Submit To Approp	niate Distr	ict Office				State of Ne											rm C-105
District I 1625 N. French Dr., Hobbs, NM 88240				Energy, Minerals and Natural Resources					Revised August 1, 2011  1. WELL API NO.								
District II 811 S. First St., Artesin, NM 88210 District III				Oil Conservation Division					30-015-29434								
					122	20 South St	t. Fra	anci	s D	r.		2. Type of Le		☐ FEE	X FE	D/INDI	IAN
1220 S. St. Francis						Santa Fe, N						3. State Oil &	2 Gas	Lease No	).		
4. Reason for fil		PLETIC	ON OR	RECC	MPL	ETION RE	POR	RT A	NE	LOG		5. Lease Name		ni Assa	mant Nor		
COMPLET	_	PORT (F	ill in hove	#1 throu	ich #31	for State and Fee	welle	only)				6. Well Numb		mit Agict	mem Nan	iic	
C-144 CLO #33; attach this a	SURE A	TTACHN	MENT (Fi	ll in boxe	- es#1 thr	ough #9, #15 Da	te Rig	Relea	sed		Vor	Nash		nit #	29		
7. Type of Comp	pletion: WELL	- "				□PLUGBACE					OIF		C-:	144 (	Closu	re :	Report
8. Name of Oper XTO	<sup>ator</sup> Ene	rqy,	Inc									9. ogrid 5	386	0			
10. Address of C	perator			.i.t.o	900	Midlan	٠ ،	'nΨ	7.0	2701		11. Pool name	or W	ldcat			
12.Location	Unit Ltr		tion	Towns		Range	Lot		-/-	Feet from	iha.	N/S Line	Enat	from the	E/W Li	70	County
Surface:	OIII LU			TOWNS	anp	Range	200			1 cct trotti	inc	17/5 Ente	1001	nom me	L/ VV LI	iic .	County
BH:				<del> </del>													
13. Date Spudder		Date T.D.	Reached	0	ctob	Released Der 5, 2						(Ready to Prod		R	T, GR, etc	:.)	and RKB,
18. Total Measur	ed Depth	of Well		19. F	lug Bac	k Measured Dep	th		20.	Was Direct	tiona	l Survey Made?		21. Typ	e Electric	and Ot	her Logs Run
22. Producing In	terval(s),	of this co	mpletion -														
23.	F7.T'	1100	ICHT I D	CASING RECORD (Report all string				ngs set in well)   CEMENTING RECORD   AMOUNT PULLED									
CASING SI	ZE	WE.	IGHT LB./	/FT. DEPTH SET			HOLE SIZE		CEMENTING RECOR		CORD	AMO	OUNT	PULLED			
<u> </u>		ļ					+										
SIZE	TOP		LBO	ТТОМ	LINE	SACKS CEMI	TIVE	SCR	FEN	J	25. SIZ			NG REC		PACKE	PSET
SIZE	101		50	110111		BACKS CEM		3010			312			1113L		LACKE	K DL I
26. Perforation	second (i	ntenual ci	iza and nu	mbar\					A ("1	D CHOT	<u></u>	ACTURE, CE		T COLL		TO	·
20. Fertotation	record (1	ilici vai, si	ize, anu nu	moerj						ID, SHOT, INTERVAL		ACTURE, CE AMOUNT A					
28.										<b>FION</b>							
Date First Produc	tion		Produc	tion Metl	rod (Flo	wing, gas lift, pu	mping	- Size	e and	d type pump,	)	Well Status	(Prod	l. or Sinu-	-in)		
Date of Test	Date of Test Hours Tested Choke Size Prod'n For Oil - 1 Test Period				Bbl		Gas	s - MCF	Wa	Water - Bbl.		Gas - O	il Ratio				
Flow Tubing Press.	Casin	Casing Pressure Calculated 24 Hour Rate				1	Gas -	MCF		Water - Bbl.		Oil Gravity - API - (Corr.)		)			
29. Disposition of Gas (Sold, used for fuel, vented, etc.)  30. Test Witnessed By																	
31. List Attachme	ents		<u> </u>														
32. If a temporary	pit was	used at the	e well, atta	ch a plat	with the	location of the	empor	агу р	it. c	See Pl	at	es 1 an	d 2	2.			
33. If an on-site b																	
I hereby certij	by that f	helinfor	mation s	hown			form	is tr	ие с	ınd compl	ete	Longitude to the best of	f my	knowled	dge and	NAI belief	D 1927 1983
Signature		Lou	NÃ	Lu		rinted Name				Tit		_				Date	
E-mail Addres	s Dav	id_Lu	na@xto	energ	y.co	m Dav	rid Lu	ına		Operat	ion	s Engineer		De	ecembe	r 05,	2013

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office. For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit Closed-Loon System Below-Grade Tank or

Tit, Closed Boop Bystem, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application
Type of action:    X   Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method   Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method   Modification to an existing permit   Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: XTO Energy,Inc OGRID #: 5380
Address: 200 N. Loraine, Suite 800 Midland, TX 79701
Facility or well name: Nash Unit #29
API Number: 30-015-29434 OCD Permit Number:
U/L or Qtr/Qtr J Section 13 Township 23S Range 29E County: Eddy
Center of Proposed Design: Latitude N 32.30322 Longitude W 103.93719 NAD: ☐1927 🔀 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
2.
Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent  Emergency Cavitation P&A X Other: Modular impoundment for temporary storage of treated produced water
Permanent Emergency Cavitation P&A X Other: Modular impoundment for temporary storage of treated produced water Vertical steel foam-insulated panels  Lined Unlined Liner type: Thickness 30 mil LLDPE HDPE PVC Other that support liner
String-Reinforced
Diameter: 157 ft. Height: 12 ft  Liner Seams:   Welded   Factory   Other   Volume: 41,000 bbl Dimensions:   Volume: 41,000 bbl Dime
3.
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Drying Pad Above Ground Steel Tanks Haul-off Bins Other
Lined Unlined Liner type: Thicknessmil LLDPE HDPE PVC Other
Liner Seams:
4.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
Tank Construction material:
☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other
Liner type: Thicknessmil
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.

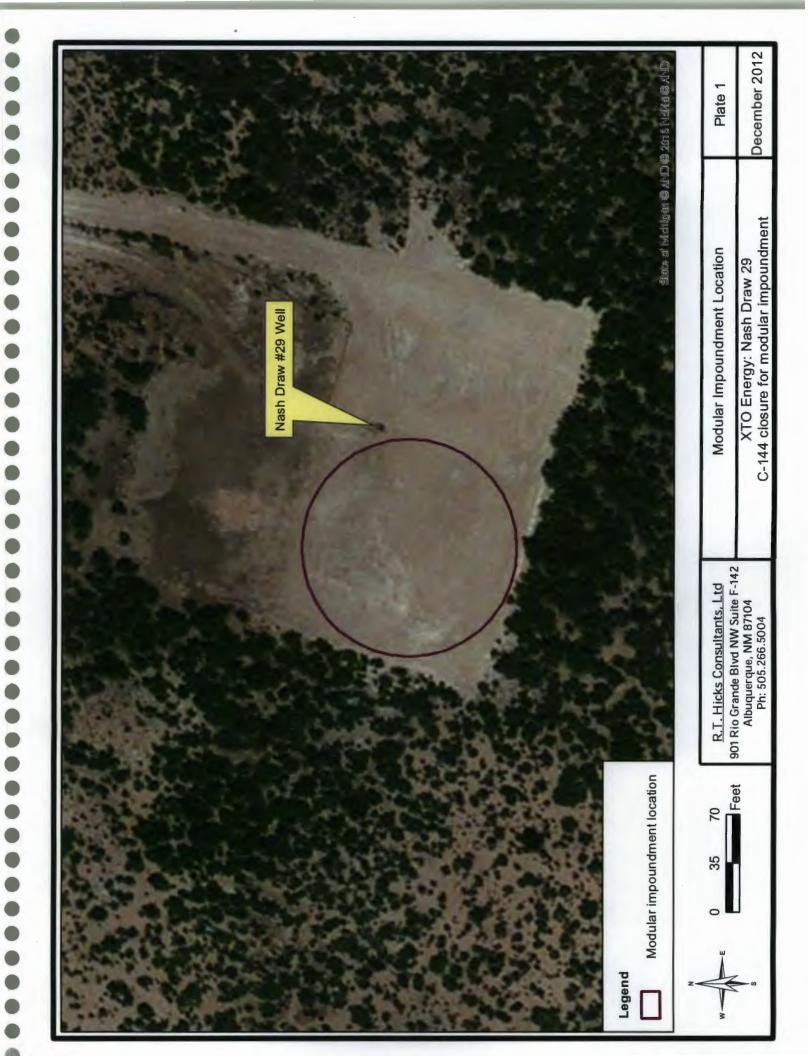
Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks)  Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church)  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify Modular impoundment walls are 12 feet high; no fencing necessary.	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other  Monthly inspections (If netting or screening is not physically feasible)	
Signs: Subsection C of 19.15.17.11 NMAC  ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  ☐ Signed in compliance with 19.15.16.8 NMAC See photos in Appendix SSI-1	
9.  Administrative Approvals and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district approval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes 🛛 No 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 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 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
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
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes X 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	Yes No SEE FIGURE 8
Within a 100-year floodplain FEMA map	Yes X No SEE FIGURE 9

Temporary Pits, Emergency Pits, and Below-grade Tanks 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.  ☐ 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 and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:
Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC     Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.    Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9     Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC     Design Plan - based upon the appropriate requirements of 19.15.17.12 NMAC     Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
☐ Previously Approved Design (attach copy of design) API Number:
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)
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 Assessment - 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   Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC   Nuisance or Hazardous Odors, including H <sub>2</sub> S, Prevention Plan   Dil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control Plan   Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.  Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative 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 G of 19.15.17.13 NMAC

16. Wester Description Classes For Classed Land Systems That Utilize Above Crowned Steel Toules on Houle off Ping Only. (10.15.17.12.1	D NIMAC)
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future ser Yes (If yes, please provide the information below) No	vice and operations?
Required for impacted areas which will not be used for future service and operations:  Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 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	С
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict office or may be
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
<ul> <li>Within an unstable area.</li> <li>Engineering measures incorporated into the design; NM Bureau of Geology &amp; Mineral Resources; USGS; NM Geological Society; Topographic map</li> </ul>	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  Protocols and Procedures - based upon the appropriate requirements of Subsection F 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 cann 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 G of 19.15.17.13 NMAC	15.17.11 NMAC

· · · · · · · · · · · · · · · · · · ·
Operator Application Certification:  I hereby certify that the information submitted with this application is true, occurate and complete to the best of my knowledge and belief.
Nume (Print): David Luna Title: Operations Engineer
Signature: Date: 06/13/2012
е-mail address:David_Luna@xtoenergy.com Telephone:432-620-6742
OCD Approval: Permit Application (including closure plan)
OCD Representative Signature: Approval Date: 1/14/12
Title:OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure 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
21. Clasure Method: Waste Excavation and Removal 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
21. Closure Report Regarding Waste Removal Closure For Clased-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: R360 Disposal Facility Permit Number: R-9166
Disposal Facility Name:
Yes (If yes, please demonstrate compliance to the items below) \( \subseteq 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
34.  Closure Report Attachment Checklist: Instructions: Eoch of the fallowing Items must be attached to the closure report. Please indicate, by a check
mark in the bax, that the documents are attached.    Proof of Closure Natice (surface owner and division)
Proof of Deed Notice (required for on-site closure)
Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (If applicable)
Waste Material Sampling Analytical Results (required for on-site closure)
Disposal Facility Name and Permit Number Soil Backfilling and Cover Instaliation
Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)
On-site Closure Location: LatitudeLongitudeNAD: 🔲 1927 🔲 1983
Operator Closure Certification:  I 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 Luga / Title: Operations Engineer
Signature: Date: 12/05/2013
c-mail oddress: David Luna@xtoenergy.com Telephone: 432-620-6742





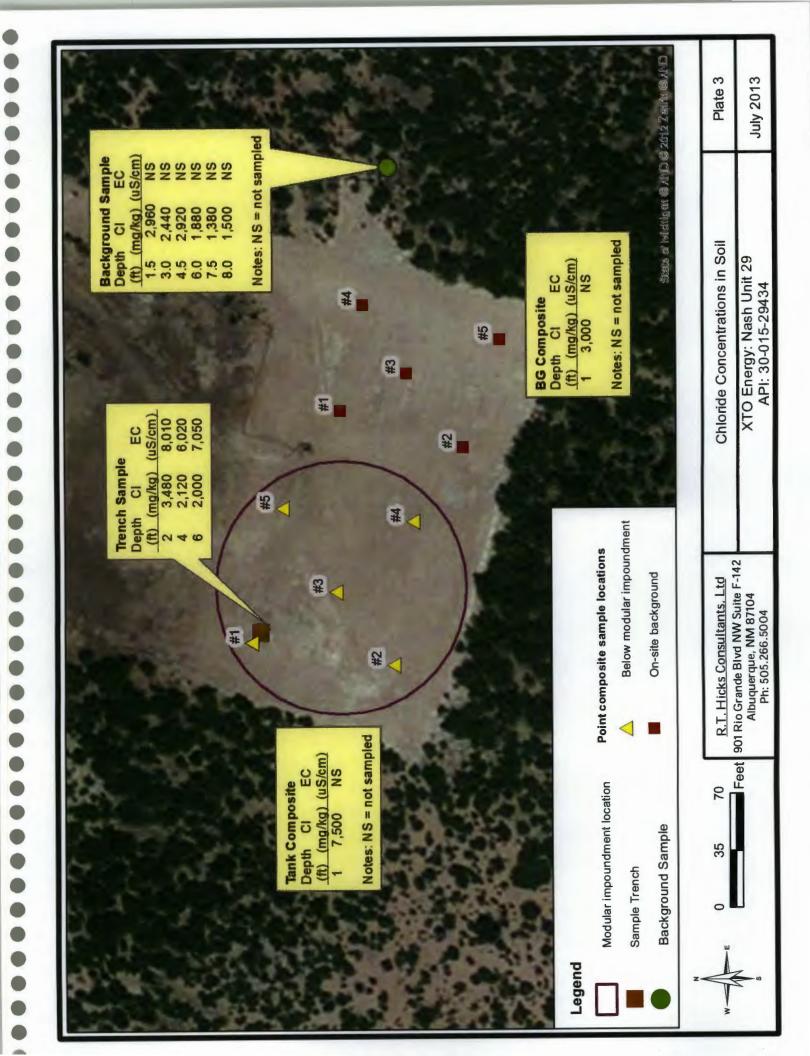
District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 South First, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec. NM 87410

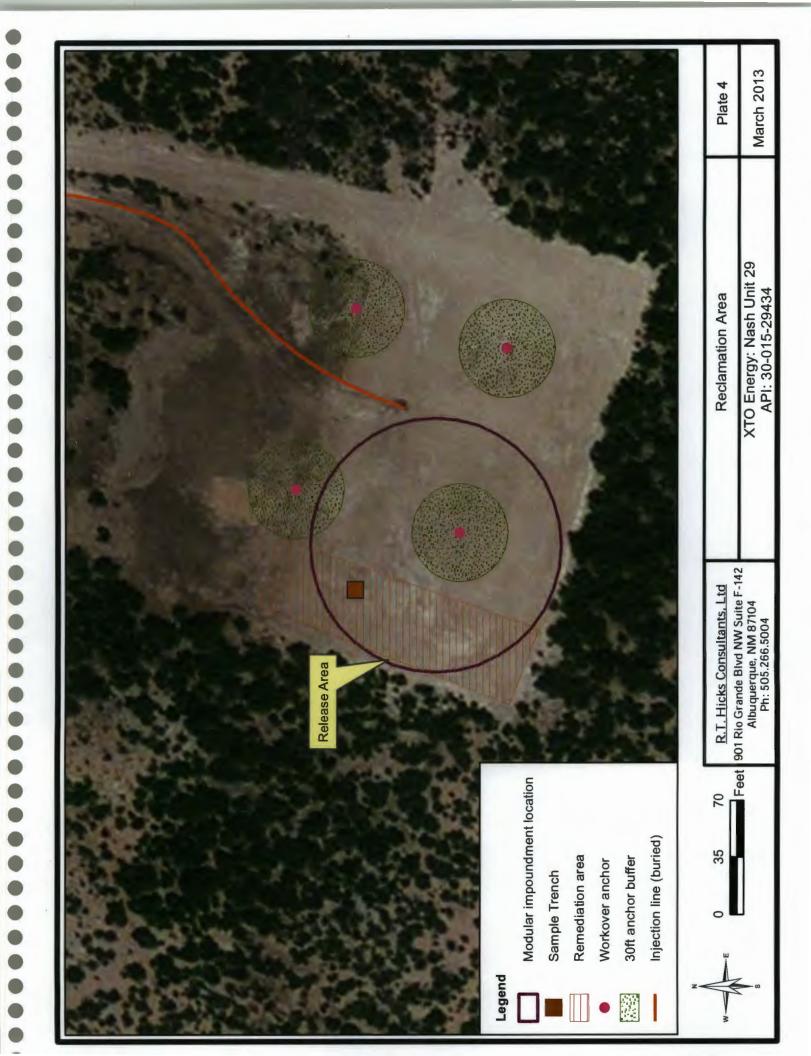
# State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco

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

District TV	, /2000,	11112 67420			Santa F	e, N	M 8/303			Lee	Lease - 5 Copie
District IV 2040 South Pache	co, Santa F	e, NM 87505									NDED REPOR
		WI	ELL LO	CATIO	N AND	ACR	EAGE DEDIC	CATION PL	ΑT		
30-01	API Numb	er .		<sup>1</sup> Pool Cod 47545				Pool Na	me	NYON C	IL POOL
<sup>4</sup> Property 010735	Code	NASH	UNIT		' Pr	operty !	Name			•	Well Number 29
'OGRID 021712		STRAT	A PROD	UCTION	, O <sup>1</sup>	perator	Name				'Elevation 2991.
					10 Sur	face	Location				
UL or lot no. J	Section 13	Township 23-S	Range 29-E	Lot Ida	Feet from	)	North/South line SOUTH	Feet from the 2310	East/Wes		County EDDY
			<sup>11</sup> Bot	ttom Hol	e Locati	on If	Different Fro	m Surface			<del></del>
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the	North/South line	Feet from the	East/We	st line	County
<sup>12</sup> Dedicated Acr 40.00	es 13 Joint	I	Consolidatio U	on Code 15 (	Order No.				I		
NO ALLOW	ABLE W						UNTIL ALL INT			CONSO	LIDATED OR A
								ignature CAROL J Printed Nam PRODUCT itle JANUARY	J. GARO	CIA ECORDS	contained herein is mowledge and belief
				380,			23/0′	I hereby certi was plotted fr	fy that the wom field not supervision, best of my the Revision of the Revision	nell location ares of actual and that the belief.  1996  DO DO DESCRIPTION OF STREET S	

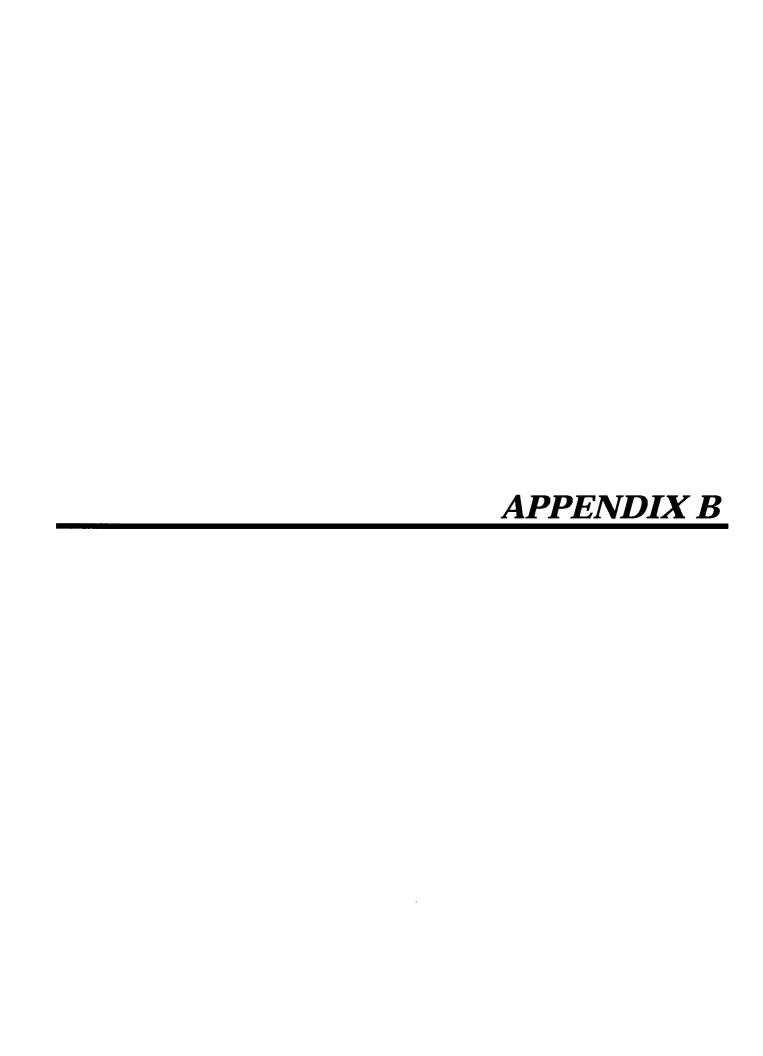






so that we can return the card to you.  Attach this card to the back of the mailpiece, or on the front if space permits.  1. Article Addressed to:    Tim Amos   BLM - Carlsbal   Carlsbal   Carlsbal   Carlsbal   MM   S8220   Service Type   Carlsbal   Registered   Return Receipt for Merchand   Insured Mail   C.O.D.    2. Article Number   Attach this card to you.    B. Reselved by (Primed Name)   Carlsbal   Date of Delivery address of the mailpiece, or on the front if space permits.    Discourse by (Primed Name)   Carlsbal   Date of Delivery address of the mailpiece, or on the front if space permits.    Discourse by (Primed Name)   Carlsbal   Date of Delivery address of the mailpiece, or on the front if space permits.    Discourse by (Primed Name)   Carlsbal   Date of Delivery address of the mailpiece, or on the front if space permits.    Discourse by (Primed Name)   Carlsbal   Date of Delivery address of the mailpiece, or on the front if space permits.    Discourse by (Primed Name)   Carlsbal   Date of Delivery address of the mailpiece, or on the front item of the permits of the mailpiece, or on the front item of the permits of the permits of the permits of the permits of the mailpiece, or on the front item of the permits of the perm	SENDER: COMPLETE THIS SECTION	ON	COMPLETE THIS	S SECTION ON DE	ELIVERY
2. Article Number	item 4 if Restricted Delivery is desir  Print your name and address on the so that we can return the card to your attach this card to the back of the or on the front if space permits.  1. Article Addressed to:  Jim Amos  BLM - Carlsbal  620 € - Green St	red. e reverse ou. mailpiece,	B. Received by ( D. Is delivery addition of the second of	all	Addresse  C Date of Defive  Officer   Tes  No
(Transfer from service label) 7004 1350 0001 9663 5615	Article Number (Transfer from service label)	7004	1350 0001	9663 56	 1.5

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### Appendix B Table B-1

Data	Drococcine III-	Phis Drasses	Comments
	Processing Hrs		Comments Arrive 9 shock out location
4-Jun	0		Arrive & check out location
5-Jun			RU Unit & 2 Weir Tanks
6-Jun			Continue RU Unit & Weir Tanks
7-Jun	<u>'</u>		RU Setteling Tanks, Electricity, Acid
8-Jun	7	2000	Wait on Caustic
9-Jun	7		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			1st full day of processing
22-Jun		3600	
23-Jun		7500	
24-Jun	8	3800	
25-Jun	11		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			II
29-Jun			n .
30-Jun			II .
1-Jul	6	1650	Pull down "dirty tanks" to make room
2-Jul			Wait until closer to frac date to process
3-Jul			II
4-Jul			u .
5-Jul			u .
6-Jul			H .
7-Jul			II.
8-Jul			11
9-Jul			Start back up
10-Jul	8	3363	1.00
11-Jul		1980	
12-Jul	8	3362	
13-Jul	10	4704	
14-Jul	10	4321	-
15-Jul	9	4273	
16-Jul	7	3852	
17-Jul	6	2352	Tank full. Wait on frac
18-Jul			u
19-Jul	3	1141	Pull down "dirty tanks" to work on valve

### Appendix B Table B-1

	<u></u>	<del></del>	Table B-1
Date	Processing Hrs		Comments
20-Jul		2136	Tank full. Wait on frac
21-Jul			II .
22-Jul			II.
23-Jul			II .
24-Jul			11
25-Jul			Frac Nash 40 JITP: 13,000 BBL
26-Jul			Frac nash 41 JITP: 19,000 BBL
27-Jul			
28-Jul			
29-Jul		•••	
30-Jul			
31-Jul			
1-Aug			
2-Aug	3		Start back up
3-Aug	6	3351	
4-Aug	9	4903	
5-Aug	6	3263	
6-Aug	10	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	4	1009	
18-Aug	6	2885	
19-Aug	4	1009	
20-Aug	0	0	l
21-Aug	8	3208	Poseidon Tank Full. Top off XTO tanks.
22-Aug	3	1419	
23-Aug	5	2648	п
24-Aug	0		All Tanks full. Oil found on top of Poseidon tank.
25-Aug	0	0	All Tanks are full.
26-Aug	0	0	11
27-Aug	0		Poseidon Tank started leaking from seams.
28-Aug	0	0	Hauling water from Poseidon to frac tanks.
29-Aug		0	
30-Aug		0	Frac Nash 57
31-Aug		5125	
1-Sep		6101	
2-Sep		4483	
3-Sep		4394	

