLS Proce		130,9	32 bbls
BBLS/Hr Proc		473	Cumulative	BBLS/Hr Proc	essed:	432.1	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		ris Perry	11:30		110	7.69	1.94
Crew		nald White	13:30	·	110	6.98	0.44
			15:30		110	7	1.67
ſ			15:44		110	6.89	0.24
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
F			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	200	4,900	4,700	No
			Sodium Hydroxide	175	2,630	2,455	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
ere there any abn	ormal opera	tional issues onsite	?				
e there any additi	onal supplie	s/equipment neede	d? If so, what items and v	vhen?			
ve there been any	changes to	the current schedu	ile, including volumes ne	eded by client	?	······	
s client provided	any operatio	onal feedback (posit	tive or negative)?				
Person:		, , , , , , , , , , , , , , , , , , ,	Company:			XTO	

Date:	8/	23/2012		Report	Number:		74
				Unit N	lumber:		8
Client:		хто		c	hift Onsite Time:	10:00	am/pr
Location:	N	lash 29			hift Offsite Time:	7:00 PM	am/pri am/pri
Site Contact:		Jackson			int Onsite Fine.	9 hrs	Total hr
Site Contact:		nmy Dean		Present	Onsite Activities:		S WATER
Processing Hrs	s Today:	5 hrs	Cumulativ	e Processing	Hrs:	308	hrs
<b>BBLS</b> Processe	d Today:	2,648 bbls	Cumulative	BBLS Proces	ssed:	133,58	80 bbls
BBLS/Hr Proc	essed:	529.6	Cumulative	BBLS/Hr Proc	essed:	433.7	bbi/hr
Lead Supervisor:	Sar	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		nris Perry	13:00		110	6.44	1.05
Crew		nald White	15:00		110	7.03	0.381
			17:00		110	7.14	0.668
			18:00		110	7	0.553
			N/A		N/A	N/A	N/A
-			N/A		N/A	N/A	N/A
-			Chemical	Usage	Start Inv.	End Inv.	On Ord
ſ			HcL Acid	150	4,700	4,550	No
-			Sodium Hydroxide	375	2,455	2,080	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
re there any abn n and wind	ormal opera	tional issues onsite?	?				
	onal supplie	s/equipment needeo	I? If so, what items and v	when?			
there any additi							
	v changes to	the current schedu	le including volumes ne	eded by client	 2		
	y changes to	the current schedu	le, including volumes ne	eded by client	?		
re there be <mark>en an</mark>	x	the current schedu		eded by client	?		
e there be <mark>en an</mark>	x			eded by client	?	хто	
e there been an client provided	x		ive or negative)?	eded by client	?	хто	

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Client:       XTO         Location:       Nash 29         Site Contact:       Bo Jackson         Site Contact:       Sammy Dean         Processing Hrs Today:       0         BBLS Processed Today:       0         BBLS/Hr Processed:       0         Lead Supervisor:       Sammy Dean         Lead Supervisor:       Sammy Dean         Lead Operator       Chris Perry         Crew       Reginald White         13:00       18:00         N/A       N/A         N/A       N/A         Visitors:       Bo Jackson         Visitors:       Sodium Hydroxide         Visitors:       O         re there any abnormal operational issues onsite?	umber: nift Onsite Time: nift Offsite Time:		0
Location:       Nash 29         Site Contact:       Bo Jackson         Site Contact:       Sammy Dean         Processing Hrs Today:       0         BBLS Processed Today:       0         BBLS/Hr Processed:       0         Lead Supervisor:       Sammy Dean         Lead Operator       Chris Perry         Crew       Reginald White         Sitors:       N/A         N/A       N/A         N/A       N/A         Chemical       Usage         HcL Acid       0         Sodium Hydroxide       0         Visitors:       Visitors:         visitors:       Visitors:         Visitors:       Image: Site Sonsite?			8
Location:       Nash 29         Site Contact:       Bo Jackson         Site Contact:       Sammy Dean         Processing Hrs Today:       0         BBLS Processed Today:       0         BBLS/Hr Processed:       0         Lead Supervisor:       Sammy Dean         Lead Operator       Chris Perry         Crew       Reginald White         Sitors:       N/A         N/A       N/A         N/A       N/A         N/A       N/A         Chemical       Usage         HcL Acid       0         Sodium Hydroxide       0         Visitors:       Visitors:         visitors:       Visitors:         visitors:       Visitors:         visitors:       Visitors:         visitors:       Visitors:		10.00	
Site Contact:       Bo Jackson         Site Contact:       Sammy Dean         Processing Hrs Today:       0       hrs         BBLS Processed Today:       0       bbls         BBLS/Hr Processed:       0       Cumulative BBLS/Hr Processing         Lead Supervisor:       Sammy Dean       Readings:       flow back         Lead Operator       Chris Perry       13:00       15:00         Crew       Reginald White       17:00       18:00         N/A       N/A       N/A         Stories:       Bo Jackson       Outsitors:       Outsitors:         Visitors:       Bo Jackson       Outsitors:       Outsitors:         Present if there any additional supplies/equipment needed? If so, what items and when?       Outsitems and when?	int offsite time:	10:00 7:00 PM	am/pm
Site Contact:       Sammy Dean       Present         Processing Hrs Today:       0       hrs       Cumulative Processing         BBLS Processed Today:       0       bbls       Cumulative BBLS Processing         BBLS/Hr Processed:       0       Cumulative BBLS/Hr Processing         Lead Supervisor:       Sammy Dean       Readings:       flow back         Lead Operator       Chris Perry       13:00       18:00         Crew       Reginald White       N/A       N/A         N/A       N/A       N/A       N/A         Sodium Hydroxide       0       Sodium Hydroxide       0         Visitors:       Bo Jackson       Sodium Hydroxide       0         visitors:       Image: Single	1	9 hrs	am/pm Total hr:
Processing Hrs Today:       0       hrs       Cumulative Processing         BBLS Processed Today:       0       bbls       Cumulative BBLS Proces         BBLS/Hr Processed:       0       Cumulative BBLS/Hr Processed:       Cumulative BBLS/Hr Processed:         Lead Supervisor:       Sammy Dean       Readings:       flow back         Lead Operator       Chris Perry       13:00       13:00         Crew       Reginald White       17:00       18:00         N/A       N/A       N/A       N/A         Chemical       Usage       HcL Acid       0         Visitors:       Bo Jackson       Sodium Hydroxide       0         Visitors:       Image: Supervise       Image: Supervise       Image: Supervise         e there any abnormal operational issues onsite?       Image: Supervise       Image: Supervise       Image: Supervise	Onsite Activities:		SS WATER
BBLS Processed Today:       0       bbls       Cumulative BBLS Processed:         BBLS/Hr Processed:       0       Cumulative BBLS/Hr Processed:       Cumulative BBLS/Hr Processed:         Lead Supervisor:       Sammy Dean       Readings:       flow back         Lead Operator       Chris Perry       13:00       13:00         Crew       Reginald White       15:00       18:00         N/A       N/A       N/A       N/A         Chemical       Usage       HcL Acid       0         Visitors:       Bo Jackson       Sodium Hydroxide       0         Visitors:       Usage       1       1         e there any abnormal operational issues onsite?       Image: Site of So, what items and when?       Image: Site of So, what items and when?			
BBLS/Hr Processed:       0       Cumulative BBLS/Hr Proc         Lead Supervisor:       Sammy Dean       Readings:       flow back         Lead Operator       Chris Perry       13:00       13:00         Crew       Reginald White       15:00       17:00         18:00       N/A       N/A       N/A         Chemical       Usage       HcL Acid       0         Visitors:       Bo Jackson       Sodium Hydroxide       0         Visitors:       Visitors:       Visitors:       Visitors:         visitors:       O       Sodium Hydroxide       0         ere there any abnormal operational issues onsite?       O       O       O	Hrs:	308	hrs
Lead Supervisor:       Sammy Dean         Lead Operator       Chris Perry         Crew       Reginald White         13:00       13:00         13:00       13:00         13:00       17:00         18:00       N/A         N/A       N/A         Chemical       Usage         HcL Acid       0         Sodium Hydroxide       0         Visitors:       Visitors:         Visitors:	sed:		80 bbls
Lead Operator       Chris Perry         Crew       Reginald White         15:00       17:00         18:00       N/A         N/A       N/A         Chemical       Usage         HcL Acid       0         Sodium Hydroxide       0         Visitors:       0         visitors:       0         ere there any abnormal operational issues onsite?	essed:	433.7	bbl/hr
Crew       Reginald White         15:00       17:00         18:00       18:00         N/A       N/A         Chemical       Usage         HcL Acid       0         Sodium Hydroxide       0         Visitors:       0         Visitors:       0         ere there any abnormal operational issues onsite?         o	Volts/Amps	pН	Turbidit
17:00         18:00         N/A         N/A         Chemical       Usage         HcL Acid       0         Sodium Hydroxide       0         Sodium Hydroxide       0         visitors:	N/A	N/A	N/A
18:00         N/A         N/A         N/A         Chemical       Usage         HcL Acid       0         Sodium Hydroxide       0         Sodium Hydroxide       0         Visitors:	N/A	N/A	N/A
N/A         N/A         N/A         N/A         N/A         Chemical       Usage         HcL Acid       0         Sodium Hydroxide       0         Sodium Hydroxide       0         Visitors:	N/A	N/A	N/A
N/A         Chemical       Usage         HcL Acid       0         Sodium Hydroxide       0         Visitors:	N/A	N/A	N/A
Chemical       Usage         HcL Acid       0         Sodium Hydroxide       0         Visitors:	N/A	<u>N/A</u>	N/A
HcL Acid       0         Visitors:       Sodium Hydroxide       0         Visitors:       Image: Sodium Hydroxide       0         visitors:       Image: Sodium Hydroxide       0         ere there any abnormal operational issues onsite?       Image: Sodium Hydroxide       0         e there any additional supplies/equipment needed? If so, what items and when?       Image: Sodium Hydroxide       0	N/A	N/A	N/A
Visitors:       Bo Jackson         Visitors:       Image: Sodium Hydroxide         Visitors:       Image: Sodium Hydroxide         visitors:       Image: Sodium Hydroxide         ere there any abnormal operational issues onsite?         ere there any additional supplies/equipment needed? If so, what items and when?	Start Inv.	End Inv.	On Orde
Visitors:       Bo Jackson         Visitors:       Image: second se	4,700	4,550	No
Visitors:	2,455	2,080	No
Visitors:			
ere there any abnormal operational issues onsite?			
e there any additional supplies/equipment needed? If so, what items and when?			
e there any additional supplies/equipment needed? If so, what items and when?			
e there any additional supplies/equipment needed? If so, what items and when?			
e there any additional supplies/equipment needed? If so, what items and when?			
we there been any changes to the current schedule, including volumes needed by client			
ave there been any changes to the current schedule, including volumes needed by client			
ave there been any changes to the current schedule, including volumes needed by client			
	?		
0			
		<u> </u>	
s client provided any operational feedback (positive or negative)?			
Person: Company:		XTO	
Additional Comments			

Fixed 4" line for system one on Brown Bear. Spoke with Mr. Bo Jackson, about how Oil got into Poseidon tank. He is not for sure, but do know that there was 3 rd party trucks taking water from XTO Nash Draw Unit # 47 H and unloading it in Poseidon tank. Do not know if those trucks was clean before doing this. Took samples of influent and enfluent, took to Hobbs Yard to be sent to Houston. Poseidon tank is at 136.5" at this time. Recommend to not suck Poseidon tank no lower than 10 inches for frac job.

Date:	8/2	25/2012		Report	Number:		76
				Unit N	lumber:		8
Client:		хто		c	hift Onsite Time:	8:00	am/pm
Location:		ash 29			hift Offsite Time:	5:00 AM	am/pm
Site Contact:		Jackson			line Offsite Time.	9 hrs	Total hrs
Site Contact:		imy Dean		Present	Onsite Activities:		enance
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	308	hrs
BBLS Processed	1 Today:	0 bbls	Cumulative	BBLS Proces	ssed:	133,5	80 bbls
BBLS/Hr Proce	essed:	0	Cumulative	BBLS/Hr Proc	essed:	433.7	bbl/hr
Lead Supervisor:	Sam	imy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Chi	ris Perry	13:00		N/A	N/A	N/A
Crew	Regir	nald White	15:00		N/A	N/A	N/A
			17:00		N/A	N/A	N/A
Ļ	<u> </u>		18:00		N/A	N/A	N/A
Ļ			N/A		N/A	N/A	<u>N/A</u>
ŀ		·······	N/A		N/A	N/A	N/A
E			Chemical	Usage	Start Inv.	End Inv.	On Order
L			HcL Acid	0	4,700	4,550	No
			Sodium Hydroxide	0	2,455	2,080	No
Visitors:	<u> </u>	Jackson					
Visitors:							
Visitors:					L	·	
			<u> </u>			<del></del>	
ere there any abno	ormal operat	ional issues onsite	?			<u> </u>	
0		ional issues onsite			· · · · · · · · · · · · · · · · · · ·		
	onal supplies	s/equipment neede	d? If so, what items and v	when?		-	
0							
Alegen 1		<u> </u>	ula includio				
	changes to	the current schedi	ule, including volumes ne	eded by client	<u> </u>		
o O							
0							
oas client provided	any operatio	nal feedback (posi				VEC	
O as client provided Person:	any operatio	nal feedback (posi	Company:			XTO	
O	any operatio	nal feedback (posi				ХТО	

Did not run today all equipment is filled. Water in weir tanks is clear. Trying to get a pressure washer to clean out Brown Bear.

Date:	8/	26/2012		Report	Number:		77
Dute.				·····	lumber:		8
Client:	·	хто		S	hift Onsite Time:	10:00	am/pm
Location:	N	lash 29		S	hift Offsite Time:	7:00 PM	am/pm
Site Contact:	Во	Jackson				9 hrs	Total hrs.
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Maint	enance
Processing Hrs	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	308	hrs
BBLS Processe	d Today:	0 bbls	Cumulative	BBLS Proces	ssed:	133,5	80 bbls
BBLS/Hr Proc	essed:	0	Cumulative	BBLS/Hr Proc	essed:	433.7	bbl/hr
			Dura di successi	()			<b>T</b> (1) (1)
Lead Supervisor:		nmy Dean	Readings:	flow back	Volts/Amps	pH	Turbidity N/A
Lead Operator		nis Perry nald White	<u>13:00</u>		N/A N/A	N/A N/A	N/A N/A
Crew	R		17:00		N/A N/A	N/A	N/A N/A
ł			18:00		N/A N/A	N/A N/A	N/A
ŀ			<u>18.00</u>		N/A N/A	N/A	N/A
ŀ			N/A		N/A	N/A	N/A
ļ							
ľ			Chemical	Usage	Start Inv.	End Inv.	On Order
ľ			HcL Acid	0	4,700	4,550	No
			Sodium Hydroxide	0	2,455	2,080	No
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
Vere there any abn	ormal operat	tional issues onsite	)?				
10							
re there any additi	onal supplie	s/equipment neede	ed? If so, what items and w	when?			
lo	ondi supplic	orequipment neede					
			··· · · · · · · · · · · · · · · · · ·				
lave there been any	changes to	the current sched	ule, including volumes ne	eded by client	?		•••••••••••••
standy- by as per cus		· ·					
lac alight provided	any operation	onal feedback (pos					
			Company:		L	XTO	
Person:							
Person:		r					

Did not run today all equipment is filled. Water in weir tanks is clear. Trying to get a pressure washer to clean out Brown Bear.

Date:	8/	27/2012		Report	Number:		78
				Unit N	lumber:		8
Client:		хто	i	s	hift Onsite Time:	8:00	am/pm
Location:	N	lash 29			hift Offsite Time:	5:00 AM	am/pm
Site Contact:		Jackson				9 hrs	Total hr
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Maint	enance
Decession Has	Today	0 hrs	Cumulati	o Dessession			
Processing Hrs BBLS Processed		0 hrs 0 bbls		e Processing BBLS Proces		308	hrs 80 bbls
BBLS Frocessed		0 0015		BBLS/Hr Proc			bbl/hr
BBL3/HT Proce	sseu.	J	Cumulative	DDL3/Hr Proc	essea:	433.7	DDI/IIr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator		ris Perry	13:00		N/A	N/A	N/A
Crew		nald White	15:00		N/A	N/A	N/A
			17:00		N/A	N/A	N/A
F			18:00		N/A	N/A	N/A
F			N/A		N/A	N/A	N/A
F			N/A		N/A	N/A	N/A
F					·		
Γ			Chemical	Usage	Start Inv.	End Inv.	On Orde
Γ			HcL Acid	0	4,700	4,550	No
			Sodium Hydroxide	0	2,455	2,080	No
Visitors:	Bo	Jackson					
Visitors:	To	dd Cage					
Visitors:	Arro	n Karcher		_			
re there any abno	ormal opera	tional issues onsite	?	<u></u>			
there any addition	onal supplie	s/equipment neede	d? If so, what items and v	when?	···		
ve there been any	changes to	the current sched	ule, including volumes ne	eded by client	2		
ndy- by as per cus				saca by origin			
		nal foodbaak (naci	tive or negative)?		<u> </u>		
	any operatio	mai leeuback (pos					
	any operatio		Company:			XTO	
s client provided	any operatio		Company:		L	<u>x10</u>	

Draw Unit # 57 H.