## Appendix B Table B-1

Date	Processing Hrs	<b>Bbls Processed</b>	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

Shift Offsite Time: NA   a	<u> </u>								
Client	Date:	6,	/4/2012						
Location: NASH   Shift Offsite Time: NA   a   Stac Contact:   DO   Present Onsite Activities   Treating Produce   Processing Hrs Today: 1   hrs   BBLS Processed Today: 1   bbls   BBLS/Hr Processed: 1   bbls   BBLS/Hr Processed: 1   bbls   Cumulative BBLS/Hr Processed: 1   bbls   NA   NA   NA   NA   NA   NA   NA   N					Unit !	Number:		8	
Location: NASH   Shift Offsite Time: NA   a   Stac Contact:   DO   Present Onsite Activities   Treating Produce   Processing Hrs Today: 1   hrs   BBLS Processed Today: 1   bbls   BBLS/Hr Processed: 1   bbls   BBLS/Hr Processed: 1   bbls   Cumulative BBLS/Hr Processed: 1   bbls   NA   NA   NA   NA   NA   NA   NA   N	Client:		хто		S	hift Onsite Time:	NA	am/pm	
Present Onsite Activities   Treating Produce:   RIG UP			NASH				NA	am/pm	
Processing Hrs Today: 1 hrs BBLS Processed: 1 bbls BBLSHr Processed: 1 bbls Cumulative BBLS/hr Processed: 1 bbls NA N	Site Contact:	ВО	JACKSON		S	ystem Run Time:	1	Total hrs.	
Processing Hrs Today: 1 hrs BBLS Processed: 1 bbls BBLS/Hr Processed: 1 bbls Cumulative BBLS/Hr Processed: 1 bbls NA N	Site Contact:				Present	Onsite Activities:	Treating Pr	oduced Wate	
BBLS Processed: 1 bbls BBLS/Hr Processed: 1.0 bbl/ BBLS/Hr Processed: 1.0 bbl/ Lead Operator: Paul Worley Crew: NA	RIG UP								
BBLS/Hr Processed: 1.0 bbl/h  Lead Operator: Paul Worley Crew: NA	Processing H	rs Today:		Cumulativ	ve Processing	Hrs:	1	hrs	
Lead Operator: Paul Worley Crew: NA N	BBLS Processe	ed Today:	1 bbls	Cumulativ	e BBLS Proces	ssed:	1	bbls	
Crew:    NA	BBLS/Hr Pro	cessed:	1 1	Cumulative	BBLS/Hr Proc	essed:	1.0	bbl/hr	
Crew:    NA	Lead Operator:	Pa	ul Worley	Readings:	flow back	Volts/Amns	nH	Turbidity	
NA N		- 10	ui vvoney		11044 Back			NA	
NA N	CIEW.			-				NA NA	
NA N				-		1		NA NA	
NA N								NA NA	
NA NA NA  Chemical Usage Start Inv. End Inv. Or HcL Acid 0 0 0 0 Sodium Hydroxide 0 0 0 0 Sodium Hydroxide 0 0 0 0 Visitors: Visitors: Visitors:  Were there any abnormal operational issues onsite? NO  Are there any additional supplies/equipment needed? If so, what items and when? NO  Have there been any changes to the current schedule, including volumes needed by client? NO  Have there been any operational feedback (positive or negative)?  Person: Company: OXY  Additional Comments  MOVED EQUIPMENT TO LOCATION CUSTOMER SAID IT WOULD TAKE 3 DAYS BEFORE HE COULD HAVE ANY WATER FOR TAKE 2 DAYS BEFORE HE COULD HAVE ANY WATER FOR T				******		<del>                                     </del>		NA	
HcL Acid				NA	1	NA		NA	
HcL Acid									
Visitors: Visito					<del></del>			On Order	
Visitors: Visitors: Visitors: Visitors: Were there any abnormal operational issues onsite? NO  Are there any additional supplies/equipment needed? If so, what items and when? NO  Have there been any changes to the current schedule, including volumes needed by client? NO  Has client provided any operational feedback (positive or negative)? Person: Company: NO  Additional Comments MOVED EQUIPMENT TO LOCATION CUSTOMER SAID IT WOULD TAKE 3 DAYS BEFORE HE COULD HAVE ANY WATER FOR					+			YES	
Visitors:  Visitors:  Were there any abnormal operational issues onsite?  NO  Are there any additional supplies/equipment needed? If so, what items and when?  NO  Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person:  Company:  OXY  Additional Comments  MOVED EQUIPMENT TO LOCATION CUSTOMER SAID IT WOULD TAKE 3 DAYS BEFORE HE COULD HAVE ANY WATER FOR	Maltana			Sodium Hydroxide	0	0	0	YES	
Were there any abnormal operational issues onsite?  NO  Are there any additional supplies/equipment needed? If so, what items and when?  NO  Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person: Company: OXY  Additional Comments  MOVED EQUIPMENT TO LOCATION CUSTOMER SAID IT WOULD TAKE 3 DAYS BEFORE HE COULD HAVE ANY WATER FOR		<del> </del>				<del></del>		<b></b>	
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Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person: Company: OXY  NO  Additional Comments  MOVED EQUIPMENT TO LOCATION CUSTOMER SAID IT WOULD TAKE 3 DAYS BEFORE HE COULD HAVE ANY WATER FO		tional suppli	es/equipment need	ed? If so, what items and	when?	·····			
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Has client provided any operational feedback (positive or negative)?  Person: Company: OXY  NO  Additional Comments  MOVED EQUIPMENT TO LOCATION CUSTOMER SAID IT WOULD TAKE 3 DAYS BEFORE HE COULD HAVE ANY WATER FO	Have there been a	ny changes t	o the current sched	dule, including volumes n	eeded by clier	nt?			
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MOVED EQUIPMENT TO LOCATION CUSTOMER SAID IT WOULD TAKE 3 DAYS BEFORE HE COULD HAVE ANY WATER FO	Additional Co	mments							
		NT TO LOCA	TION CUSTOMER	R 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
Client:		XTO		S	hift Onsite Time:	7:00 AM	am/pm
Location:	N	lash 29		S	hift Offsite Time:	4:00 PM	am/pm
Site Contact:	Во	Jackson		S	ystem Run Time:		Total hrs.
Site Contact:				Present	Onsite Activities:	Rig Up I	Equipment
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	0	hrs
BBLS Processe	d Today:	0 bbls	Cumulative	e BBLS Proces	ssed:	0	bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	#D	IV/0!
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator			06:00				
Crew			08:00			***	
	Kev	rin Wilson	10:00				
	Special	Service hands	12:00				
			14:00			·	
	-		16:00				
			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:	В	o Wells					
Visitors:							
Visitors:							
				•			
Were there any abn	ormal operat	tional issues onsite	?				
None							
Are there any addit	ional supplie	c/oquinment needs	d? If so, what items and	whon?			
2 frac tanks will be d			ur ii so, what hems and	Wileit			
		46	de les les dieses de les de les				
			ale, including volumes ned of the week. Could be a d				
Has client provided	any operation	onal feedback (posi	tive or negative)?				
Person:			Company:			хто	
N/A							
Additional Cor	mments						
Rigged up Halliburto	n equipment		tanks.Will complete rig up o units. Will return to locati				

Cilent: XTO								
Client: XTO	Date:	6/	6/2012		Report	Number:		3
Site Contact:  Bo Jackson  Site Contact:  Bo Jackson  Site Contact:  Bo Jackson  Site Contact:  Bresent Onstead Activities:  Rig Up Equipment  Rig Up Equipm								8
Site Contact:  Bo Jackson  Site Contact:  Bo Jackson  Site Contact:  Bo Jackson  Site Contact:  Bresent Onstead Activities:  Rig Up Equipment  Rig Up Equipm								
Site Contact: Bo Jackson  Site Contact: Bo Jackson  Present Onsite Activities: Rig Up Equipment  Processing Hrs Today: 0 hrs BBLS Processed: 0 bbls BBLSProcessed: 9DIV/01  Lead Supervisor: Paul Worley Lead Operator Chad Edwards Crew Kevin Wilson Reginald White S.S. Reginald White S.S. Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Wisitors: Bo Wells  Visitors: Bo Jackson  Visitors: Bo Wells  Were there any additional supplies/equipment needed? If so, what items and when?  Settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client?  Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggling up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said	Client:		XTO		S	hift Onsite Time:	7:00 AM	am/pm
Processing Hrs Today: 0 hrs BBLS Processed: 0 bbls BBLS/Hr Processed: #DIV/0!  Lead Supervisor: Paul Worley Lead Operator Chad Edwards Crew Kewn Wilson Reginald White S.S. Reginald Neal S.S. Christopher Perry S.S. John Larson S.S.  John Larson S.S.  Visitors: Bo Jackson Visitors: Jackson Visitors: Jackson Visitors: Jackson Visitors: Jackson Visitors: Jackson Visit	Location:	N	ash 29		S	hift Offsite Time:	6:00 PM	am/pm
Processing Hrs Today: 0 hrs BBLS Processed Today: 0 bbls BBLS/Hr Processed: #DIV/0!  Lead Supervisor: Paul Worley Lead Operator Chad Edwards Crew Kevin Wilson Reginald White S.S. Reginald White S.S. Christopher Perry S.S. John Larson S.S.  Unitators: Bo Wells Visitors: Bo Jackson Visitors: Were there any additional supplies/equipment needed? If so, what items and when?  Were there any additional supplies/equipment needed? If so, what items and when?  Setting tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client?  Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Additional Comments  Additional Comments  Additional Comments  Additional Comments  Additional Comments  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said	Site Contact:	Во	Jackson		S	ystem Run Time:		Total hrs.
BBLS Processed Today: 0 bbls BBLS/hr Processed: #DIV/01  Lead Supervisor: Paul Worley Lead Operator Chad Edwards Crew Kevin Wilson Reginald What & S. Christopher Perry & S. John Larson S.S.  Christopher Perry & S. John Larson S.S.  Visitors: Bo Wells Visitors: Bo Wells Visitors: Bo Jackson Visitors: Bo Jackson Visitors: Bo Jackson Visitors: Were there any abnormal operational issues onsite? None  Were there any additional supplies/equipment needed? If so, what items and when? settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client? Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up  Has client provided any operational feedback (positive or negative)?  Parson: Company: XTO  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggling up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said	Site Contact:				Present	Onsite Activities:	Rig Up I	Equipment
BBLS Processed Today: 0 bbls BBLS/hr Processed: #DIV/01  Lead Supervisor: Paul Worley Lead Operator Chad Edwards Crew Kevin Wilson Reginald What & S. Christopher Perry & S. John Larson S.S.  Christopher Perry & S. John Larson S.S.  Visitors: Bo Wells Visitors: Bo Wells Visitors: Bo Jackson Visitors: Bo Jackson Visitors: Bo Jackson Visitors: Were there any abnormal operational issues onsite? None  Were there any additional supplies/equipment needed? If so, what items and when? settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client? Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up  Has client provided any operational feedback (positive or negative)?  Parson: Company: XTO  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggling up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said								
BBLS/Hr Processed: #DIV/0!  Lead Supervisor: Paul Worley Lead Operator Chad Edwards Crew Kevin Wilson Reginald White S.S. Reginald Neal S.S. Christopher Perry S.S. John Larson S.S.  Visitors: Bo Wells Visitors: Bo Jackson Visitors: Bo Jackson Visitors: Bo Jackson Visitors: Bo Jackson Visitors: Were there any abnormal operational issues onsite?  None  Were there any additional supplies/equipment needed? If so, what items and when?  settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client? Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  Additional Comments  Additional Comments  Additional Comments  Additional Comments  Arrived on location at \$200 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said	Processing Hr	s Today:	0 hrs				0	hrs
Lead Supervisor: Lead Operator Chad Edwards Crew Kevin Wilson Reginald White S.S. Reginald Wals S.S. Christopher Perry S.S. John Larson S.S.  Visitors: Bo Wells Visitors: Bo Jackson Visitors: Bo Jackson Visitors: Were there any abnormal operational issues onsite?  Were there any additional supplies/equipment needed? If so, what items and when?  settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client?  Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  Additional Comments  Arrived on location a 6:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said	BBLS Processe	ed Today:	0 bbls	Cumulativ	e BBLS Proce	ssed:	0	bbls
Crew   Kevin Wilson   06:00   08:00	BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	#0	IV/0!
Crew   Kevin Wilson   06:00   08:00								
Crew Kevin Wilson Reginald White S.S. Reginald Wals S.S. Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. Licoo L	Lead Supervisor:			Readings:	flow back	Volts/Amps	ρН	Turbidity
Reginald White S.S. Reginald Neal S.S. Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Christopher Perry S.S. John Larson S.S.  Licoto John Larson S.S.  Licoto John Larson S.S.  Licoto John Larson S.S.  Licoto John Larson S.S. Lico	Lead Operator	Cha	d Edwards	06:00				
Reginald Neal S.S. Christopher Perry S.S. John Larson S.S.    12:00	Crew	Kev	in Wilson	08:00				
Christopher Perry S.S. John Larson S.S.    16:00   16:		Reginal	d White S.S.	10:00				
John Larson S.S.  16:00  Chemical Usage Start Inv. End Inv. On Order HcL Acid 0 2,000 2,000 NO Sodium Hydroxide 0 3,800 3,800 NO Sodium Hydroxide 0 3,800 3,800 NO Sodium Hydroxide 0 3,800 NO NO Sodium Hydroxide 0 3,800 NO NO NO Sodium Hydroxide 0 3,800 NO NO NO Sodium Hydroxide 0 3,800 NO				12:00	L			
Chemical Usage Start Inv. End Inv. On Order HcL Acid 0 2,000 2,000 NO Sodium Hydroxide 0 3,800 3,800 NO Visitors: Bo Jackson Visitors: Bo Jackson Visitors:  Were there any abnormal operational issues onsite? None  Are there any additional supplies/equipment needed? If so, what items and when? settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client? Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said		Christop	her Perry S.S.	14:00				
HcL Acid 0 2,000 2,000 NO  Sodium Hydroxide 0 3,800 3,800 NO  Visitors: Bo Jackson Visitors: Bo Jackson Visitors:  Were there any abnormal operational issues onsite? None  Are there any additional supplies/equipment needed? If so, what items and when? settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client? Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggling up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said		John	Larson S.S.	16:00				
HcL Acid 0 2,000 2,000 NO  Sodium Hydroxide 0 3,800 3,800 NO  Visitors: Bo Jackson Visitors: Bo Jackson Visitors:  Were there any abnormal operational issues onsite? None  Are there any additional supplies/equipment needed? If so, what items and when? settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client? Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggling up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said								
Sodium Hydroxide   0   3,800   3,800   NO				Chemical	Usage	Start Inv.	End Inv.	On Order
Visitors: Bo Jackson Visitors: Bo Jackson Visitors: Bo Jackson Visitors: Were there any abnormal operational issues onsite? None  Are there any additional supplies/equipment needed? If so, what items and when? settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client? Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said				HcL Acid	0	2,000	2,000	NO
Visitors:  Were there any abnormal operational issues onsite?  None  Are there any additional supplies/equipment needed? If so, what items and when? settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client?  Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)?  Person:  Company:  XTO  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said				Sodium Hydroxide	0	3,800	3,800	NO
Were there any abnormal operational issues onsite?  None  Are there any additional supplies/equipment needed? If so, what items and when? settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client? Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)?  Person:  Company:  XTO  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some Called electrician and told him what all to bring to location and he said		В	o Wells					
Were there any abnormal operational issues onsite?  None  Are there any additional supplies/equipment needed? If so, what items and when? settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client? Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)?  Person:  Company:  XTO  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some. Called electrician and told him what all to bring to location and he said		Во	Jackson					
Are there any additional supplies/equipment needed? If so, what items and when? settling tanks arrived around 5:30 pm  Have there been any changes to the current schedule, including volumes needed by client? Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)? Person: Company: XTO  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said	Visitors:							
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Have there been any changes to the current schedule, including volumes needed by client?  Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said	None							
Have there been any changes to the current schedule, including volumes needed by client?  Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said								
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Poseidon tank will be delivered to location possible end of the week. Could be a days delay with rig up.  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said								_
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Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said								
Person: Company: XTO  N/A  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said			·					
Person: Company: XTO  N/A  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said								
Person: Company: XTO  N/A  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said								
Person: Company: XTO  N/A  Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said	****							
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Additional Comments  Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said				Company:			XTO	
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Arrived on location at 8:00 am, completed and reviewed JSAContinued riggiing up Halliburton equipment along with weir tanks, called Basic energy asked about settling tanks they are still looking for some.Called electrician and told him what all to bring to location and he said	-							
Basic energy asked about settling tanks they are still looking for some. Called electrician and told him what all to bring to location and he said				1 104				

Date:	6/	/7/2012		Report	Number:		4
Date.		7/2012			Number:		8
				<u> </u>	tumber.		
Client:		XTO		S	hift Onsite Time:	6:00 AM	am/pm
Location:	N	lash 29			hift Offsite Time:	6:00 PM	am/pm
Site Contact:		Jackson			ystem Run Time:	0.122 ( 1.12	Total hrs.
Site Contact:					Onsite Activities:	Rig Up F	Equipment
					1		· ·
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	0	hrs
BBLS Processe		0 bbls		e BBLS Proces			bbls
BBLS/Hr Proc		#DIV/0!		BBLS/Hr Proc			IV/0!
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		d Edwards	06:00		,,,,,,,		
Crew		d White S.S.	08:00				
		ald Neal S.S.	10:00				~
		her Perry S.S.	12:00				
	Chinotop	110.17 0.10.	14:00				
İ			16:00				
l			10.00	<u>.</u>			
ŀ			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0 Osage	2,000		NO
Į.				0	<del></del>	2,000	NO
Visitors:	D.	o Wells	Sodium Hydroxide	<u> </u>	3,800	3,800	NU
Visitors:		Jackson					
Visitors:		Jackson		<del> </del>			
VISILUIS.	-			l			
*	*						
W		V11					
Were there any abn None	ormai operat	ional issues onsite					
None							
Are there any additi	onal supplie	s/equipment neede	d? If so, what items and	when?			
None							
						-	
Have there been an	v changes to	the current schedu	ule, including volumes ne	eded by client	2		
Poseidon tank will be	delivered to	location possibly on	Tuesday after the permits	are approved	•		
		,	, , , , , , , , , , , , , , , ,				
			100				
Has client provided	any anaratia	nal faadbaak (nasi	tive or posstive\2				
Person:	arry operation	mai leeuback (posii		I	T	VTO	
N/A	-		Company:		L	XTO	
11//							
Additional Cor	nments						
		ompleted and review	ved JSA We recieved b	oth settling tan	ks and rigged then	un We al	so had
electrician finish elec	trical and che	ecked rotation on all	equipment We recieved	the acid from re	eagent around 2:00	) PM. We are	completiv
			a and start processing wat				

Date:	6,	/7/2012		Report	Number:		4
				Unit	Number:		8
Ollows		YTO			Life Consider Times	0.00 414	/
Client: Location:		XTO lash 29			hift Onsite Time: hift Offsite Time:	8:00 AM 12:00 PM	am/pm am/pm
Site Contact:		Jackson			ystem Run Time:	12.00 FIVI	Total hrs.
Site Contact:		dackdorr			Onsite Activities:	Rig Up I	Equipment
	-					•••	
Processing Hr	s Today:	0 hrs	Cumulati	ve Processing	Hrs:	0	hrs
BBLS Processe		0 bbls		e BBLS Proces		0	bbls
BBLS/Hr Prod	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	#D	IV/0!
Lead Supervisor:		ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		d Edwards	06:00				
Crew		d White S.S.	08:00				
		ald Neal S.S.	10:00				
	Christop	her Perry S.S.	12:00				
			14:00				
			16:00	<u> </u>		-	
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	2,000	2,000	NO
			Sodium Hydroxide	0	3,800	3,800	NO
Visitors:			- Country War Daniel		5,000	5,555	
Visitors:							
Visitors:							
				•			
					*		
Were there any abr	ormal operat	ional issues onsite	?				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
None							
Are there any addit	ional supplie	s/equipment neede	d? If so, what items and	when?		450	
None							
<u> </u>							
					_		
Bassiden tenk will b	y changes to	the current schedu	ule, including volumes no Saturday after the permits	eded by client	17		
Poseidon tank will be	e delivered to	location possibly on	Saturday after the permits	are approved.			
Has client provided	any operation	onal feedback (posi	tive or negative)?				
Person:			Company:			хто	
N/A							
Additional Car	mmonto						
Additional Co		mpleted and review	ed JSA We finished cle	eaning up and o	etting ready to pr	ocess water l	We also waited
		•	e had some trouble and wo				
			t store on the way to locati				

							11-V
Date:	6/	/9/2012			Number:		5
				Unit N	lumber:		8
		VTO			Life Oracle Tr	4.00.111	
Client:		XTO			hift Onsite Time:	4:00 AM	am/pm
Location:		lash 29			hift Offsite Time:	2:00 PM	am/pm Total hrs.
Site Contact: Site Contact:	Во	Jackson			ystem Run Time: Onsite Activities:	7	SS WATER
Site Contact.	<u> </u>			Present	Orisite Activities.	PROCES	SVATER
Processing Hr	s Today:	7 hrs	Cumulativ	e Processing	Hrs:	7	hrs
BBLS Processe		2,908 bbls		BBLS Proces		2,90	8 bbls
BBLS/Hr Prod		415.4285714	Cumulative	BBLS/Hr Proc	essed:	415.4	bbl/hr
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
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		110	6.52	0.691
			14:00		110	6.91	0.346
			16:00				
			Chemical	Usage	Start Inv.	End Inv.	On Order
	L		HcL Acid	140	1,900	1,760	NO
			Sodium Hydroxide	190	2,500	2,310	NO
Visitors:	во	JACKSON					
Visitors:						V-V	-,
Visitors:							
					<u></u> >		
10/2 41							
None	iormai operai	tional issues onsite	<u> </u>				
None							
Are there any addit	ional supplie	s/equipment needed	d? If so, what items and v	when?			
None							
Have there been ar	ny changes to	the current schedu	le, including volumes ne	eded by client	?		
Poseidon tank did n	ot show up too	day but want to get a l	head start on the frac V	Vater was looki	ng very clean.		
lla a alland musidan	4		i	<del></del>			
Person:	any operation	onal feedback (posit	Company:	Υ	I	VTO	
N/A	L		Company.	L	l	хто	
""							
Additional Co							
			ed JSA Driver with Br				
			led and I started filling set				
aujustments to the C	austic and wa	ater was looking great	t So I kept running the	water and mad	e a coupie of adju	suments to the	acid and

					- <u> </u>		
Date:	6/	10/2012		Report	Number:		6
Date.	- 0/.	10/2012			Number:		8
Client:		XTO		S	hift Onsite Time:	4:00 AM	am/pm
Location:	N	lash 29			hift Offsite Time:	1:00 PM	am/pm
Site Contact:	Во	Jackson		S	ystem Run Time:	6	Total hrs.
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Today:	6 hrs	Cumulativ	ve Processing	Hrs:	13	hrs
BBLS Processe	ed Today:	2,544 bbls		e BBLS Proces		5,45	2 bbls
BBLS/Hr Prod	cessed:	424	Cumulative	BBLS/Hr Proc	essed:	419.4	bbl/hr
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			06:00		120	7.24	1.3
Crew			08:00		120	6.68	0.876
			10:00		120	6.93	0.557
			12:00		120	6.88	0.942
			14:00			-a	
			16:00	<u> </u>	<u> </u>		L
			Chemical	Usage	Start Inv.	End Inv.	On Order
	L		HcL Acid	175	1,900	1,725	NO
			Sodium Hydroxide	220	2,500	2,280	NO
Visitors:	во	JACKSON					
Visitors:							
Visitors:				L			
			·				
144							
None	iormai operai	tional issues onsite	<u>r</u>				
None							
Are there any addit	ional sunnlie	s/equipment needer	d? If so, what items and	when?			
None	ional supplie	siequipilient needet	17 II 30, Wilat items and	WIIGHT			
Have there been an	v changes to	the current schedu	le, including volumes ne	eded by client	?		
		ere Wednesday or Th		caea by enem			
		,	,				
Has client provided	any operation	onal feedback (posit	ive or negative)?				
Person:			Company:	<u> </u>		XTO	
N/A							
Addistance	mmorts	<u> </u>	·······				
Additional Co		Completed and review	ved JSA Started proce	seeing water at	around 4:20 am r	nada several	adjustments to
			d clear when sample was t				
			ut vellow tint still came ba				

Date:	6/	11/2012		Report	Number:	-	7 .
		11,2012			lumber:		8
		VTO				***	
Client: Location:		XTO lash 29			hift Onsite Time:	N/A	am/pm
Site Contact:		Jackson			hift Offsite Time:	N/A 0	am/pm Total hrs
Site Contact:		ul Worley			ystem Run Time: Onsite Activities:		S WATER
Site Contact.	rai	ui vvoiley	l	riesent	Olisite Activities.	FROOL	33 WATER
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	13	hrs
BBLS Processe		0 bbls		Cumulative BBLS Processed:			
BBLS/Hr Prod		#DIV/0!	#DIV/0! Cumulative BBLS/Hr Processed:				2 bbls bbl/hr
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			06:00				
Crew			08:00				
			10:00				
			12:00				
			14:00				
			16:00	L	ll		
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	1,725	1,725	NO
ı			Sodium Hydroxide	0	2,280	2,280	NO
Visitors:	PO	14.01/0.01	Sociali Hydroxide		2,200	2,200	1.0
		JACKSON I					
	ВО,	JACKSON		<u> </u>			
Visitors: Visitors:							
Visitors: Visitors: ere there any abnone te there any additione ave there been an	ormal operational supplie	s/equipment neede	od? If so, what items and value, including volumes new		?		
Visitors: Visitors:  Pere there any abnone  The there any additione  The there any additione  The there been any assertion tank is supposed to the term of the ter	ional supplie	s/equipment neede	ule, including volumes ne hursday of next week.		?		
Visitors: Visitors: ere there any abnone e there any additione eve there been any asseidon tank is sup	ional supplie	s/equipment neede	ule, including volumes ne		?	хто	
Visitors: Visitors: Visitors:  ere there any abnone  e there any additione  eve there been any asseidon tank is supposed to the supposed to th	ional supplier  y changes to be he	s/equipment neede	ule, including volumes ne hursday of next week.		?	хто	

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Date:	6/	12/2012			Number:	<del></del>	7
				Unit !	Number:		8
Client:	<u> </u>	хто			hift Onsite Time:	N/A	am/pm
Location:		lash 29			hift Offsite Time:	N/A	am/pm
Site Contact:		Jackson			ystem Run Time:	0	Total hrs.
Site Contact:	<b></b>	ul Worley			Onsite Activities:		SS WATER
Processing Hr		0 hrs		e Processing		13	hrs
BBLS Processe		0 bbls		e BBLS Proce		5,45	2 bbls
BBLS/Hr Proc	cessed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	419.4	bbl/hr
					1		1
Lead Supervisor:		ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			06:00				
Crew			08:00		<del>                                     </del>		
	<u> </u>		10:00				
			12:00				<del>                                     </del>
			14:00		<del> </del>		
			16:00	<u> </u>	<u> </u>		<u> </u>
			Chemical	Usago	Start Inv	End Inv	On Order
			HcL Acid	Usage 0	Start Inv. 1,725	End Inv.	On Order
			Sodium Hydroxide	0	2,280	1,725 2,280	NO NO
Visitors:	BO	JACKSON	Sodium Hydroxide	ļ <u> </u>	2,260	2,200	I NO
Visitors:	50.	ACROON			<del> </del>		
Visitors:			-	·	<del>                                     </del>		<del></del>
110110101				ļ	1		
							<del>1811 1211</del>
Were there any abr	ormal operat	ional issues onsite	?				
None			<del>.</del>				
Are there any addit	ional supplie	s/equipment neede	d? If so, what items and v	when?			
None							
			755.43				
Have there been an	y changes to	the current schedu	ıle, including volumes ne	eded by client	?		
Poseidon tank is sur	pose to be he	ere Wednesday or Th	ursday of next week.				
Has alient provides	l any anaratia	nal faadbaak (naait	in as parativa)?				
Has client provided Person:	any operation	mai reeuback (posii	Company:	•	<u> </u>	VTO	
N/A			Joinpany.	l	L	XTO	
Additional Co							
			l dirty tanks Bo Jackson sł	nowed me wher	e to get more wate	er to fill dirty ta	anks and I filled
them using pumps o	n different loca	ations.					