Date:	8/	28/2012		Report	Number:	· · · ·	79
···					lumber:		8
Client:		ХТО		S	hift Onsite Time:	8:00	a <u>m</u> /pm
Location:		lash 29		SI	hift Offsite Time:	5:00	am/pm
Site Contact: Site Contact:		Jackson nmy Dean		Drogont (	Onsite Activities:	9 hrs	Total hrs. enance
Sile Contact.	3ar	niny Dean		Present	Unsite Activities.		enance
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	308	hrs
BBLS Processed		0 bbls		BBLS Proces			30 bbls
BBLS/Hr Proce		0		BBLS/Hr Proce		433.7	bbl/hr
Lead Supervisor:	Sar	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		nris Perry	13:00		N/A	N/A	N/A
Crew		nald White	15:00		N/A	N/A	N/A
			17:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
Ĺ			N/A		N/A	N/A	N/A
Ļ			N/A		N/A	N/A	<u>N/A</u>
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	4,700	4,550	No
			Sodium Hydroxide	0	2,455	2,080	No
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
						· · · · · · · · · · · · · · · · · · ·	
	rmal energy	tional issues onsite	· · · · · · · · · · · · · · · · · · ·				
seidon tank off loc			on has been on standby unt		repaired		
	<u></u>	s/equipment neede	d ? It so, what items and v				
ive there been any	v changes to	) the current sched	ule, including volumes ne	eded by client	?		
andby as per custo	v changes to mer request	) the current sched	ule, including volumes ne	eded by client	?		
ve there been any andby as per custo	v changes to mer request	) the current sched	ule, including volumes ne	eded by client	?	XTO	
ve there been any andby as per custo is client provided	v changes to mer request	) the current sched	ule, including volumes ne tive or negative)?	eded by client	?	хто	

Date:	8/2	29/2012		Report	Number:		80
					lumber:		8
Client:		хто		s	hift Onsite Time:	8:00	am/pm
Location:	N	lash 29			hift Offsite Time:	5:00	am/pm
Site Contact:	Во	Jackson				9 hrs	Total hrs
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Maint	tenance
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs		hrs
BBLS Processe		0 bbls		BBLS Proces			80 bbls
BBLS/Hr Processed: 0 Cumulative BBLS/Hr Processed: 433.7 bbl/h							
			L				
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Ch	ris Perry	13:00		N/A	N/A	N/A
Crew	Regi	nald White	15:00		N/A	N/A	N/A
			17:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
r			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
L			HcL Acid	0	4,700	4,550	No
		<u> </u>	Sodium Hydroxide	0	2,455	2,080	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:	· · ·				l l		
ere there any abn	ormal operat	tional issues onsite	?				
			n has been on standby unt	il leaks can be	repaired		
e there any additi	onal supplie	s/equipment needed	d? If so, what items and v	vhen?			
)							
ve there been any	y changes to	the current schedu	ile, including volumes ne	eded by client	?		
andby as per custo	mer request						
Person:	any operation	onal feedback (posit	Company:				
Person:			company.		l	XTO	

should be able to start cleaning water on Friday 31st Day Of August 2012, sometime that evening.

Date:		30/2012	ן	Report	Number:		81	
Duto.					Number:		8	
Client:		хто	[	S	hift Onsite Time:	8:00	am/pm	
Location:	N	lash 29		S	hift Offsite Time:	5:00	am/pm	
Site Contact:		Jackson				9 hrs	Total hrs	
Site Contact:	San	nmy Dean	l	Present	Onsite Activities:	Maint	tenance	
Processing Hrs	 s Today:	0 hrs	Cumulativ	e Processing	Hrs:	308	hrs –	
BBLS Processe		0 bbls		BBLS Proce		133,5	133,580 bbls	
BBLS/Hr Proc		0	Cumulative I	BBLS/Hr Proc	essed:		bbl/hr	
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pH	Turbidity	
Lead Operator		nris Perry	13:00	······································	N/A	N/A	N/A	
Crew		nald White	15:00		N/A	N/A	N/A	
			17:00		N/A	N/A	N/A	
ľ			18:00		N/A	N/A	N/A	
Î			N/A		N/A	N/A	N/A	
-			N/A		<u>N/A</u>	N/A	N/A	
-			Chemical	Usage	Start Inv.	End Inv.	On Orde	
			HcL Acid	0	4,700	4,550	No	
			Sodium Hydroxide	0	2,455	2,080	No	
Visitors:	Bo	Jackson						
Visitors:						_		
Visitors:								
		tional issues onsite						
oseidon tank off loc	ation develor	oed 2 leaks. Operati	on has been on standby unt	il leaks can be	repaired			
						-		
re there any additi	onal supplie	s/equipment neede	ed? If so, what items and w	vhen?				
0								
		the current sched	ule, including volumes ne	eded by client	?			
tandby as per custo	mer request							
as client provided	any operatio	onal feedback (pos	itive or negative)?					
	<u></u> ,		Company:			ХТО		
Person:					L			
Person:								

should be able to start cleaning water on Friday 31st Day Of August 2012, sometime that evening.

Date:	8/	31/2012		Report	Number:	8	2
				Unit M	lumber:		8
Client:		хто			hift Onsite Time:	12:00:00PM	am/pm
Location:	N	lash 29			hift Offsite Time:	0:00	am/pm
Site Contact:		Jackson			ensite miler	12 hrs	Total hrs
Site Contact:		nmy Dean		Present	Onsite Activities:	· · · · · · · · · · · · · · · · · · ·	ng Water
Processing Hr		10 hrs	Cumulativ	e Processing	Hrs:	318	hrs
BBLS Processe		5,125 bbls	Cumulative	BBLS Proces	ssed:	138,70	5 bbls
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	436.2	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator	Ch	ris Perry	14:00		110	5.31	0.116
Crew	Regi	nald White	16:00		110	6.54	0.864
			18:00		110	7.01	0.747
			20:00		110	6.57	1.8
			22:00		110	7.2	2.12
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	4,550	4,200	No
			Sodium Hydroxide	0	2,080	1,800	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
			·····			·	
Vere there any abn	ormal operat	ional issues onsite	?				
10							
ro those any additi	onal supplio	elaquinment needer	1? If so, what items and v				
o		s/equipment needet	in so, what here's and t				
			<u>-</u>				
			la including volumes	adad by allant	<u> </u>		
	( abangos to	the ourrent cohedu		euea by client	r		
	y changes to	the current schedu	ie, moldanig volumes ne				
	y changes to	the current schedu					
0			······································		· · · · · · · · · · · · · · · · · · ·		
o as client provided		the current schedu nal feedback (posit	ive or negative)?		· · · · · · · · · · · · · · · · · · ·		
0			······································			ХТО	

tanks level is down to 4 inches.

Date:		/1/2012		Report	Number:		83
		<u> </u>			Number:		8
Client:		ХТО		S	hift Onsite Time:	12:00:00AM	am/pm
Location:	N	lash 29		S	hift Offsite Time:	21:00	am/pm
Site Contact:	Bo	Jackson				11 hrs	Total hrs.
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Process	sing Water
Processing Hr	s Today:	9 hrs	Cumulativ	327	hrs		
BBLS Processe	d Today:	6,101 bbls	Cumulative	BBLS Proce	ssed:	139,6	81 bbls
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	427.2	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Ch	ris Perry	00:00		110	6.8	0.886
Crew	Regi	nald White	02:00		110	7	0.968
			13:00		110	7.65	1.11
			15:00		110	7.26	1.26
]			17:00		110	6.8	1.57
[	_		19:00		110	6.654	2.47
			21:00		110	6.75	2.23
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	4,200	3,800	No
			Sodium Hydroxide	0	1,800	1,500	Yes
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
Were there any abn	ormal operat	tional issues onsite?	?				
No							
	onal supplie	s/equipment needed	1? If so, what items and v	when?			
No							
Have there been an	y changes to	the current schedu	le, including volumes ne	eded by client	1?		
No							
Has client provided	any operation	onal feedback (posit	ive or negative)?				
Person:			Company:			XTO	
No							
Additional Con	nments						
han		· · · · · · · · · · · · · · · · · · ·					
Received about 600 g	gallons of Cau	stic from Oxy Locatio	n. Order a load of caustic t	to be here on 0	9/06/2012.		

Date:	0	/2/2012		Report	Number:		84
Date. 9/2/2012		/2/2012		Report Number: Unit Number:		8	
							<u> </u>
Client: XTO			s	hift Onsite Time:	6:00:00AM	am/pm	
Location:	n: Nash 29			Shift Offsite Time:		18:00	am/pm
Site Contact: Bo Jackson					12 hrs	Total hrs	
Site Contact:	Sar	nmy Dean		Present	Onsite Activities:	Process	sing Water
	T de la		<b>0</b>				<u> </u>
Processing Hrs Today:		8 hrs	Cumulative Processing Hrs:		335 hrs		
BBLS Processed Today: BBLS/Hr Processed:		4,483 bbls		Cumulative BBLS Processed: Cumulative BBLS/Hr Processed:		138,063 bbls 412.1 bbl/hr	
BBLS/Hr Proc	essea:	512.5	Cumulative	BBLS/Hr Proc	essed:	412.1	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Ken	neth Erler	08:00		108	7.56	1.15
Crew	Ferr	nin Valdez	10:00		108	7.35	1.12
			12:00		108	7.89	1.37
			14:00		108	7.46	1.24
			16:00:00 PM		108	6.8	1.57
			18:00:00 PM		108	6.654	2.47
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	3,800	3,500	No
			Sodium Hydroxide	0	1,500	1,200	Yes
Visitors:	Bo	Jackson			· · · · · · · · · · · · · · · · · · ·	,	
Visitors: 🤍				· · · · ·			
Visitors:							
			•				
ere there any abn	ormal opera	tional issues onsite	?				
	onal supplie	s/equipment neede	d? If so, what items and v	when?			
)							
ve there been an	v changes to	the current schedu	Ile, including volumes ne	eded by client	?		
)	,		<u> </u>				
e client provided	any operativ	onal feedback (posi	tive or pogative)?			<u>.</u> .	
	uny operation	Shall recuback (p0SI	Company:			XTO	
			L Company.	L	l		
Person:							
Person:				· · · · · · · · · · · · · · · · · · ·			
Person:	nments			·			

	0.0	/3/2012		Banant	Number	c	35
Date:	9/	5/2012			Number: Number:		8
				Unitr			0
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	ash 29		S	hift Offsite Time:	19:00	am/pm
Site Contact:	Во	Jackson				11 hrs	Total hrs
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Process	ing Water
Processing Hr	s Todav:	6 hrs	Cumulativ	ve Processing	Hrs:	341	hrs
BBLS Processe		4,394 bbls		BBLS Proces			74 bbls
BBLS/Hr Proc		512.5		BBLS/Hr Proc		404.6 bbl/hr	
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		neth Erler	08:00		108	6.86	0.886
Crew	Fern	nin Valdez	10:00		108	6.9	0.965
	Eddie MrGruder		12:00		108	7.54	1.116
	Ray Lee		14:00		108	7.68	1.24
			16:00:00 PM		108	7.43	1.032
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	3,500	3,200	No
			Sodium Hydroxide	0	1,200	900	Yes
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
lere there any abr	ormal operat	tional issues onsite	7				
0							
	ional supplie	s/equipment needec	I? If so, what items and y	when?			
0							
ave there been an	v changes to	the current schedu	le, including volumes ne	eded by client	?		
0	- <b>v</b>	· · · ·					
an alight movided	2014 00000041	onal feedback (posit	ive or pegative)?				
	any operation	man reeuback (posit	Company:	1		ХТО	
the second se			Company.	1	<u> </u>	<u></u>	
Person:							

Date:	9/	4/2012		Report	Number:		86
		·			lumber:		8
011.04		хто				6.00.00414	(
Client:	N				hift Onsite Time:	6:00:00AM	am/pn
Location: Site Contact:		lash 29 Jackson		5	hift Offsite Time:	18:00 12 hrs	am/pr Total hr
Site Contact:		nmy Dean		Proport	Onsite Activities:		ing Water
Sile Contact.	381			Flesen	Unsite Activities.	FIDCESS	
Processing Hrs	Today:	9 hrs	Cumulativ	e Processing	Hrs:	350	hrs
BBLS Processed	Today:	4,844 bbls		BBLS Proces		138,424 bbls	
BBLS/Hr Proce		512.5	Cumulative	BBLS/Hr Proc	essed:	395.5	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator	Ken	neth Erler	08:00		108	7.89	2.12
Crew	Ferr	nin Valdez	10:00		108	6.9	0.892
	F	Ray Lee	12:00		108	7.35	0.992
			14:00		108	7.55	1.69
			16:00:00 PM		108	7.12	1.21
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	3,200	2,900	No
			Sodium Hydroxide	0	900	600	Yes
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
ere there any abno	ormal operat	tional issues onsite	?				
		s/oquinmont poodo	d2 If co. what items and	when?			
	onal supplie	s/equipment needed	d? If so, what items and v	vhen?			
e there any additio	onal supplie	s/equipment needeo	d? If so, what items and v	vhen?			
	onal supplie	s/equipment needeo	d? If so, what items and v	vhen?			
)					2		
ve there been any			d? If so, what items and v le, including volumes ne		?		
)					?		
ve there been any					?		
) ive there been any	changes to	the current schedu	ile, including volumes ne		?		
ive there been any	changes to		ile, including volumes ne ive or negative)?		?		
ive there been any s client provided Person:	changes to	the current schedu	ile, including volumes ne		?	хто	
ive there been any	changes to	the current schedu	ile, including volumes ne ive or negative)?		?	хто	
ive there been any s client provided Person:	changes to	the current schedu	ile, including volumes ne ive or negative)?		?	хто	

Date:	9/	/5/2012		Report	Number:		87
				Unit I	Number:		8
Client:		XTO		S	hift Onsite Time:	6:00:00AM	əm/pm
Location:	N	ash 29		S	hift Offsite Time:	0:00	am/pm
Site Contact:	Bo	Jackson				18 hrs	Total hrs.
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Process	sing Water
Processing Hr	s Today:	12 hrs	Cumulativ	e Processing	Hrs:	362	hrs
BBLS Processe	d Today:	5,113 bbls		e BBLS Proce		163,640 bbls	
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	452.0	bbl/hr
Lead Supervisor:			Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Processed Today: 5,113 bbls S/Hr Processed: 512.5 Operator Sammy Dean Operator Kenneth Erler w Fermin Valdez Adam Pollard Eddie McGruder		08:00		108	6.54	0.158
Crew			10:00		108	6.84	0.872
			12:00		108	7.25	1.01
			14:00		108	7.35	1.15
]	Eddie	McGruder	20:00		108	7.21	1.21
			22:00		108	7.85	1.52
	<u> </u>						
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	2,900	2,500	No
		la else es	Sodium Hydroxide	0	600	1,425	Yes
Visitors:	Во	Jackson	· · · · · · · · · · · · · · · · · · ·				·
Visitors:							
Visitors:				I			
		<u></u>					
Were there any abn	ormal operat	ional issues onsite?	2				
No	ormai operat	Ional issues onsite	1				
<u> </u>							<u></u>
Are there any additi	ional supplie	s/equipment needed	d? If so, what items and v	when?			
No							
Have there been an	y changes to	the current schedu	le, including volumes ne	eded by client	?		
No							
Has client provided	any operatio	nal feedback (posit	ive or negative)?				
Person:			Company:		· · · · · · · · · · · · · · · · · · ·	хто	
No				L	L		
Additional Cor	nment <del>s</del>		·····		· · · · · · · · · · · · · · · · · · ·		
Performed JAS every	one aware of	their task for today. \	Worked on house keeping.	Took 4 totes o	of Caustic from ya	rd. Load of Cau	ustic will arrive

tomorrow evening around 1800 hours NMT.

····							
Date:	9	/6/2012		Report	Number:		88
Bato.		0,2012			Number:		8
					, I		
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	lash 29			hift Offsite Time:	0:00	am/pm
Site Contact:	Bo	Jackson				18 hrs	Total hrs.
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Process	ing Water
					-		
Processing Hr	s Today:	6 hrs	Cumulativ	e Processing	Hrs:	368	hrs
BBLS Processe	ed Today:	2,786 bbls		e BBLS Proce		166,4	26 bbls
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	452.2	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Ken	neth Erler	08:00		108	7.21	0.897
Crew	Fermin Valdez Ray Lee		10:00		108	6.54	0.123
	F	≀ay Lee	12:00		108	7.54	0.998
	Ada	m Pollard	14:00				
	Eddie	e McGruder	20:00				
			22:00	L			
			<b></b>				
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	2,500	2,350	Yes
			Sodium Hydroxide	0	1,425	6,200	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:							<u> </u>
			<u> </u>				
Were there any abn	ormai opera	lional issues onsite	<u> </u>				
Are there any addit	ional supplie	s/equipment needer	d? If so, what items and v	when?		·····	
No		<u> </u>					
Have there been an	v changes to	the current schedu	Ile, including volumes ne	eded by clien	1?		
No	<u>,</u>			<b>,</b>			
Has client provided	any operation	onal feedback (posit			····		
Person:			Company:		l	XTO	
No							
Additional Cor	nments						
Caustic arrived to loc 2012.	ation around	5:00 pm. Brown bear	r System 1 and system 2 bl	inded off. Orde	ered load of acid to	o be on locatio	n on 09-07-

Date:	9/	7/2012		Report	Number:	8	39
				Unit	Number:	-	8
Client:	_	хто		c	hift Onsite Time:	6:00:00AM	am/pm
Location:		lash 29			hift Offsite Time:	0:00	am/pm
Site Contact:		Jackson			fine offsite fine.	18 hrs	Total hr
Site Contact:		1my Dean		Present	Onsite Activities:	I	ing Water
	_		· · · · · · · · · · · · · · · · · · ·				
Processing Hr	s Today:	12 hrs	Cumulativ	e Processing	Hrs:	380	hrs
BBLS Processe	d Today:	6,480 bbls	Cumulative	BBLS Proce	ssed:	172,90	06 bbls
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	455.0 bbl/hr	
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator	Ken	neth Erler	10:00		108	6.75	0.456
Crew	Fern	nin Valdez	12:00		108	6.89	0.573
		lay Lee	14:00		108	6.69	0.654
		m Pollard	16:00		108	7.32	0.768
	Eddie	McGruder	18:00		108	7.78	1.189
	<u> </u>		20:00		108	7.5	0.975
			22:00		108	7.25	0.9
			Chemical	Usage	Start Inv.	End Inv.	On Orde
l	_		HcL Acid	0	2,350	1,900	Yes
			Sodium Hydroxide	0	6,200	5,800	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
Vere there any abn	ormal operat	tional issues onsite	?				
		dessa picked up ano					
tre there any additi	onal supplie	s/equipment neede	d? If so, what items and v	when?			
							_
		4h	de instructions				
	y changes to	the current schedu	ite, including volumes ne	eaed by client			
lave there been an							
<b>lave there been an</b> lo	_						
lo		nal foodback (naci	tive or pogative)?		·		
lo las client provided	any operatio	onal feedback (posi	· · · · ·				
lo	any operatio	onal feedback (posi	tive or negative)? Company:			хто	

09-07-2012. XTO is hauling in fresh water for this Frac Job.