						<del></del>	
Date:	6/:	13/2012		Report	Number:		8
				Unit I	Number:		8
Client:		XTO			hift Onsite Time:	N/A	am/pm
Location:		lash 29			hift Offsite Time:	N/A	am/pm
Site Contact:		Jackson			ystem Run Time:	0	Total hrs.
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Today	0 hrs	Cumulativ	ve Processing	Hre. T	13	hrs
BBLS Processe		0 bbls		e BBLS Proces			2 bbls
BBLS/Hr Prod		#DIV/0!		BBLS/Hr Proc			bbl/hr
DD20/111 1 100	, , , , , , , , , , , , , , , , , , ,	#51476.	Gamaiaave	DDEG/III 1 100	1	710.7	22
Lead Supervisor:	Pau	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:	ВО	JACKSON				_ v	
Visitors:							
Visitors:			- · · · · ·				
				Cana a .			
Were there any abn	ormal operat	lonal legues engite	2				
None	ormai operat	nonal issues offsite					
			a de				
Are there any addit	ional supplie	s/equipment neede	d? If so, what items and	when?			
None							
			ıle, including volumes ne	eded by client	1?		
Poseidon tank is sup	opose to be he	ere anytime now.					
Has client provided	any operation	nal feedback (posit	tive or negative)?				
Person:			Company:	1		хто	
N/A							
Addistant							
Additional Co		oidon tank Cr	alled customer and let him	know I was on	location this morn	ing eventhing	wase good
			aneu customer and let nim ackson said that all is goo		iocadon dils mom	ing everyuning	wass your
and the second my corvi				_,			

						<del>.</del>	
Date:	6/:	14/2012		Report	Number:		9
				Unit N	lumber:		8
							<del></del> -
Client:		XTO			hift Onsite Time:	N/A_	am/pm
Location:		lash 29			hift Offsite Time:	N/A	am/pm
Site Contact:		Jackson			ystem Run Time:	0	Total hrs.
Site Contact:	Pat	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Todav:	0 hrs	Cumulativ	e Processing	Hrs:	13	hrs
BBLS Processe		0 bbls		e BBLS Proces			2 bbls
BBLS/Hr Prod		#DIV/0!		BBLS/Hr Proc		419.4	bbl/hr
Lead Supervisor:	Pau	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			06:00				
Crew			08:00				
			10:00				
			12:00				
			14:00				
			16:00				
					<del>,</del>		
			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:						4.00	
Visitors: Visitors:			****				
VISITORS:							
Were there any ahr	ormal operat	tional iceuse oneito?					
None	отпа орога	tional issues onsite?					
			***				
Are there any addit	ional supplie	s/equipment needed?	If so, what items and	when?			
None			If so, what items and				
Have there been an	y changes to	the current schedule	, including volumes ne	eded by client	?		
Poseidon tank is sur	pose to be he	ere maybe on Monday.					
							· · · · · · · · · · · · · · · · · · ·
Has client provided	any operation	onal feedback (positiv	e or negative)?		···	V	
Person:	uny operation	man recubuck (positiv	Company:	I		хто	
N/A	<u>.</u>			l			
Additional Co							
All tanks are full ,w	aiting on Pose	eidon tank					
L			.,				

5.4		15/2012	1	Dancet	Numbor		10
Date:	6/	15/2012			Number: Number:		8
STAND BY W	AITING	ON TANK		Unit r	TUINDEL.		<u> </u>
Client:		XTO		s	hift Onsite Time:	N/A	am/pm
Location:	N	lash 29		S	hift Offsite Time:	N/A	am/pm
Site Contact:	Во	Jackson	1	S	ystem Run Time:	0	Total hrs.
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	S WATER
, <u></u>			•				
Processing Hrs	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	13	hrs
BBLS Processe		0 bbls	Cumulativ	e BBLS Proce	ssed:	5,45	2 bbls
BBLS/Hr Proc		#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	419.4	bbl/hr
	<del></del>	•					
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator			06:00				
Crew			08:00				
			10:00				
Ì			12:00				
ľ		,-J. <u>-</u> -	14:00				
ļ l			16:00				
Ī							
Ì			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	1,725	1,725	NO
L			Sodium Hydroxide	0	2,280	2,280	NO
Visitors:			] Journal Hydroxide		2,230	2,200	
Visitors:							
Visitors:							
V131013.			J				
2.272	×	31700-					
Were there any abn		tional issues analt	in 2				
None	ormai opera	tional issues onsit	te r	- 10-0-			
******							
	ional supplie	s/equipment need	led? If so, what items and	when?			
None		_					
Have there been an	y changes to	the current sched	dule, including volumes ne	eeded by clien	t?		
Poseidon tank is sup	pose to be h	ere maybe on Mond	day.				
Has client provided	any operati	onal feedback (nos	sitive or negative)?				
Person:	y -p-140	теления драг	Company:			XTO	
N/A				•	•		
Additional Cor	nmente	1					
All tanks are full ,wa		eidon tank	44 %				
1							

Date:	6/1	.6/2012		Report	Number:		11
		.0, 2012			lumber:		8
STAND BY WAI	TING	ON TANK					
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				0	Total hrs.
Site Contact:	Pau	l Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs To	dav:	0 hrs	Cumulativ	ve Processing	Hrs:	13	hrs
BBLS Processed To		0 bbls		e BBLS Proces		5.45	2 bbls
BBLS/Hr Process		#DIV/0!		BBLS/Hr Proc			bbl/hr
DDL3/// FTOCE35	cu.	#51470:	Camalative				
Lead Supervisor:	Pai	il Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator	ı at		06:00		10.20,7	F''	<u> </u>
Crew			08:00	<del></del>			
CIEW			10:00	<del> </del>			<del></del>
			12:00	<del> </del>	<del>                                     </del>		<del>                                     </del>
<del> </del>			14:00	<del> </del>	<del>                                     </del>		<del>                                     </del>
				+			
			16:00				<u>.                                    </u>
			Chaminal	1 11	Chart Inv	End Inv	On Order
			Chemical	Usage	Start Inv.	End Inv.	
			HcL Acid	0	1,725	1,725	NO
			Sodium Hydroxide	0	2,280	2,280	NO
Visitors:							
Visitors:				<u> </u>			<del>                                     </del>
Visitors:				]			<u> </u>
*****						·	
Were there any abnorm	al operat	ional issues onsite?	?				
None							
							-
Are there are additions	Leunniis	eloquinment needed	1? If so, what items and	when?			
None	ii auppile	srequipment needed	i ii so, what items allu	WILCH!			
Have there been any ch	anges to	the current schedu	le, including volumes n	eeded by clien	t?		
			e are suppose to start filli				
			******				
Has client provided any	operation	nal feedback (posit	ive or negative)?				
Person:	,	, , , , , , , , , , , , , , , , , , ,	Company:		1	XTO	<del>- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1</del>
N/A			· · · · · · · · · · · · · · · · · · ·				
Additional Comme	ents						
All tanks are full ,waiting		idon tank					

Date:	6/:	17/2012	ĺ	Report	Number:	12	
			l		lumber:		8
TAND BY W	AITING		ı			21/2	
Client:		XTO		Shift Onsite Time:		N/A	am/pm
Location:		ash 29		Shift Offsite Time:		N/A	am/pm
Site Contact:		Jackson		D	On alta Anti-itina	0	Total hrs
Site Contact:	Pau	ul Worley	l	Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	13	hrs
BBLS Processed		0 bbls		BBLS Proces		5,45	2 bbls
	BBLS/Hr Processed: #DIV/0!			BBLS/Hr Proc		419.4 bbl/hr	
Lead Supervisor:	Pai	ıl Worley	Readings:	flow back	Volts/Amps	Hq	Turbidit
Lead Operator			06:00		, , , , , , ,		
Crew	<del>-</del>		08:00				
			10:00				
<u> </u>			12:00			***	
F			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:							
one		s/equipment neede	d? If so, what items and v	when?			
	ohanges to	the current schod	ulo including volumes no	adad by client	12		
ave there been any	Changes to	onday.	ne, morading volumes he	cucu by chem			
ave there been any oseidon tank should	arrive on Mo						
oseidon tank should		onal feedback (posit					
as client provided  Person:		onal feedback (posi	tive or negative)?  Company:			хто	
oseidon tank should		onal feedback (posi				хто	

Date: 6/18/2012				Report	Number:		13
					lumber:	8	
STAND BY W	AITING	ON TANK					
Client:		XTO		S	hift Onsite Time:	N/A	am/pm
Location:	N	lash 29		Shift Offsite Time:		N/A	am/pm
Site Contact:		Jackson				0	Total hrs
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	13	hrs
BBLS Processed	d Today:	0 bbls	Cumulative	BBLS Proces	ssed:	5,452 bbls	
BBLS/Hr Proce	ocessed: #DIV/0!		Cumulative	BBLS/Hr Proc	essed:	419.4 bbl/hr	
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator			06:00			E	
Crew		m Pollard	08:00				
5.511			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:	-						
Voro there any abou	ormal operat	tional issues onsite	9?				
lone	onai supplie	s/equipment neede	d? If so, what items and v	when?			
re there any additione	y changes to	the current sched	ed? If so, what items and water and	eded by client	?		
ve there any additione lave there been any loseidon tank arrived	y changes to	the current sched	<b>ule, including volumes ne</b> until 8:00,walls were not up	eded by client	?		
ve there any additione lave there been any loseidon tank arrived as client provided Person:	y changes to	the current schedo	<b>ule, including volumes ne</b> until 8:00,walls were not up	eded by client	?	хто	
re there any additione lave there been any oseidon tank arrived as client provided Person:	y changes to	the current schedo	ule, including volumes ne until 8:00,walls were not up itive or negative)?	eded by client	?	XTO	
re there any additione lave there been any oseidon tank arrived	y changes to d around 3:00 any operatio	the current schedo	ule, including volumes ne until 8:00,walls were not up itive or negative)?	eded by client	?	хто	

Date:	6/19/2012	l		Report	Number:		14
Date.	0/13/2012				umber:		8
STANE	BY WAITING	ΟΝ ΤΔ	NK		·		
Client:	хто		• • • • • • • • • • • • • • • • • • • •	Shift C	nsite Time:	6:00	am/pm
Location:	Nash 29				ffsite Time:	N/A	am/pm
e Contact:				311110	naice time.	0	Total hrs.
e Contact:				esent Onsit	e Activities:		S WATER
0 00.112011	1 441 110110)	l		positi stroit			
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	2 bbls
BBLS/Hr F	Processed: #DIV/0!		Cumulative	BBLS/Hr	Processed:	419.4	bbl/hr
		Ī	<u> </u>		L. 1. /a		I = 1 · 1 ·
Supervisor:	Paul Worley		Readings:	flow back	Volts/Amps	pН	Turbidity
d Operator	Adam Pollard		06:00				
Crew							<del>                                     </del>
			10:00 12:00		_		
			14:00				├──
			16:00			*****	<del></del>
			10.00				<u> </u>
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	1,725	1,725	NO
	L	ı Soi	dium Hydro		2,280	2,280	NO
Visitors:							
Visitors:							
Visitors:							
Were there	e any abnormal operat	ional issue	s onsite?				
None							<del>, </del>
Are there a	any additional supplies	s/equipme	nt needed?	If so, what	items and	when?	
None							
Maiting on	e been any changes to Poseidon tank to be co	moletely	π schedule,	, including	volumes ne	eded by c	ient?
vvalung on	Poseidon tank to be co	impletely					
Has client	provided any operation	nal feedba	ck (positive	e or negative	/e)?		
Person:			Company :			хто	
N/A							
	Comments						
Ali tanks a	are talk waiting on First	edor, tank tr	> b€ compile	·C			

Date:	6/3	20/2012		Report	Number:		15
Date.	0/20/2012				Number:		8
Client:		XTO		S	hift Onsite Time:	5:00	am/pm
Location:	N	lash 29		S	hift Offsite Time:	9:00 PM	am/pm
Site Contact:		Jackson				0	Total hrs
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCES	S WATER
Processing Hrs		0 hrs		Cumulative Processing Hrs:			hrs
	BBLS/Hr Processed: #DIV/0!			BBLS Proces		5,452 bbls	
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	рН	Turbidity
Lead Operator		m Pollard	06:00				,
Crew			08:00				
			10:00				
			12:00				
			14:00				
			16:00				
L						_	
Į.			Chemical	Usage	Start Inv.	End Inv.	On Orde
L			HcL Acid	0	1,725	1,725	YES
			Sodium Hydroxide	0	2,280	2,280	YES
			•	l			
Visitors:	ьо .	JACKSON					
Visitors:	ВО .	JACKSON					
	ВО	JACKSON				4	
Visitors: Visitors: Visitors:	ormal operat	tional issues onsite	97 ND PRESSURED UP ON LI	NES TOO FAR	R TO PUMP WITH	OUR PUMP.	CALLED I
Visitors: Visitors: Visitors: Visitors: Viere there any abnormal control of the c	ormal operat PING TO MAI HOOKED UP onal supplie	tional issues onsite N CLEAN TANK AN ANOTHER PUMP	D PRESSURED UP ON LI		R TO PUMP WITH	OUR PUMP.	CALLED
Visitors: Visitors: Visitors: Visitors: Viere there any abnormal control of the c	ormal operat PING TO MAI HOOKED UP onal supplie	tional issues onsite N CLEAN TANK AN ANOTHER PUMP	D PRESSURED UP ON LI		R TO PUMP WITH	OUR PUMP.	CALLED I
Visitors: Visitors: Visitors: Visitors: Viere there any abnormal control of the c	ormal operat PING TO MAI HOOKED UP onal supplie	tional issues onsite N CLEAN TANK AN ANOTHER PUMP	D PRESSURED UP ON LI		R TO PUMP WITH	OUR PUMP.	CALLED
Visitors: Visitors: Visitors: Vere there any abnormal pumper of the pump	ormal operat PING TO MAI HOOKED UP onal supplies 6500 GAL.AG	tional issues onsite IN CLEAN TANK AN ANOTHER PUMP. s/equipment neede	ND PRESSURED UP ON LI	when?		OUR PUMP.	CALLED
Visitors: Visitors: Visitors: Vere there any abnormal pumper of the pump	ormal operat PING TO MAI HOOKED UP onal supplies 6500 GAL.AG	tional issues onsite IN CLEAN TANK AN ANOTHER PUMP. s/equipment neede	D PRESSURED UP ON LI	when?		OUR PUMP.	CALLED
Visitors: Visitors: Visitors: Vere there any abnormal pumper of the pump	ormal operat PING TO MAI HOOKED UP onal supplies 6500 GAL.AG	tional issues onsite IN CLEAN TANK AN ANOTHER PUMP. s/equipment neede	ND PRESSURED UP ON LI	when?		OUR PUMP.	CALLED I
Visitors: Visitors: Visitors: Vere there any abnormal processing the process of t	ormal operative ping TO MAI HOOKED UP  onal supplies 6500 GAL.AG	sional issues onsite IN CLEAN TANK AN ANOTHER PUMP.  s/equipment neede CID AND CAUSTIC  the current sched	ND PRESSURED UP ON LI	when?		OUR PUMP.	CALLED B
Visitors: Visitors: Visitors: Vere there any abnormal statement of the sta	ormal operative ping TO MAI HOOKED UP  onal supplies 6500 GAL.AG	tional issues onsite IN CLEAN TANK AN ANOTHER PUMP. s/equipment neede	ad? If so, what items and wat TANKS.  ule, including volumes ne	when?			CALLED
Visitors: Visitors: Visitors: Visitors: Vere there any abnormal and the second	ormal operative ping TO MAI HOOKED UP  onal supplies 6500 GAL.AG	sional issues onsite IN CLEAN TANK AN ANOTHER PUMP.  s/equipment neede CID AND CAUSTIC  the current sched	ND PRESSURED UP ON LI	when?		OUR PUMP.	CALLED I
Visitors: Visitors: Visitors: Vere there any abnormal statement of the sta	ormal operative ping TO MAI HOOKED UP  onal supplies 6500 GAL.AG	sional issues onsite IN CLEAN TANK AN ANOTHER PUMP.  s/equipment neede CID AND CAUSTIC  the current sched	ad? If so, what items and wat TANKS.  ule, including volumes ne	when?			CALLED
Visitors: Visitors: Visitors: Visitors: Vere there any abnormal and the second	ormal operation of the control of th	sional issues onsite IN CLEAN TANK AN ANOTHER PUMP.  s/equipment neede CID AND CAUSTIC  the current sched	ad? If so, what items and wat TANKS.  ule, including volumes ne	when?			CALLED
Visitors: Visito	ormal operation of the control of the control operation of the control of the control operation of the control operation opera	sional issues onsite IN CLEAN TANK AN ANOTHER PUMP.  s/equipment neede CID AND CAUSTIC  the current sched  onal feedback (posite	ad? If so, what items and wat TANKS.  ule, including volumes ne	eded by client	ALLY READY FO	XTO R WATER BU	T OUR PUN

	6/	21/2012		Report	Number:		16
Date:	- 0, 2	21/2012			lumber:		8
Client:		XTO		S	hift Onsite Time:	5:30	am/pm
Location:	N	ash 29		Shift Offsite Time:		5:00 PM	am/pm
Site Contact:		Jackson		5 40 74 4 6 75		9 Total hr PROCESS WATER	
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCES	SWATER
Processing Hrs	s Today:	9 hrs	Cumulativ	re Processing	Hrs:	13	hrs
BBLS Processe		3,828 bbls		BBLS Proces		5,452 bbls	
BBLS/Hr Proc	BBLS/Hr Processed: 425.3333333		Cumulative	BBLS/Hr Proc	essed:	419.4 bbl/hr	
Lead Supervisor:	Pau	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		m 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
ŀ			Chemical	Usage	Start Inv.	End Inv.	On Orde
ļ			HcL Acid	213	1,725	1,512	YES
			Sodium Hydroxide	295	2,280	1,985	YES
Visitors:	во	JACKSON					
Visitors: Visitors:							
	ormal operat	tional issues onsite	?				
0							
re there any additi	onal supplie	s/equipment neede	d? If so, what items and v	when?			
0			d? If so, what items and v		?		
ove there been an	y changes to	the current schedu	ıle, including volumes ne		?		
ave there been an	y changes to		ile, including volumes ne		?	XTO	
ave there been an	y changes to	the current schedu	ıle, including volumes ne		?	хто	

11200.	E!	22/2012	Report Numbe		Number:		17
Date:	6//	22/2012			Number:		8
			İ	<u> </u>	tullibel.		
Client:		XTO		S	hift Onsite Time:	5:30	am/pm
Location:	N	ash 29		Shift Offsite Time:		12:00 AM	am/pm
Site Contact:	Во	Jackson				11	Total hr
Site Contact:	Pau	ıl Worley		Present	Onsite Activities:	PROCES	S WATER
Processing Hr	e Today:	11 hrs	Cumulativ	e Processing	Ure:	33	hrs
BBLS Processe		3,555 bbls		BBLS Proces		12,835 bbls	
BBLS/Hr Processed: 323.1818182				BBLS/Hr Proc		388.9 bbl/hr	
DDEC/III / TO	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	020.1010102	Camalative	BBEO/III / 100		000.0	55,711
Lead Supervisor:	Pau	ıl Worley	Readings:	flow back	Volts/Amps	pH	Turbidit
Lead Operator		m Pollard	07:30		100	6.57	1.63
Crew		en Erler	09:30		100	6.87	1.87
	R	ay 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 Ord
			HcL Acid	197	1,512	1,315	YES
			Sodium Hydroxide	262	1,985	1,723	YES
Visitors:	во	JACKSON					
Visitors:							
Visitors:							
ere there any abn AD TO REPLACE		ional issues onsite	?				
	ional supplie	s/equipment neede	d? If so, what items and v	when?	***************************************		
ve there been an			d? If so, what items and v		?		
eve there been an	y changes to		ıle, including volumes ne		?		
ve there been an	y changes to	the current schedu	ıle, including volumes ne		?	хто	
ve there been an	y changes to	the current schedu	ule, including volumes ne		?	хто	

Client: Location: Site Contact: Site Contact: Processing Hrs 1 BBLS Processed BBLS/Hr Proces Lead Supervisor: Lead Operator Crew	N Bo Pau F <b>oday</b> :	XTO ash 29 Jackson il Worley		Unit I	t Number: Number: Shift Onsite Time: hift Offsite Time:		18 8 am/pm am/pm
Client: Location: Site Contact: Site Contact:  Processing Hrs 1 BBLS Processed BBLS/Hr Proces Lead Supervisor: Lead Operator	N Bo Pau F <b>oday</b> :	XTO ash 29 Jackson il Worley		Unit I	Number: Shift Onsite Time:	5:00	8 am/pm
Location: Site Contact: Site Contact:  Processing Hrs 1 BBLS Processed BBLS/Hr Proces Lead Supervisor: Lead Operator	N Bo Pau Today:	ash 29 Jackson Il Worley		S	hift Onsite Time:	5:00	am/pm
Location: Site Contact: Site Contact:  Processing Hrs 1 BBLS Processed BBLS/Hr Proces Lead Supervisor: Lead Operator	N Bo Pau Today:	ash 29 Jackson Il Worley		S			
Location: Site Contact: Site Contact:  Processing Hrs 1 BBLS Processed BBLS/Hr Proces Lead Supervisor: Lead Operator	N Bo Pau Today:	ash 29 Jackson Il Worley		S			
Site Contact: Site Contact:  Processing Hrs 1 BBLS Processed BBLS/Hr Proces Lead Supervisor: Lead Operator	Bo Pau	Jackson Il Worley			The state of the s	0.007	am/pm
Processing Hrs 1 BBLS Processed BBLS/Hr Proces Lead Supervisor: Lead Operator	oday:			Present		23	Total hrs.
BBLS/Hr Proces  BBLS/Hr Proces  Lead Supervisor:  Lead Operator		23 hrs			Onsite Activities:	PROCES	S WATER
BBLS/Hr Proces  BBLS/Hr Proces  Lead Supervisor:  Lead Operator		23 hrs					
BBLS/Hr Proces  Lead Supervisor:  Lead Operator	Today:	23 1113	Cumulativ	ve Processing	Hrs:	56	hrs
Lead Supervisor: Lead Operator		7,541 bbls	Cumulative	e BBLS Proce	ssed:	20,37	6 bbls
Lead Operator	sed:	327.8695652	Cumulative	BBLS/Hr Proc	essed:	363.9	bbl/hr
Lead Operator	Pai	ıl Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
		m Pollard	07:00	HOW BUCK	100	7.23	1.98
		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
L							
<u> </u>			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	416	1,315	899	YES
		10(00)	Sodium Hydroxide	590	1,723	1,133	YES
Visitors:	BO	ACKSON			<del></del>		
Visitors:							
VISILOIS.							
1700				-800			
Vere there any abnor	mal operat	ional issues onsite	?				
10							
re there any addition	al supplies	s/equipment needed	i? If so, what items and v	when?			
10							
	hanges to	the current schedu	le, including volumes ne	eded by client	?		
10							
		16 11 -1 4 10					
as client provided an Person:	iy operatio	nai teedback (posit	Company:	1	1	XTO	
/A			Company.			X10	
Additional Comm							
			AND REVIEWED JSA. ST ONLY HAVING TO MAKE				
ANAS. EVERTIHING AN ALL NIGHT TO M				E MINOR ADJU	JSTMENTS TO TE	TE CAUSTICT	AND ACID. W