Date:	9,	/8/2012		Report	Number:		90
		····			lumber:		8
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	lash 29		S	hift Offsite Time:	0:00	am/prr
Site Contact:		Jackson				18 hrs	Total hr
Site Contact:	San	n <b>my Dean</b>		Present	Onsite Activities:	Process	ing Water
Processing Hr	s Today:	16 hrs	Cumulativ	e Processing	Hrs:	396	hrs
BBLS Processe		6,480 bbls		BBLS Proces			36 bbls
BBLS/Hr Proc		512.5		BBLS/Hr Proc			bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator		neth Erler	10:00	·	108	7.12	0.789
Crew		nin Valdez	12:00		108	7.34	0.889
		Ray Lee	14:00		108	7.54	0.987
		m Pollard	16:00		108	7.32	0.785
	Eddie	e McGruder	18:00		108	7.43	0.975
			20:00		108	7.5	1.189
			22:00		108	7.25	1.115
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	6,400	6,000	NO
			Sodium Hydroxide	0	5,800	5,550	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
<b>/ere there any abn</b> o	ormal operat	ional issues onsite	?		· · · · · · · · · · · · · · · · · · ·		
re there any addit	ional sunnlio	s/aquinment needer	d? If so what items and w	when?			
re there any addit	ional supplie	s/equipment needed	d? If so, what items and v	vhen?			
	ional supplie	s/equipment needed	d? If so, what items and v	vhen?			
0			d? If so, what items and v		?		
0					?		
o ave there been an					?		
ave there been an o as client provided	y changes to		ile, including volumes ne		?		
ave there been an o as client provided <i>Person:</i>	y changes to	the current schedu	ile, including volumes ne		?	хто	
ave there been an o as client provided	y changes to	the current schedu	ile, including volumes ne ive or negative)?		?	хто	

Date:		9/2012		Report	Number:		91
Dute.		3,2012			Number:		8
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	ash 29		S	hift Offsite Time:	18:00	am/pm
Site Contact:	Bo	Jackson				12 hrs	Total hrs.
Site Contact:	San	1my Dean		Present	Onsite Activities:	Process	sing Water
Processing Hr	s Today:	3 hrs	Cumulativ	e Processing	Hrs:	399	hrs
BBLS Processe	d Today:	1,230 bbls	Cumulative	BBLS Proce	ssed:	180,6	16 bbls
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	452.7	bbl/hr
		· · · · · ·					
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рH	Turbidity
Lead Operator	Ken	neth Erler	10:00		108	7.56	0.895
Crew		McGruder	12:00		108	6.89	0.437
	R	ay Lee	13:00		108	7.32	0.875
		m Pollard	16:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
		<u> </u>					
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	6,000	5,950	NO
l			Sodium Hydroxide	0	5,550	5,400	No
Visitors:	Bo	Jackson	,,				
Visitors:							
Visitors:		· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
[_]				·			· · · · · · · · · · · · · · · · · · ·
					·		
Were there any abn	ormal operat	ional issues onsit	e?				
No							
Are there any additi	onal supplies	s/equinment need	ed? If so, what items and v	when?			
No	ond ouppile	erequipilient need					
Have there been an	v changes to	the current sched	lule, including volumes ne	eded by client	?		
No	y enurigee te					· · · ·	
Has client provided	any operatio	nal feedback (nos	itive or negative)?				
Person:	uny operation		Company:	[		ХТО	
No				1	L		
Additional Cor	nments						
Peformed JSA, filled l	holding tanks.	Did maintenance a	and house keeping on units.				

Date:	9/:	10/2012		Report	Number:		92
		.,		·····	lumber:		8
						<b>..</b>	
Client:		ХТО			hift Onsite Time:	6:00:00AM	am/pm
Location:		ash 49		S	hift Offsite Time:	18:00	am/pm
Site Contact:		Jackson				12 hrs	Total hr
Site Contact:	San	imy Dean	ł	Present	Onsite Activities:	Process	ing Water
Processing Hrs	Foday:	4 hrs	Cumulativ	e Processing	Hrs:	403	hrs
BBLS Processed		2,277 bbls		BBLS Proces			3 bbls
BBLS/Hr Proces		512.5		BBLS/Hr Proc			bbl/hr
Lead Supervisor:	Sam	imy Dean	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator	Ken	neth Erler	10:00		110	7	0.198
Crew	Eddie	McGruder	12:00		110	7.43	0.089
	Ray Lee		13:00		N/A	N/A	N/A
	Ada	n Pollard	16:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	5,950	5,800	NO
			Sodium Hydroxide	0	5,400	5,250	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
		ional issues onsite	?				
re there any abnor	mal operat						
re there any abnor	mal operat						
	mal operat						
• there any additior			d? If so, what items and v	vhen?			
				vhen?			
• there any additior				vhen?			
e there any addition C SCH 80	nal supplie:	s/equipment neede	d? If so, what items and v				
e there any addition C SCH 80	nal supplie:	s/equipment neede			?		
e there any addition C SCH 80	nal supplie:	s/equipment neede	d? If so, what items and v		?		
e there any addition C SCH 80	nal supplie:	s/equipment neede	d? If so, what items and v		?		
e there any addition C SCH 80 ve there been any o	nal supplies	s/equipment needer the current schedu	d? If so, what items and v lle, including volumes ne		?		
there any addition C SCH 80 ve there been any o s client provided an	nal supplies	s/equipment neede	d? If so, what items and v ile, including volumes ne tive or negative)?		?		
e there any addition C SCH 80 ve there been any o	nal supplies	s/equipment needer the current schedu	d? If so, what items and v lle, including volumes ne		?	хто	
there any addition C SCH 80 ve there been any o s client provided an	nal supplies	s/equipment needer the current schedu	d? If so, what items and v ile, including volumes ne tive or negative)?		?	хто	
there any addition C SCH 80 ve there been any o s client provided an	nal supplies changes to ny operatio	s/equipment needer the current schedu	d? If so, what items and v ile, including volumes ne tive or negative)?		?	хто	

	9/:	11/2012		Report	Number:	(	93
				Unit N	lumber:		8
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pm
Location:		ash 49			hift Offsite Time:	1:00 PM	am/pm
Site Contact:		Jackson			int onsite nine.	5 hrs	Total hrs
Site Contact:		imy Dean		Present	Onsite Activities:		ing Water
					······································		
Processing Hrs	Today:	1 hrs	Cumulativ	e Processing	Hrs:	404	hrs
BBLS Processed	Today:	935 bbls	Cumulative	BBLS Proces	ssed:	183,82	28 bbls
BBLS/Hr Proces	ssed:	512.5	Cumulative	BBLS/Hr Proc	essed:	455.0	bbi/hr
Lead Supervisor:		imy Dean	Readings:	flow back	Volts/Amps	pH	Turbidit
Lead Operator		ay Lee McGruder	10:00		110	7	0.198
Crew	Eadle	wcGruder	12:00		N/A	N/A	N/A
			13:00 16:00		N/A N/A	N/A N/A	N/A N/A
			18:00		N/A N/A	N/A N/A	N/A N/A
			20:00		N/A N/A	N/A N/A	N/A N/A
			20.00		IN/A		N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	5,800	5,750	NO
			Sodium Hydroxide	0	5,250	5,200	No
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
			÷				
			<u> </u>				
there any obner	malanarat	ional ioauaa anaita					
ere there any abnor	mal operat	ional issues onsite	?		• · · • ·		
ere there any abnor	mal operat	ional issues onsite	?	· , , , , , , , , , , , , , , , ,	<u> </u>		
	mal operat	ional issues onsite	<i>(</i>				
	mal operat	ional issues onsite	1				
				vhen?			
			? d? If so, what items and v	vhen?			
e there any additior				vhen?			
e there any addition /C SCH 80	nal supplies	s/equipment neede	d? If so, what items and v				
e there any addition /C SCH 80 	nal supplies	s/equipment neede			?		
e there any addition /C SCH 80	nal supplies	s/equipment neede	d? If so, what items and v		?		
e there any addition /C SCH 80 	nal supplies	s/equipment neede	d? If so, what items and v		?		
e there any addition (C SCH 80 ve there been any o	nal supplies	s/equipment neede the current schedu	d? If so, what items and v le, including volumes ne		?		
e there any addition (C SCH 80 ive there been any o	nal supplies	s/equipment neede the current schedu	d? If so, what items and v ule, including volumes ne tive or negative)?		?	XTO	
e there any addition (C SCH 80 ve there been any o	nal supplies	s/equipment neede the current schedu	d? If so, what items and v le, including volumes ne		?	хто	
e there any addition (C SCH 80 ive there been any o	nal supplies	s/equipment neede the current schedu	d? If so, what items and v ule, including volumes ne tive or negative)?		?	хто	
e there any addition (C SCH 80 ive there been any o	nal supplies changes to ny operatio	s/equipment neede the current schedu	d? If so, what items and v ule, including volumes ne tive or negative)?		?	хто	

Date:	9/:	12/2012		Report	Number:		)4
					lumber:		8
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	ash 49		S	hift Offsite Time:	18:00:00 PM	am/pm
Site Contact:	Bo	Jackson				12 hrs	Total hrs.
Site Contact:	Sam	imy Dean		Present	Onsite Activities:	Processi	ing Water
					, <u> </u>		<u> </u>
Processing Hr	s Today:	6 hrs	Cumulativ	e Processing	Hrs:	410	hrs
BBLS Processe		2,513 bbls	Cumulative	BBLS Proces	ssed:	186,34	1 bbls
BBLS/Hr Proc		512.5	Cumulative	BBLS/Hr Proc	essed:	454.5	bbl/hr
		· · · · · - —					
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		ay Lee	10:00		110	7	0.198
Crew		McGruder	12:00		110	7.65	0.285
			14:00		110	7.24	1.893
	• •		16:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	5,750	5,500	NO
1			Sodium Hydroxide	0	5,200	5,000	No
Visitors:	Bo	Jackson	Sourantityaroxide	<u> </u>		3,000	
Visitors:							
Visitors:	· · · · · · · · · · · · · · · · · · ·						
VI31013.				I		LI	
		<u>.</u>					
Were there any abn	ormal onorat	ional issues onsite					
No							
Are there any addit	ional ounnilio	alequinment needs	ed? If so, what items and v	when?			
PVC SCH 80	ional supplie	s/equipment neede	eu ? Il So, what items anu i	witeri :	·		
					-		
	y changes to	the current sched	ule, including volumes ne	eded by client	?		
No							
Has client provided	any operatio	onal feedback (pos			1	VTO	
Person:			Company:		<u> </u>	XTO	
Additional Co	mments						
Performed JSA dkrin	k plenty of flu	id and watch out fo	r each other.				

Date:	9/	13/2012	1	Report	Number:	ç	95
Dute.	57.	13/2012			Number:		8
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	ash 49		S	hift Offsite Time:	18:00:00 PM	am/pm
Site Contact:	Во	Jackson				12 hrs	Total hr
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Processi	ing Water
Processing Hrs	Todav:	6 hrs	Cumulativ	e Processing	Hrs:	416	hrs
BBLS Processed		2,206 bbls		BBLS Proces		188,547 bbls	
BBLS/Hr Proc		512.5		BBLS/Hr Proc			bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator		ay Lee	10:00		110	6.89	1.785
Crew		McGruder	12:00		110	7.24	0.896
			14:00		110	7.13	0.987
			16:00		N/A	N/A	N/A
-			18:00		N/A	N/A	N/A
Ţ			20:00		N/A	N/A	N/A
-							
F			Chemical	Usage	Start Inv.	End Inv.	On Orde
F			HcL Acid	0	5,750	5,500	NO
-			Sodium Hydroxide	0	5,200	5,000	No
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
		ional issues onsite s/equipment neede	? d? If so, what items and v	when?			
ve there been any	/ changes to	the current schedu	ule, including volumes ne	eded by client	1?		
s client provided Person:	any operatio	onal feedback (posi	tive or negative)? Company:			ХТО	
··· · · · · · · · · · · · · · · · · ·		onal feedback (posi				ХТО	

Date:	9/	14/2012		Report	Number:	9	96
					Number:		8
Client:		хто		c	hift Onsite Time:	6:00:00AM	am/pn
Location:	N	lash 49				18:00:00 PM	am/pn
Site Contact:		Jackson			internite.	12 hrs	Total hr
Site Contact:		nmy Dean		Present	Onsite Activities:		ng Water
Processing Hrs		6 hrs	Cumulativ	e Processing	Hrs:	416	hrs
BBLS Processed	I Today:	2,206 bbls	Cumulative	BBLS Proces	ssed:	188,54	7 bbls
BBLS/Hr Proce	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	453.2 bbl/hr	
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		im Pollard	10:00	now back	110	6.89	1.785
Crew		Ray Lee	12:00		110	7.24	0.896
		,	14:00		110	7.13	0.987
F			16:00		N/A	N/A	N/A
F			18:00		N/A	N/A	N/A
Ē			20:00		N/A	N/A	N/A
	<u> </u>						
F			Chemical	Usage	Start Inv.	End Inv.	On Orde
L			HcL Acid	0	5,750	5,500	NO
Visitors:		Jackson	Sodium Hydroxide	0	5,200	5,000	No
Visitors:	00						
Visitors:							
······································							
ere there any abno	rmal operat	tional issues onsite	?				
)							
e there any additio	nal supplio	s/aquinment needed	12 If so what itoms and w	whon?			
	nal supplie	s/equipment needed	I? If so, what items and v	vhen?			
e there any additio ′C SCH 80	onal supplie	s/equipment needec	I? If so, what items and v	vhen?	· · · · · · · · · · · · · · · · · · ·		
	onal supplie:	s/equipment needec	I? If so, what items and v	vhen?			
/C SCH 80			I? If so, what items and v le, including volumes ne	·····	?	· · · · · · · · · · · · · · · · · · ·	
/C SCH 80					?		
/C SCH 80					?		
/C SCH 80 ve there been any	changes to	the current schedu	le, including volumes ne		?		· · · · · · · · · · · · · · · · · · ·
/C SCH 80 ve there been any	changes to		le, including volumes ne		?		
/C SCH 80 ve there been any s client provided	changes to	the current schedu	le, including volumes ne		?	XTO	
C SCH 80 ve there been any s client provided	changes to any operatio	the current schedu	le, including volumes ne		?	хто	

Date:	9/1	15/2012		Report	Number:		97
		/		the second s	lumber:		8
				L 0.000			
Client:		хто		s	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	ash 49			hift Offsite Time:	18:00:00 PM	am/pm
Site Contact:	Bo	Jackson				12 hrs	Total hrs.
Site Contact:		imy Dean		Present	Onsite Activities:		enance
<b>-</b>	_						
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	416	hrs
BBLS Processe	d Today:	0 bbls	Cumulative	e BBLS Proces	ssed:	188,54	17 bbls
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	453.2	bbl/hr
Lead Supervisor:	Sam	imy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Ada	m Pollard	10:00		N/A	N/A	N/A
Crew	R	ay Lee	12:00		N/A	N/A	N/A
			14:00		N/A	N/A	N/A
			16:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	5,500	5,500	NO
			Sodium Hydroxide	0	5,000	5,000	No
Visitors:	Bo	Jackson					
Visitors:							
Visitors:							
Were there any abn	ormal operat	ional issues onsite	?				
No							
Are there any additi	onal supplies	s/equipment neede	d? If so, what items and v	when?			
PVC SCH 80							
Have there been an	y changes to	the current schedu	Ile, including volumes ne	eded by client	?		
No					·····		
						· .	
Has client provided	any operatio	nal feedback (posi	tive or negative)?				
Person:			Company:			ХТО	
Additional Con	nments						
Maintenance and Re	pair						

## Appendix B

Та	ble	<b>B</b> -2

	9/	16/2012		Report	Number:	9	8
			]	Unit N	lumber:	8	3
Client:		хто	1	S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	Nash 49			hift Offsite Time:	18:00:00 PM	am/pm
Site Contact:		Jackson				12 hrs	Total hrs
Site Contact:	San	mmy Dean	ĺ	Present	Onsite Activities:	Mainte	enance
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	416	hrs
BBLS Processe		0 bbls		Cumulative BBLS Processed:			7 bbls
BBLS/Hr Proc		512.5		BLS/Hr Proc			bbl/hr
Lead Supervisor:	Sar	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		am Pollard	10:00		N/A	N/A	N/A
Crew		Ray Lee	12:00		N/A	N/A	N/A
			14:00		N/A	N/A	N/A
			16:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	5,500	5,500	NO
,	·		Sodium Hydroxide	0	5,000	5,000	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
	ormal operation	tional issues onsite	?				
Vere there any abn 0							
o	onal supplie	s/equipment neede	d? If so, what items and y				
o	ional supplie	es/equipment neede	d? If so, what items and w	vhen?			
o re there any additi	ional supplie	es/equipment neede	d? If so, what items and w	vhen?			
o re there any additi	ional supplie	es/equipment neede	d? If so, what items and w	vhen?			
o re there any addit VC SCH 80					?		
o re there any addit VC SCH 80			d? If so, what items and w ule, including volumes ne		?		
o re there any addit VC SCH 80 ave there been an					?		
o re there any addit VC SCH 80 ave there been an					?		
o re there any addit VC SCH 80 ave there been an o	y changes to		ule, including volumes ne		?		
o re there any addit VC SCH 80 ave there been an o	y changes to	o the current sched	ule, including volumes ne		?		
o re there any addit VC SCH 80 ave there been an o as client provided <i>Person:</i>	y changes to	o the current sched onal feedback (posi	ule, including volumes nee	eded by client	?	хто	
o re there any addit VC SCH 80 ave there been an o as client provided <i>Person:</i>	l any operatio	o the current sched onal feedback (posi	ule, including volumes ner tive or negative)? Company:	eded by client	?	XTO	