Date:	6/	24/2012		Report	Number:		19
54.0.		, 2022			lumber:		8
Client:		XTO		S	hift Onsite Time:	5:00	am/pn
Location:	N	ash 29		S	hift Offsite Time:	1:30 PM	am/pn
Site Contact:	_	Jackson				8	Total hr
Site Contact:	Pau	ıl Worley		Present	Onsite Activities:	PROCES	S WATER
Processing Hr	s Today:	8 hrs	Cumulativ	e Processing	Hrs:	64	hrs
BBLS Processe		3,806 bbls		BBLS Proces		24,18	2 bbls
BBLS/Hr Proc		475.75	Cumulative l	BBLS/Hr Proc	essed:	377.8	bbl/hr
Lead Supervisor:	Pai	ıl Worley	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator		m Pollard	07:00	HOW Dack	100	6.89	1.89
Crew		en Erler	09:00		100	7.03	1.45
		ay Lee	11:00		100	7.09	1.76
		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 Ord
			HcL Acid	213	899	686	YES
			Sodium Hydroxide	295	1,133	838	YES
Visitors:	ВО	IACKSON	Sociali Hydroxide	233	1,133	050	123
Visitors:							
Visitors:		,					
ere there any abn	ormal operat	ional issues onsite	?				
	land avanta		d2 If so, what itoms and v	vhen?			
re there any addit	ionai supplie	s/equipment neede	ur ir so, what items and v				
ove there been an			ule, including volumes ne		7		
0					17		
ove there been an	y changes to		ale, including volumes ne		.7		
ave there been an	y changes to	the current schedu	ale, including volumes ne		7	хто	
ave there been and	y changes to	the current schedu	ale, including volumes ne		.7	хто	

Date:	6/	25/2012		Report	Number:		20
Date:	0/.	23/2012			lumber:		8
				Onici	uniber.		
Client:		хто		S	hift Onsite Time:	6:00	am/pm
Location:	N	lash 29			nift Offsite Time:	5:00 PM	am/pm
Site Contact:	Во	Jackson				11	Total hrs.
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	Р	ROCESS WATER
Processing Hrs	Γoday:	4 hrs	Cumulativ	e Processing	Hrs:		75 hrs
<b>BBLS Processed</b>	Today:	1,450 bbls	Cumulativ	BBLS Proces	sed:		25,632 bbls
BBLS/Hr Proce	ssed:	362.5	Cumulative	BBLS/Hr Proc	essed:		341.8 bbl/hr
Ld Super insul	D	d Marie	One diame	flalaal	Valta / Amara		Turkidia.
Lead Supervisor: Lead Operator		ul Worley m Pollard	Readings: 07:00	flow back	Volts/Amps 100	pH 6.97	Turbidity 1.67
Crew		en Erler	09:00		100	7.13	1.89
Clew		lay Lee	11:00		100	6.89	1.45
<b>⊢</b>		McGruder	12:30		100	6.57	1.72
<b>⊢</b>	Eddy	WicGrader	N/A		N/A	N/A	N/A
-			N/A		N/A	N/A	N/A
-			IN/A		N/A	IN/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	115	5,686	5,571	RECEIVED 5000 GAL
			Sodium Hydroxide	150	220	70	YES
Visitors:	BO .	JACKSON					
Visitors:							
Visitors:							
ere there any abno	mal operat	tional issues onsite	7				
ere there any abno	mal operat	tional issues onsite	?				
	mal opera	tional issues onsite	?				
	mal opera	tional issues onsite	?				
	mal operat	tional issues onsite	?				
			? d? If so, what items and	when?			
				when?			
e there any additio				when?			
e there any additio				when?			
e there any additio	nal supplie	s/equipment neede			17		
e there any additio	nal supplie	s/equipment neede	d? If so, what items and		17		
re there any addition	nal supplie	s/equipment neede	d? If so, what items and		17		
re there any addition	nal supplie	s/equipment neede	d? If so, what items and		17		
e there any addition	nal supplie changes to	s/equipment neede	d? If so, what items and le, including volumes ne		17		
e there any addition	nal supplie changes to	s/equipment neede	d? If so, what items and le, including volumes ne		17	XT	70
e there any addition  ive there been any  as client provided a  Person:	nal supplie changes to	s/equipment neede	d? If so, what items and le, including volumes no ive or negative)?		17	XT	70
re there any addition	nal supplie changes to	s/equipment neede	d? If so, what items and le, including volumes no ive or negative)?		17	XT	70
e there any addition  ve there been any  s client provided a Person:	nal supplie changes to ny operatio	s/equipment neede the current schedu	d? If so, what items and le, including volumes no ive or negative)?	eded by clien			

XTO Energy Nash Unit #29 C-144 Closure

Date:	61	26/2012		Panori	Number:		21
Date:	0/2	-0/2012			Number:		8
				L Ont			
Client:		XTO			hift Onsite Time:	6:00	am/pm
Location:		ash 29		S	hift Offsite Time:	5:00 PM	am/pm
Site Contact:		Jackson				0	Total hrs.
Site Contact:		l Worley		Present	Onsite Activities:	PROCE	SS WATER
MAINTENA		, h.,	Colatin	- Di	11	75	her.
Processing Hr		0 hrs 1,450 bbls		e Processing			hrs 32 bbls
BBLS Processe BBLS/Hr Proc		#DIV/0!		BBLS/Hr Proc			32 bbl/hr
BBLS/HI PIO	esseu.	#DIV/0:	Cumulative	BBLS/HI PIOC	esseu.	341.0	00//11
Lead Supervisor:	Pau	il 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	1.wa*.	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:	BOJ	ACKSON					
Visitors:							<u> </u>
Visitors:					L		
	- Aven						
	ormal operat	ional issues onsite	?				
10							
,							-
ro thoro any addit	ional cumplic	r/caulinment neede	d? If so, what items and v	whom?			
NO	ional supplies	s/equipment neede	ur II so, what items and v	Wileni			
200		the current schedu	ıle, including volumes ne	eded by clien	1?		
lave there been an	v changes to		, , , , , , , , , , , , , , , , , , , ,				
	y changes to						
	y changes to						
lave there been an	y changes to						
NO		nal feedback (posit					
lo las client provided Person:			tive or negative)?  Company:			хто	
IO						хто	

Date:	6/	27/2012		Report	Number:		22
					Number:		8
Clia-dal		VTO	1		hift Onsite Time.	6.00	I 2m/nm
Client: Location:		XTO lash 29			hift Onsite Time: hift Offsite Time:	6:00 5:00 PM	am/pm am/pm
Site Contact:		Jackson		<u>_</u>	mit Offsite fine.	0	Total hrs.
Site Contact:		ul Worley		Present	Onsite Activities:		SS WATER
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	75	hrs
BBLS Processed	d Today:	1,450 bbls	Cumulative	e BBLS Proce	ssed:	25,6	32 bbls
BBLS/Hr Proce	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.8	B bbl/hr
Lead Supervisor:	Pai	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
ŀ			HcL Acid	0	5,686	5,686	CEIVED 5000
			Sodium Hydroxide	0	1,000	1,000	YES
Visitors:	во,	JACKSON					
Visitors:							
Visitors:							
120		oin"					
Annual Manual				A Laborator .			
Vere there any abno	ormal operat	tional issues onsite	?				
NO							
			<u> </u>				
	onal supplie	s/equipment neede	d? If so, what items and v	when?			
NO	1864 11						
In		Aba aurrant aabadı	de including values as	adad bu alian	12		
Have there been any	changes to	me current schedi	ule, including volumes ne	eded by clien	Lr		
<b>10</b>							
Has client provided	any operation	anal foodback (nosi	tive or pogative)?				
ING CHEIL DI CVIULU	uny operation	mai reeuback (posi	Company:		Γ	хто	
					1		
Person:							
Person:	mente	· · · ·					
Person: N/A Additional Com		O AM CHECKED AT	VALVES AND TANKS IN	CLUDING POS	SIEDON TANK F	VERYTHING	LOOKED

Date:	6/2	28/2012		Panor	Number:		23
Date.	0/2	28/2012			Number:		8
Client:		хто			hift Onsite Time:	N/A	am/pm
Location:		ash 29			hift Offsite Time:	N/A	am/pm
Site Contact:	Во	Jackson				0	Total hrs.
Site Contact:	Pau	ıl Worley		Present	Onsite Activities:	PROCE	SS WATER
STAND B	Υ						
Processing Hr	s Today:	0 hrs	Cumulativ	ve Processing	Hrs:	75	hrs
BBLS Processe	d Today:	1,450 bbls	Cumulative	e BBLS Proce	ssed:	25,6	32 bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.	8 bbl/hr
Lead Supervisor:	Pau	ıl 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
				•			
			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 J	IACKSON					
Visitors:							
Visitors:						· · · · · · · · · · · · · · · · · · ·	
						-75	
Were there any abn	ormal operat	ional issues onsite	?				
NO							
Are there any addit	ional supplies	s/equipment neede	d? If so, what items and	when?			
NO NO	опи опредо	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	y changes to	the current sched	ule, including volumes ne	eded by clien	t7		
NO							
Has client provided	any operation	nal feedback (posi	tive or negative)?				
Person:	., .,		Company:			хто	
N/A							
Additional Cor				THE 071105			00TH 2115
			STARTING BACK UP ON UNTIL CLOSER TO THE			AC ON THE	201H DUE

Client: XTO Location: Nash 29 Site Contact: Bo Jackson Site Contact: Paul Worley  STAND BY  Processing Hrs Today: 0 hrs BBLS Processed Today: 1,450 bbls BBLS/Hr Processed: #DIV/0!  Lead Supervisor: Paul Worley  Lead Operator Crew  Readings: flow back Volts/Amps pH Turbidity N/A	Date:	6/	29/2012		Report	Number:		24
Site Contact:   Bo Jackson   Site Contact:   Bo Jackson   Site Contact:   Bo Jackson   Site Contact:   Bo Jackson   Paul Worley	20.0.1		25/2022					
Site Contact:   Bo Jackson   Site Contact:   Bo Jackson   Site Contact:   Bo Jackson   Site Contact:   Bo Jackson   Paul Worley								
Site Contact: Bo Jackson Site Contact: Paul Worley Present Onsite Activities: PROCESS WATER  STAND BY  Processing Hrs Today: 0 hrs BBLS Processed 1 1,450 bbls BBLS/Hr Processed: 41,450 b	Client:		XTO		S	hift Onsite Time:	N/A	
STAND BY  Processing Hrs Today: 0 hrs BBLS Processed Today: 1,450 bbls BBLS/Hr Processed: 9DIV/01  Lead Supervisor: Paul Worley Lead Operator N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Location:	N	lash 29		S	hift Offsite Time:		
STAND BY  Processing Hrs Today: 0 hrs BBLS Processed: 1,450 bbls BBLS/Hr Processed: #DIV/01  Leaf Supervisor: Paul Worley Lead Operator Crew N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A								
Processing Hrs Today: 0 hrs BBLS Processed Today: 1,450 bbls BBLS/Hr Processed: 75,532 bbls BBLS/Hr Processed: #DIV/0!  Lead Supervisor: Paul Worley Lead Operator Crew  N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A			ul Worley		Present	Onsite Activities:	PROCE	SS WATER
BBLS Processed: 1,450 bbls BBLS/Hr Processed: #DIV/0!  Lead Supervisor: Paul Worley Lead Operator Crew    N/A								
BBLS/Hr Processed: #DIV/0    Cumulative BBLS/Hr Processed: 341.8   bbl/hr								
Lead Supervisor: Paul Worley Lead Operator Crew N/A N/			<u> </u>					
N/A	BBLS/Hr Proce	ssed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.	8 bbl/hr
N/A	Lead Supervisor:	Pa	ul Worley	Readings	flow back	Volts/Amns	рH	Turbidity
Crew    N/A		1 0	2		110 TO DUCK			
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								
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								
Het Acid 0 5,686 5,686 CEIVED 5000  Visitors: BO JACKSON Visitors:						N/A	N/A	N/A
Het Acid 0 5,686 5,686 CEIVED 5000  Visitors: BO JACKSON Visitors:			10.00					
Visitors: BO JACKSON Visitors: Visit				Chemical	Usage	Start Inv.	End Inv.	On Order
Visitors: BO JACKSON Visitors: Visitors: Visitors:  Were there any abnormal operational issues onsite? NO  Are there any additional supplies/equipment needed? If so, what items and when? NO  Have there been any changes to the current schedule, including volumes needed by client? NO  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO	Γ			HcL Acid	0	5,686	5,686	CEIVED 5000 C
Visitors:  Visitors:  Were there any abnormal operational issues onsite?  NO  Are there any additional supplies/equipment needed? If so, what items and when?  NO  Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person:  Company:  XTO				Sodium Hydroxide	0	1,000	1,000	YES
Were there any abnormal operational issues onsite?  NO  Are there any additional supplies/equipment needed? If so, what items and when?  NO  Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO	Visitors:	ВО .	JACKSON					
Were there any abnormal operational issues onsite?  NO  Are there any additional supplies/equipment needed? If so, what items and when?  NO  Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person:  Company:  XTO								
Are there any additional supplies/equipment needed? If so, what items and when?  NO  Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person:  Company:  XTO	Visitors:							_L
Are there any additional supplies/equipment needed? If so, what items and when?  NO  Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person:  Company:  XTO				1002				
Are there any additional supplies/equipment needed? If so, what items and when?  NO  Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person:  Company:  XTO								
Are there any additional supplies/equipment needed? If so, what items and when?  NO  Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person:  Company:  XTO								
Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A		rmal opera	tional issues onsite	?				
Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A		rmal opera	tional issues onsite	?				
Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A		rmal opera	tional issues onsite	?				
Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A		rmal opera	tional issues onsite	?				
Have there been any changes to the current schedule, including volumes needed by client?  NO  Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A	NO							
Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A	NO  Are there any additio				when?			
Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A	NO  Are there any additio				when?			
Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A	NO  Are there any additio				when?			
Has client provided any operational feedback (positive or negative)?  Person: Company: XTO  N/A	NO  Are there any addition	nal supplie	es/equipment neede	d? If so, what items and v				
Person: Company: XTO  N/A	Are there any addition NO Have there been any	nal supplie	es/equipment neede	d? If so, what items and v		17		
Person: Company: XTO  N/A	Are there any addition NO Have there been any	nal supplie	es/equipment neede	d? If so, what items and v		1?		
Person: Company: XTO  N/A	Are there any addition NO Have there been any	nal supplie	es/equipment neede	d? If so, what items and v		17		
N/A	Are there any addition NO Have there been any	nal supplie changes to	es/equipment neede	d? If so, what items and v		17		
Additional Comments	Are there any addition NO Have there been any NO Has client provided a	nal supplie changes to	es/equipment neede	ed? If so, what items and water including volumes ne		17	YTO	
	Are there any addition NO Have there been any NO Has client provided a Person:	nal supplie changes to	es/equipment neede	ed? If so, what items and water including volumes ne		17	XTO	

			ı		N		25
Date:	6/3	30/2012			Number:		25
			1	Unit I	Number:		8
Client:		хто			hift Onsite Time:	N/A	am/pm
Location:		ash 29			hift Offsite Time:	N/A	am/pm
Site Contact:		Jackson			THE OTISICE THE	0	Total hrs.
Site Contact:		ıl Worley		Present	Onsite Activities:	PROCE	SS WATER
STAND B	Υ						
Processing H		0 hrs	Cumulativ	e Processing	Hrs:	75	hrs
BBLS Processe	ed Today:	0 bbls	Cumulative	BBLS Proce	ssed:	25,6	32 bbls
BBLS/Hr Pro	cessed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.	8 bbl/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
			Chaminal			F-d I	T 0-0-4
	ļ		Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid Sodium Hydroxide	120 100	5,686	5,566 900	YES
Visitors:	BO.	IACKSON	Socium Hydroxide	100	1,000	900	1123
Visitors:		, to to con				1.4.	
Visitors:				.,,	-	***	<del>                                     </del>
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						<u> </u>
<del>- 7/2-2</del>		****	**************************************				
Were there any abr	normal operat	ional issues onsite	?				
NO							
Are there any addit	ional supplie	s/equipment neede	ed? If so, what items and v	when?			
Have there been ar	ny changes to	the current sched	ule, including volumes ne	eded by clien	17		
Have there been ar	ny changes to	the current sched	ule, including volumes ne	eded by clien	17		
				eded by clien	17		
NO				eded by clien	n	хто	
NO  Has client provided			itive or negative)?	eded by clien	17	хто	

Date:	7/	/1/2012			Number:		26
				Unit I	lumber:		8
Client:		XTO			hift Onsite Time:	3:00	am/pm
Location:		lash 29		S	hift Offsite Time:	9:30 PM	am/pm
Site Contact:		Jackson				6	Total hrs.
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCE	SS WATER
Processing Hr	rs Today:	6 hrs	Cumulativ	e Processing	Hrs:	81	hrs
BBLS Processe		1,650 bbls		e BBLS Proces			32 bbls
BBLS/Hr Prod		275		BBLS/Hr Proc			2 bbl/hr
Lead Supervisor:	Pau	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		AY LEE	0500		100	6.67	0.87
Crew	EDDIE	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
				p			
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	120	5,686	5,566	CEIVED 5000 GA
			Sodium Hydroxide	100	1,000	900	YES
Visitors:	ļ			ļ			
Visitors:							
Visitors:	L						
Were there any abr	normal operat	ional issues onsite	?				
A - 41 116							
NO	ionai supplie	s/equipment needed	d? If so, what items and v	when?			
		4					
NO	y changes to	the current schedu	ile, including volumes ne	edea by client	· r		
NO							
Has client provided	l any operatio	onal feedback (posit	tive or negative)?				
Person:		(Posit	Company:			XTO	
N/A				, .,			
Additional Co	mments	-					
ARRIVED ON LOCA FULL AND WE NEE LEAKING AND WAS	ATION AT 3:00 DED TO RUN S GOING INTO	WATER TO GET TA THE DIRTY TANKS	A DAVID LUNA CALLED ANKS DOWN. AFTER INV S WE GOT THE DIRTY ETS BACK TO FIX VALVE	ESTIGATING , TANKS DOWN	FOUND OUT TH TO 9' AND LARK	ATA VALVE RY ONEAL SA	WAS NID THAT
		——————————————————————————————————————	A-4-7-				

			51				
D. C.		/2/2012					
Date:	7	/2/2012			Number:		27 8
				Unit	Number:		0
Client:		хто			hift Onsite Time:	N/A	am/pm
Location:		lash 29			hift Offsite Time:	N/A	am/pm
Site Contact:		Jackson			THE CHARLE THE	0	Total hrs.
Site Contact:		ul Worley		Present	Onsite Activities:		SS WATER
STAND B	Y			***			
Processing Hrs	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	75	hrs
BBLS Processe	d Today:	0 bbls		BBLS Proces		25,6	32 bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.8	bbl/hr
Land Sun and a	D	d Wedov	Pag dia sa	fla !!	V-14-74		Tought die
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	pH N/A	Turbidity
Lead Operator			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
			N/A		N/A	N/A	N/A
}			N/A		N/A	N/A	N/A
ŀ			Chemical	Usage	Start Inv.	End Inv.	On Order
•			HcL Acid	0	5,556	5,556	- Oil Older
			Sodium Hydroxide	0	900	900	
Visitors:	ВО	JACKSON			515		
Visitors:							
Visitors:	·						
748	U.	-X					
Were there any abn	ormal onerat	ional issues onsite?	>			*****	
NO	ormai operai	ional issues onsite					
			-				
Are there any additi	onal supplie	s/equipment needed	1? If so, what items and v	when?	· · · · · · · · · · · · · · · · · · ·		15.10
NO			,			-	
	y changes to	the current schedu	le, including volumes ne	eded by client	?		
NO	***						
Hae alient mender	any anarati	and foodback (no : 14)	ive or negative\2				
Has client provided Person:	any operation	man reeupack (posit			<u> </u>	VTO	
N/A			Company:			хто	-
Additional Con	mente				·		
		WE AGREED ON S	TARTING BACK UP ON 1	THE 9TH OF II	II Y FOR THE FR	AC ON THE	20TH DUF
TO POSSIBLE BACT	ERIA GROW	TH WE WILL WAIT	UNTIL CLOSER TO THE I	FRAC DATE	ON THE TH	OIT TILL	-077 DOL

Date:	7,	/3/2012		Report	Number:		28
23.01		3,2022			lumber:		8
Client:		хто		-	hift Onsite Time:	N/A	am/pm
Location:		ash 29		S	hift Offsite Time:	N/A_	am/pm
Site Contact:		Jackson				0	Total hrs
Site Contact:		ul Worley		Present	Onsite Activities:	PROCES	S WATER
STAND B			0 11		и Т	75	
Processing Hr		0 hrs		e Processing BBLS Proces		75	hrs 2 bbls
BBLS Processe BBLS/Hr Proc		0 bbls #DIV/0!		BBLS/Hr Proc			bbl/hr
BBLS/Hr Proc	essea:	#DIV/0!	Cumulative	BBL3/HI PIOC	esseu.	341.0	DDI/III
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
			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 Orde
			HcL Acid	0	5,566	5,566	
			Sodium Hydroxide	0	900	900	
Visitors:	ВО	JACKSON					
Visitors:							
Visitors:							
<b>lere there any abn</b> O	ormal opera	tional issues onsite	9?				
re there any addit	ional supplie	s/equipment neede	ed? If so, what items and v	when?			
O ave there been an			ed? If so, what items and w		?		
ave there been an	y changes to		ule, including volumes ne itive or negative)?		?		
O ave there been an	y changes to	the current sched	ule, including volumes ne		.?	хто	

Date:				Danari	Number		29
	• • • • • • • • • • • • • • • • • • • •	/4/2012			Number:		8
			ı	- Onit i	tumber.		
Client:		ХТО		S	hift Onsite Time:	N/A	am/pm
Location:	N	lash 29		S	hift Offsite Time:	N/A	am/pm
Site Contact:	Во	Jackson				0	Total hr
Site Contact:		ul Worley		Present	Onsite Activities:	PROCES	SS WATER
STAND BY	<i>(</i>						
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	75	hrs
BBLS Processed	d Today:	0 bbls	Cumulative	<b>BBLS Proces</b>	ssed:	25,63	32 bbls
BBLS/Hr Proce	essed:	#DIV/0!	Cumulative I	BBLS/Hr Proc	essed:	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
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
L			Chemical	Usage	Start Inv.	End Inv.	On Orde
L			HcL Acid	0	5,566	5,566	
			Sodium Hydroxide	0	900	900	
Visitors:	BO	JACKSON			ļ <del>-</del>		
Visitors:							
Visitors:							L
		<del></del>					
form the real name of the		tional language analta	2				
O	ormai opera	tional issues onsite	) [				
O							
re there any addition	nnal sunnlie	s/equipment neede	d? If so, what items and v	hen?			
O	onai supplie	sequipment neede	ar ii so, what items and v	THEIT I			
ave there been an	changes to	the current sched	ule, including volumes ne	eded by client	?		
10							
<del></del>							-
as client provided	any operation	onal feedback (posi	tive or negative)?				
Person:			Company:			хто	
/A							

Date:	7/	5/2012		Pancet	Number:		30
Date.		3/2012			lumber:		8
			'				
Client:		XTO			hift Onsite Time:	N/A	am/pm
Location: Site Contact:		ash 29 Jackson		S	hift Offsite Time:	N/A 0	am/pm Total hrs
Site Contact:		il Worley		Present	Onsite Activities:		S WATER
STAND BY			•				
Processing Hrs	Гoday:	0 hrs	Cumulativ	e Processing	Hrs:	75	hrs
BBLS Processed		0 bbls		BBLS Proces			2 bbls
BBLS/Hr Proces	ssed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.8	bbl/hr
Lead Supervisor:	Pau	ıl Worley	Readings:	flow back	Volts/Amps	pH	Turbidit
Lead Operator			N/A		N/A	N/A	N/A
Crew			N/A	1,,000	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	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 J	ACKSON					
Visitors:							
Visitors:							4
Vere there any abnor	mal operat	ional issues onsite	9?				
		c/aguinment needs	nd2 If so, what itoms and w	vhen?			
Are there any addition	nal supplies	sequipment neede	or il so, what items and v			***	
10			ule, including volumes ne		?		
lave there been any o	changes to	the current sched	ule, including volumes ne		?		
NO	changes to	the current sched	ule, including volumes ne		?	хто	

Date:	7/	6/2012		Renort	Number:		31	
Date.		0/ 2012			Number:		8	
			!		1.81	-		
Client:		XTO			hift Onsite Time:	N/A	am/pr	
Location:		ash 29		S	hift Offsite Time:	N/A	am/pr	
Site Contact:		Jackson				0	Total h	
Site Contact:		ıl Worley		Present	Onsite Activities:	PROCES	SS WATER	
Processing Hrs		0 hrs	Cumulativ	e Processing	Hre:	75	hrs	
BBLS Processed		0 bbls		BBLS Proce			32 bbls	
BBLS/Hr Proce		#DIV/0!		umulative BBLS/Hr Processed: 341.8 bbl				
I I Companies and	Dec	11111	Occadione.	flb.alı	1 1/-14-/4	-11	Toubid	
Lead Supervisor: Lead Operator	Pau	ul Worley	Readings:	flow back	Volts/Amps N/A	pH N/A	Turbidi N/A	
Crew			N/A N/A		N/A	N/A	N/A N/A	
CIEW			N/A		N/A	N/A	N/A	
-			N/A		N/A	N/A	N/A	
ŀ			N/A	·	N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
			Chemical	Usage	Start Inv.	End Inv.	On Ord	
L			HcL Acid	0	5,566	5,566		
			Sodium Hydroxide	0	900	900		
Visitors:	ВО .	IACKSON			ļ			
Visitors:					-			
Visitors:			L	.,,,		-11		
Vere there any abno	rmal operat	ional issues onsite	e?					
10								
Are there any addition	nal sunnlie	s/equipment needs	ed? If so, what items and w	when?		•		
NO	ondi Supplie	orequipment needs	out it 50, what items and t					
lave there been any	changes to	the current sched	ule, including volumes ne	eded by clien	t?			
			14h					
10	any operation	nal feedback (nos	itive or negative)?					
10	any operation	nal feedback (pos	Company:			XTO		
NO	any operatio	nal feedback (pos	***************************************			XTO		
las client provided  Person:		nal feedback (pos	***************************************			XTO		