Date:	9/:	17/2012		Report	Number:		9
		·			lumber:	8	
Client:		хто		5	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	lash 49			hift Offsite Time:	18:00:00 PM	am/pm
Site Contact:		Jackson			onsite mile.	12 hrs	Total hrs.
Site Contact:		nmy Dean		Present	Onsite Activities:	Mainte	
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	416	hrs
BBLS Processe		0 bbls	Cumulative BBLS Processed:			188,547 bbls	
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	453.2	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		e McGruder	10:00		N/A	N/A	, N/A
Crew		Ray Lee	12:00		N/A	N/A	N/A
			14:00		N/A	N/A	N/A
			16:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
						-	
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	5,500	5,500	NO
-			Sodium Hydroxide	0	5,000	5,000	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
lere there any abn	ormal operat	tional issues onsite	?				
	ormai operati	ional issues offsite	· · · · · · · · · · · · · · · · · · ·				
re there any additi	onal supplie	s/equipment neede	d? If so, what items and	when?			
VC SCH 80							
ave there been an	y changes to	the current schedu	ule, including volumes ne	eded by client	?		
0			. <u></u>		1		
0							
as client provided	any operatio	onal feedback (posi					
as client provided Person:			Company:			хто	
as client provided Person:				don Tank.		XTO	
as client provided Person:	rying to gravi		Company:	don Tank.		XTO	
as client provided <i>Person:</i> TO pump is down, i	rying to gravi		Company:	don Tank.		XTO	

Date:	9/	18/2012		Report	Number:	10	00
		,			Number:		B
Client:		ХТО		S	hift Onsite Time:	6:00:00AM	am/pm
Location:		lash 49		S	hift Offsite Time:	18:00:00 PM	am/pm
Site Contact:		Jackson				12 hrs	Total hr
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Mainte	enance
Processing Hr	s Today:	8 hrs	Cumulativ	Processing	Hre	424	hrs
BBLS Processe		3,005 bbls	Cumulative Processing Hrs: Cumulative BBLS Processed:			424 IIIS 191,552 bbls	
BBLS/Hr Proc		512.5		Cumulative BBLS/Hr Processed:			bbl/hr
0020/11/100		012.0	Camalative		c33cu.		558711
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator	Eddie	McGruder	10:00		110	6.89	0.785
Crew	R	lay Lee	12:00		110	7.54	0.983
			14:00		110	7.85	1.891
			16:00		110	7.36	0.985
			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	5,500	5,200	NO
I			Sodium Hydroxide	0	5,000	4,750	No
Visitors:	Во	Jackson					
Visitors:	Selee	ct Services					
Visitors:							
		ional issues onsite s/equipment neede	? d? If so, what items and v	vhen?			
	y changes to	the current schedu	Ile, including volumes ne	eded by client	?		
	any operatio	nal foodback (nosit					
s client provided	any operation		Company:			хто	
s client provided Person:	L				I		
	mments						

Date:	9/	19/2012		Report	Number:	1	01
					Number:		8
							<u> </u>
Client:		хто		s	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	lash 49		S	hift Offsite Time:	14:00:00 PM	am/pm
Site Contact:		Jackson				8 hrs	Total hrs.
Site Contact:		nmy Dean		Present	Onsite Activities:		enance
Processing Hr	s Today:	3 hrs	Cumulativ	ve Processing	Hrs:	427	hrs
BBLS Processe		1,366 bbls		e BBLS Proce		192,93	18 bbls
BBLS/Hr Proc		512.5	Cumulative	BBLS/Hr Proc	essed:	451.8	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Eddie	McGruder	10:00		110	6.89	0.785
Crew	R	lay Lee	12:00		110	7.54	0.983
			14:00		110	7.85	1.891
			16:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
							· ·
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	5,200	5,100	NO
			Sodium Hydroxide	0	4,750	4,700	No
Visitors:	Во	Jackson		1	· · · · ·		
Visitors:	Seleo	ct Services					
Visitors:	B	o Wells					
				<b>L</b> .			
Were there any abn	ormal operat	tional issues onsite	2		· · · · · · · · · · · · · · · · · · ·	··· · · · ·	
No							
Are there any additi	ional supplie	s/equipment neede	ed? If so, what items and v	when?			
PVC SCH 80	ond suppris	or oquip in or it i oo u					
Have there been an	v changes to	the current sched	ule, including volumes ne	eded by client	?		
No	,		,				
Has client provided	any operatio	onal feedback (pos	itive or negative)?				
Person:	• •	, u	Company:			хто	· · · · · ·
					L		
Additional Cor	nments						
•		L					
Select Services will u	se teir pump t	o pump water from	holding tanks to Poseidon	Tank.			

Date:	Q/	20/2012	[	Report	Number:	1	02
Dute.				· · ·	lumber:		8
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	lash 49		SI	hift Offsite Time:	20:00:00 PM	am/pm
Site Contact:		Jackson				14 hrs	Total hrs.
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Mainte	enance
Processing Hrs	Today:	8 hrs	Cumulativ	e Processing	Hrs:	435	hrs
BBLS Processed		4,476 bbls	Cumulative BBLS Processed:			197,394 bbls	
BBLS/Hr Proce		512.5	Cumulative I	BBLS/Hr Proc	essed:		bbl/hr
		·					
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Eddie	e McGruder	10:00		110	7.78	1.90
Crew	R	Ray Lee	12:00		110	7.13	.483
Ļ			14:00		110	7.09	.319
			16:00		110	7	0.209
Ļ			18:00		N/A	N/A	N/A
F			20:00		N/A	N/A	N/A
l l l l l l l l l l l l l l l l l l l			Chemical	Usage	Start Inv.	End Inv.	On Orde
F			HcL Acid	03060	5,100	4,800	NO
L			Sodium Hydroxide	0	4,700	4,400	No
Visitors:	Во	Jackson	·····				
Visitors:	Sele	ct Services					
Visitors:	В	o Wells					
o	ormal operat	tional issues onsite	?				
U							
			10.16				
ro thoro any additi	onal supplie	s/equipment needed	d? If so, what items and w	vnen ?			
VC SCH 80							
VC SCH 80			de la chadhan d				
VC SCH 80 ave there been any	r changes to	o the current schedu	le, including volumes ne	eded by client	?		
VC SCH 80	/ changes to	the current schedu	le, including volumes ne	eded by client	?		
VC SCH 80 ave there been any o				eded by client	?		
VC SCH 80 ave there been any o		o the current schedu onal feedback (posit		eded by client	?	хто	
VC SCH 80 ave there been any o as client provided			ive or negative)?	eded by client	?	хто	
VC SCH 80 ave there been any o as client provided	any operatio		ive or negative)?	eded by client	?	ХТО	

Date:	9/2	21/2012		Report	Number:	1(	)3
					lumber:	8	
Client:		хто			hift Onsite Time:		am/pr
Location:		ash 49		Shift Offsite Time:		20:00:00 PM	am/pr
Site Contact:		Jackson				14 hrs Total hi Maintenance	
Site Contact:	Sam	imy Dean		Present	Onsite Activities:	Mainte	enance
Processing Hrs	Today:	2 hrs	Cumulativ	e Processing	Hrs:	437	hrs
BBLS Processed		1,967 bbls	Cumulative BBLS Processed:			199,361 bbls	
BBLS/Hr Proce	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	456.2	bbl/hr
Lead Supervisor:	Sam	imy Dean	Readings:	flow back	Volts/Amps	рН	Turbidi
Lead Operator	Eddie	McGruder	10:00		110	7.2	1.15
Crew		ay Lee	12:00		N/A	N/A	N/A
Ļ	Christe	opher Perry	14:00		N/A	N/A	N/A
Ļ			16:00		N/A	N/A	N/A
F			18:00		N/A	N/A	N/A
-			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Ord
L			HcL Acid	0	4,800	4,750	NO
· · · · · · · · · · · · · · · · · · ·			Sodium Hydroxide	0	4,400	4,350	No
Visitors:		Jackson					
Visitors:		t Services					
Visitors:	Bo	o Wells		L	l	L	
		ional issues onsite s/equipment neede	? d? If so, what items and v	when?			
re there been any	changes to	the current schedu	ule, including volumes ne	eded by client	?		
	any operatio	nal feedback (posi					
			Company:			XTO	
client provided Person:							

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## Appendix B

B-2

Date:	9/	23/2012		Report	Number:	1	05
				Unit N	lumber:		8
Client:	<del>.</del>	хто		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	lash 49		· · · · · · · · · · · · · · · · · · ·	hift Offsite Time:	12:00 PM	am/pm
Site Contact:	Bo	Jackson				14 hrs	Total hrs
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Mainte	enance
Processing Hrs	Today:	2 hrs	Cumulativ	e Processing	Hrs	443	hrs
BBLS Processed		1,441 bbls	Cumulative	203,784 bbls			
BBLS/Hr Proce	-	512.5	· · · · · · · · · · · · · · · · · · ·	BBLS/Hr Proc			bbl/hr
			Ganaatio			400.0	bbiiii
ead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		McGruder	10:00	-	110	6.79	1.91
Crew	F	Ray Lee	12:00	-	N/A	N/A	N/A
	Christ	opher Perry	14:00		N/A	N/A	N/A
			16:00		N/A	N/A	N/A
Ĺ			18:00		N/A	N/A	N/A
-			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
L			HcL Acid	0	4,600	4,500	NO
······			Sodium Hydroxide	0	4,200	4,100	No
Visitors:		Jackson			L		
Visitors:		ct Services			I		
Visitors:	В	o Wells			L I		
there any additions of the second sec	onal supplie		1? If so, what items and v				
		the current schedu	le, including volumes ne ive or negative)? Company:	eded by client	?	хто	

water to poseidon tank.

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Date:	9/2	24/2012		Report	Number:	1	06
				Unit N	Number:		8
Client:		хто		c	hift Onsite Time:	6:00:00AM	am/pm
Location:		ash 49			hift Offsite Time:	12:00 PM	am/pm
Site Contact:		Jackson			nine Offsite Time.	12.00 r M	Total hrs
Site Contact:		nmy Dean		Present	Onsite Activities:	Process Wate	
Processing Hr	s Today:	2 hrs	Cumulativ	e Processing	Hrs:	445	hrs
BBLS Processe	d Today:	1,156 bbls	Cumulative	BBLS Proces	ssed:	204,940 bbls	
BBLS/Hr Proc	essed:	512.5	Cumulative I	BBLS/Hr Proc	essed:	460.5	bbl/hr
Lead Supervisor:	Sarr	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		McGruder	10:00		110	7.54	0.897
Crew		ay Lee	12:00		N/A	N/A	N/A
	Christ	opher Perry	14:00		N/A	N/A	N/A
		nald White	16:00		N/A	N/A	N/A
[			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	4,500	4,450	NO
-			Sodium Hydroxide	0	4,100	4,050	No
Visitors:	Bo	Jackson					
Visitors:	Selec	ct Services					
Visitors:	Bo	o Wells					
ere there any abn	ormal operat	ional issues onsite	?				
e there any additi ′C SCH 80	onal supplies	s/equipment needed	d? If so, what items and w	vhen?			
C SCH 80		····	d? If so, what items and w le, including volumes nee		?		
C SCH 80 ve there been and s client provided	y changes to	····	ile, including volumes nee ive or negative)?		?		
C SCH 80	y changes to	the current schedu	le, including volumes nee		?	хто	

water to poseidon tank.

	- /	25/2042		_	N		07
Date:		25/2012			Number:		07
				Unit	Number:		8
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	lash 49			hift Offsite Time:	12:00 PM	am/pm
Site Contact:	Во	Jackson				6 hrs	Total hrs.
Site Contact:		nmy Dean		Present	Onsite Activities:		enance
Processing Hrs	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	445	hrs
BBLS Processe	d Today:	0 bbls	Cumulative	Cumulative BBLS Processed:			10 bbls
BBLS/Hr Proc		512.5	Cumulative	Cumulative BBLS/Hr Processed:			bbl/hr
• • • •		· · · · · · · · · · · · · · · · · · ·					
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Eddie	e McGruder	10:00		N/A	N/A	N/A
Crew	R	Ray Lee	12:00		N/A	N/A	N/A
	Christ	opher Perry	14:00		N/A	N/A	N/A
	Regi	nald White	16:00		N/A	N/A	N/A
[			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	4,450	4,450	NO
			Sodium Hydroxide	0	4,050	4,050	No
Visitors:	Bo	Jackson					
Visitors:	Sele	ct Services					
Visitors:	B	o Wells	-				
					······		·
			~				
	ormal operat	tional issues onsite	?		<u> </u>		
	ormal operat	tional issues onsite	?				
<b>/ere there any ab</b> no 0	ormal operat	tional issues onsite	?				
	ormal operat	tional issues onsite	?				
0				vhon?			
o re there any additio			? d? If so, what items and v	vhen?			
0				vhen?			
o re there any additio				vhen?			
o <b>re there any additio</b> VC SCH 80	onal supplie	s/equipment neede	d? If so, what items and v		?		
o re there any additio VC SCH 80 ave there been any	onal supplie	s/equipment neede			?		
o re there any additio VC SCH 80 ave there been any	onal supplie	s/equipment neede	d? If so, what items and v		?		
o <b>re there any additio</b> VC SCH 80	onal supplie	s/equipment neede	d? If so, what items and v		?		
o re there any addition VC SCH 80 ave there been any o	onal supplie v changes to	s/equipment neede	d? If so, what items and v ule, including volumes ne		?		
o re there any additio VC SCH 80 ave there been any o	onal supplie v changes to	s/equipment neede	d? If so, what items and v ule, including volumes ne		?	XTO	
o re there any additio VC SCH 80 ave there been any o as client provided	onal supplie v changes to	s/equipment neede	d? If so, what items and v ule, including volumes ne tive or negative)?		?	ХТО	
o re there any additio VC SCH 80 ave there been any o as client provided	onal supplie v changes to	s/equipment neede	d? If so, what items and v ule, including volumes ne tive or negative)?		?	хто	
o re there any additio VC SCH 80 ave there been any o as client provided	onal supplie v changes to any operatic	s/equipment neede	d? If so, what items and v ule, including volumes ne tive or negative)?		?	XTO	
re there any addition /C SCH 80 ave there been any commonstrates as client provided <i>Person:</i>	onal supplie v changes to any operatic	s/equipment neede	d? If so, what items and v ule, including volumes ne tive or negative)?		?	хто	

Date:	9/2	26/2012		Report	Number:	1	108	
	<u>.</u>				Number:		8	
Client:		ХТО		S	hift Onsite Time:	6:00:00AM	am/pm	
Location:	N	ash 49		S	hift Offsite Time:	12:00 PM	am/pm	
Site Contact:		Jackson				6 hrs	Total hrs.	
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Process Wate	er/Maintenance	
Processing Hrs Today: 4 hrs				e Processing		449 hrs		
BBLS Processe		2,970 bbls	Cumulative	e BBLS Proces	ssed:	207,9	10 bbls	
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	463.1	bbi/hr	
Lead Supervisor:		imy Dean	Readings:	flow back	Volts/Amps	pH	Turbidity	
Lead Operator		McGruder	10:00		110	7.10	3.31	
Crew		ay Lee opher Perry	12:00 14:00		110 N/A	7.65 N/A	1.96 N/A	
		hald White	16:00		N/A N/A	N/A	N/A N/A	
	rtegii	ald wille	18:00		N/A N/A	N/A	N/A N/A	
			20:00		N/A	N/A	N/A	
				I				
			Chemical	Usage	Start Inv.	End Inv.	On Order	
			HcL Acid	0	4,450	4,200	NO	
			Sodium Hydroxide	0	4,050	3,800	No	
Visitors:	Bo	Jackson						
Visitors:	Selec	t Services						
Visitors:	Bo	Wells						
Were there any abn	ormal operat	ional issues onsite	?		<u>-</u>			
No								
	onal supplies	s/equipment needed	I? If so, what items and v	when?				
PVC SCH 80								
	y changes to	the current schedu	le, including volumes ne	eded by client	?			
No								
Has client provided	any operatio	nal feedback (posit						
Person:			Company:		L	ХТО		
Additional Con	nments					•		
JSA performed, did m	aintenance o	n units and housekee	ping. Process Water waiti	ng on select to	transfer water fro	m holding tan	ks to Poseidon	

Tank.

Date:		27/2012		Report	Number:	1	09
				Unit N	lumber:		8
Client:		хто		s	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	ash 49			hift Offsite Time:	12:00 PM	am/pm
Site Contact:		Jackson				6 hrs	Total hr
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Process Wate	er/Maintena
	<del>_</del>	·····					
Processing Hrs		2 hrs		e Processing	·····	451	hrs
BBLS Processed		1,045 bbls		BBLS Proces			5 bbls
BBLS/Hr Proce	ssed:	512.5	Cumulative	BBLS/Hr Proc	essed:	463.3	bbl/hr
Lead Supervisor:		ımy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		McGruder	10:00		110	7.54	1.19
Crew		ay Lee	12:00		N/A	N/A	N/A
Ļ		opher Perry	14:00		N/A	N/A	N/A
L	Regi	nald White	16:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
F			20:00		N/A	<u>N/A</u>	N/A
E			Chemical	Usage	Start Inv.	End Inv.	On Orde
L			HcL Acid	0	4,200	4,100	NO
Visitere	Po	laakaan	Sodium Hydroxide	0	3,800	3,700	No
Visitors:		Jackson					
Visitors: Visitors:		o Wells					
ere there any abno	rmal operat	ional issues onsite	?				
/C SCH 80			d? If so, what items and v				
VC SCH 80	changes to	the current schedu	ule, including volumes ne		?		
C SCH 80 ve there been any s client provided a	changes to		ule, including volumes ne tive or negative)?		27		
C SCH 80	changes to	the current schedu	ule, including volumes ne		?	хто	

JSA performed, did maintenance on units and housekeeping. Process Water waiting on select to transfer water from holding tanks to Poseidon Tank.Filled up Poseidon Tank Frac Job started today have enough water for job.

Date:	9/	28/2012		Report	Number:	1	10
				·····	lumber:		8
Client:		ХТО		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	lash 49		SI	nift Offsite Time:	12:00 PM	am/pm
Site Contact:	Bo	Jackson				6 hrs	Total hrs
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Mainte	enance
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	451	hrs
BBLS Processe		0 bbls		BBLS Proces			5 bbls
BBLS/Hr Proc		512.5		BBLS/Hr Proce		,	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Eddie	McGruder	10:00		N/A	N/A	N/A
Crew	F	lay Lee	12:00		N/A	N/A	N/A
		opher Perry	14:00		N/A	N/A	N/A
	Regi	nald White	16:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
			20:00		N/A	N/A	<u>N/A</u>
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	4,100	4,100	NO
			Sodium Hydroxide	0	3,700	3,700	No
Visitors:		Jackson					
Visitors:		ct Services					
Visitors:	В	o Wells					
are there and and	ormal operat	tional issues onsite	?				
o <u>re there any addit</u> VC SCH 80			d? If so, what items and v ule, including volumes ne		?		
o re there any addit VC SCH 80 ave there been an o	y changes to		ule, including volumes ne		?	XTO	
o re there any addit VC SCH 80 ave there been an o as client provided	y changes to	the current sched	ule, including volumes ne itive or negative)?		?	XTO	

## Appendix B

Table	B-2

Date:	9/2	29/2012		Report	Number:	1	11
	Unit Number:				8		
Client:		хто		s	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	ash 49			hift Offsite Time:	12:00 PM	am/pm
Site Contact:	Во	Jackson				6 hrs	Total hrs.
Site Contact:	Sam	imy Dean		Present	Onsite Activities:	Maint	enance
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	451	hrs
BBLS Processed		0 bbls		e BBLS Proces			55 bbls
BBLS/Hr Proce		512.5	Cumulative	BBLS/Hr Proc	essed:	463.3	bbl/hr
Lead Supervisor:	Sam	imy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	Eddie	McGruder	10:00		N/A	N/A	N/A
Crew		ay Lee	12:00		N/A	N/A	N/A
		opher Perry	14:00		N/A	N/A	N/A
	Regir	nald White	16:00		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
L			20:00		N/A	N/A	N/A
							···· -
L			Chemical	Usage	Start Inv.	End Inv.	On Order
L			HcL Acid	0	4,100	4,100	NO
			Sodium Hydroxide	0	3,700	3,700	No
Visitors:		Jackson					
Visitors:		t Services					
Visitors:	Bo	o Wells					
Vere there any abnor	rmal operat	ional issues onsite	?				
0							
re there any additio	nal sunnline	loquinment neede	d? If so, what items and v	when?			
VC SCH 80	nai supplies	sequipment neede	u: ii so, what items and	when:	<u> </u>		
ave there been any	changes to	the current schedu	lle, including volumes ne	eded by client	?		
lo							
	ny operatio	nal feedback (posi	tive or negative)?				
as client provided a	iny operatio					хто	
as client provided a Person:	iny operatio		Company:			~10	
			Company:		I		
as client provided a Person:			Company:		I		

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Date:	9/30/2012			Report	Number:	1	12
<b>__</b>				Unit	Number:		8
Client:		хто		5	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	ash 49			hift Offsite Time:	12:00 PM	am/pm
Site Contact:		Jackson		int offsite ring.	6 hrs	Total hr	
Site Contact:		nmy Dean		Present	Onsite Activities:		enance
	ocessing Hrs Today: 0 hrs Cumulative Processing Hrs:					451	hrs
BBLS Processe		0 bbls		BBLS Proce			5 bbls
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	463.3	bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator	Eddie	McGruder	10:00		N/A	N/A	N/A
Crew	R	lay Lee	12:00		N/A	N/A	N/A
	Christ	opher Perry	14:00		N/A	N/A	N/A
F	Regi	nald White	16:00		N/A	N/A	N/A
E E E E E E E E E E E E E E E E E E E			18.00		N/A	N/A	N/A
ſ			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
[			HcL Acid	0	4,100	4,100	NO
			Sodium Hydroxide	0	3,700	3,700	No
Visitors:	Bo	Jackson					
Visitors:	Selec	ct Services					
Visitors:	B	o Wells					
l <mark>ere there any abn</mark> o	ormal operat	ional issues onsite	?				
re there any addition	onal sunnlie	s/equinment neede	d? If so, what items and v	when?			
-	Silar Supplie	avequipment neede	u in so, what items and i			<u> </u>	
VC SCH 80							
VC SCH 80							
	changes to	the current sched	ule, including volumes ne	eded by client	t?		
	r changes to	the current sched	ule, including volumes ne	eded by client	1?		
ave there been any				eded by client	1?		
ave there been any o as client provided		the current schede	tive or negative)?	eded by client			
ave there been any				eded by client	i? 	хто	··
ave there been any o as client provided	any operatic		tive or negative)?	eded by client	i?	хто	

.

Client:       XTO         Location:       Nash 49         Shift Onsite Time:       6 00:00AM       an/pm         Shift Offsite Time:       12:00 PM       an/pm         Shift Offsite Time:       0 hrs       6 hrs       Total hr.         Processing Hrs Today:       0 hrs       0 bits       Maintenance         Processed:       512.5       Cumulative BLS Processed:       208,955 bits         BBLS/Hr Processed:       512.5       Cumulative BBLS/Hr Processed:       463.3 bbl/hr         Lead Supervisor:       Sammy Dean       Readings:       flow back       Volts/Amps         Lead Operator       Christopher Perry       N/A       N/A       N/A         Crew       Reginald White       12:00       N/A       N/A       N/A         12:00       N/A       N/A       N/A       N/A       N/A         12:00       N/A       N/A <th></th> <th colspan="2" rowspan="2">Date: 10/1/2012</th> <th></th> <th>Report</th> <th>Number:</th> <th colspan="2">113</th>		Date: 10/1/2012			Report	Number:	113	
Location:       Nash 49         Site Contact:       Bo Jackson         Site Contact:       Sammy Dean         Processing Hrs Today:       0         BBLS Processed Today:       0         BBLS/Hr Processed:       512.5         Cumulative Processed:       208,955         BBLS/Hr Processed:       512.5         Lead Operator       Christopher Perry         Crew       Reginald White         10:00       N/A         12:00       N/A         13:00       N/A         14:00       N/A         13:00       N/A         14:00       N/A         12:00       N/A         13:00       N/A         N/A       N/A         14:00       N/A         N/A       N/A         10:00       N/A         N/A       N/A         10:00       N/A					Unit N	lumber:	·····	8
Location:       Nash 49         Site Contact:       Bo Jackson         Site Contact:       Sammy Dean         Processing Hrs Today:       0         bBLS Processed Today:       0         bBLS Processed Today:       0         bBLS Processed:       512.5         Cumulative Processed:       463.3         bBLS Processed:       512.5         Lead Operator       Christopher Perry         Crew       Reginald White         10:00       N/A         10:00       N/A         11:00       N/A         11:00       N/A         11:00       N/A         11:00       N/A         11:00       N/A         12:00       N/A         11:00       N/A         12:00       N/A         11:00       N/A         11:00       N/A         11:00       N/A         11:00       N/A         11:00       N/A         12:00       N/A         13:00       N/A         N/A       N/A         10:00       N/A         10:00       N/A         10:00       N/A								
Site Contact:       Bo Jackson         Site Contact:       Sammy Dean         Processing Hrs Today:       0         BBLS Processed Today:       0         BBLS/Hr Processed:       512.5         Cumulative BBLS Processed:       208,955         BBLS/Hr Processed:       512.5         Lead Supervisor:       Sammy Dean         Lead Operator       Christopher Perry         Crew       Reginald White         10:00       N/A         12:00       N/A         13:00       N/A         14:00       N/A         13:00       N/A         14:00       N/A         10:00       N/A         14:00       N/A         10:00       N/					the state of the second se			
Site Contact:       Sammy Dean       Present Onsite Activities       Maintenance         Processing Hrs Today:       0       hrs       Bits Processed Today:       0       bbis         BBLS Processed Today:       0       bbis       Cumulative BBLS Processed:       208,955       bbis         Lead Supervisor:       Sammy Dean       Readings:       flow back       Volts/Amps       pH       Turbidit         Lead Operator       Christopher Perry       10:00       N/A       N/A       N/A         Crew       Reginald White       12:00       N/A       N/A       N/A         12:00       N/A       N/A       N/A       N/A       N/A         13:00       N/A       N/A       N/A       N/A       N/A         Visitors:       Bo Jackson       Sodium Hydroxide       0       3,700       No         Visitors:       Bo Wells       Image: Sodium Hydroxide       0       3,700       No         Sodium Hydroxide       0       3,700       3,700       No         Visitors:       Bo Wells       Image: Sodium Hydroxide       Image: Sodium Hydroxide <td></td> <td colspan="2"></td> <td></td> <td>SI</td> <td>hift Offsite Time:</td> <td></td> <td></td>					SI	hift Offsite Time:		
Processing Hrs Today:       0       hrs         BBLS Processed Today:       0       bbls         BBLS/Hr Processed:       512.5       Cumulative BBLS/Hr Processed:       208,955         Lead Supervisor:       Sammy Dean       Cumulative BBLS/Hr Processed:       463.3       bbl/hr         Lead Operator       Christopher Perry       10:00       N/A       N/A       N/A         Crew       Reginald White       12:00       N/A       N/A       N/A         18:00       N/A       N/A       N/A       N/A         19:00       N/A       N/A       N/A       N/A         19:00       N/A       N/A       N/A       N/A         10:00       No       Solium Hydroxide       0       3,700       No         Visitors:       Bo								
BBLS Processed Today:       0 bbls         BBLS/Hr Processed:       512.5         Lead Supervisor:       Sammy Dean         Lead Operator       Christopher Perry         Crew       Reginald White         10:00       N/A         11:00       N/A         12:00       N/A         13:00       N/A         14:00       N/A         14:00       N/A         10:00       3,700	Site Contact:	San	nmy Dean		Present	Unsite Activities:	Mainte	enance
BBLS Processed Today:       0       bbls       Cumulative BBLS Processed:       208,955       bbls         BBLS/Hr Processed:       512.5       Cumulative BBLS/Hr Processed:       463.3       bbl/hr         Lead Operator       Christopher Perry       10:00       N/A       N/A       N/A         Crew       Reginald White       12:00       N/A       N/A       N/A         Lead Operator       Christopher Perry       13:00       N/A       N/A       N/A         Lead Supervisor:       Sammy Dean       Readings:       flow back       Volts/Amps       pH       Turbidit         Lead Operator       Christopher Perry       10:00       N/A       N/A       N/A         Lead Supervisor:       Sammy Dean       N/A       N/A       N/A       N/A         Lead Operator       Chemical       Usage       Start Inv.       End Inv.       On Orde         Lead Supervisor:       Solect Services       O       3,700       3,700       No         Visitors:       Bo Jackson       Solect Services       O       3,700       No         Visitors:       Bo Wells       Solect Services       O       Solect Services       O       Solect Services         ve there any additional su	Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	451	hrs
BBLS/Hr Processed:       512.5       Cumulative BBLS/Hr Processed:       463.3 bbl/hr         Lead Supervisor:       Sammy Dean       Readings:       flow back       Volts/Amps       pH       Turbidit         Lead Operator       Christopher Perry       10:00       N/A       N/A       N/A         Crew       Reginald White       12:00       N/A       N/A       N/A         14:00       N/A       N/A       N/A       N/A         14:00       N/A       N/A       N/A         14:00       N/A       N/A       N/A         16:00       N/A       N/A       N/A         18:00       N/A       N/A       N/A         Visitors:       Bo Jackson       Select Services       Select Services         Visitors:       Bo Wells       Select Services       S			0 bbls				208,95	5 bbls
Lead Operator       Christopher Perry         Crew       Reginald White         10:00       N/A       N/A       N/A         11:00       Usage       Start Inv.       End Inv.         Visitors:       Bo Jackson       Select Services       Inv.         Visitors:       Bo Wells       Inv.       Inv.         Prethere any additional supplies/equipment needed? If so, what items a			512.5			******		
Lead Operator       Christopher Perry         Crew       Reginald White         10:00       N/A       N/A       N/A         11:00       Usage       Start Inv.       End Inv.         Visitors:       Bo Jackson       Select Services       Inv.         Visitors:       Bo Wells       Inv.       Inv.         Prethere any additional supplies/equipment needed? If so, what items a	Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Crew       Reginald White       12:00       N/A       N/A       N/A         14:00       N/A       N/A       N/A       N/A         16:00       N/A       N/A       N/A       N/A         16:00       N/A       N/A       N/A       N/A         16:00       N/A       N/A       N/A       N/A         18:00       N/A       N/A       N/A       N/A         20:00       N/A       N/A       N/A       N/A         Visitors:       Bo Jackson       Sodium Hydroxide       0       3,700       No         Visitors:       Bo Wells       Image: Sodium Hydroxide       0       3,700       No         re there any abnormal operational issues onsite?       Image: Sodium Hydroxide       Image: Sodium Hydroxide       Image: Sodium Hydroxide       Image: Sodium Hydroxide         ethere any additional supplies/equipment needed? If so, what items and when?       Image: Sodium Hydroxide       Image: Sodium Hyd								
14:00       N/A       N/A       N/A         16:00       N/A       N/A       N/A         18:00       0       4,100       4,100         Visitors:       Select Services       0       3,700       3,700         Visitors:       Bo Wells       1       1       1         re there any abnormal operational issues onsite?       1       1       1         re there any additional supplies/equipment needed? If so, what items and when?       1       1         c SCH 80       1       1       1       1         sc lient p								
16:00       N/A       N/A       N/A         18:00       N/A       N/A       N/A         18:00       N/A       N/A       N/A         20:00       N/A       N/A       N/A         Chemical       Usage       Start Inv.       End Inv.       On Orde         HcL Acid       0       4,100       4,100       NO         Visitors:       Bo Jackson       Sodium Hydroxide       0       3,700       No         Visitors:       Bo Wells       Image: Start Inv.       End Inv.       On Orde         visitors:       Bo Wells       Image: Start Inv.       End Inv.       On Orde         visitors:       Bo Wells       Image: Start Inv.       End Inv.       On Orde         visitors:       Bo Wells       Image: Start Inv.       Image: Start Inv.       End Inv.       On Orde         visitors:       Bo Wells       Image: Start Inv.       End Inv.       On Orde         visitors:       Bo Wells       Image: Start Inv.       End Inv.       On Orde         e there any additional supplies/equipment needed? If so, what items and when?       Image: Start Inv.       End Inv.       Image: Start Inv.         e there been any changes to the current schedule, including volumes needed by client? <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
18:00       N/A       N/A       N/A         20:00       N/A       N/A       N/A         Chemical       Usage       Start Inv.       End Inv.       On Orde         HcL Acid       0       4,100       4,100       NO         Visitors:       Bo Jackson       Sodium Hydroxide       0       3,700       No         Visitors:       Bo Wells       Image: Start Inv.       Imag	F			16:00				
20:00       N/A       N/A       N/A         Chemical       Usage       Start Inv.       End Inv.       On Orde         HcL Acid       0       4,100       4,100       NO         Visitors:       Bo Jackson       Sodium Hydroxide       0       3,700       No         Visitors:       Select Services       Visitors:       Bo Wells				18:00				
HcL Acid       0       4,100       4,100       NO         Visitors:       Bo Jackson       Sodium Hydroxide       0       3,700       3,700       No         Visitors:       Select Services       Visitors:       Bo Wells       -       -       -       -         are there any abnormal operational issues onsite?       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       <				20:00		N/A		
HcL Acid       0       4,100       4,100       NO         Visitors:       Bo Jackson       Sodium Hydroxide       0       3,700       3,700       No         Visitors:       Select Services       Visitors:       Bo Wells       -       -       -       -         are there any abnormal operational issues onsite?       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       <				Chaminal	11	Chart Inc.	E a d laur	0.0.1
Sodium Hydroxide       0       3,700       3,700       No         Visitors:       Select Services       1       1       1       1         Visitors:       Bo Wells       1       1       1       1       1         ere there any abnormal operational issues onsite?       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1       1	-							
Visitors:       Bo Jackson         Visitors:       Select Services         Visitors:       Bo Wells         ere there any abnormal operational issues onsite?         ere there any additional supplies/equipment needed? If so, what items and when?         C SCH 80         ve there been any changes to the current schedule, including volumes needed by client?         s client provided any operational feedback (positive or negative)?	L							
Visitors:       Bo Wells         ere there any abnormal operational issues onsite?         ere there any additional supplies/equipment needed? If so, what items and when?         C SCH 80         ve there been any changes to the current schedule, including volumes needed by client?         s client provided any operational feedback (positive or negative)?	Visitors:	Во	Jackson					
ere there any abnormal operational issues onsite? e there any additional supplies/equipment needed? If so, what items and when? C SCH 80 ve there been any changes to the current schedule, including volumes needed by client? s client provided any operational feedback (positive or negative)?	Visitors:	Sele	ct Services					
e there any additional supplies/equipment needed? If so, what items and when? C SCH 80 ve there been any changes to the current schedule, including volumes needed by client?	Visitors:	В	o Wells					
ve there been any changes to the current schedule, including volumes needed by client?								<u>.</u>
s client provided any operational feedback (positive or negative)?	e there any addition				vhen?	zn , _e		
	e there any addition 'C SCH 80 ve there been any o	nal supplie	s/equipment neede	d? If so, what items and v		?		
	e there any addition C SCH 80 ve there been any o	nal supplie changes to	s/equipment neede	ed? If so, what items and v ule, including volumes ne		?		
	e there any addition C SCH 80 ve there been any o s client provided a	nal supplie changes to	s/equipment neede	ed? If so, what items and v ule, including volumes ne itive or negative)?		?	хто	

JSA performed Started sludge pull today did not finished. Will continue pulling sludge on Tuesday 10/02/2012. Bo Jackson will get an electrician out on location tomorrow to unpluged all the electricity.

.