Client: XTO Location: Nash 29 Site Contact: Bo Jackson Site Contact: Paul Worley  TAND BY  Processing Hrs Today: 0 hrs BBLS Processed: #DIV/01  Lead Supervisor: Paul Worley  Lead Supervisor: Paul Worley  Crew  Readings: flow back Volts/Amps pH Totaly Lead Operator  Crew  N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Date:		7/2012			t Number		22
Client: XTO Location: Nash 29 Site Contact: Bo Jackson Site Contact: Paul Worley  Processing Hrs Today: 0 hrs BBLS Processed Today: 0 bbls BBLS Processed: #DIV/0!  Lead Supervisor: Paul Worley  Lead Operator Crew  Readings: flow back Volts/Amps pH Turbic Volta N/A	Date:		//2012					
Shift Offsite Time: N/A am/s					Uill	iaumber.		0
Site Contact: Paul Worley  TAND BY  Processing Hrs Today: 0 hrs BBLS Processed: 75 hrs  Cumulative BBLS Processed: 25,632 bbls  BBLS/Hr Processed: #DIV/0!  Lead Supervisor: Paul Worley Lead Operator Crew  N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Client:		XTO			Shift Onsite Ti <b>m</b> e:	N/A	am/p
Present Onsite Activities   PROCESS WATE	Location:	N	lash 29			hift Offsite Time:	N/A	am/p
Processing Hrs Today: 0 hrs BBLS Processed Today: 0 bbls BBLS/Hr Processed: #DIV/0!  Cumulative BBLS Processed: 25,632 bbls Cumulative BBLS/Hr Processed: 25,632 bbls Cumulative BBLS/Hr Processed: 341.8 bbl/hr  Care Paul Worley Lead Operator Crew  Readings: flow back Volts/Amps pH Turbic N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Site Contact:	Во	Jackson				0	Total h
Processing Hrs Today: 0 hrs   BBLS Processed Today: 0 bbls   Cumulative BBLS Processed: 25,632 bbls   Cumulative BBLS Processed: 25,632 bbls   Cumulative BBLS Processed: 341.8 bbl/hr   Cumulative			ul Worley		Present	Onsite Activities:	PROCES	SS WATER
BBLS Processed: 25,632 bbls BBLS/Hr Processed: #DIV/0!  Cumulative BBLS/Hr Processed: 341.8 bbl/hr  Cumulative BBLS/Hr Processed: 341.8 bbl/hr  Readings: flow back Volts/Amps pH Turbic N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	TAND B	<i>'</i>						
BBLS/Hr Processed: #DIV/0!  Lead Supervisor: Paul Worley Lead Operator N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	75	hrs
Readings: flow back Volts/Amps pH Turbit Lead Operator  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 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  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  N/A N/A  N/A	<b>BBLS Processe</b>	d Today:	0 bbls	Cumulative	BBLS Proce	ssed:	25,632 bbls	
Lead Operator Crew    N/A	BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Prod	essed:	341.8	bbl/hr
N/A   N/A	Lead Supervisor:	Pai	ıl Worley	Readings:	flow back	Volts/Amns	nH	Turbid
Crew    N/A					Duck			
N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A						<del></del>		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 N/A	Ì			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
HcL Acid 0 5,566 5,566 Sodium Hydroxide 0 900 900 Visitors: Visitors: Visitors: Visitors: Visitors:  Visitors:	Ī			N/A	T T	N/A		N/A
HcL Acid 0 5,566 5,566 Sodium Hydroxide 0 900 900 Visitors: Visitors: Visitors: Visitors:  Pethere any abnormal operational issues onsite?  Pethere any additional supplies/equipment needed? If so, what items and when?  Pethere been any changes to the current schedule, including volumes needed by client?  Person: Company: XTO								
HcL Acid 0 5,566 5,566 Sodium Hydroxide 0 900 900 Visitors:  Visitors: Visitors: Visitors: Visitors: Visitors:  Interest there any abnormal operational issues onsite?  Interest there any additional supplies/equipment needed? If so, what items and when?  Interest there any additional supplies/equipment needed? If so, what items and when?  Interest there any additional supplies/equipment needed? If so, what items and when?  Interest there any additional supplies/equipment needed? If so, what items and when?  Interest there any additional supplies/equipment needed? If so, what items and when?  Interest there are any additional supplies/equipment needed? If so, what items and when?  Interest there any additional supplies/equipment needed? If so, what items and when?  Interest there are any additional supplies/equipment needed? If so, what items and when?  Interest there are any additional supplies/equipment needed? If so, what items and when?  Interest there are any additional supplies/equipment needed? If so, what items and when?  Interest there are any additional supplies/equipment needed? If so, what items and when?  Interest there are any additional supplies/equipment needed? If so, what items and when?  Interest there are any additional supplies/equipment needed? If so, what items and when?				Chemical	Usage	Start Inv.	End Inv.	On Ord
Visitors: BO JACKSON Visitors: Visitors: Visitors: Visitors:  a there any abnormal operational issues onsite?  between there any additional supplies/equipment needed? If so, what items and when?  between there been any changes to the current schedule, including volumes needed by client?  by the schedule of the current schedule or negative?  So client provided any operational feedback (positive or negative)?  Person:  Company:  XTO				HcL Acid	0	5,566	5,566	
Visitors:  Visitors:  Visitors:  at there any abnormal operational issues onsite?  at there any additional supplies/equipment needed? If so, what items and when?  verthere been any changes to the current schedule, including volumes needed by client?  sclient provided any operational feedback (positive or negative)?  Person:  Company:  XTO				Sodium Hydroxide	0	900	900	
ve there any additional supplies/equipment needed? If so, what items and when?  ve there been any changes to the current schedule, including volumes needed by client?  s client provided any operational feedback (positive or negative)?  Person:  Company:  XTO	Visitors:	во.	JACKSON					
ere there any abnormal operational issues onsite?  be there any additional supplies/equipment needed? If so, what items and when?  control of the current schedule, including volumes needed by client?  control of the current schedule, including volumes needed by client?  control of the current schedule, including volumes needed by client?  control of the current schedule, including volumes needed by client?	Visitors:							
there any additional supplies/equipment needed? If so, what items and when?  ve there been any changes to the current schedule, including volumes needed by client?  s client provided any operational feedback (positive or negative)?  Person:  Company:  XTO	Visitors:							
there any additional supplies/equipment needed? If so, what items and when?  The there are any additional supplies/equipment needed? If so, what items and when?  The there been any changes to the current schedule, including volumes needed by client?  The schedule including volumes needed by client?  The schedule including volumes needed by client?  The schedule including volumes needed by client?  The schedule including volumes needed by client?  The schedule including volumes needed by client?  The schedule including volumes needed by client?  The schedule including volumes needed by client?  The schedule including volumes needed by client?  The schedule including volumes needed by client?  The schedule including volumes needed by client?  The schedule including volumes needed by client?	·							
there any additional supplies/equipment needed? If so, what items and when?  ve there been any changes to the current schedule, including volumes needed by client?  s client provided any operational feedback (positive or negative)?  Person:  Company:  XTO								
e there any additional supplies/equipment needed? If so, what items and when?  ve there been any changes to the current schedule, including volumes needed by client?  s client provided any operational feedback (positive or negative)?  Person:  Company:  XTO		ormal operat	ional issues onsite	?				
ve there been any changes to the current schedule, including volumes needed by client?  s client provided any operational feedback (positive or negative)?  Person:  Company:  XTO	)							
ve there been any changes to the current schedule, including volumes needed by client?  s client provided any operational feedback (positive or negative)?  Person:  Company:  XTO								
ve there been any changes to the current schedule, including volumes needed by client?  s client provided any operational feedback (positive or negative)?  Person:  Company:  XTO								
s client provided any operational feedback (positive or negative)?  Person:  Company:  XTO								
ve there been any changes to the current schedule, including volumes needed by client?  s client provided any operational feedback (positive or negative)?  Person:  Company:  XTO	e there any additi	onal supplies	s/equipment neede	d? If so, what items and v	when?			
s client provided any operational feedback (positive or negative)?  Person: Company: XTO	)			-				
s client provided any operational feedback (positive or negative)?  Person: Company: XTO								
s client provided any operational feedback (positive or negative)?  Person: Company: XTO								
A		changes to	the current schedu	ile, including volumes ne	eded by clien	t?		
Person: Company: XTO	ve there been any							
Person: Company: XTO								
Person: Company: XTO								
	)	any operatio	nal feedback (posit	tive or negative)?				
	s client provided  Person:	any operatio	nal feedback (posit				хто	
	s client provided  Person:	any operatio	nal feedback (posit				хто	

Date:	7	/8/2012		Panor	Number:		33
54.0.		0,2012			Number:		8
					•		
Client:		XTO		S	hift Onsite Time:	N/A	am/pn
Location:		lash 29		s	hift Offsite Time:	N/A	am/pn
Site Contact:		Jackson		Descent	On aida. A adi. idi aa i	0	Total hi
STAND B		ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs		0 hrs	Cumulativ	e Processing	Hrs:	75	hrs
BBLS Processe		0 bbls		BBLS Proce			32 bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	341.8	bbl/hr
Lead Supervisor:	Par	ul Worley	Readings:	flow back	Volts/Amps	pH	Turbidi
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 Ord
			HcL Acid	0	5,566	5,566	
			Sodium Hydroxide	0	900	900	
Visitors:	ВО	JACKSON	··			<del></del>	ļ
Visitors: Visitors:							
					1		
ere there any abno	rmal operat	tional issues onsite	9				
	onal sunnila	s/equipment needs	d2 If so, what itoms and v	whon?			
e there any additi		o, oquip.nont noodo	at it oo, what itolilo and t				
re there any additi		·					
)		the current sched	ula including volumes ne	aded by client	2		
)		the current sched	ule, including volumes ne	eded by client	?		
) ive there been any		the current sched	ule, including volumes ne	eded by client	?		
eve there been any	/ changes to	the current schedi		eded by client	?		
ve there been any s client provided Person:	/ changes to			eded by client	?	хто	
ve there been any ) s client provided	/ changes to		tive or negative)?	eded by client	?	хто	

Date:	7/	9/2012		Report	Number:		34
		3/2022			lumber:		8
Client:		XTO		S	hift Onsite Time:	6:00	am/pn
Location:		lash 29		S	hift Offsite Time:	6:00 PM	am/pn
Site Contact:		Jackson			0 - 11 - 1 - 11 - 11	4	Total hr
Site Contact:	Pau	ıl Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	Today:	4 hrs	Cumulativ	e Processing	Hrs:	85	hrs
BBLS Processed		1.650 bbls		BBLS Proces			5 bbls
BBLS/Hr Proce		412.5		BBLS/Hr Proc		358.9	bbl/hr
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator	ADAN	1 POLLARD	0200		100	6.35	1.16
Crew	REG	GIE WHITE	0400		100	6.65	0.57
	CHR	IS ONEAL	0500		100	6.9	0.78
L			N/A		N/A	N/A	N/A
L			N/A		N/A	N/A	N/A
-			N/A		N/A	N/A	N/A
Ļ							
-			Chemical	Usage	Start Inv.	End Inv.	On Ord
L			HcL Acid	150	5,566 900	5,416 770	YES
Visitors:	BO.	JACKSON	Sodium Hydroxide	130	900	770	163
Visitors:		WELLS			<del></del>		,
Visitors:		, WLLLO		.,,			
ere there any abno	rmal operat	tional issues onsite	?				
e there any addition	nal supplie	s/equipment needed	d? If so, what items and v	when?			
				- 4 - 4 1 11 1			
ve there been any )	changes to	the current schedu	ile, including volumes ne	eded by clien	11		
	any operation	nnal feedback (nosit	tive or negative)?				
s client provided :	any operation	Mai recuback (posit	Company:			XTO	
s client provided a						7110	
Person:							
	ments	1,00					

					<del></del>		
Date:	7/:	10/2012			Number:		35
				Unit I	lumber:		8
Client:		хто			hift Onsite Time:	6:00	am/pm
Location:	N'	lash 29			hift Offsite Time:	6:00 PM	am/pm
Site Contact:		Jackson			int onsite rine.	8	Total hr
Site Contact:		ul Worley		Present	Onsite Activities:		S WATER
				·			
Processing Hrs	Today:	8 hrs	Cumulativ	e Processing	Hrs:	93	hrs
BBLS Processed	i Today:	3,363 bbls	Cumulative	BBLS Proces	ssed:	33,86	8 bbls
BBLS/Hr Proce	essed:	420.375	Cumulative	BBLS/Hr Proc	essed:	364.2	bbl/hr
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	рH	Turbidit
Lead Operator		POLLARD	800		100	7.1	1.34
Crew	REGO	GIE WHITE	1000		100	6.89	1.22
	CHR	IS ONEAL	1200		100	6.65	0.98
			1400		100	6.65	1.35
			0:00		N/A	N/A	N/A
L			0:00		N/A	N/A	N/A
-					Г Т		
-			Chemical	Usage	Start Inv.	End Inv.	On Orde
L		~~~	HcL Acid	200	5,416	5,216	V56
Visitors:			Sodium Hydroxide	185	770	585	YES
Visitors:	BC.	WELLS					
Visitors:		VVLLLO					
7.01to.0.	•						
					3857		
-							
ere there any abno	rmal operat	tional issues onsite	?				
	ormal operat	ional issues onsite	?				
0							
ore there any addition			? d? If so, what items and v	vhen?			
O re there any additio				vhen?			
O re there any additio				when?			
re there any addition	onal supplie	s/equipment needec	d? If so, what items and v		2		
re there any addition	onal supplie	s/equipment needec			?		
re there any addition	onal supplie	s/equipment needec	d? If so, what items and v		?		
re there any addition	onal supplie	s/equipment needec	d? If so, what items and v		?		
re there any addition	onal supplies	s/equipment needec	d? If so, what items and v		?		
re there any addition	onal supplies	s/equipment needed	d? If so, what items and v		?	XTO	
re there any addition  ave there been any	onal supplies	s/equipment needed	1? If so, what items and values neglight including volumes negative)?		?	XTO	
re there any addition  ave there been any  as client provided  Person:	onal supplies  changes to  any operation	s/equipment needed	1? If so, what items and values neglight including volumes negative)?		?	XTO	
ave there been any  as client provided  Person:  A  Additional Com  RRIVED ON LOCAT	onal supplies r changes to any operation	s/equipment needed the current schedu onal feedback (posit	1? If so, what items and values neglight including volumes negative)?	eded by client	7:00 AM FILLED	CLEAN TANK	

Date:	7/:	11/2012		Report	Number:	;	36
	<u>-</u>				lumber:		8
0114		VTO T	ſ		Life On the Time.	5.00	/
Client: Location:		XTO lash 29	1		hift Onsite Time: hift Offsite Time:	6:00 6:00 PM	am/pm am/pm
Site Contact:		Jackson		3	mit Offsite Time.	4	Total hr
Site Contact:		ul Worley		Present	Onsite Activities:		S WATER
0.00 00.11.00.1		<u></u>	'	7.000.11			
Processing Hr	s Today:	4 hrs	Cumulativ	e Processing	Hrs:	97	hrs
BBLS Processe	d Today:	1,980 bbls	Cumulative	BBLS Proces	ssed:	35,84	8 bbls
BBLS/Hr Prod	essed:	495	Cumulative I	BBLS/Hr Proc	essed:	369.6	bbl/hr
Lead Supervisor:	Pau	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidit
Lead Operator		POLLARD	800		100	6.85	1.67
Crew	CHR	RIS ONEAL	1000		100	6.76	1.55
			1200		100	6.9	1.89
			1400		100	6.85	1.66
			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	235	5,416	5,181	
			Sodium Hydroxide	205	3,800	3,595	
Visitors:							
Visitors:	BC	WELLS					
Visitors:					<u> </u>		
		tional lesues onsite	?	4			
	ormai opera					· · · · · · · · · · · · · · · · · · ·	
re there any abr			d? If so, what items and v	vhen?	y man-		
o re there any addit	ional supplie	s/equipment neede			17		
O re there any addit O	ional supplie	s/equipment neede	d? If so, what items and v		1?		
re there any addit O  ave there been an	ional supplie	s/equipment neede	ule, including volumes ne		:?		
re there any addit	ional supplie	s/equipment neede	ule, including volumes ne		:?	хто	
re there any addit	ional supplie	s/equipment neede	ule, including volumes ne		1?	хто	

,							
<u> </u>			i .				
Date:	7/:	12/2012			Number:		37
				Unit	lumber:		8
Client:		XTO		S	hift Onsite Time:	6:00	am/pm
Location:	N	lash 29		S	hift Offsite Time:	8:00 PM	am/pm
Site Contact:		Jackson				8	Total hrs.
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Today:	8 hrs		e Processing		105	hrs
BBLS Processe	ed Today:	3,362 bbls	Cumulative	Cumulative BBLS Processed:			
BBLS/Hr Proc	essed:	420.25	Cumulative	BBLS/Hr Proc	essed:	373.4	bbl/hr
Lead Supervisor:		L WORLEY	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		/ POLLARD	800		110	7.1	2.56
Crew		RIS ONEAL	1000		110	7.43	1.89
	REG(	GIE WHITE	1200		110	6.67	0.98
			1400		110	6.63	1.45
			0:00		N/A	N/A	N/A N/A
			0:00		N/A	N/A	IV/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	355	5,181	4,826	Oll Oldel
			Sodium Hydroxide	420	3,595	3,175	
Visitors:			Sociali Hydroxide	420	3,333	3,173	
Visitors:	ВО	) WELLS					
Visitors:							
					•		
							<u> </u>
Were there any abn	ormal operat	tional issues onsite	e?				
NO	_						
	ional supplie	s/equipment neede	ed? If so, what items and v	vhen?			
NO							
							<del></del>
	y changes to	the current sched	lule, including volumes ne	eded by client	?		
NO							
Han aliant provided	l anu anaratia	nol foodback (noo	itivo es nogativo\2				
Has client provided Person:	any operation	mai leeuback (pos	Company:			XTO	
N/A			company.			<u> </u>	
""							
Additional Cor	mments	<u> </u>					
		AM REVEIWED .I.	SASTARTED PROCESSIN	IG WATER AT	7:00 AM WF FII	LED CI FAN	TANKS AND
			BECAUSE THE SMALL PU				
WE HAD TO WAIT F	FOR CLEAN 1	TANKS TO GO DOV	WN TO KEEP FILLING. THE	ERE WAS TO M	IUCH BACK PRE	SSURE ON S	AND FILTERS
1			O REPAIR THEMXTO CO				
1			E SINGLE PUMP ON XTO S WENT WELL AND WE MAD				JIHER THAN
THE WAITING AND	NEFAIRSEV	LITTING ELSE	AAFTAT AAFFF WIAFD AAE MIWF	L WIINOR ADS	OSTWILIVIS TO	JI ILIVII CALS.	

					<u> </u>			
Date:	7/:	13/2012		Report	Number:		38	
	······································				Number:	3	8	
Client:		хто		S	hift Onsite Time:	2:00	am/pm	
Location:	N	ash 29			hift Offsite Time:	7:00 PM	am/pm	
Site Contact:	Во	Jackson				10	Total hrs.	
Site Contact:	Paı	ıl Worley		Present	Onsite Activities:	PROCES	SS WATER	
Processing Hrs	Today:	10 hrs	Cumulativ	e Processing	Hrs:	107	hrs	
BBLS Processed		4,704 bbls		e BBLS Proce		40,55	52 bbls	
BBLS/Hr Proce		470.4	Cumulative BBLS/Hr Processed: 379.0 bbl					
Lead Supervisor:	PAUL	WORLEY	Readings:	flow back	Volts/Amps	рН	Turbidity	
Lead Operator		I POLLARD	800		110	7.21	0.76	
Crew	CHR	IS ONEAL	1000		110	6.87	0.87	
	REG	SIE WHITE	1200		110	6.95	1.24	
Γ			1400		110	6.34	2.34	
			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	345	5,181	4,836		
			Sodium Hydroxide	380	3,595	3,215		
Visitors:								
Visitors:					ļ			
Visitors:							<u> </u>	
	ormal operat	ional issues onsite?						
NO								
							,	
	onal supplie	s/equipment needed	? If so, what items and	when?				
NO								
				·				
		46		محادما احتداد	10			
NO	changes to	the current schedu	e, including volumes ne	eded by clien	Lf			
110								
Has client provided	any operatio	nal feedback (positi	ve or negative\?					
Person:	y operation	iooaaaan (positi	Company:	I		ХТО		
N/A					·			
Additional Corr	nments							
		AM REVEIWED JSA	ASTARTED PROCESSII	VG WATER AT	3:00 AM WE h	IAD TO WAIT	SEVERAL	
HOURS FOR PUMP	TO TRANFE	R WATER FROM CL	EAN TANKS TO PIT TAN	K EVERYTH	IING ELSE WENT	WELL WITH		
ADJUSTMENTS TO	CHEMICALS	WE ALSO TREA	TED TANKS WITH BE6 F	OR ANY POS	SIBLE BACTERIA	GROWTH.		

Date:	7/	14/2012		Renort	Number:		39
<i></i>	l	11/2012			Number:		8
Client:		XTO		S	hift Onsite Time:	5:00	am/pn
Location:	N	lash 29		S	hift Offsite Time:	7:00 PM	am/pn
Site Contact:	Во	Jackson				10	Total hr
Site Contact:	Pai	ul Worley		Present	Onsite Activities:	PROCES	S WATER
Processing Hi		10 hrs		e Processing		117	hrs
BBLS Processe		4,321 bbls		BBLS Proce			3 bbls
BBLS/Hr Pro	cessed:	432.1	Cumulative	BBLS/Hr Proc	essed:	383.3	bbl/hr
Lead Supervisor:	PAUI	WORLEY	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		POLLARD	800		100	7.24	0.89
Crew		IS ONEAL	1000		100	6.98	1.31
		GIE WHITE	1200		100	6.54	1.87
			1400		100	6.88	1.63
			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	380	5,181	4,801	
	<u> </u>		Sodium Hydroxide	410	3,595	3,185	
Visitors:	LAR	RY ONEAL					
Visitors:							
Visitors:							
ere there any abr	normal operat	tional issues onsite	?				
)							
o thoro any addit	ional supplie	s/equipment neede	d? If so, what items and v	when?	···		
O College any addition							
0							
ove there been ar	ny changes to	the current schedu	ıle, including volumes ne	eded by clien	1?		
0	ny changes to	the current schedu	ıle, including volumes ne	eded by clien	?		
ove there been ar	ny changes to	the current schedu	ıle, including volumes ne	eded by clien	1?		
ave there been ar		the current schedu	tive or negative)?	eded by clien	17	ΧΙΟ	
ave there been ar  as client provided  Person:				eded by clien	17	хто	
ave there been ar			tive or negative)?	eded by clien	1?	хто	

Detect	7/:	rr /2012		Banari	Number:		40
Date:	//.	15/2012			Number:		8
Client:		XTO		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				9	Total hrs.
Site Contact:	Pau	ıl Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs		9 hrs	Cumulati	ive Processing	Hrs:	126	hrs
BBLS Processe		4,273 bbls		re BBLS Proce			16 bbls
BBLS/Hr Proc	essed:	474.7777778	Cumulative	BBLS/Hr Proc	essed:	389.8	bbl/hr
Lead Supervisor:	PAUI	WORLEY	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		POLLARD	800		100	6.75	1.65
Crew		IS ONEAL	1000	1	100	6.56	1.97
		SIE WHITE	1200	1	100	6.87	1.88
			1400		100	6.93	1.53
			0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
Ī							
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	320	4,801	4,481	
_			Sodium Hydroxide	385	3,185	2,800	
Visitors:	LARF	RY ONEAL					
Visitors:							
Visitors:							l
<b>Were there any abno</b> NO	ormal operat	ional issues onsite?	•				
							<u> </u>
Are there any addition	onal supplies	s/equipment needed	? If so, what items and	when?			
NO							
4b b		Also assessed a sheed of					
NO	y changes to	the current schedu	le, including volumes n	eeded by Chem	ır		
	any operation	nal feedback (positi		T			<del></del>
Person:			Company:	1	<u> </u>	XTO	
N/A							
Additional Con							
HOURS FOR PUMP	TO TRANFE	R WATER FROM CL	ASTARTED PROCESSI EAN TANKS TO PIT TAI ITH MINOR ADJUSTME	VK FILLED C	LEAN TANKS AN	ID SHUT DOV	VN FOR PUMP
APPROX.35,000 BBI			will tolk AD000 IME	O TO OTILIVI	TOTALO I OIGIL		,_

Date:	7/:	16/2012		Report	Number:		41
	<u> </u>	•			Number:		8
Client:		XTO		S	hift Onsite Time:	6:00	am/pm
Location:	N	lash 29		S	hift Offsite Time:	4:00 PM	am/pm
Site Contact:	Во	Jackson				7	Total hrs.
Site Contact:	Pau	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	s Today:	7 hrs	Cumulativ	e Processing	Hrs:	133	hrs
BBLS Processe	d ⊤oday:	3,852 bbls	Cumulative	e BBLS Proce	ssed:	52,96	58 bbls
BBLS/Hr Proc	essed:	550.2857143	Cumulative	BBLS/Hr Proc	essed:	398.3	bbl/hr
Land Sumamin	יי אם	MODIEV	Doodings.	How book	Volts/Amas I	ומ	Turkidit.
Lead Supervisor: Lead Operator		WORLEY IS ONEAL	Readings: 800	flow back	Volts/Amps 100	рН 6.35	Turbidity 0.87
Crew		GIE WHITE	1000		100	6.43	1.23
5,5,		GIE WHITE	1200	-	100	7.12	2.1
			1400		100	6.97	1.87
			0:00		N/A	N/A	N/A
j			0:00		N/A	N/A	N/A
[			Chemical	Usage	Start Inv.	End Inv.	On Order
ļ [			HcL Acid	260	4,481	4,221	
			Sodium Hydroxide	285	2,800	2,515	
Visitors:	LAR	RY ONEAL		ļ	<b> </b>		
Visitors: Visitors:							<u> </u>
VISILOIS.				<u> </u>	<u> </u>		
Were there any abn	ormal operat	tional issues onsite?	?			<del></del>	
NO							
	onal supplie	s/equipment needed	1? If so, what items and v	when?			
NO							
Have there been an	v obonece to	the ourrent cabe	le, including volumes ne	adad by elic-	12		
NO	y changes to	me current schedu	re, including volumes ne	eueu by clien	LI		
			·				
Has client provided	any operation	onal feedback (positi	ive or negative)?				
Person:			Company:			хто	
N/A							_
Additional Cor	nments			·			
ARRIVED ON LOCA	TION AT 6:00		ASTARTED PROCESSII				
			IING ELSE WENT WELL	WITH MINOR A	ADJUSTMENTS T	O CHEMICAL	.S
POISIDEN TANK HA	IS APPROX.3	35,000 BBLS. IN IT A	S OF TODAY.				