Date: 10/5/2012			Report Number:		114		
				Unit M	Number:	8	
Client:		хто			hift Onsite Time:	6:00:00AM	am/pm
Location:	N	lash 49			hift Offsite Time:	12:00 PM	am/pn am/pn
Site Contact:		Jackson			internite.	6 hrs	Total hr
Site Contact:		nmy Dean		Present	Onsite Activities:		Down
ig down units							
Processing Hrs		0 hrs	Cumulativ	e Processing	Hrs:	0	hrs
BBLS Processed	d Today:	0 bbls	Cumulative	BBLS Proces	ssed:	208,95	5 bbls
BBLS/Hr Proce	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	#DI	V/0!
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		opher Perry	10:00		N/A	N/A	N/A
Crew	_	nald White	12:00		N/A	N/A	N/A
			14:00		N/A	N/A	N/A
ſ			16:00		N/A	N/A	N/A
Г			18:00		N/A	N/A	N/A
F			20:00		N/A	N/A	N/A
F			Chemical	Usage	Start Inv.	End Inv.	On Orde
F			HcL Acid	0	4,100	4,100	NO
L			Sodium Hydroxide	0	3,700	3,700	No
Visitors:	Во	Jackson					
Visitors:	Ro	bert Rink					
Visitors:							
		tional issues onsite s/equipment neede	? d? If so, what items and v	when?			
	changes to	the current sched	ule, including volumes ne	eded by client	?		
peration completed							
	any operatio	onal feedback (posi		· · · · -	r		
Person:			Company:	L		XTO	
reison.							
Additional Com	mente						



# Photo Documentation of C-141 Remedial Activities

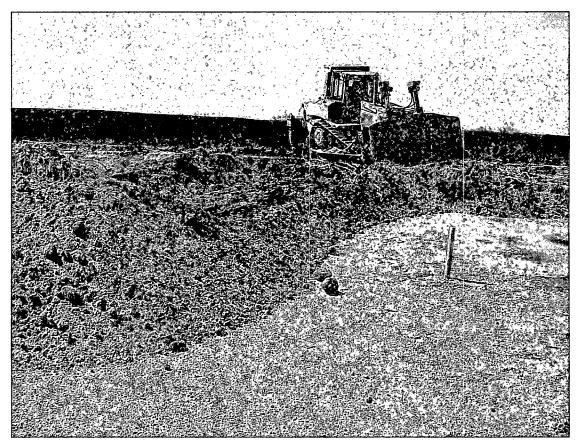


Figure 1: Stockpiling chloride impacted caliche near western 1/3 of location pad.

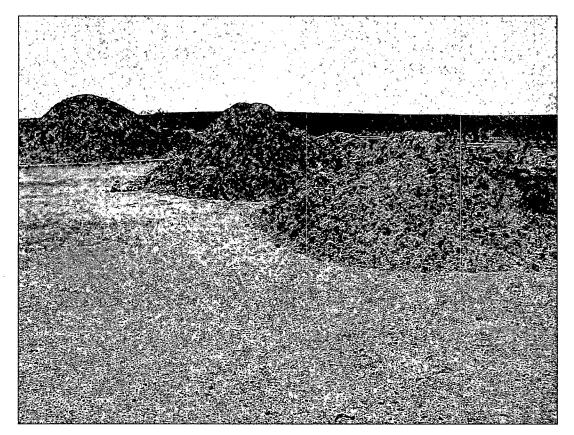


Figure 2: Stockpiled imapcted caclihe (two right soil piles) waiting transport to R360. The far left soil pile (background) is clean soil to be used for BLM interim reclamation activities.

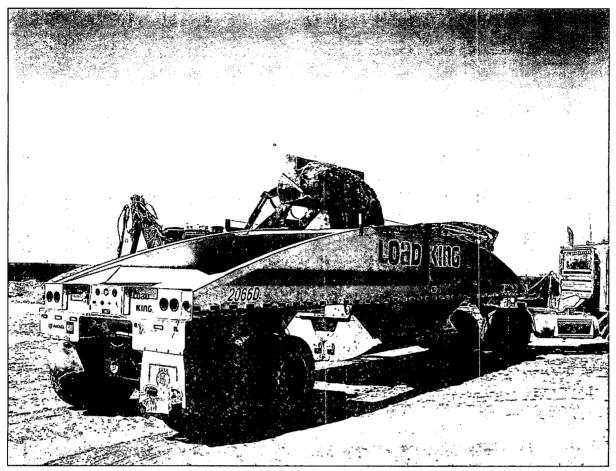


Figure 3: Stockpiled chloride impacted caliche being loaded for trasnport to R360.

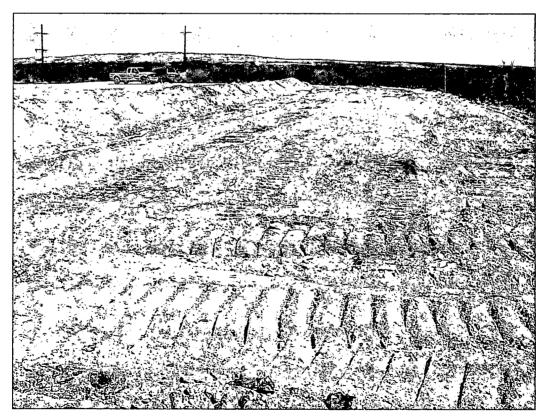


Figure 4: Western 1/3 of caliche pad removed and ready for ripping and seeding. Portions of the caliche pad were included in BLM interim reclamation activities.

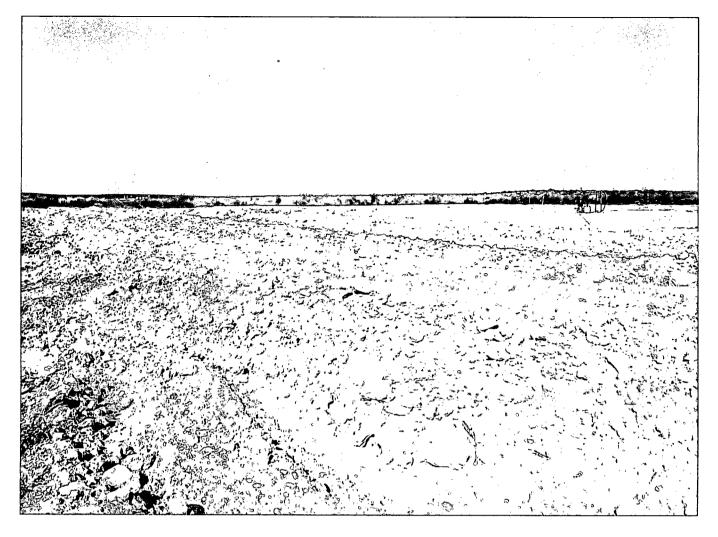


Figure 5: Photo of remediated western 1/3 of caliche pad, viewing north. Area was ripped and seeded with BLM seed mixture #4 and Alkali Sacaton.





November 29, 2012

Andrew Parker R.T. Hicks Consultants, LTD 901 Rio Grande Blvd. NW Suite F-142 Albuquerque, NM 87104 TEL: (505) 266-5004 FAX (505) 266-0745

RE: XTO Energy Nash Unit 29

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

OrderNo.: 1211653

Dear Andrew Parker:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/14/2012 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

**Analytical Report** Lab Order 1211653 Date Reported: 11/29/2012

CLIENT:R.T. Hicks Consultants, LTDProject:XTO Energy Nash Unit 29Lab ID:1211653-001	Client Sample ID: Tank CompositeCollection Date: 11/13/2012Matrix: SOILReceived Date: 11/14/2012 10:50					2012
Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE	ORGANICS					Analyst: JMP
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	11/20/2012 6:22:22 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	11/20/2012 6:22:22 AM
Surr: DNOP	102	77.6-140		%REC	1	11/20/2012 6:22:22 AN
EPA METHOD 8015B: GASOLINE RANG	θE					Analyst: NSE
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/16/2012 2:32:25 PM
Surr: BFB	108	84-116		%REC	1	11/16/2012 2:32:25 PM
EPA METHOD 300.0: ANIONS	100	01110		,011E0	•	Analyst: JRF
Chloride	7500	200			000	11/20/2012 6:54:44 PM
	7500	300		mg/Kg	200	
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PN
Toluene	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PM
Ethylbenzene	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PM
Methyl tert-butyl ether (MTBE)	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PN
1,2,4-Trimethylbenzene	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PM
1,3,5-Trimethylbenzene	NÐ	0.049		mg/Kg	1	11/21/2012 7:19:43 PN
1,2-Dichloroethane (EDC)	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PN
1,2-Dibromoethane (EDB)	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PM
Naphthalene	ND	0.097		mg/Kg	1	11/21/2012 7:19:43 PN
1-Methylnaphthalene	ND	0.19		mg/Kg	1	11/21/2012 7:19:43 PN
2-Methylnaphthalene	ND	0.19		mg/Kg	1	11/21/2012 7:19:43 PN
Acetone	ND	0.73		mg/Kg	1	11/21/2012 7:19:43 PN
Bromobenzene	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PN
Bromodichloromethane	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PN
Bromoform	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PM
Bromomethane	ND	0.15		mg/Kg	1	11/21/2012 7:19:43 PN
2-Butanone	ND	0.49		mg/Kg	1	11/21/2012 7:19:43 PM
Carbon disulfide	ND	0.49		mg/Kg	1	11/21/2012 7:19:43 PM
Carbon tetrachloride	ND	0.097		mg/Kg	1	11/21/2012 7:19:43 PM
Chlorobenzene	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PM
Chloroethane	ND	0.097		mg/Kg	1	11/21/2012 7:19:43 PN
Chloroform	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PM
Chloromethane	ND	0.15		mg/Kg	1	11/21/2012 7:19:43 PN
2-Chlorotoluene	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PN
4-Chlorotoluene	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PN
cis-1,2-DCE	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PM
cis-1,3-Dichloropropene	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PN
1,2-Dibromo-3-chloropropane	ND	0.097		mg/Kg	1	11/21/2012 7:19:43 PN
Dibromochloromethane	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PN
Dibromomethane	ND	0.097		mg/Kg	1	11/21/2012 7:19:43 PM
1,2-Dichlorobenzene	ND	0.049		mg/Kg	1	11/21/2012 7:19:43 PM

#### Qualifiers: * Value exceeds Maximum Contaminant Level.

- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH greater than 2
- RL Reporting Detection Limit

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S

Analytical Report Lab Order 1211653

Date Reported: 11/29/2012

## Hall Environmental Analysis Laboratory, Inc.

Matrix: SOIL

CLIENT: R.T. Hicks Consultants, LTD Project: XTO Energy Nash Unit 29

1211653-001

Lab ID:

## Client Sample ID: Tank Composite Collection Date: 11/13/2012 Received Date: 11/14/2012 10:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichlorobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,4-Dichlorobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PN
Dichlorodifluoromethane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PN
1,1-Dichloroethane	ND	0.097	mg/Kg	1	11/21/2012 7:19:43 PM
1,1-Dichloroethene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,2-Dichloropropane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,3-Dichloropropane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
2,2-Dichloropropane	ND	0.097	mg/Kg	1	11/21/2012 7:19:43 PM
1,1-Dichloropropene	ND	0.097	mg/Kg	1	11/21/2012 7:19:43 PM
Hexachlorobutadiene	ND	0.097	mg/Kg	1	11/21/2012 7:19:43 PM
2-Hexanone	ND	0.49	mg/Kg	1	11/21/2012 7:19:43 PM
Isopropylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
4-Isopropyltoluene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
4-Methyl-2-pentanone	ND	0.49	mg/Kg	1	11/21/2012 7:19:43 PM
Methylene chloride	ND	0.15	mg/Kg	1	11/21/2012 7:19:43 PM
n-Butylbenzene	ND	0.15	mg/Kg	1	11/21/2012 7:19:43 PM
n-Propylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PN
sec-Butylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
Styrene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
tert-Butylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,1,1,2-Tetrachloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,1,2,2-Tetrachloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
Tetrachloroethene (PCE)	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
trans-1,2-DCE	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PN
trans-1,3-Dichloropropene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,2,3-Trichlorobenzene	ND	0.097	mg/Kg	1	11/21/2012 7:19:43 PM
1,2,4-Trichlorobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,1,1-Trichloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,1,2-Trichloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
Trichloroethene (TCE)	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
Trichlorofluoromethane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,2,3-Trichloropropane	ND	0.097	mg/Kg	1	11/21/2012 7:19:43 PM
Vinyl chloride	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
Xylenes, Total	ND	0.097	mg/Kg	1	11/21/2012 7:19:43 PM
Surr: 1,2-Dichloroethane-d4	93.2	70-130	%REC	1	11/21/2012 7:19:43 PM
Surr: 4-Bromofluorobenzene	92.4	70-130	%REC	1	11/21/2012 7:19:43 PM
Surr: Dibromofluoromethane	90.7	70-130	%REC	1	11/21/2012 7:19:43 PM
Surr: Toluene-d8	101	70-130	%REC	1	11/21/2012 7:19:43 PM
EPA METHOD 418.1: TPH					Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	11/21/2012

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	Р	Sample pH greater than 2	R	RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

RL Reporting Detection Limit

**Analytical Report** Lab Order 1211653

Date Reported: 11/29/2012

# Hall Environmental Analysis Laboratory, Inc.

<b>CLIENT:</b> R.T. Hicks Consultants, LTD <b>Project:</b> XTO Energy Nash Unit 29			Client Sample Collection D		•
Lab ID: 1211653-002	Matrix:	SOIL	Received D	ate: 11/14/2	2012 10:50:00 AM
Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE (	ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/20/2012 8:28:08 AM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	11/20/2012 8:28:08 AM
Surr: DNOP	98.6	77.6-140	%REC	1	11/20/2012 8:28:08 AM
EPA METHOD 8015B: GASOLINE RANG	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/16/2012 3:01:11 PM
Surr: BFB	101	84-116	%REC	1	11/16/2012 3:01:11 PM
	101	04 110	)an LO	I	
EPA METHOD 300.0: ANIONS	0000		0.4	100	Analyst: JRR
Chloride	3000	150	mg/Kg	100	11/20/2012 7:07:09 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Toluene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Ethylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Methyl tert-butyl ether (MTBE)	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,2,4-Trimethylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,3,5-Trimethylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,2-Dichloroethane (EDC)	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,2-Dibromoethane (EDB)	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Naphthalene	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
1-Methylnaphthalene	ND	0.20	mg/Kg	1	11/21/2012 7:48:47 PM
2-Methylnaphthalene	ND	0.20	mg/Kg	1	11/21/2012 7:48:47 PM
Acetone	ND	0.74	mg/Kg	1	11/21/2012 7:48:47 PM
Bromobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Bromodichloromethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Bromoform	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Bromomethane	ND	0.15	mg/Kg	1	11/21/2012 7:48:47 PM
2-Butanone	ND	0.49	mg/Kg	1	11/21/2012 7:48:47 PM
Carbon disulfide	ND	0.49	mg/Kg	1	11/21/2012 7:48:47 PM
Carbon tetrachloride	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
Chlorobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Chloroethane	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
Chloroform	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Chloromethane	ND	0.15	mg/Kg	1	11/21/2012 7:48:47 PM
2-Chlorotoluene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
4-Chlorotoluene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
cis-1,2-DCE	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
cis-1,3-Dichloropropene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,2-Dibromo-3-chloropropane	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
Dibromochloromethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Dibromomethane	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
1,2-Dichlorobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM

Qualifiers: * Value exceeds Maximum Contaminant Level. В Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH greater than 2

RL Reporting Detection Limit Analyte detected in the associated Method Blank

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits 3 of 12 S

**Analytical Report** Lab Order 1211653

Date Reported: 11/29/2012

CLIENT: R.T. Hicks Consultants, LTD			Client Sample	e <b>ID:</b> BG Co	mposite
<b>Project:</b> XTO Energy Nash Unit 29			Collection D		•
Lab ID: 1211653-002	Matrix: 3	SOU			2012 10:50:00 AM
			Keceiveu D		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES					Analyst: RAA
1,3-Dichlorobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,4-Dichlorobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Dichlorodifluoromethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,1-Dichloroethane	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
1,1-Dichloroethene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,2-Dichloropropane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,3-Dichloropropane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
2,2-Dichloropropane	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
1,1-Dichloropropene	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
Hexachlorobutadiene	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
2-Hexanone	ND	0.49	mg/Kg	1	11/21/2012 7:48:47 PM
Isopropylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
4-Isopropyltoluene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
4-Methyl-2-pentanone	ND	0.49	mg/Kg	1	11/21/2012 7:48:47 PM
Methylene chloride	ND	0.15	mg/Kg	1	11/21/2012 7:48:47 PM
n-Butylbenzene	ND	0.15	mg/Kg	1	11/21/2012 7:48:47 PM
n-Propylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
sec-Butylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Styrene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
tert-Butylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,1,1,2-Tetrachloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,1,2,2-Tetrachloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Tetrachloroethene (PCE)	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
trans-1,2-DCE	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
trans-1,3-Dichloropropene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,2,3-Trichlorobenzene	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
1,2,4-Trichlorobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,1,1-Trichloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,1,2-Trichloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Trichloroethene (TCE)	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Trichlorofluoromethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
1,2,3-Trichloropropane	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
Vinyl chloride	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PM
Xylenes, Total	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PM
Surr: 1,2-Dichloroethane-d4	94.2	70-130	%REC	1	11/21/2012 7:48:47 PM
Surr: 4-Bromofluorobenzene	87.7	70-130	%REC	1	11/21/2012 7:48:47 PM
Surr: Dibromofluoromethane	91.6	70-130	%REC	1	11/21/2012 7:48:47 PM
Surr: Toluene-d8	105	70-130	%REC	1	11/21/2012 7:48:47 PM
EPA METHOD 418.1: TPH					Analyst: LRW
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	11/21/2012

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Method Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
	Р	Sample pH greater than 2	R	RPD outside accepted recovery limits
	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

Spike Recovery outside accepted recovery limits S

____

____

Client: Project:		icks Consulta Inergy Nash U									
Sample ID Client ID:	MB-4894 PBS	SampT Batch	ype: ME			tCode: El		300.0: Anion	S		
^l Prep Date:	11/19/2012	Analysis D	ate: 1	1/19/2012	S	SeqNo: 2	02928	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-4894	SampT	ype: LC	S	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	ID: 48	94	F	RunNo: 7	001				
Prep Date:	11/19/2012	Analysis D	ate: 1	1/19/2012	S	SeqNo: 2	02929	Units: <b>mg/K</b>	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	90.0	90	110			

## Qualifiers:

Е

* Value exceeds Maximum Contaminant Level.