Date:	7/	17/2012		Report	Number:	<del></del>	42
Date.	'/	17/2012			Number:	*****	8
Client:		XTO		S	hift Onsite Time:	6:00	am/pm
Location:	N	lash 29		S	hift Offsite Time:	2:00 PM	am/pm
Site Contact:		Jackson				6	Total hrs.
Site Contact:	Pai	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Today:	6 hrs	Cumulativ	ve Processing	Hrs:	139	hrs
BBLS Processe		2,352 bbls		e BBLS Proce		55,32	20 bbls
BBLS/Hr Prod	essed:	392	Cumulative	BBLS/Hr Proc	essed:	398.0 bbl/hr	
10 10		WORLEY			T		1
Lead Supervisor: Lead Operator		WORLEY IS ONEAL	Readings:	flow back	Volts/Amps	pH C 7C	Turbidity
Crew		GIE WHITE	800 1000		100	6.75 7.12	1.32 1.45
CIEW	INLO.	SIL WITTE	1200		100	6.88	0.98
			N/A	<u> </u>	N/A	N/A	N/A
	<u> </u>		0:00	1	N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	205	4,221	4,016	
Vielteer	LADI	ONE AL	Sodium Hydroxide	180	2,515	2,335	
Visitors: Visitors:		RY ONEAL E HARRIS		+			
Visitors:		EN TIPDEN	1-54M AM	<u> </u>			
	<del></del>			1	1		
Were there any abn	ormal operat	ional issues onsite	?				
NO							
A Ab			1015 1 474	1			
NO	ional supplie	s/equipment needed	d? If so, what items and	when?			
Have there been an	y changes to	the current schedu	le, including volumes ne	eded by client	?		
NO			<del>-</del>				
Has client provided	any operation	nal feedback (posit		T	·		
Person:			Company:	1	<u> </u>	хто	
1147							
Additional Co	mments						
ARRIVED ON LOCA	TION AT 6:00		ASTARTED PROCESSII				
SHUT DOWN FOR I	PUMP TO CA	TCH UP POSIEDE	EN TANK IS 14" FROM TH	HE TOP AND S	HOULD HAVE AI	ROUND 37,28	0 BBLS
WELL WITH MINOR			OMMENDED WE STAY A	AROUND 12" F	KUM INE IUP	EVERYIHIN	3 ELOE WENI
1		, C C. ILIMIONE					

Date:	7/	18/2012		Report	Number:	-	43
					lumber:		8
Client:		XTO		S	hift Onsite Time:	6:00	am/pn
Location:	N	lash 29		S	hift Offsite Time:	6:00 PM	am/pr
Site Contact:		Jackson				0	Total h
Site Contact:		ul Worley		Present	Onsite Activities:	PROCES	SS WATER
STAND BY	WAI	IING ON	FRAC			<u></u>	
Processing Hrs 1		0 hrs		ve Processing		139	hrs
BBLS Processed	<del></del>	0 bbls		e BBLS Proces		55,320 bbls	
BBLS/Hr Proces	sed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	398.0	bbl/hr
Lead Supervisor:	PAUI	WORLEY	Readings:	flow back	Volts/Amps	pН	Turbidi
Lead Operator			800		N/A	N/A	N/A
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 Ord
			HcL Acid	0	4,016	4,016	
			Sodium Hydroxide	0	2,335	2,335	
Visitors:							
Visitors:							
Visitors:							<u> </u>
ere there any abnor	mal opera	tional issues onsite	?				
0							
re there any additior	al supplie	s/equipment neede	d? If so, what items and	when?			
^							
0							
			ule, including volumes ne	eded by client	?		
ave there been any o	hanges to	the current schedu					
ave there been any o	hanges to	the current schedu					
ave there been any o	changes to	the current schedu					
ave there been any o	changes to	the current schedu					
ave there been any o			tive or negative)?				
			tive or negative)?  Company:	<u> </u>		ХТО	
ave there been any o						хто	
ave there been any o						хто	

Date:	7/	19/2012		Banar	Number:		44	
Date:		19/2012			Number:		8	
			!					
Client:		хто	ı		hift Onsite Time:	16:00	am/pm	
Location:	- N	lash 29			hift Offsite Time:	9:00 PM	am/pm	
Site Contact:		Jackson			int onsite rine.	3	Total hrs.	
Site Contact:	Pai	ul Worley		Present	Onsite Activities:	PROCES	SS WATER	
Processing Hr	s Today:	3 hrs	Cumulativ	e Processing	Hrs:	142	hrs	
BBLS Processe	d Today:	1,141 bbls	Cumulative	BBLS Proces	ssed:	56,46	51 bbls	
BBLS/Hr Prod	essed:	380.3333333	Cumulative	BBLS/Hr Proc	essed:	397.6 bbl/hr		
Lead Supervisor:		WORLEY	Readings:	flow back	Volts/Amps	pH	Turbidity	
Lead Operator Crew	CHR	IS PERRY	800 1000		100 N/A	7.2 N/A	2.34 N/A	
Crew			1200		N/A N/A	N/A 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:							<u> </u>	
Word there any abn	ormal operat	tional issues ensite?	)		***			
NO	ormai operai	tional issues onsite?			<del>.</del>			
Are there any addit	ional supplie	s/equipment needed	? If so, what items and v	when?				
NO								
	y changes to	the current schedul	le, including volumes ne	eded by client	?			
INO								
Has client provided	any operation	onal feedback (positi	ve or negative\?		<u> </u>	<u> </u>		
Person:	-iij operatit	ioodbaok (positi	Company:			хто		
N/A				<b></b>				
Additional Co				-				
			TANKS WERE FULL AND					
EMPTYWE ARRIV		ATION AROUND 4 PI	M AND GOT TANKS DOV	VN SO THEY V	VOULD NOT OVE	R FLOW ANY	MORE.	

	77 /	20/2012	1	Dame	Number:		4 E
Date:	//.	20/2012			Number:		45
				Unit	lumber:		8
Client:		хто		s	hift Onsite Time:	9:00	am/pm
Location:	N	lash 29			hift Offsite Time:	5:00 PM	am/pm
Site Contact:		Jackson				7	Total hr
Site Contact:	Pai	ul Worley		Present	Onsite Activities:	PROCES	S WATER
		T					
Processing Hr		7 hrs		e Processing		149	hrs
BBLS Processe		2,136 bbls		BBLS Proces			7 bbls
BBLS/Hr Proc	cessed:	305.1428571	Cumulative	BBLS/Hr Proc	essed:	393.3	bbl/hr
Lead Supervisor:	PAUL	WORLEY	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator	CHR	IS PERRY	1200		100	6.82	1.43
Crew			1400		100	6.66	1.65
			1600		100	6.54	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	220	3,871	3,651	
			Sodium Hydroxide	180	2,215	2,035	
Visitors:							
Visitors:							
Visitors:							
ere there any abn	ormal operat	ional issues onsite					
ere there any abn	ormal operat	ionai issues onsite					
0	•			whom?			
0	•		? If so, what items and v	vhen?			
ore there any addit	•			vhen?			
re there any addit	ional supplie	s/equipment needec	? If so, what items and v		?		
re there any addit	ional supplie	s/equipment needec			?		
re there any addit	ional supplie	s/equipment needec	? If so, what items and v		?		
re there any addit	ional supplie	s/equipment needec	? If so, what items and v le, including volumes ne we or negative)?		?		
re there any addit	ional supplie	s/equipment needec	? If so, what items and v		?	хто	
re there any addit	ional supplie	s/equipment needec	? If so, what items and v le, including volumes ne we or negative)?		?	хто	
re there any addit	ional supplie by changes to l any operatio	s/equipment needec	? If so, what items and v le, including volumes ne we or negative)?		?	хто	
re there any addit	ional supplie by changes to l any operation	s/equipment needed the current schedu	i? If so, what items and vile, including volumes ne	eded by client			
ave there been and as client provided Person:  A  Additional Cor	ional supplie  y changes to  l any operation	s/equipment needed the current schedu onal feedback (posit	? If so, what items and v le, including volumes ne we or negative)?	eded by client	SOME VALVES TH	HAT LEAKV	

		/21/2012	I	Dancet	Number:		46
Date:		/21/2012			Number:		8 8
				O III, I	iumber.		
Client:		хто		S	hift Onsite Time:	9:00	am/pm
Location:	ı	Nash 29			hift Offsite Time:	5:00 PM	am/pm
Site Contact:	Вс	Jackson				0	Total hrs.
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	S WATER
STAND BY	1						
Processing Hrs		0 hrs	Cumulativ	e Processing	Hrs:	149	hrs
BBLS Processed	Today:	0 bbls	Cumulative	BBLS Proces	sed:	58,59	7 bbls
BBLS/Hr Proce	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	393.3 bbl/hr	
Lead Supervisor:	PAL	L WORLEY	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator			1200	non pack	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
<b> </b>			0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
F					·		<del></del>
F		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	3,651	3,651	
L			Sodium Hydroxide	0	2,035	2,035	
Visitors:			,		· ·		
Visitors:			W-W-7				
Visitors:							
	rmal opera	tional issues onsite	?				
	ormal opera	tional issues onsite	?				
	ormal opera	tional issues onsite	?				
	ormal opera	tional issues onsite	?				
NO							
NO  Are there any addition			? d? If so, what items and v	when?			
NO  Are there any addition				when?			
Were there any abno NO  Are there any addition				when?			
NO  Are there any addition	onal supplie	es/equipment neede	d? If so, what items and v				
Are there any addition	onal supplie	es/equipment neede			?		
Are there any addition NO Have there been any	onal supplie	es/equipment neede	d? If so, what items and v		?		
Are there any addition NO Have there been any	onal supplie	es/equipment neede	d? If so, what items and v		?		
Are there any addition NO Have there been any	onal supplie	es/equipment neede o the current schedi	d? If so, what items and v		?		
Are there any addition NO Have there been any	onal supplie	es/equipment neede o the current schedi	d? If so, what items and vule, including volumes ne		?		
Are there any addition NO  Have there been any NO  Has client provided Person:	onal supplie	es/equipment neede o the current schedi	d? If so, what items and v		?	хто	
Are there any addition NO Have there been any NO Has client provided Person:	onal supplie	es/equipment neede o the current schedi	d? If so, what items and vule, including volumes ne		?	хто	
Are there any addition NO Have there been any	onal supplie changes to any operati	es/equipment neede o the current schedi	d? If so, what items and vule, including volumes ne		?	ХТО	

Date:	7/2	2/2012		Report	Number:		47
				Unit N	lumber:		8
		<u></u>	i		L:6 0 11 #1	0.00	
Client:		XTO			hift Onsite Time:	9:00	am/pm
Location:		ash 29		3	hift Offsite Time:	5:00 PM 0	am/pm Total hrs
Site Contact:		Jackson Il Worley		Present	Onsite Activities:	<del>-</del>	SS WATER
STAND BY		ii vvoney		1 Teschit	Onsite Activities.	TROOLS	JO VIII LIK
Processing Hrs		0 hrs	Cumulativ	re Processing	Hrs:	149	hrs
BBLS Processed		0 bbls		BBLS Proces			7 bbls
BBLS/Hr Proce		#DIV/0!		BBLS/Hr Proc			bbl/hr
Lead Supervisor:	PAU	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
F			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:							L
Vere there any abno	rmal operati	ional issues onsite	?				
10	mai operati	ional issues onsite	•				
						· · · · · · · · · · · · · · · · · · ·	
Are there any addition	nal supplies	s/equipment neede	d? If so, what items and v	when?			
ve there any addition	nal supplies	s/equipment neede	d? If so, what items and v	when?			
	onal supplies	s/equipment neede	d? If so, what items and v	when?			
10							
NO lave there been any			d? If so, what items and v		?		
10					?		
NO lave there been any					?		
lave there been any	r changes to	the current schedu	ale, including volumes ne		?		
lave there been any	r changes to	the current schedu	ale, including volumes ne		;? 	VIO	
lave there been any	r changes to	the current schedu	ale, including volumes ne		?	XTO	
lave there been any	r changes to	the current schedu	ale, including volumes ne		?	хто	
lave there been any	changes to	the current schedu	ale, including volumes ne		?	хто	

Date:	7/	23/2012	Г	Renort	Number:		48
Date.		23/2012			lumber:		8
Client:		XTO	[	S	hift Onsite Time:	9:00	am/pm
Location:	N	ash 29		SI	hift Offsite Time:	5:00 PM	am/pm
Site Contact:	Во	Jackson				0	Total hrs
Site Contact:		ul Worley	Į.	Present	Onsite Activities:	PROCES	S WATER
STAND BY	,						
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	149	hrs
BBLS Processed	Today:	0 bbls	Cumulative	BBLS Proces	ssed:	58,59	7 bbls
BBLS/Hr Proce	ssed:	#DIV/0!	Cumulative I	BBLS/Hr Proc	essed:	393.3	bbl/hr
Lead Supervisor:	PAUL	WORLEY	Readings:	flow back	Volts/Amps	pH	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
<u> </u>			N/A		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
Γ							
			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:							
Vere there any abno	rmal operat	tional issues onsite	?		CONTRACTOR .		
Are there any additio	nal supplie	s/equipment neede	d? If so, what items and v	vhen?			
NO Have there been any			d? If so, what items and w		?		
NO	changes to	the current schedu	ule, including volumes ne		?		
lave there been any	changes to	the current schedu	ule, including volumes ne		?	XTO	
lave there been any	changes to	the current schedu	ule, including volumes ned		?	XTO	

	<del>.</del>				/*		
Date:	7/	24/2012			Number:		49
				Unit i	lumber:		8
Client:		XTO		-	hift Onsite Time:	9:00	am/pm
Location:		lash 29		S	hift Offsite Time:	5:00 PM	am/pm
Site Contact:		Jackson				0	Total hrs.
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
STAND B	Υ						
Processing Hr	s Today:	0 hrs	Cumulativ	e Processing	Hrs:	149	hrs
BBLS Processe	d Today:	0 bbls	Cumulative	e BBLS Proces	ssed:	58,59	97 bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	393.3	bbl/hr
Lead Supervisor:	ΡΔΙΙ	WORLEY	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator	1 70	LIIONEET	1200	11044 Dack	N/A	N/A	N/A
Crew			1400		N/A	N/A	N/A
CIEW	····		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
			0.00		1		14,11
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	3,651	3,651	
L			Sodium Hydroxide	0	2,035	2,035	
Visitors:							
Visitors:			<del></del>				
Visitors:							
				·····			
Were there any abn	ormal opera	tional issues onsite	?				
NO	ormai opera	Honar Issues Chaite	1				
Are there any additi	ional sunnlie	s/equipment neede	d? If so, what items and v	when?			
NO	onal Supplie	srequipment neede	ar ii so, what items and i	WIIGHT			
Have there been an	v changes to	the current schedu	ıle, including volumes ne	eded by client	?		
NO	y ongoo						
Has client provided	any operation	onal feedback (posit	tive or negative)?				
Person:	•		Company:			XTO	P
N/A				•			
Additional Cor	nments						
STAND BY WAITING		-					

Date:	7/	25/2012	1	Report	Number:		50
Date.	<u> </u>	23/2012			lumber:		8
			•				
Client:		XTO	[	S	hift Onsite Time:	9:00	am/pi
Location:		lash 29		S	hift Offsite Time:	5:00 PM	am/pi
Site Contact:		Jackson				0	Total h
Site Contact:		ul Worley	l	Present	Onsite Activities:	PROCES	SS WATER
STAND B	Υ						
Processing Hr		0 hrs		e Processing		149	hrs
BBLS Processe		0 bbls		BBLS Proce			7 bbls
BBLS/Hr Proc	cessed:	#DIV/0!	Cumulative I	BBLS/Hr Proc	essed:	393.3	bbl/hr
Lead Supervisor:	PAUL	WORLEY	Readings:	flow back	Volts/Amps	рH	Turbid
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 Ord
	<del></del>		HcL Acid	0	3,651	3,651	
	<u> </u>		Sodium Hydroxide	0	2,035	2,035	
Visitors:	1						
Visitors:							
Visitors:							
	normal operat	tional issues onsite	<u> ?                                     </u>				
10							
	ional supplie	s/equipment neede	d? If so, what items and w	vhen?			
	ional supplie	s/equipment neede	ed? If so, what items and w	vhen?			
ve there any addit	ional supplie	s/equipment neede	d? If so, what items and w	vhen?			
ve there any addit							
we there any addit IO lave there been an			ed? If so, what items and w		?		
ve there any addit					?		
we there any addit IO lave there been an	ny changes to	the current sched	ule, including volumes ne		?		
we there any addit IO lave there been an IO	ny changes to		ule, including volumes ned		?	XTO	
we there any addit IO lave there been an	ny changes to	the current sched	ule, including volumes ne		?	хто	
are there any addit IO lave there been and IO las client provided Person:	ny changes to	the current sched	ule, including volumes ned		?	XTO	
are there any addit IO lave there been and IO las client provided Person:	ny changes to	the current sched	ule, including volumes ned		?	XTO	

Date:	7/	26/2012		Poport	Number:		51
Date.		20/2012			Number:		8
Client:		XTO		S	hift Onsite Time:	9:00	am/pm
Location:	N	lash 29		S	hift Offsite Time:	5:00 PM	am/pm
Site Contact:	Во	Jackson				0	Total hrs.
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
STAND BY	•						
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	149	hrs
BBLS Processed		0 bbls	Cumulative	e BBLS Proce	ssed:	58,59	97 bbls
BBLS/Hr Proce	ssed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	393.3	bbl/hr
Load Supanda	DALII	L WORLEY	Poodings:	flow book	Valta/Amma	n <sup>U</sup>	Turbidity
Lead Supervisor:	PAUI	LVVURLET	Readings: 1200	flow back	Volts/Amps	pH	
Lead Operator				<del> </del>	N/A	N/A	N/A N/A
Crew			1400	-	N/A N/A	N/A N/A	N/A N/A
<u> </u>			1600				<del> </del>
<u> </u>			N/A		N/A	N/A	N/A
ļ			0:00	<b></b>	N/A	N/A	N/A
<b> -</b>			0:00	l	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:							
Visitors:							
Visitors:							
		•					
Were there any abno	rmal opera	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 clien	t?		
NO	· · ·						
Has client provided a	any operation	onal feedback (posi			T-		
Person:			Company:		1	ХТО	
N/A							
Additional Com	ments				··· ·		
STAND BY WAITING							

Date:	8/	/1/2012		Report	Number:		52	
•					lumber:		8	
Client:		XTO			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 hr	
Site Contact:	Jas	on Distall		Present	Onsite Activities:	PROCES	SS WATER	
Processing Hr		0 hrs	Cumulativ	re Processing	Use.	149	hrs	
BBLS Processe		0 bbls		BBLS Proces			7 bbls	
BBLS/Hr Proc		#DIV/0!		BBLS/Hr Proc	+		bbl/hr	
BBL3/III F100	esseu.	#51470:	Cumulative	BBL3/HI PIOC	esseu.	353.3	ווויוטט	
Lead Supervisor:	2cl.	on Distall	Readings:	flow back	Volts/Amps	Нq	Turbidit	
Lead Operator		J. Diotali	1200	110 TO DOCK	N/A	N/A	N/A	
Crew	Eddie	e McGruder	1400	, ,,	N/A	N/A	N/A	
		nmy Dean	1600		N/A	N/A	N/A	
		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	
İ			HcL Acid	0	3,651	3,651		
·			Sodium Hydroxide	67	2,035	1,968		
Visitors:			, , , , , , , , , , , , , , , , , , , ,					
Visitors:								
Visitors:								
ere there any abn	ormal operat	tional issues onsite	9?					
e there any additi	onal supplie	s/equipment neede	ed? If so, what items and v	when?				
)		•						
ve there been an	y changes to	the current sched	ule, including volumes ne	eded by client	?			
ve there been an	y changes to	the current sched	ule, including volumes ne	eded by client	?			
ve there been an				eded by client	?			
ve there been an		o the current sched		eded by client	?	хто		
os client provided			itive or negative)?	eded by client	?	хто		

Date:	Q/	2/2012		Report	Number:		53
Date.		2/2012			Number:		8
			•				
Client:	-	ХТО		S	hift Onsite Time:	5:30	am/pm
Location:	N	ash 29		S	hift Offsite Time:	4:00 PM	am/pm
Site Contact:		Jackson				10.5	Total hrs
Site Contact:	Jaso	on Distall		Present	Onsite Activities:	PROCES	S WATER
Processing Hrs	Today:	3 hrs	Cumulativ	e Processing	Hrs:	152	hrs
BBLS Processe		1,392 bbls		BBLS Proces		59,98	9 bbls
BBLS/Hr Proc		464		BBLS/Hr Proc		394.7	bbl/hr
Lead Supervisor:	Jasi	on Distall	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		5.0.0	1200		20v 100a	7.05	3.32
Crew	Eddie	McGruder	1400		N/A	N/A	N/A
		ımy Dean	1600		20v 100a	7.03	3.27
ļ		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	143	3,651	3,508	
•			Sodium Hydroxide	117	1,968	1,851	
Visitors:							
Visitors:							
Visitors:							
loro thoro any ahn	ormal anarat	ional issues onsite?	<u> </u>				
es, the power sourc	e was fluctua	ting, the lost power.				4-01-	
re there any additi O	onal supplies	s/equipment needec	I? If so, what items and v	when?			
ave there been an	y changes to	the current schedu	le, including volumes ne	eded by client	17		
0		·					
as aliant provided	any anaratio	nal feedback (posit	ivo or nogotivo)?				
Person:	any operation	ina reedback (posit	Company:		[	XTO	
				<u> </u>			
0							

Date:	8/	/3/2012		Report	Number:	_	54
				Unit I	lumber:		8
Client:		XTO		S	hift Onsite Time:	5:30	am/pm
Location:	N	ash 29		S	hift Offsite Time:	4:00 PM	am/pm
Site Contact:	Во	Jackson				10.5	Total hrs.
Site Contact:	Chad	d Edwards		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr		6 hrs	Cumulativ	ve Processing	Hrs:	158	hrs
BBLS Processe	ed Today:	3,351 bbls	Cumulativ	e BBLS Proces	ssed:	63,34	40 bbls
BBLS/Hr Proc	essed:	558.5	Cumulative	BBLS/Hr Proc	essed:	400.9	bbl/hr
Lead Supervisor:	Char	d Edwards	Readings:	flow back	Volts/Amps	pH	Turbidity
Lead Operator		on Distall	1200	HOW DACK	20v 100a	6.99	3.29
Crew		McGruder	1400	<del> </del>	N/A	0.99 N/A	N/A
CIEW		nmy Dean	1500	1	20v 100a	7.03	3.18
		ay Lee	N/A		N/A	N/A	N/A
	- ''	ay Loc	0:00		N/A	N/A	N/A
			0:00		N/A	N/A	N/A
			<u></u>	I			
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	345	3,508	3,163	
'			Sodium Hydroxide	361	1,851	1,490	
Visitors:	Во	Jackson					
Visitors:							
Visitors:				1			
Were there any abn	ormal operat	ional issues onsite	?				
No							
Ann thorn only additi	ional aumalia	-/	do if an order itams and	b.a.m.2			
Yes, supply list will b			d? If so, what items and	witen			
			ile, including volumes ne		?		
vve are illilited to ap	proximately 2,	OOO bbis/day incomin	ng produced water do to po	ower outages.			
Use client provided	l any operatio	onal feedback (posit	tivo or nogativo\2				
Person:	any operation	mai leedback (posii	Company:	T	<u> </u>	XTO	
No			Joinpany.	<u> </u>	<u> </u>	λ10	
Additional Co	mmonts						
		i an occasional minor a	adjustment is needed. Inc	reased rate to 4	110 apm without e	effecting the w	ater quality
Due to power outage	es in the area,	Bo Jackson reported	d that XTO is currently only sure how much we will be	y producing abo	out 2,000 bbls/day	. We had to s	shut down

İ							
Data		/4/2012		Banan	Mumban		
Date:	8,	/4/2012			Number:		55 8
				<u> </u>	tumber.		0
		· · · · · · · · · · · · · · · · · · ·					
Client:		XTO			hift Onsite Time:	2:30	am/pm
Location:		lash 29		<u>s</u>	hift Offsite Time:	2:00 PM	am/pm
Site Contact: Site Contact:		Jackson d Edwards		Descent	O	11.5	Total hrs.
Site Contact:	Cila	u Euwaius		Present	Onsite Activities:	PROCES	35 WATER
Processing Hr	e Today:	8.75 hrs	Cumulativ	e Processing	Hre	166.79	5 hrs
BBLS Processe		4,903 bbls		BBLS Proces			3 bbls
BBLS/Hr Prod		560.3428571		BBLS/Hr Proc			bbl/hr
5525,	, , , , , , , , , , , , , , , , , , ,	000:04200:1	- Januaryo	BB20//// 1100		400.0	55011
Lead Supervisor:	Cha	d Edwards	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		on Distall	06:00		20v 100a	7.1	4.25
Crew		e McGruder	10:00		20v 100a	7.08	4.03
		nmy Dean	12:30		20v 100a	7.03	3.25
	F	Ray Lee	N/A		N/A	N/A	N/A
	K	en Ehler	N/A		N/A	N/A	N/A
	Ada	ım Pollard	N/A		N/A	N/A	N/A
	Eli	Tangura					
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	505	3,163	2,658	
			Sodium Hydroxide	508	1,490	982	
Visitors:	Во	Jackson					
Visitors:							
Visitors:					ļ. l		
	<del></del>						
More there any abr	ormal anarat	tional issues onsite?	)				
No	ormai opera	tional issues offsite i					
1							
Are there any addit	ional supplie	s/equipment needed	? If so, what items and v	when?			
No, supplies on orde		•	,	-14			
Have there been an	y changes to	the current schedul	le, including volumes ne	eded by client	?		
			g produced water do to po	ower outages, h	nowever, Bo Jacks	son expects th	at to change
and hopes to have to	anks full by 2:	30 am.					
			·				
		onal feedback (positi		T	1		
Person:		Bo Jackson	Company:			XTO	
on returning rate up	•		ve are currently limited by	our incoming s	upply of produced	i water. He na	is been working
Additional Cor	-						
			h pH and turbidity are stat				
			ater depending on electric			•	
			ipating full tanks. We are ecycling for the upcoming				
water rate returns.	scycle localion	i. vve wiii complete fe	scycling for the upcoming	rrac arr <del>e</del> au of S	chedule as long a	is the incoming	j produced
The rate rotario.							