Value above quantitation range

- B Analyte detected in the associated Method BlankH Holding times for preparation or analysis exceeded
  - ND Not Detected at the Reporting Limit
  - R RPD outside accepted recovery limits

J Analyte detected below quantitation limitsP Sample pH greater than 2

WO#:	1211653
	29-Nov-12

Client: Project:		cks Consulta nergy Nash U		Ď							
Sample ID	MB-4901	SampTy	/pe: <b>ME</b>	BLK	Tes	tCode: EF	PA Method	418.1: TPH			
Client ID:	PBS	Batch	ID: <b>49</b>	D1	F	lunNo: <b>7</b> 0	021				
^I Prep Date:	11/19/2012	Analysis Da	ate: 11	/21/2012	5	SeqNo: 20	03589	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydro	ocarbons, TR	ND	20	10							
Sample ID	LCS-4901	SampTy	pe: LC	S	Tes	tCode: El	PA Method	418.1: TPH			
Client ID:	LCSS	Batch	ID: <b>49</b>	D1	F	RunNo: 70	021				
Prep Date:	11/19/2012	Analysis Da	ate: 11	/21/2012	S	6eqNo: 2	03590	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai
'etroleum Hydro	ocarbons, TR	100	20	100.0	0	104	80	120			
Sample ID	LCSD-4901	SampTy	ype: LC	SD	Tes	tCode: El	PA Method	418.1: TPH			
Client ID:	LCSS02	Batch	ID: <b>49</b>	01	F	RunNo: 7	021				
^I Prep Date:	11/19/2012	Analysis Da	ate: 11	1/21/2012	5	GeqNo: 2	03591	Units: <b>mg/k</b>	٢g		
^I Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydro	ocarbons, TR	110	20	100.0	0	106	80	120	1.28	20	

## Qualifiers:

É

* Value exceeds Maximum Contaminant Level.

- Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

5.1

5.118

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Client: R.T. Hic	ks Consulta	nts, LT	Ď							
Project: XTO En	ergy Nash U	Jnit 29								
Sample ID MB-4900	SampTy	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015B: Diese	el Range C	Drganics	
Client ID: PBS	Batch	ID: <b>49</b>	00	F	lunNo: 69	989				
Prep Date: 11/19/2012	Analysis Da	ate: 11	/20/2012	5	SeqNo: 20	02423	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Notor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9		10.00	·	98.8	77.6	140			
Sample ID LCS-4900	SampTy	pe: LC	S	Tes	tCode: EF	PA Method	8015B: Diese	el Range (	Drganics	
Client ID: LCSS	Batch	ID: <b>49</b>	00	F	RunNo: 69	989				
Prep Date: 11/19/2012	Analysis Da	ate: <b>1</b> 1	/20/2012	5	SeqNo: 20	02424	Units: <b>mg/K</b>	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	47.4	122			
Surr: DNOP	4.0		5.000		80.2	77.6	140			
Sample ID 1211653-001AMS	SampTy	ype: MS	;	Tes	tCode: EF	PA Method	8015B: Diese	el Range (	Drganics	
Client ID: Tank Composite	Batch	ID: <b>49</b>	00	F	RunNo: 69	989				
Prep Date: 11/19/2012	Analysis Da	ate: <b>1</b> 1	/20/2012	9	SeqNo: 20	02426	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.97	0	106	12.6	148			
Surr: DNOP	4.8		5.097		94.6	77.6	140			
Sample ID 1211653-001AMS	D SampTy	ype: MS	SD	Tes	tCode: Ef	PA Method	8015B: Diese	el Range (	Organics	
Client ID: Tank Composite	Batch	ID: <b>49</b>	00	F	RunNo: <b>6</b> 9	989				
Prep Date: 11/19/2012	Analysis Da	ate: <b>1</b> 1	/20/2012	9	SeqNo: 20	02569	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	10	51.18	0	104	12.6	148	0.773	22.5	
o pueD								-	-	

#### **Qualifiers:**

Surr: DNOP

* Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

98.8

77.6

140

0

R RPD outside accepted recovery limits

0

Client:	R.T. Hick	s Consulta	ants, LT	Ď							
Project:	XTO Ene	rgy Nash I	Unit 29								
Sample ID	MB-4851	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015B: Gasc	oline Rang	e	
Client ID:	PBS	Batch	n ID: <b>48</b>	51	F	lunNo: <b>6</b> 9	951				
Prep Date:	11/15/2012	Analysis D	ate: 11	/16/2012	S	eqNo: 20	02014	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 990	5.0	1000		99.3	84	116			
Sample ID	 LCS-4851	SampT	ype: LC	S	Tes	Code: EF	PA Method	8015B: Gaso	line Rang	e	
Client ID:	LCSS	Batch	n ID: <b>48</b>	51	F	lunNo: 6	951				
Prep Date:	11/15/2012	Analysis D	ate: 11	1/16/2012	S	eqNo: 20	02015	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sasoline Rang	e Organics (GRO)	24	5.0	25.00	0	97.3	74	117			
Surr: BFB		1000		1000		104		116			
Sample ID	1211653-001AMS	SampT	ype: MS		Tes	Code: Ef	PA Method	8015B: Gaso	line Rang	e	
Client ID:	Tank Composite	Batch	n ID: <b>48</b>	51	F	lunNo: 69	951				
Prep Date:	11/15/2012	Analysis D	ate: 11	1/16/2012	S	eqNo: 2	02020	Units: <b>mg/k</b>	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	29	4.9	24.63	0	118	70	130			
Surr: BFB		1100		985.2		109	84	116			
Sample ID		) SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015B: Gaso	oline Rang	e	
Client ID:	Tank Composite	Batch	ו ID: <b>48</b>	51	F	lunNo: 69	951				
Prep Date:	11/15/2012	Analysis D	ate: 11	1/16/2012	S	eqNo: 20	02021	Units: <b>mg/k</b>	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0	e Organics (GRO)	29	5.0	24.75	0	118	70	130	0.0876	22.1	
Surr: BFB		1100		990.1		109	84	116	0	0	

#### **Qualifiers:**

Е

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- Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

R.T. Hicks Consultants, LTD

	Energy Nash									
Sample ID <b>mb-4851</b>	SampT	ype: MI	BLK	Tes	Code: El	PA Method	8260B: VOL	ATILES		
Client ID: PBS		n ID: <b>48</b>			lunNo: 7					
Prep Date: 11/15/2012	Analysis D				eqNo: 2		Units: <b>mg/k</b>	(g		
l Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Methyl tert-butyl ether (MTBE)	ND	0.050								
1,2,4-Trimethylbenzene	ND	0.050								
1,3,5-Trimethylbenzene	ND	0.050								
1,2-Dichloroethane (EDC)	ND	0.050								
1,2-Dibromoethane (EDB)	ND	0.050								
Naphthalene	ND	0.10								
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acetone	ND	0.75								
Bromobenzene	ND	0.050								
Jromodichloromethane	ND	0.050								
Bromoform	ND	0.050								
Bromomethane	ND	0.15								
2-Butanone	ND	0.50								
Carbon disulfide	ND	0.50								
Carbon tetrachloride	ND	0.10								
Chlorobenzene	ND	0.050								
Chloroethane	ND	0.10								
Chloroform	ND	0.050								
Chloromethane	ND	0.15								
?-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
Jis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Jibromochloromethane	ND	0.050								
Dibromomethane	ND	0.10								
1,2-Dichlorobenzene	ND	0.050								
, ,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
,1-Dichloroethane	ND	0.10								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
, 3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
lexachlorobutadiene	ND	0.10			•					

#### Qualifiers:

**Client:** 

* Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
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- P Sample pH greater than 2

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- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

WO#: 1211653 29-Nov-12

Sample ID mb-4851	SamnT	ype: ME		 Tes	tCode: E	PA Method	8260B: VOL /				
		n ID: <b>48</b>		TestCode: EPA Method 8260B: VOLATILES RunNo: 7060							
Client ID: PBS											
Prep Date: 11/15/2012	Analysis D	ate: 11	/21/2012	5	SeqNo: 2	04634	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
2-Hexanone	ND	0.50									
sopropylbenzene	ND	0.050									
4-Isopropyltoluene	ND	0.050									
4-Methyl-2-pentanone	ND	0.50									
Methylene chloride	ND	0.15									
n-Butylbenzene	ND	0.15									
n-Propylbenzene	ND	0.050									
sec-Butylbenzene	ND	0.050									
Styrene	ND	0.050									
tert-Butylbenzene	ND	0.050									
1,1,1,2-Tetrachloroethane	ND	0.050									
1,1,2,2-Tetrachloroethane	NÐ	0.050									
Tetrachloroethene (PCE)	ND	0.050									
Jans-1,2-DCE	ND	0.050									
trans-1,3-Dichloropropene	ND	0.050									
1,2,3-Trichlorobenzene	ND	0.10									
1,2,4-Trichlorobenzene	ND	0.050									
1,1,1-Trichloroethane	ND	0.050									
1,1,2-Trichloroethane	ND	0.050									
Trichloroethene (TCE)	ND	0.050									
Trichlorofluoromethane	ND	0.050									
1,2,3-Trichloropropane	ND	0.10									
√inyl chloride	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		93.2	70	130				
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.4	70	130				
Surr: Dibromofluoromethane	0.46		0.5000		92.3	70	130				
Surr: Toluene-d8	0.52		0.5000		103	70	130				
Sample ID Ics-4851	Samp]	Гуре: <b>LC</b>		Tes	stCode: E	PA Method	8260B: VOL	ATILES			
Client ID: LCSS	Batc	h ID: 48	51		RunNo: 7	7060					
Prep Date: 11/15/2012	Analysis [	Date: 1	1/21/2012		SeqNo: 2	204635	Units: mg/K	g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	1.0	0.050	1.000	0	101	70	130				
Toluene	1.1	0.050	1.000	0	108	80	120				
Chlorobenzene	1.0	0.050	1.000	0	101	70	130				
1,1-Dichloroethene	1.1	0.050	1.000	0	110	74	124				
Trichloroethene (TCE)	0.88	0.050	1.000	0	87.9	70	130				
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.4	70	130				
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.1	70	130				

## Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

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Client: R.T. Hid Project: XTO Er	ergy Nash													
		Гуре: LC	 S	Tes	tCode: El	PA Method	8260B: VOL	ATILES						
Client ID: LCSS		h ID: <b>48</b>		F	RunNo: 7	060								
Prep Date: 11/15/2012	Analysis [				SeqNo: 2		Units: mg/K	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Surr: Dibromofluoromethane	0.47		0.5000		93.7	70	130	• •						
Surr: Toluene-d8	0.51		0.5000		103	70	130	_						
Sample ID 1211653-002ams	s Samp	Type: MS	;	TestCode: EPA Method 8260B: VOLATILES										
Client ID: BG Composite	Batc	h ID: <b>48</b>	51	F	RunNo: 7	060								
Prep Date: 11/15/2012	Analysis [	Date: 11	/21/2012	S	SeqNo: 2	04638	Units: <b>mg/k</b>	(g						
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	0.91	0.049	0.9804	0	92.9	80.9	118							
Foluene	0.95	0.049	0.9804	0	97.4	69.5	119							
Chlorobenzene	0.87	0.049	0.9804	0	88.9	75.7	115							
I,1-Dichloroethene	0.99	0.049	0.9804	0.01122	100	68.6	126							
Frichloroethene (TCE)	0.81	0.049	0.9804	0	82.4	68.7	115							
Surr: 1,2-Dichloroethane-d4	0.47		0.4902		96.4	70	130							
Surr: 4-Bromofluorobenzene	0.42		0.4902		85.6	70	130							
Surr: Dibromofluoromethane	0.47		0.4902		95.4	70	130							
Surr: Dibromofluoromethane Surr: Toluene-d8	0.47 0.50		0.4902 0.4902		95.4 102	70 70	130 130							
Surr: Toluene-d8	0.50 <b>d</b> Samp	Гуре: МS	0.4902	Tes	102	70		ATILES						
Surr: Toluene-d8	0.50 <b>d</b> Samp	Гуре: <b>МS</b> h ID: <b>48</b>	0.4902		102	70 PA Method	130	ATILES						
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite	0.50 <b>d</b> Samp	h ID: 48	0.4902 SD 51	F	102 tCode: E	70 PA Method 060	130			<u> </u>				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012	0.50 sd Samp Batc Analysis I Result	h ID: <b>48</b> Date: <b>1</b> 1 PQL	0.4902 5D 51 1/21/2012 SPK value	F S SPK Ref Val	102 tCode: El RunNo: 7 SeqNo: 2 %REC	70 PA Method 060 04639 LowLimit	130 8260B: VOL Units: <b>mg/K</b> HighLimit	<b>⟨g</b> %RPD	RPDLimit	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte	0.50 sd Samp Batc Analysis [ <u>Result</u> 0.92	h ID: <b>48</b> Date: <b>1</b> 1 <u>PQL</u> 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891	F SPK Ref Val	102 tCode: El RunNo: 7 SeqNo: 2 %REC 93.3	70 PA Method 060 04639 LowLimit 80.9	130 8260B: VOL Units: mg/k HighLimit 118	<b>(g</b> %RPD 1.30	20	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene	0.50 d Samp Batc Analysis I Result 0.92 0.98	h ID: <b>48</b> Date: <b>1</b> 1 <u>PQL</u> 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891	F S SPK Ref Val 0 0	102 tCode: <b>E</b> RunNo: <b>7</b> SeqNo: <b>2</b> %REC 93.3 98.8	70 PA Method 060 04639 LowLimit 80.9 69.5	130 8260B: VOL Units: mg/k HighLimit 118 119	<b>5</b> % %RPD 1.30 2.28	20 20	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene	0.50 d Samp Batc Analysis I Result 0.92 0.98 0.88	h ID: <b>48</b> Date: <b>1</b> 1 <u>PQL</u> 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891	F SPK Ref Val 0 0 0	102 tCode: <b>E</b> RunNo: <b>7</b> SeqNo: <b>2</b> %REC 93.3 98.8 89.3	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7	130 8260B: VOL Units: mg/k HighLimit 118 119 115	<b>5g</b> %RPD 1.30 2.28 1.32	20 20 20	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Chlorobenzene ,1-Dichloroethene	0.50 d Samp Batc Analysis I Result 0.92 0.98 0.88 1.0	h ID: <b>48</b> Date: <b>1</b> 1 <u>PQL</u> 0.049 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891	F SPK Ref Val 0 0 0 0.01122	102 tCode: El RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6	130 8260B: VOL Units: mg/k HighLimit 118 119 115 126	<b>5g</b> %RPD 1.30 2.28 1.32 0.357	20 20 20 24.8	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene I,1-Dichloroethene Frichloroethene (TCE)	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82	h ID: <b>48</b> Date: <b>1</b> 1 <u>PQL</u> 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891	F SPK Ref Val 0 0 0	102 tCode: El RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7	130 8260B: VOL Units: mg/k HighLimit 118 119 115 126 115	<b>5</b> %RPD 1.30 2.28 1.32 0.357 1.99	20 20 20 24.8 20	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene I,1-Dichloroethene Frichloroethene (TCE) Surr: 1,2-Dichloroethane-d4	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47	h ID: <b>48</b> Date: <b>1</b> 1 <u>PQL</u> 0.049 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891	F SPK Ref Val 0 0 0 0.01122	102 tCode: El RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70	130 8260B: VOL Units: mg/k HighLimit 118 119 115 126 115 130	<b>5</b> <b>%</b> RPD 1.30 2.28 1.32 0.357 1.99 0	20 20 24.8 20 0	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene I,1-Dichloroethene Frichloroethene (TCE) Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47 0.41	h ID: <b>48</b> Date: <b>1</b> 1 <u>PQL</u> 0.049 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9895 0.9895 0.9895 0.9895 0.9895 0.9895 0.9895 0.9895 0.9895 0.9895 0.9895 0.9895 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.9965 0.99655 0.99655 0.99655 0.99655 0.9965555 0.996555 0.9965555555555	F SPK Ref Val 0 0 0 0.01122	102 tCode: El RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9 83.4	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70 70 70	130 8260B: VOL Units: mg/k HighLimit 118 119 115 126 115 130 130	<b>5</b> <b>%</b> RPD 1.30 2.28 1.32 0.357 1.99 0 0 0	20 20 24.8 20 0 0	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene I,1-Dichloroethene Frichloroethene (TCE) Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47 0.41 0.48	h ID: <b>48</b> Date: <b>1</b> 1 <u>PQL</u> 0.049 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.4946 0.4946	F SPK Ref Val 0 0 0 0.01122	102 tCode: El RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9 83.4 96.6	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70 70 70 70	130 <b>8260B: VOL</b> Units: mg/k HighLimit 118 119 115 126 115 130 130 130	<b>5</b> <b>%</b> RPD 1.30 2.28 1.32 0.357 1.99 0 0 0 0 0 0	20 20 24.8 20 0 0	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Coluene Chlorobenzene ,1-Dichloroethene Trichloroethene (TCE) Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluoromethane Surr: Toluene-d8	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47 0.41 0.48 0.51	h ID: <b>48</b> Date: <b>1</b> 1 <u>PQL</u> 0.049 0.049 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.9894 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946	F SPK Ref Val 0 0 0.01122 0	102 tCode: El RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9 83.4 96.6 104	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70 70 70 70 70 70	130 <b>8260B: VOL</b> Units: mg/k HighLimit 118 119 115 126 115 130 130 130 130 130	<b>5</b> <b>%</b> RPD 1.30 2.28 1.32 0.357 1.99 0 0 0 0 0 0 0 0 0	20 20 24.8 20 0 0	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene 1,1-Dichloroethene Frichloroethene (TCE) Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID mb-4881	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47 0.41 0.48 0.51	h ID: 48 Date: 11 PQL 0.049 0.049 0.049 0.049 0.049	0.4902 5D 51 //21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.98946 0.4946 0.4946 0.4946 0.4946	F SPK Ref Val 0 0 0.01122 0 Tes	102 tCode: El RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9 83.4 96.6 104 tCode: El	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70 70 70 70 70 70 70	130 <b>8260B: VOL</b> Units: mg/k HighLimit 118 119 115 126 115 130 130 130	<b>5</b> <b>%</b> RPD 1.30 2.28 1.32 0.357 1.99 0 0 0 0 0 0 0 0 0	20 20 24.8 20 0 0	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene I,1-Dichloroethene Frichloroethene (TCE) Surr: 1,2-Dichloroethane-d4 Surr: 2.4Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID mb-4881 Client ID: PBS	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47 0.41 0.48 0.51 Samp Batc	h ID: 48 Date: 11 PQL 0.049 0.049 0.049 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.98946 0.4946 0.4946 0.4946 0.4946 8LK 81	F SPK Ref Val 0 0 0.01122 0 Tes F	102 tCode: E RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9 83.4 96.6 104 tCode: E RunNo: 7	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70 70 70 70 70 70 70	130 8260B: VOL Units: mg/k HighLimit 118 119 115 126 115 130 130 130 130 130	<b>3</b> <b>%</b> RPD 1.30 2.28 1.32 0.357 1.99 0 0 0 0 0 ATILES	20 20 24.8 20 0 0	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene oluene Chlorobenzene ,1-Dichloroethene Trichloroethene Trichloroethene (TCE) Surr: 1,2-Dichloroethane-d4 Surr: 2-Dichloroethane Surr: Toluene-d8 Sample ID mb-4881 Client ID: PBS Prep Date: 11/19/2012	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47 0.41 0.48 0.51 Samp Batc Analysis I	h ID: 48 Date: 11 PQL 0.049 0.049 0.049 0.049 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.98946 0.4946 0.4946 0.4946 0.4946 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926 0.4926	F SPK Ref Val 0 0 0 0.01122 0 Tes F S	102 tCode: El RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9 83.4 96.6 104 tCode: El RunNo: 7 SeqNo: 2	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70 70 70 70 70 70 70 70 70 70 70	130 8260B: VOL Units: mg/k HighLimit 118 119 115 126 115 130 130 130 130 130 130 Units: %RE	5 5 5 5 5 5 5 5 5 5 5 5 5 5	20 20 24.8 20 0 0 0 0					
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene I,1-Dichloroethene Frichloroethene (TCE) Surr: 1,2-Dichloroethane-d4 Surr: 2.Bromofluorobenzene Surr: Dibromofluoromethane Surr: Toluene-d8 Sample ID mb-4881 Client ID: PBS Prep Date: 11/19/2012 Analyte	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47 0.41 0.48 0.51 Samp Batc Analysis I Result	h ID: 48 Date: 11 PQL 0.049 0.049 0.049 0.049 0.049 0.049	0.4902 5D 51 //21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946	F SPK Ref Val 0 0 0.01122 0 Tes F	102 tCode: E RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9 83.4 96.6 104 tCode: E RunNo: 7 SeqNo: 2 %REC	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70 70 70 70 70 70 70 70 70 70 70 70 70	130 8260B: VOL Units: mg/k HighLimit 118 119 115 126 115 130 130 130 130 130	<b>3</b> <b>%</b> RPD 1.30 2.28 1.32 0.357 1.99 0 0 0 0 0 ATILES	20 20 24.8 20 0 0	Qual				
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene I,1-Dichloroethene Frichloroethene (TCE) Surr: 1,2-Dichloroethane-d4 Surr: 24-Bromofluorobenzene Surr: Dibromofluorobenzene Surr: Toluene-d8 Sample ID mb-4881 Client ID: PBS Prep Date: 11/19/2012 Analyte Surr: 1,2-Dichloroethane-d4	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47 0.41 0.48 0.51 Samp Batc Analysis I Result 0.47	h ID: 48 Date: 11 PQL 0.049 0.049 0.049 0.049 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.5000 0.5000	F SPK Ref Val 0 0 0 0.01122 0 Tes F S	102 tCode: E RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9 83.4 96.6 104 tCode: E RunNo: 7 SeqNo: 2 %REC 93.5	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70 70 70 70 70 70 70 70 70 7	130 8260B: VOL Units: mg/k HighLimit 118 119 115 126 115 130 130 130 130 130 8260B: VOL Units: %RE HighLimit 130	5 5 5 5 5 5 5 5 5 5 5 5 5 5	20 20 24.8 20 0 0 0 0					
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene 1,1-Dichloroethene frichloroethene (TCE) Surr: 1,2-Dichloroethane-d4 Surr: 2-Bromofluorobenzene Surr: Toluene-d8 Sample ID mb-4881 Client ID: PBS Prep Date: 11/19/2012 Analyte Surr: 1,2-Dichloroethane-d4 Surr: 4-Bromofluorobenzene	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47 0.41 0.48 0.51 Samp ^T Batc Analysis I Result 0.47 0.44	h ID: 48 Date: 11 PQL 0.049 0.049 0.049 0.049 0.049 0.049 0.049	0.4902 50 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.5000 0.5000 0.5000 0.5000	F SPK Ref Val 0 0 0 0.01122 0 Tes F S	102 tCode: E RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9 83.4 96.6 104 tCode: E RunNo: 7 SeqNo: 2 %REC 93.5 88.8	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70 70 70 70 70 70 70 70 70 7	130 8260B: VOL Units: mg/k HighLimit 118 119 115 126 115 130 130 130 130 130 130 Units: %RE HighLimit 130 130 130	5 5 5 5 5 5 5 5 5 5 5 5 5 5	20 20 24.8 20 0 0 0 0					
Surr: Toluene-d8 Sample ID 1211653-002ams Client ID: BG Composite Prep Date: 11/15/2012 Analyte Benzene Foluene Chlorobenzene I,1-Dichloroethene Frichloroethene (TCE) Surr: 1,2-Dichloroethane-d4 Surr: 24-Bromofluorobenzene Surr: Dibromofluorobenzene Surr: Toluene-d8 Sample ID mb-4881 Client ID: PBS Prep Date: 11/19/2012 Analyte Surr: 1,2-Dichloroethane-d4	0.50 Batc Analysis I Result 0.92 0.98 0.88 1.0 0.82 0.47 0.41 0.48 0.51 Samp Batc Analysis I Result 0.47	h ID: 48 Date: 11 PQL 0.049 0.049 0.049 0.049 0.049 0.049 0.049	0.4902 5D 51 1/21/2012 SPK value 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.9891 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.4946 0.5000 0.5000	F SPK Ref Val 0 0 0 0.01122 0 Tes F S	102 tCode: E RunNo: 7 SeqNo: 2 %REC 93.3 98.8 89.3 99.6 83.3 95.9 83.4 96.6 104 tCode: E RunNo: 7 SeqNo: 2 %REC 93.5	70 PA Method 060 04639 LowLimit 80.9 69.5 75.7 68.6 68.7 70 70 70 70 70 70 70 70 70 7	130 8260B: VOL Units: mg/k HighLimit 118 119 115 126 115 130 130 130 130 130 8260B: VOL Units: %RE HighLimit 130	5 5 5 5 5 5 5 5 5 5 5 5 5 5	20 20 24.8 20 0 0 0 0					