Date:	8,	/5/2012		Report	Number:	;	56
				Unit	Number:		8
Client:		XTO			hift Onsite Time:	6:00	am/pm
Location:		lash 29		s	hift Offsite Time:	4:00 PM	am/pm
Site Contact:		Jackson		D	11.5	Total hrs. OCESS WATER	
Site Contact:	Cha	d Edwards		Present	Onsite Activities:	PROCES	SWATER
Processing Hr	s Today:	6 hrs	Cumulativ	re Processing	Hrs:	172.75	hrs
BBLS Processe		3,263 bbls		BBLS Proces		71.50	6 bbls
BBLS/Hr Prod		543.8333333		BBLS/Hr Proc			bbl/hr
Lead Supervisor:	Cha	d Edwards	Readings:	flow back	Volts/Amps	рH	Turbidity
Lead Operator			08:00		20v 100a	7.1	5.12
Crew	Eddie	McGruder	10:00		20v 100a	7.09	4.03
	San	nmy Dean	12:30		20v 100a	7.11	4.05
	F	Ray Lee	N/A		N/A	N/A	N/A
	Ke	en Ehler	N/A		N/A	N/A	N/A
	Ada	ım Pollard	N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	326	2,658	2,332	
'			Sodium Hydroxide	331	982	651	
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
<b>Vere there any abn</b> No	ormal operat	tional issues onsite	?				
<b>1</b> 0							
		s/equipment needed	d? If so, what items and v	when?			
		s/equipment needed	d? If so, what items and v	when?		***	
Are there any additi No, supplies on orde		s/equipment needed	1? If so, what items and v	when?			
lo, supplies on orde	er		d? If so, what items and v		17		
lo, supplies on orde	er				17		
lo, supplies on orde	er				17		
lo, supplies on orde	y changes to		ile, including volumes ne		17		
lo, supplies on orde	y changes to	the current schedu	ile, including volumes ne		17	хто	
lo, supplies on orde lave there been an	y changes to	the current schedu	ile, including volumes ne		17	хто	
lo, supplies on orde	y changes to	the current schedu	ile, including volumes ne		17	хто	
ave there been an o as client provided Person: Additional Cor	y changes to any operation	o the current schedu onal feedback (posit	ile, including volumes ne		17	хто	

Date:	8/	/6/2012		Report	Number:		57
				Unit I	Number:		8
Client:		XTO		S	hift Onsite Time:	5:30	am/pm
Location:	N	lash 29		S	hift Offsite Time:	7:30 PM	am/pm
Site Contact:	Во	Jackson				11.5	Total hrs.
Site Contact:	Cha	d Edwards		Present	Onsite Activities:	PROCES	SS WATER
Processing Hr		10.5 hrs	Cumulativ	ve Processing	Hrs:	183.2	5 hrs
BBLS Processe		5,060 bbls	Cumulativ	e BBLS Proce	ssed:	76,56	6 bbls
BBLS/Hr Proc	essed:	481.9047619	Cumulative	BBLS/Hr Proc	essed:	417.8	bbl/hr
Lood Sumamisan	Cha	d Edwards	Dan din	fl. bl			T 1:1:
Lead Supervisor:		d Edwards	Readings:	flow back	Volts/Amps	pH	Turbidity
Lead Operator Crew		nmy Dean e McGruder	08:00	<u> </u>	20v 100a 20v 100a	7.1	2.58
CIEW		Ray Lee	14:00		20v 100a 20v 100a	7.01	2.25
}		hris Ray	16:00		20v 100a 20v 100a	7.03	1.89
ŀ		nald White	N/A	<del> </del>	20v 100a	7.03	1.92
ŀ		Tions TYTHES	N/A		N/A	N/A	N/A
İ			14.1	L	1 14/1	14/11	,,,,
ľ	****		Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	512	2,332	1,820	
			Sodium Hydroxide	379	651	272	
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
****		-					
<b>Were there any abn</b> No	ormal operat	tional issues onsite	?				
NO							
			·				
Are there any additi	onal supplies	s/equipment needed	d? If so, what items and v	when?			
		vill begin receiving to					
Have there been any	y changes to	the current schedu	le, including volumes ne	eded by client	?		
We will be running a	split shift on a	a trial basis tomorrow	<ul> <li>Bo Jackson will be out F</li> </ul>	riday-Monday;	so in order to cap	ture as much	water as
oossidie, we will run i	morning and e	evening shifts at his s	suggestion.				
	any operatio	onal feedback (posit		r	<b></b>		
Person:			Company:	L		XTO	
Additional Con							
We have a total of 28	3,100 bbls trea		ocoming frac on the 9th. Seeded until all tanks are fu				

	1						
Date:	8/	7/2012			: Number:		58
				Unit I	Number:		8
Client:		хто			hift Onsite Time:	6:00	am/pm
Location:	N	ash 29			hift Offsite Time:	12:00 PM	am/pm
Site Contact:		Jackson			init offsite finite.	18	Total hrs.
Site Contact:		ıl Worley		Present	Onsite Activities:		SS WATER
Processing Hr		11 hrs		e Processing		194	
BBLS Processe		5,560 bbls		BBLS Proce		82,126 bbls	
BBLS/Hr Prod	essed:	505.4545455	Cumulative	BBLS/Hr Proc	essed:	423.3	B bbl/hr
Lead Supervisor:	Pau	ıl Worley	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator	Sam	nmy Dean	08:00		100	6.89	1.43
Crew	Eddie	McGruder	10:00		100	6.93	0.89
		ay Lee	14:00		100	7.12	0.93
		nris Ray	16:00		100	7.24	1.23
	Regii	nald White	18:00		100	7.1	1.56
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Or <b>d</b> er
			HcL Acid	375	3,750	3,375	eceived 4000 g
			Sodium Hydroxide	420	1,200	780	Yes
Visitors:	Во	Jackson					
Visitors:							
Visitors:							1
	ormal operat	ional issues onsite	?				
<b>Vere there any ab</b> n No	ormal operat	ional issues onsite	7				
	ormal operat	ional issues onsite	?				
No	•						
No	•		? 17 If so, what items and v	vhen?			
No	•			vhen?			
No Are there any addit	ional supplie:	s/equipment needed	d? If so, what items and v				
Are there any addit	ional supplie	s/equipment needed	1? If so, what items and v		.7		
Are there any addit	ional supplie	s/equipment needed the current schedu	1? If so, what items and v		.7		
Are there any addit	ional supplies y changes to ET DIRTY TA	s/equipment needed the current schedu NKS FILL IN BETWE	1? If so, what items and v le, including volumes ne EEN SHIFTS.		??		
Are there any addit	ional supplies y changes to ET DIRTY TA	s/equipment needed the current schedu	1? If so, what items and v le, including volumes ne EEN SHIFTS.		?	хто	
Are there any addit Have there been an SPLIT SHIFTS TO L	ional supplies y changes to ET DIRTY TA	s/equipment needed the current schedu NKS FILL IN BETWE	1? If so, what items and volumes ne EEN SHIFTS.		.?	XTO	
Are there any addit Have there been an SPLIT SHIFTS TO L	y changes to ET DIRTY TA	s/equipment needed the current schedu NKS FILL IN BETWE	1? If so, what items and volumes ne EEN SHIFTS.		?	XTO	

	8/	/8/2012		Report	Number:		59
					Number:		8
0" 1		VT0					· · · · · · · · · · · · · · · · · · ·
Client:		XTO			hift Onsite Time:	6:00	am/pm
Location: Site Contact:		lash 29		s	hift Offsite Time:	1:00 AM	am/pm
Site Contact:		Jackson J Worley		Present	Onsite Activities:	19 BBOCE	Total hrs. SS WATER
One Comaci.		al vvolley		Present	Onsite Activities.	PROCE	33 WATER
Processing Hr	s Today:	12 hrs	Cumulativ	e Processing	Hrs:	206	hrs
BBLS Processe		4,126 bbls	Cumulative	e BBLS Proce	ssed:	86,2	52 bbls
BBLS/Hr Prod	essed:	343.8333333	Cumulative	BBLS/Hr Proc	essed:	418.7	bbl/hr
Lead Supervisor:	Pau	ıl Worley	Readings:	flow back	Volts/Amps	pH	Turbidity
Lead Operator		en Erler	08:00		100	7.21	1.87
Crew	Eddie	McGruder	10:00		100	7.45	0.78
	R	ay Lee	14:00		100	6.89	0.69
		ris Perry	16:00		100	7.33	0.56
	Regir	nald White	18:00		100	7.1	1.34
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
l			HcL Acid	300	3,750	3,450	eceived 4000 ga
			Sodium Hydroxide	335	3,280	2,945	ceived 2500 ga
Visitors:	Во	Jackson			L		
Visitors:							
Visitors:					L		
<b>Vere there any abn</b> No	ormal operat	ional issues onsite	?		1.4		
Are there any additi	onal supplies	s/equipment needed	1? If so, what items and v	when?			
		the current schedu NKS FILL IN BETWE	ile, including volumes ne EEN SHIFTS.	eded by client	?		
SPLIT SHIFTS TO L		nal fandhask (nos-	ive of negative\2				
SPLIT SHIFTS TO L		nal feedback (posit			I	VTO	
SPLIT SHIFTS TO L		nal feedback (posit	ive or negative)?  Company:			хто	

Date:	8/	9/2012		Report	Number:		60
					Number:		8
			ı	-			
Client:		XTO			hift Onsite Time:	6:00	am/pr
Location:		ash 29		S	hift Offsite Time:	1:00 AM	am/pr
Site Contact:		Jackson			0 1 4 4 1 1	12	Total h
Site Contact:	Pau	Il Worley		Present	Onsite Activities:	PROCES	S WATER
Processing Hrs	s Today:	8 hrs	Cumulativ	re Processing	Hrs:	214	hrs
BBLS Processe		3,441 bbls	Cumulative		3 bbls		
BBLS/Hr Proc		430.125		BBLS/Hr Proc			bbl/hr
DDEO//// 1100	esseu.	430.123	Cumulative	DDE3/III F100	e336u	713.1	DDI/III
Lead Supervisor:	Pau	ıl Worley	Readings:	flow back	Volts/Amps	рН	Turbidi
Lead Operator		McGruder	08:00		100	6.97	1.87
Crew		ay Lee	10:00	***	100	6.78	0.78
		ris Perry	19:00		100	7.23	0.69
		nald White	21:00		100	6.89	0.56
			22:00		100	6.76	1.23
İ			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Ord
			HcL Acid	351	3,450	3,099	no
•		-	Sodium Hydroxide	374	2,945	2,571	no
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
			***				
	ormal operati	ional issues onsite	?	-			
	onal supplies	s/equipment needed	1? If so, what items and v	when?			
	onal supplies	s/equipment needed	1? If so, what items and v	when?			
e there any additi							
e there any additi ve there been an	y changes to		le, including volumes ne		?		
e there any additi	y changes to	the current schedu	le, including volumes ne		.?		
e there any additi ve there been an LIT SHIFTS TO L s client provided	y changes to ET DIRTY TA	the current schedu	le, including volumes ne EEN SHIFTS.		.7		
e there any additi ve there been an	y changes to ET DIRTY TA	the current schedu NKS FILL IN BETWE	le, including volumes ne EEN SHIFTS.		.?	хто	
e there any additi	y changes to ET DIRTY TA	the current schedu NKS FILL IN BETWE	le, including volumes ne EEN SHIFTS. ive or negative)?		?	хто	
ve there been and the second of the second o	y changes to ET DIRTY TA  any operatio	the current schedu NKS FILL IN BETWE nal feedback (posit	le, including volumes ne EEN SHIFTS. ive or negative)?	eded by client			

Date:	8/10/2012 Report Number:		61				
		,			Number:		8
Client:		XTO		S	hift Onsite Time:	6:00	am/pm
Location:		lash 29		S	hift Offsite Time:	4:00 PM	am/pn
Site Contact:		Jackson				9	Total hr
Site Contact:	Pa	ul Worley		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	s Todav:	9 hrs	Cumulativ	e Processing	Hrs:	223	hrs
BBLS Processe		3,990 bbls		BBLS Proce			33 bbls
BBLS/Hr Proc		443.3333333		BBLS/Hr Proc			bbl/hr
· · · · · · · · · · · · · · · · · · ·							
Lead Supervisor:	Pa	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator	Eddie	e McGruder	08:00		100	6.76	1.35
Crew		Ray Lee	10:00		100	6.23	1.67
		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 Orde
Ì			HcL Acid	359	2,748	2,389	no
L			Sodium Hydroxide	403	2,197	1,794	no
Visitors:	Во	Jackson	- Journal Hydroxide	100	1,201		
Visitors:			······································				
Visitors:							
ere there any abn	ormal operat	tional issues onsite	?				
)							
<del></del>		· · · · · · · · · · · · · · · · · · ·					
. 4			In it and	10			
e there any additi	onai suppiie	s/equipment needed	d? If so, what items and v	wnen?	<del></del>		
ve there been an	y changes to	the current schedu	ile, including volumes ne	eded by client	1?		
s client provided	any operation	onal feedback (posit	tive or negative)?				
Person:			Company:			XTO	

Date:	8/	11/2012		Report	Number:		62
		-1/2022			Number:		8
Client:		XTO		S	hift Onsite Time:	6:00	am/pn
Location:	N	ash 29		S	hift Offsite Time:	6:00 PM	am/pn
Site Contact:		Jackson				10	Total hr
Site Contact:	Pai	ul Worley		Present	Onsite Activities:	PROCES	S WATER
Processing Hr	s Today	10 hrs	Cumulativ	e Processing	Hre.	233	hrs
BBLS Processe		4,279 bbls		BBLS Proce			52 bbls
BBLS/Hr Prod		427.9		BBLS/Hr Proc			bbl/hr
DD20/1111100		421.0	Comulative	BBLO/III 1 100	esseu.	720.7	DDI/III
Lead Supervisor:	Pau	ul Worley	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		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
		-	61	<del></del>			
			Chemical	Usage	Start Inv.	End Inv.	On Orde
İ			HcL Acid	385	2,389	2,004	no
Visitors:	Po	Indiana	Sodium Hydroxide	411	1,794	1,383	no
Visitors:	ВО	Jackson					<del></del>
Visitors:						•	
Violetion o.	-				L	···	
ere there any abn	ormal operat	ional issues onsite	7				
e there any additi	onal supplie	s/equipment needed	d? If so, what items and v	vhen?	* t	-w	***
we there been an	y abangoo to	the current askedu	le, including volumes ne	مراع المام			
ive tilete been an	y changes to	the current schedu	ie, including volumes ne	eded by chem			
s client provided	any operation	nal feedback (posit	ive or negative)?				
s client provided Person:	any operation	nal feedback (posit	ive or negative)?  Company:			хто	

Date:	0/-	12/2012		Bonort	Number		63
Date.	0/.	12/2012			Number: Number:		8
Client:		хто			hift Onsite Time:	6:00	am/pm
Location: Site Contact:		ash 29 Jackson		S	hift Offsite Time:	6:00 PM	am/pm Total hrs.
Site Contact:		Jackson Il Worley		Present	Onsite Activities:	16 hrs	SS WATER
		,					
Processing Hr	s Today:	16 hrs	Cumulativ	e Processing	Hrs:	239	hrs
BBLS Processe	*	3,359 bbls	Cumulative BBLS Processed: 101,321 bb				
BBLS/Hr Proc	essed:	209.9375	Cumulative	BBLS/Hr Proc	essed:	423.9	bbl/hr
Lead Supervisor:	Pau	ıl Worley	Readings:	flow back	Volts/Amps	ρН	Turbidity
Lead Operator		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
	Regii	nald White	14:00		100	6.89	1.43
			16:00 N/A		100 N/A	6.76 N/A	1.56 N/A
			N/A	<u> </u>	I N/A	IN/A	IN/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	350	2,004	1,654	no
			Sodium Hydroxide	411	1,794	1,383	no
Visitors:	Во	Jackson		<u> </u>			
Visitors: Visitors:	A						
VISILOIS.				l	L		
Were there any abn	ormal operat	ional issues onsite?	)				
No							
				-11			
Are there any additi	ional supplies	s/equipment needed	? If so, what items and v	when?			
Have there been an	v changes to	the current schedul	le, including volumes ne	adad by cliant	2		
Tiave tilere peen an	y changes to	are carrent scriedar	ie, including volumes ne	eded by Chern			
	any operatio	nal feedback (positi					
Person:			Company:			ХТО	
Additional Co	mmants 1						
Additional Cor		t of trins falls 2 noin	nt contact when climbing t	in and down ct	ens and laddors. N	Aaka sura wa	use proper Dag
			lenty of fluids if feel weak				

Date:	8/	13/2012		Report	Number:		64	
					Number:		8	
Client:		XTO			hift Onsite Time:	6:00	am/pr	
Location:	N	lash 29		S	hift Offsite Time:	6:00 PM	am/pr	
Site Contact:		Jackson				12 hrs	Total h	
Site Contact:	Pai	ul Worley		Present	Onsite Activities:	PROCES	SS WATER	
Processing Hrs	Today:	12 hrs	Cumulativ	e Processing	Hrs:	235	hrs	
BBLS Processed		4,735 bbls		BBLS Proce		106,056 <b>bbl</b> s		
BBLS/Hr Proce		394.5833333	Cumulative	BBLS/Hr Proc	Processed: 451.3			
Lead Supervisor:	Pai	ul Worley	Readings:	flow back	Volts/Amps	pН	Turbidi	
Lead Supervisor:		e McGruder	08:00	HOW DACK	100	6.87	1.97	
Crew		Ray Lee	10:00		100	6.43	1.89	
		ris Perry	12:00		100	6.97	1.78	
<u> </u>		nald White	14:00		100	6.89	1.43	
<u> </u>		nara vvinto	16:00		100	6.76	1.56	
<del>-</del>			N/A		N/A	N/A	N/A	
					II	,		
			Chemical	Usage	Start Inv.	End Inv.	On Ord	
			HcL Acid	405	2,004	1,599	no	
_			Sodium Hydroxide	411	1,794	1,383	no	
Visitors:	Во	Jackson						
Visitors:								
Visitors:								
re there any abno		tional issues onsite?	? I? If so, what items and v	vhen?				
there any addition	<del></del>							
ve there been any		the current schedu	le, including volumes ned	eded by client	?	хто		

Performed our morning JSA, Weather conditions some rain, slippery and muddy. Proper PPE when handling chemicals. Watch out for your co workers. 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
Client:		XTO		S	hift Onsite Time:	6:00	am/pm
Location:	N	lash 29		Shift Offsite Time:		6:00 PM	am/pm
Site Contact:		Jackson				14 hrs	Total hrs.
Site Contact:	Sam	nmy Deam		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	Today.	14 hrs	Cumulativ	re Processing	Hre.	251	hrs
BBLS Processed		6,008 bbls		BBLS Proces		112,064 bbls	
BBLS/Hr Processed		429.1428571		BBLS/Hr Proc			bbl/hr
BBLS/HI Proce	esseu:	429.14205/1	Cumulative	BBLS/HI FIOC	esseu.	440.3	DDI/III
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		McGruder	08:00		100	6.87	1.97
Crew		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
F			16:00		100	6.76	1.56
<u> </u>			N/A		N/A	N/A	N/A
				L	.,,,,		
<u> </u>			Chemical	Usage	Start Inv.	End Inv.	On Order
F			HcL Acid	525	2,004	1,479	no
L		W	Sodium Hydroxide	598	1,794	1,196	no
Visitors:	Bo	Jackson	South Hydroxide		2,701	2,230	
Visitors:	- 50	- Cache Car					
Visitors:							
Visitors.							
	7.···				***************************************		
Mara thara any abou		tional issues onsite?					
No							
Are there any addition	onal supplie	s/equipment needed	? If so, what items and	when?			
Have there been an	, changes 4-	the current sahedul	e, including volumes ne	adad by alian	12		
nave there been any	Changes to	the current schedul	e, including volumes ne	eded by Chen			
<del></del>	any operation	onal feedback (positi					
Person:			Company:		L	XTO	
Additional Con	nments						
Performed our morni	ng ISA Prop	or PPF when handling	chemicals. Team work he	In each other o	ut know where o	ir musting are	lit? OTX si co

Performed our morning JSA, Proper PPE when handling chemicals. Team work help each other out know where our musting area is. XTO Still 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
	•			<del></del>	lumber:		8
0114	-	VT0			L'6 O . 7 . T	6.00	
Client:		XTO			hift Onsite Time:	6:00	am/pr
Location: Site Contact:		ash 29		3	hift Offsite Time:	6:00 PM 16 hrs	am/pr Total h
Site Contact:		Jackson Imy Deam		Procent	Onsite Activities:		S WATER
Site Contact.	San	iny beam		Present	Onsite Activities.	PROCES	S WATER
Processing Hrs	Today:	16 hrs	Cumulativ	re Processing	Hrs:	267	hrs
BBLS Processed		7,282 bbls		BBLS Proce		119,3	46 bbls
BBLS/Hr Proce	essed:	455.125	Cumulative	BBLS/Hr Proc	essed:	447.0	bbl/hr
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbid
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
L	· · · · · · · · · · · · · · · · · · ·		16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
Ĺ			Chemical	Usage	Start Inv.	End Inv.	On Ord
L			HcL Acid	525	2,004	1,479	no
			Sodium Hydroxide	598	1,794	1,196	no
Visitors:	Во	Jackson					
Visitors:							
Visitors:				,.			
ere there any abno	ormal operat	ional issues onsite	?				
there any addition	nnal sunnile	s/equipment needer	1? If so, what items and v	when?			
there any addition	ли очрви	о очитриноти посис	a. Il oo, what items and				
ve there been any	changes to	the current schedu	le, including volumes ne	eded by client	17		
s client provided	any operatio	onal feedback (posit	ive or negative)?				
			Company:			XTO	
Person:							

			ı				
Date:	8/:	16/2012			Number:		67
				Unit N	Number:		8
			ı				,
Client:		XTO			hift Onsite Time:	6:00	am/pm
Location:		ash 29		S	hift Offsite Time:	6:00 PM	am/pm
Site Contact:		Jackson				11 hrs	Total hrs.
Site Contact:	Sam	nmy 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	Cumulative	BBLS Proces	ssed:	121,4	02 bbls
BBLS/Hr Proc	essed:	277.8181818	Cumulative	BBLS/Hr Proc	essed:	436.7	bbl/hr
					T		
Lead Supervisor:		nmy Dean	Readings:	flow back	Volts/Amps	pH	Turbidity
Lead Operator		McGruder	08:00		100	6.87	1.97
Crew		lay Lee	10:00		100	6.43	1.89
		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
			N/A		N/A	N/A	N/A
					1 5 1		
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	355	1,479	1,124	no
Visitors:	De	laskaan	Sodium Hydroxide	266	1,196	930	Yes
Visitors:	ВО	Jackson			<del>                                     </del>		
Visitors:					<del>                                     </del>		
Visitors.					<u> </u>		<u>l</u>
Were there any ahn	ormal operat	ional issues onsite?	<b>)</b>				
No	ormai operat	ional issues onsite	<u> </u>				
Are there any addit	ional supplies	s/equipment needed	? If so, what items and v	vhen?			
							***************************************
Have there been an	y changes to	the current schedu	le, including volumes ne	eded by client	?		
Has client provided	any operatio	onal feedback (positi	ive or negative\?				
Person:	any operation	ina iceanack (hositi	Company:		1	хто	
			- Company		<u> </u>		
			···		· · · · · · · · · · · · · · · · · · ·		
Additional Cor	nments						
				_			