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

Page 11 of 12

## Client: R.T. Hicks Consultants, LTD

Project: XTO Energy Nash Unit 29

Sample ID Ics-4881	SampT	ype: <b>LC</b>	s	Tes						
Client ID: LCSS	Batch	n ID: <b>48</b>	81	F	RunNo: 7	060				
Prep Date: 11/19/2012	Analysis D	ate: 1	1/21/2012	5	SeqNo: 2	04641	Units: %RE	с		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.6	70	130			
Surr: 4-Bromofluorobenzene	0.45		0.5000		89.1	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.8	70	130			
Surr: Toluene-d8	0.53		0.5000		106	70	130			

### Qualifiers:

* Value exceeds Maximum Contaminant Level.

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits



## Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuguergue, NM 87105 TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

## Sample Log-In Check List

Clie	nt Name:	RT HICKS		Work Or	der Num	nber: 1	1211653
Rec	eived by/date	:MG111	114/12_				
Log	ged By:	Anne Thorne	11/14/2012 10:50:00	AM		Arma	. Am
Con	pleted By:	Anne Thorne	11/19/2012			Arri	. Here
Rev	iewed By:	A 11/1	19/12				
<u>Cha</u>	in of Cust	ody					
1.	Were seals i	ntact?		Yes	🗌 No		Not Present 🗹
2.	Is Chain of C	Sustody complete?		Yes	V No	<b>b</b>	Not Present
3.	How was the	sample delivered?		<u>Clien</u>	<u>t</u>		
<u>Log</u>	In						
4.	Coolers are	present? (see 19. for co	oler specific information)	Yes		•	NA 🗹
5.	Was an atter	mpt made to cool the sa	mples?	Yes	💟 No	• 🗆	
6.	Were all sam	nples received at a temp	perature of >0° C to 6.0°C	Yes	🗹 No	<b>b</b>	
7.	Sample(s) in	proper container(s)?		Yes	🗹 No	<b>,</b> 🗆	
8.	Sufficient sa	mple volume for indicate	ed test(s)?	Yes	🖌 No	<b>)</b>	
9.	Are samples	(except VOA and ONG	) properly preserved?	Yes	V No	<b>&gt;</b>	
10.	Was preserv	ative added to bottles?		Yes	No No		NA 🗌
11.	VOA vials ha	ave zero headspace?		Yes	No	<b>b</b>	No VOA Vials 🗹
12.	Were any sa	mple containers receive	d broken?	Yes	L No	> ✔	
-		vork match bottle labels pancies on chain of cust		Yes	V No		# of preserved bottles checked for pH:
14.	Are matrices	correctly identified on C	hain of Custody?	Yes	🖌 No		(<2 or >12 unless noted)
15.	Is it clear wh	at analyses were reques	sted?	Yes	V No		Adjusted?
		ding times able to be me customer for authorization		Yes	V No		Checked by:
Spe	cial Handl	ing (if applicable)					
		otified of all discrepance	es with this order?	Yes			NA 🗹
	Person	Notified:	Date				
	By Who	om:	Via:	eMai	I 🗌 P	hone	🗌 Fax 🔲 In Person
	Regard	ing:					Triben no. 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1
	Client Ir	nstructions:	- 14		<u> </u>		and the second se
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18. Additional remarks:

## 19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Not Present			

Client: R.T. Hicks Consultants		Turn-Around	Time:		1						_		<i>.</i>	•							
Client:	RT	Hinks 1	Consulfants	D Standard	🗆 Rusł	1													NT \TC		
				Project Name														T.P			
Moiling	Address			-		•					ww	v.ha	llen	/iron	ment	tal.c	om				
	Address	<u> </u>	file	XTO FOR	rgy Nasi	h Unit #29	4	49	01 H	lawk	ins N	1E -	Alt	buqu	erqu	e, N	M 87	109			
				Project #:	<i>.</i> ,			Te		)5-34							-410				
Phone	#: <u>50</u> .	5.266	5004				Analysis Request														
email o	r Fax#: _/	ndrew le	rthicksconsult.com	Project Mana	iger:		<del>ہ</del> ا	l ()	sel)					()							
QA/QC	Package:	:					802	as o	/Die					04,S	PCB's						
🗆 Star	ndard		Level 4 (Full Validation)	Andrew	Packer		;;s ;;s	Ü	Gas					L d							
Accred				And rew Sampler: Ar	rdrew Pa	rker	TMB's (8021)	TPH (Gas only)	TPH Method 8015B (Gas/Die	(1)	.1)	Ŧ		Anions (FCL)NO3,NO2,PO4,SO4)	8082						Î
		□ Othe	۲				+	+	3015	TPH (Method 418.1)	EDB (Method 504.1)	PAH)	<u>s</u>	03°	/ Se		(Semi-VOA)				Air Bubbles (Y or N)
	) (Type) T	<del></del>		Sample Terr	p <b>erature:</b>		1BE	BTEX + MTBE	g bc	pot	por	8310 (PNA or	8 Metals	6	8081 Pesticides /	1	i-√				S
_	_			Container	Preservative		∑ +	∑ +	leth.	Aeth	deth	PNA	8	F.	esti	8260B ( <del>¥04)</del> )	Sen	Ì			ble
Date	Time	Matrix	Sample Request ID	Type and #	Туре	HEAL NO	Ш	Ц Ш	Ы Н	E) H	B ()	0	RCRA	suo	<u>т</u>	0B	0				But
<u>.</u>						12111/5B	BTEX	BTI	ΤPI	ΤPI	ED	831	ъ С С	Ani	808	826	8270				Air
11-13.12	1254	soil	tank # 1.08"	402 glass	ICR	· · · · · · · · · · · · · · · · · · ·								1		1					
	1256	JC.	tank # 2 @ 8"	"	"				(	(				$\left  \right $		(					
11	1259	11	tank # 3 @8"		11									$\sum$							
"	1303	11	tank # 4 @ 8"	"	11				(					/		(		I			
il.	1305	e l	tonk# 5 @8"	11	11									$\Box$							Ţ
"	1311	11	B6# 1 @8"	a	11									7		7					Τ
//	1314	11	BG# 2 @ 8"	17	11				(							$\left  \right $					
<i>(</i> ′	1317	"	B6# 3 @ 8"	"	11																
11	1325	11	86# 4 @ 8"		1/					/											
11	1327	"	BG # 5@8"	11	11				(	\						)					
× ×			Tank compositet			- 001			X	X				X		χ					
			156 composite **			Date Time			入	X	~			ス	-	X					
Date:	Time:	Relinquish	ed by:	Received by:	0			nark								~					
17/14	10.50	1 Char	utan	Mul	1/th	11/14/12 10:50 Date Time	1×1	20	not	a	naly	ZC	P	oint	Sam	ple	5	tan'	k #	1 -	<b>₽</b> 5
Date:	Time:	Relinquish	ed by:	Received by:	7	/ Date Time	×× 1	Do	not	a	hal1	ZC	p	oint	Sai	mpt	es	B6 -	#1	->	5
	<u>]</u> .	1					Lo	<u>15</u>	(0~	<u>, por</u>	sile	T	ank	<u>t</u>	1-1	<u>5 ;</u> .	hab	(UM	posit	e Bl	<u>2.4</u> F

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



February 18, 2013

ANDREW PARKER R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: XTO NASH UNIT 29

Enclosed are the results of analyses for samples received by the laboratory on 02/13/13 7:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab_accred_certif.html">www.tceq.texas.gov/field/qa/lab_accred_certif.html</a>.

Cardinal Laboratories is accreditated through 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 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

R T HICKS CONSULTANTS ANDREW PARKER 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	02/13/2013	Sampling Date:	02/11/2013
Reported:	02/18/2013	Sampling Type:	Soil
Project Name:	XTO NASH UNIT 29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UNIT 'J', SEC. 13, T23S, R29E		

### Sample ID: SAMPLE TRENCH @ 2' BGS (H300404-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	02/18/2013	ND	448	112	400	0.00	
Conductivity 120.1	uS/	cm	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed Method Bl		BS	% Recovery	True Value QC	RPD	Qualifier
Conductivity*	8010	1.00	02/15/2013		476	95.2	500	0.752	

#### Sample ID: SAMPLE TRENCH @ 4' BGS (H300404-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result Reporting Limit 2120 16.0		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride			02/18/2013	ND	416	104	400	3.77	
Conductivity 120.1	uS/	'cm	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Conductivity*	6020	1.00	02/15/2013		476	95.2	500	0.752	

## Sample ID: SAMPLE TRENCH @ 6' BGS (H300404-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	02/18/2013	ND	416	104	400	3.77	
Conductivity 120.1	uS/	cm	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Conductivity*	7050	1.00	02/15/2013		476	95.2	500	0.752	

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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## 101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

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+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 5 5 4 4 2

Page 4 of 4



June 28, 2013

KRISTIN POPE R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: XTO NASH UNIT 29

Enclosed are the results of analyses for samples received by the laboratory on 06/26/13 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab_accred_certif.html">www.tceq.texas.gov/field/qa/lab_accred_certif.html</a>.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



## Analytical Results For:

R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/26/2013	Sampling Date:	06/24/2013
Reported:	06/28/2013	Sampling Type:	Soil
Project Name:	XTO NASH UNIT 29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UNIT 'J', SEC. 13, T23S, R29E		

### Sample ID: BACKGROUND @ 1.5' (H301491-01)

Chloride, SM4500Cl-B	Analyze	d By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	06/28/2013	ND	448	112	400	3.64	

## Sample ID: BACKGROUND @ 3' (H301491-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	06/28/2013	ND	448	112	400	3.64	

### Sample ID: BACKGROUND @ 4.5' (H301491-03)

Chloride, SM4500CI-B	Analyze	d By: DW							
Analyte Result Repo		Reporting Limit	ng Limit Analyzed Method Blank			% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	06/28/2013	ND	448	112	400	3.64	

#### Sample ID: BACKGROUND @ 6' (H301491-04)

Chloride, SM4500Cl-B	Analyze	d By: DW							
Analyte Result		Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	06/28/2013	ND	448	112	400	3.64	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



## Analytical Results For:

R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	06/26/2013	Sampling Date:	06/24/2013
Reported:	06/28/2013	Sampling Type:	Soil
Project Name:	XTO NASH UNIT 29	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UNIT 'J', SEC. 13, T23S, R29E		

### Sample ID: BACKGROUND @ 7.5' (H301491-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	06/28/2013	ND	448	112	400	3.64	

## Sample ID: BACKGROUND @ 8' (H301491-06)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW				-	
Analyte Result		Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	06/28/2013	ND	448	112	400	3.64	

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



## **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

#### **Cardinal Laboratories**

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### *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and received by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidianes, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Libratorians.

Celey & Kune

Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

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