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/:	17/2012			Number:		38
				Unit I	Number:		8
Client:		хто			hift Onsite Time:	6:00	am/pn
Location:		lash 29			hift Offsite Time:	6:00 PM	am/pn
Site Contact:		Jackson			mit Offsite Time.	4 hrs	Total hr
Site Contact:		nmy Deam		Present	Onsite Activities:		S WATER
					· W-		
Processing Hrs 7		4 hrs	Cumulativ	e Processing	Hrs:	282	hrs
BBLS Processed		1,009 bbls	Cumulative	BBLS Proce	ssed:	122,4:	11 bbls
BBLS/Hr Proces		252.25	Cumulative	BBLS/Hr Proc	essed:	434.1	bbl/hr
Load Supopisor:		nmy Dean	Readings:	flow back	Volts/Amps	pH	Turbidi
Lead Supervisor: Lead Operator		McGruder	08:00	HOW DACK	100	6.87	1.97
Crew		Ray Lee	10:00		100	6.43	1.89
CIEW		nris Perry	12:00		100	6.97	1.78
		nald White	14:00		100	6.89	1.43
<u> </u>	- ricgii	naid Winte	16:00		100	6.76	1.56
<del> </del>	<del></del>		N/A		N/A	N/A	N/A
<u> </u>			IV/A		1 19/6 1	11/7	19/75
			Chemical	Usage	Start Inv.	End Inv.	On Ord
			HcL Acid	150	1,124	974	no
			Sodium Hydroxide	130	3,930	3,800	Yes
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
					Cp		
ere there any abnor	mal operat	tional issues onsite	?				
ore there arry aprilor	nai operai	Jonai Issues Offsite					<del></del>
e there any addition	al supplie	s/equipment neede	d? If so, what items and v	when?			
T HITCHT HITT	опрри					****	
			±				
ave there been any o	:hanges to	the current schedu	ıle. including volumes ne	eded by clien	t?		
ave there been any o	hanges to	the current schedu	ıle, including volumes ne	eded by clien	t?		
ave there been any o	hanges to	the current schedu	ıle, including volumes ne	eded by clien	<del>1</del> ?		
				eded by clien	1?		
as client provided ar		the current schedu	tive or negative)?	eded by clien	17		
				eded by clien	17	хто	
as client provided ar			tive or negative)?	eded by clien	17	хто	
s client provided ar	ny operatio		tive or negative)?	eded by clien	17	хто	

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:	9/1	18/2012	ſ	Renort	Number:		69
Date.		10, 2012		-	lumber:		8
Client:		XTO		S	hift Onsite Time:	6:00	am/pn
Location:		ash 29		S	hift Offsite Time:	6:00 PM	am/pn
Site Contact:		Jackson			0 2 4 5 25	6 hrs	Total hr
Site Contact:	Sam	my Deam	l	Present	Onsite Activities:	PROCES	SS WATER
Processing Hr	s Today:	6 hrs	Cumulativ	e Processing	Hrs:	288	hrs
BBLS Processe		2,885 bbls		BBLS Proce		125,2	96 bbls
BBLS/Hr Proc		480.8333333	Cumulative I	BBLS/Hr Proc	essed:	435.1	bbl/hr
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	pH	Turbidit
Lead Operator		McGruder	08:00	11011 Dack	100	6.87	1.97
Crew		ay Lee	10:00		100	6.43	1.89
		ris Perry	12:00		100	6.97	1.78
İ		nald White	14:00		100	6.89	1.43
İ			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Ord
ŀ			HcL Acid	305	974	669	yes
ı			Sodium Hydroxide	250	3,800	3,550	No
Visitors:	Во	Jackson	,		,		
Visitors:							
Visitors:							
<mark>/ere there any abn</mark> ○	ormal operat	ional issues onsite	?				
re there any additi	onal supplies	s/equipment neede	d? If so, what items and v	when?			
ave there been an	y changes to	the current schedu	ıle, including volumes ne	eded by client	?		
		1.6 11 1.7 14	tive or negative)?				
	any operatio	nai teedback (posii					
as client provided  Person:	any operatio	nal feedback (posit	Company:			хто	

Date:	8/1	19/2012					
	,	15/2012		•	Number:		70
				Unit	Number:		8
Client:		хто		S	hift Onsite Time:	6:00	am/pm
Location:	N	ash 29		\$	hift Offsite Time:	6:00 PM	am/pm
Site Contact:	Во	Jackson				4 hrs	Total hrs.
Site Contact:	Sam	my Deam		Present	Onsite Activities:	PROCES	SS WATER
	· · · · · · · · · · · · · · · · · · ·				·-		
Processing Hr		4 hrs		e Processing		292	hrs
BBLS Processe		1,009 bbls		BBLS Proces			05 bbls
BBLS/Hr Proc	essed:	252.25	Cumulative	BBLS/Hr Proc	essed:	432.6	bbl/hr
Lead Supervisor:		nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		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
	Regir	nald White	14:00		100	6.89	1.43
			16:00		100	6.76	1.56
	<del></del>	· · · · · ·	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:	Во	Jackson					ļ
Visitors:						····	<b>_</b>
Visitors:					<u> </u>		L
<b>/ere there any abn</b> ○	ormal operat	ional issues onsite	?				
re there any additi	onal supplies	s/equipment needed	1? If so, what items and v	vhen?			
ave there been an	y changes to	the current schedu	le, including volumes ne	eded by clien	17		
as client provided	any operatio	nal feedback (posit	ive or negative)?				
Person:			Company:			XTO	
	nments						

	<del>,</del>						
D-4I	0.1	20/2012		Damani	N		7.1
Date:	8/.	20/2012			Number: Number:	<u> </u>	71 8
				Oille I	tulliber.		<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				12 hrs	Total hrs.
Site Contact:	Sam	my Deam		Present	Onsite Activities:	Maint	tenance
Maint on Unit							
Processing Hr		0 hrs		e Processing		292	hrs
BBLS Processe		0 bbls		BBLS Proce			05 bbls
BBLS/Hr Proc	essed:	#DIV/0!	Cumulative	BBLS/Hr Proc	essed:	432.6	bbl/hr
Lead Supervisor:	San	ımy Dean	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		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
		nald White	14:00		100	6.89	1.43
			16:00		100	6.76	1.56
			N/A		N/A	N/A	N/A
					T a T	- 11	001
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	3,544	3,544	yes
Visitors:	Bo	Jackson	Sodium Hydroxide	0	3,400	3,400	No
Visitors:		Buckson .					
Visitors:							
					1		
Were there any abn	ormal operat	ional issues onsite	?				
No	ional gumblio		d? If so, what items and v	uhan?			
Are mere any additi	ionai supplie	s/equipment neede	ur ii so, what items and t	WHEILI			
Have there been an	y changes to	the current schedu	ıle, including volumes ne	eded by client	?		
Has client provided	any operation	nal feedback (posit	tive or negative)?				
Person:			Company:			хто	
Additional Cor	nments						
Replace 4 " line on B	rown bear wa	iting for glue to cure	. Continue operations 8/21				

Date:	8/:	21/2012		Report	Number:		72
		1, 1011			lumber:		8
Client:		XTO		S	hift Onsite Time:	5:00	am/pm
Location:	N	ash 29		S	hift Offsite Time:	11:00 PM	am/pm
Site Contact:		Jackson				18 hrs	Total hr
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	s Today	8 hrs	Cumulativ	e Processing	Hrs.	300	hrs
BBLS Processe		3,208 bbls		BBLS Proces			13 bbls
BBLS/Hr Proc		401		BBLS/Hr Proc			bbl/hr
DDL3/III 7100	esseu.	401	Odmalative	DDLO//III / 100	esseu.	70117	DDI//II
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit
Lead Operator		ris Perry	16:30		110	7.54	0.64
Crew		nald White	18:30		110	7	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
					r	= 1.	
			Chemical	Usage	Start Inv.	End Inv.	On Orde
Ĺ			HcL Acid	400	5,300	4,900	No No
Makana		Ingliana	Sodium Hydroxide	350	2,980	2,630	No
Visitors: Visitors:	В0	Jackson			<del>                                     </del>		
Visitors:							
Visitors.					L		l
ere there any ahn	ormal operat	ional issues onsite	7		···		
0	ormai oporai	TOTAL IOUGUS STISILS	•				
41	enal event!		10.15	whon?			
re tnere any additi	onai suppile:	s/equipment needed	d? If so, what items and v	WIIGII:			
	onai suppile:	s/equipment needed	d? If so, what items and v	Wileii:			
	onai suppile:	s/equipment needed	d? If so, what items and v	WHEILE			
0							
o ave there been an			d? If so, what items and v		?		
0					?		
ave there been an					?		
ave there been an	y changes to	the current schedu	ile, including volumes ne		?		
ave there been an	y changes to		ile, including volumes ne		?	VIO	
ave there been an  o  as client provided  Person:	y changes to	the current schedu	ile, including volumes ne		?	XTO	
ave there been an	y changes to	the current schedu	ile, including volumes ne		?	хто	
ave there been and one of the second of the	y changes to any operatio	the current schedu	ile, including volumes ne		?	хто	

Date:	8/	22/2012		Report	Number:		73
					Number:		8
0114-		VTO			hift Onsite Time:	0.00	/
Client:		XTO				9:00 4:00 PM	am/pm am/pm
Location: Site Contact:		Jackson		3	hift Offsite Time:	7 hrs	Total hrs
Site Contact:		nmy Dean		Present	Onsite Activities:		S WATER
One Comaci.	Oan	niny Dean		1 resent	Onsite Activities.	TROOLS	O WATER
Processing Hr	s Today:	3 hrs	Cumulativ	e Processing	Hrs:	303	hrs
BBLS Processe		1,419 bbls		e BBLS Proces		130,9	32 bbls
BBLS/Hr Proc		473		BBLS/Hr Proc			bbl/hr
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		nris Perry	11:30		110	7.69	1.94
Crew		nald White	13:30		110	6.98	0.44
			15:30		110	7	1.67
			15:44		110	6.89	0.24
			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	200	4,900	4,700	No
			Sodium Hydroxide	175	2,630	2,455	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:							
Vere there any abn	ormal opera	tional issues onsite	?				
re there any additi	ional supplie	s/equipment neede	d? If so, what items and v	when?			
lave there been an	y changes to	the current schedu	ule, including volumes ne	eded by client	?		
as client provided	any operation	onal feedback (posi	tive or negative)?			VTO	
			Joinpany.	J	l	XTO	
Person:							
Person:	nments						

Date:	8/	23/2012		Report	Number:		74
					Number:		8
Client:		XTO			hift Onsite Time:	10:00	am/pr
Location:		lash 29		S	hift Offsite Time:	7:00 PM	am/pr
Site Contact:		Jackson				9 hrs	Total h
Site Contact:	Sar	nmy Dean		Present	Onsite Activities:	PROCES	SS WATER
Processing Hrs	Today	r h.m.	Commission	ve Processing	U.o. I	308	hrs
BBLS Processed		5 hrs 2,648 bbls		e BBLS Proces			80 bbls
BBLS/Hr Proce		529.6		BBLS/Hr Proc			bbl/hr
DDL3/HI PIOCE	sseu:	529.6	Cumulative	BBLS/HI PIOC	esseu:	433.7	DDI/III
Lead Supervisor:	San	nmy Dean	Pondings:	flow back	Volts/Amps	pН	Turbidi
Lead Operator		nris Perry	Readings: 13:00	HOW DACK	110		1.05
Crew		inald White	15:00		110	7.03	0.383
CIEW	rvegi	maid Winte	17:00		110	7.14	0.668
			18:00	-	110	7.21	0.553
			N/A	<del> </del>	N/A	N/A	N/A
-			N/A		N/A	N/A	N/A
<del> -</del>	*****		1975	1	1 1975	11,7	14/7
			Chemical	Usage	Start Inv.	End inv.	On Ord
			HcL Acid	150	4,700	4,550	No
_			Sodium Hydroxide	375	2,455	2,080	No
Visitors:	Во	Jackson	,		,	· · · · ·	·
Visitors:							
Visitors:							
					•		
						***************************************	<del>1</del>
ere there any abno	rmal opera	tional issues onsite	?				
in and wind							
	nal supplie	s/equipment needed	1? If so, what items and	when?			
)							
4h h		4	to to do do o o o bo				
ove tnere been any	cnanges to	o ule current schedu	le, including volumes ne	edea by client	Lr		
,							
e client provided :	any operati	onal feedback (posit	ive or negative\?				
Person:	y operation	ioodadon (posit	Company:	1	1	XTO	
)		<del></del>			1	•	
Additional Com	mente	i					

Date:	8/2	24/2012		Report	Number:		75
		_		Unit N	lumber:		8
Client:		XTO		S	hift Onsite Time:	10:00	am/pm
Location:		ash 29			hift Offsite Time:	7:00 PM	am/pm
Site Contact:		Jackson				9 hrs	Total hrs.
Site Contact:	Sam	imy Dean		Present	Onsite Activities:	PROCES	SS WATER
					-		
Processing Hr	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
Lead Supervisor:		nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidity
Lead Operator		ris Perry	13:00		N/A	N/A	N/A
Crew	Regii	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
			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	4,700	4,550	No
			Sodium Hydroxide	0	2,455	2,080	No
Visitors:	Во	Jackson				,	
Visitors:							
Visitors:							
				•	· · · · · · · · · · · · · · · · · · ·		
Were there any abn	ormal operat	ional issues onsite	?				-
No			•			-	
Are there any additi	ional supplie	s/equipment needs	d? If so, what items and v	whon?			
No	топат заррпе	s/equipment neede	ar ii 30, whilet itelii 3 liila i	WIICH 1			
Have there been an	v changes to	the current schedu	ule, including volumes ne	eded by client	2		
NO	y changes to	the current soneut	ne, moldanig volumes ne	cucu by one in			
Has client provided	any operation	nal feedback (posi	tive or negative\?				
Person:	poratic	The state of the s	Company:			хто	
No.			1	1	ı	7.10	
Additional Cor	mments						
,							

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.

		25/2012		Dame and	Number		76
Date:	8/	25/2012			Number:		8
				<u> </u>			
Client:		хто		s	hift Onsite Time:	8:00	am/pm
Location:	١	lash 29		S	hift Offsite Time:	5:00 AM	am/pm
Site Contact:	Во	Jackson				9 hrs	Total hrs
Site Contact:	Sar	nmy Dean		Present	Onsite Activities:	Main	enance
Processing Hrs		0 hrs	Cumulativ	e Processing	Hrs:	308	hrs
BBLS Processed	Today:	0 bbls	Cumulative	BBLS Proces	ssed:	133,5	80 bbls
BBLS/Hr Proce	ssed:	0	Cumulative	BBLS/Hr Proc	essed:	433.7	bbl/hr
Lood Cumomison	Con	nmy Doon	- Boodings:	flow back	Volts/Amns	nU.	Turbidit
Lead Supervisor:		nmy Dean	Readings:	HOW DACK	Volts/Amps	pH N/A	Turbidity N/A
Lead Operator Crew		nris Perry inald White	13:00 15:00		N/A N/A	N/A N/A	N/A N/A
crew	Regi	naid variite	17:00		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	N/A	N/A
-			N/A		N/A	N/A	N/A
F			[ N/A		I N/A	14/7	I 19/A
F			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:	Во	Jackson	,				
Visitors:							
Visitors:		-					
Were there any abno	rmal opera	tional issues onsite	?				
No							
Are there any addition	nal supplie	s/equipment neede	d? If so, what items and v	when?			
		· ·					
No		the everent calcul	de feetedie velvee ee	adad bu allani	2		
Have there been any	changes to	the current sched	ule, including volumes ne	eded by client	?		
No	changes to	the current sched	ule, including volumes ne	eded by client	?		
No Have there been any				eded by client	?		
Have there been any			tive or negative)?	eded by client	?		
Have there been any NO Has client provided a Person:				eded by client	?	XTO	
Have there been any NO Has client provided a Person:			tive or negative)?	eded by client	?	хто	
Have there been any	any operatio		tive or negative)?	eded by client	?	хто	

o ave there been an tandy- by as per cu	y changes to stomer reque	the current sched	d? If so, what items and vule, including volumes nettive or negative)?    Company:		?	хто	
re there any addition  ave there been and tandy- by as per cu	y changes to stomer reque	the current sched	ule, including volumes ne tive or negative)?		?	хто	
re there any addition o ave there been and tandy- by as per cu	y changes to stomer reque	the current sched	ule, including volumes ne		??		
o  re there any additi o  ave there been an	y changes to	the current sched			?		
re there any additi	y changes to	the current sched			??		
o re there any additi	onal supplie	s/equipment neede	d? If so, what items and v	vhen?			
o re there any additi	onal supplie	s/equipment neede	d? If so, what items and v	vhen?			
0	onal supplie	s/equipment neede	d? If so, what items and v	vhen?			
ere there any abn							
	ormal operat	ional issues onsite	17				
Visitors:							
Visitors:							
Visitors:	Во	Jackson	,				
ı			Sodium Hydroxide	0	2,455	2,080	No
ł	,		HcL Acid	Osage 0	4,700	4,550	No
}			Chemical	Usage	Start Inv.	End Inv.	On Orde
			N/A		N/A	N/A	N/A
ļ			N/A		N/A	N/A	N/A
			18:00		N/A	N/A	N/A
			17:00		N/A	N/A	N/A
Crew		nald White	15:00		N/A	N/A	N/A
Lead Operator		ris Perry	13:00	HOW DOCK	N/A	N/A	N/A
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidit
PPF9/HL 5100	esseu;	<u> </u>	Cumulative i	BBLS/HT PTOC	esseu.	433.1	ווווטט
BBLS Processe BBLS/Hr Proc		0 bbls <b>0</b>		BBLS Proces			80 bbls bbl/hr
Processing Hr		0 hrs		e Processing		308	hrs
			<del></del>				
•			•				
Site Contact:		nmy Dean		Present	Onsite Activities:		enance
Site Contact:		Jackson				9 hrs	Total hr
Client: Location:	N	ash 29			hift Offsite Time:	7:00 PM	am/pn
		хто	ı	5	hift Onsite Time:	10:00	am/pn
I			'				
<b></b>		20,2012			lumber:		8
Date:	X/	26/2012		Report	Number:		77

Date: 8/27/2012		Number:		78	
L	Unit N	lumber:		8	
Client: XTO	CI	nift Onsite Time:	8:00	am/pm	
Location: Nash 29		nift Offsite Time:	5:00 AM	am/pm	
Site Contact: Bo Jackson		int Offsite Time.	9 hrs	Total hrs.	
Site Contact: Sammy Dean	Present (	Onsite Activities:		enance	
Gile Golitade.	7 1000111				
Processing Hrs Today: 0 hrs Cumulative	Processing	Hrs:	308	hrs	
	BBLS Proces	sed:	133,580 bbls		
	Cumulative BBLS/Hr Processed:			bbl/hr	
Lead Supervisor: Sammy Dean Readings:	flow back	Volts/Amps	pН	Turbidity	
Lead Operator Chris Perry 13:00		N/A	N/A	N/A	
Crew Reginald 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	
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	4,700	4,550	No	
Sodium Hydroxide	0	2,455	2,080	No	
Visitors: Bo Jackson			·		
Visitors: Todd Cage					
Visitors: Arron Karcher					
Were there any abnormal operational issues onsite?					
No					
Are there any additional supplies/equipment needed? If so, what items and w	hen?				
No			- 110		
Have there been any changes to the current schedule, including volumes nee	eded by client	?			
Standy- by as per customer request					
the client provided any exerctional feedback (positive or positive)?					
Has client provided any operational feedback (positive or negative)?  Person: Company:			XTO		
No Company.			λ10		
Additional Comments					
Did not run today all equipment is filled. Water in weir tanks is clear. Still to get a p					
started leaking from seams. Mr. Randy Green, is going to have some of the water t Draw Unit $\#$ 57 H.	ransferred to	XTO Nash Draw 49	H and some	to XTO Nash	

Date:	8/:	28/2012		Report	Number:		79
				Unit N	Number:		8
Cliantel		хто			hift Onsite Time:	8:00	am/pm
Client: Location:	N.	ash 29			hift Offsite Time:	5:00	am/pm
Site Contact:		Jackson			illit Offsite fillie.	9 hrs	Total hrs.
Site Contact:		nmy Dean		Present	Onsite Activities:		tenance
			•	<u>.</u>			
Processing Hr	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
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
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
			18:00		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	4,700	4,550	No
ı.			Sodium Hydroxide	0	2,455	2,080	No
Visitors:	Во	Jackson		_	-/		
Visitors:	<u>-</u>						
Visitors:							
		ional issues onsite				·	
Poseidon tank off loo	cation develop	ped 2 leaks. Operatio	n has been on standby unt	tii leaks can be	repaired		
Are there any addit	ional sunniio	s/equipment needer	d? If so, what items and v	when?			
No No	опи зиррпо	s/equipment neede	oo, what home and				
	<del> </del>	the current schedu	ile, including volumes ne	eded by client	t?		
Standby as per custo	omer request						
Has client provided	any operation	onal feedback (posit	ive or negative)?				
Person:			Company:			XTO	
No							
Additional Cor	mments						
Did		nalis and full Desert	toul madesis with a	lonks Co. com	lata rangina 9/20/	12	
וים not process wate	er today. All ta	inks are full. Poseidoi	n tank under repair with 2	ieaks 50 comp	iete repairs 8/30/	12.	

Date:	8/	29/2012	]	Report	Number:	}	80	
			ľ		lumber:		8	
			•			,		
Client:		XTO	[	S	hift Onsite Time:	8:00	am/pm	
Location:	N	lash 29		S	hift Offsite Time:	5:00	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		0 bbls	Cumulative	BBLS Proces	ssed:	133,58	80 bbls	
BBLS/Hr Proc	essed:	0	Cumulative I	BBLS/Hr Proc	Processed: 433.7 bbl/hr			
						<del></del>		
Lead Supervisor:		nmy Dean	Readings:	flow back	Volts/Amps	pH	Turbidity	
Lead Operator		ris Perry	13:00		N/A	N/A	N/A	
Crew	Regi	nald White	15:00	<del> </del>	N/A	N/A	N/A	
			17:00		N/A	N/A	N/A	
ļ			18:00		N/A	N/A	N/A	
ļ			N/A		N/A	N/A	N/A	
			N/A		N/A	N/A	N/A	
-			Chamical	Hanaa	Stort Inv	End Inv	On Order	
-			Chemical	Usage	Start Inv.	End Inv.	On Order	
L			HcL Acid	0	4,700	4,550	No	
Visions. I	Do	Ingkaan	Sodium Hydroxide	0	2,455	2,080	No	
Visitors:	ВО	Jackson		•				
Visitors:								
VISIOUS.					l			
	····							
Mara thara any abn		tional issues onsite?						
			has been on standby unt	il leaks can he	renaired			
OSCIDOT WITH ON TOO	auon acreio,	oca z icans. operanor	rias been on standby and	ii icano can be	· opaou			
							···	
Are there any additi	onal supplie	s/equipment needed	? If so, what items and v	vhen?				
<b>Are there any additi</b> No	onal supplie	s/equipment needed	? If so, what items and v	vhen?			··· <del>-,</del> -	
	onal supplie	s/equipment needed	? If so, what items and v	vhen?				
No					??			
No	y changes to		? If so, what items and v		17		11.0	
No Have there been an	y changes to				17			
No Have there been an	y changes to				??			
No Have there been an Standby as per custo	y changes to		le, including volumes ne ve or negative)?		1?			
No Have there been an Standby as per custo	y changes to	the current schedu	le, including volumes ne		?	ХТО		
Have there been an Standby as per custo Has client provided	y changes to	the current schedu	le, including volumes ne ve or negative)?		??	хто		
Have there been and Standby as per custof Has client provided Person:	y changes to omer request any operation	the current schedu	le, including volumes ne ve or negative)?		17	хто		

Did not process water today. All tanks are full. Poseidon tank under repair with 2 leaks So complete repairs 8/31/12. Mr. Jackson advised we should be able to start cleaning water on Friday 31st Day Of August 2012, sometime that evening.

5.		20/2012					
Date:	8/	30/2012			Number: lumber:		81 8
					•		
Client:		XTO		S	hift Onsite Time:	8:00	am/pm
Location:	١	lash 29		S	hift Offsite Time:	5:00	am/pm
Site Contact:		Jackson				9 hrs	Total hrs.
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Maint	tenance
					1	200	
Processing Hr		0 hrs 0 bbls		e Processing		308	hrs
BBLS Processe BBLS/Hr Proc		0 6615		e BBLS Proces BBLS/Hr Proc			80 bbls bbl/hr
BBL3/HI FIO	esseu.	L	Cumulative	BBES/HI FIOC	esseu.	433.1	DDI/III
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidity
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
			18:00		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
			N/A		N/A	N/A	N/A
							<b>.</b>
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	4,700	4,550	No
327-14			Sodium Hydroxide	0	2,455	2,080	No
Visitors:	80	Jackson					<b>}</b>
Visitors: Visitors:							-
VISILUIS.	L.						L
Ware there any ahn	ormal opera	tional issues onsite?	)		•		
			n has been on standby un	til leaks can be	repaired		
		ou = lound: operation					
Are there any addit	ional supplie	s/equipment needed	l? If so, what items and \	when?			
No							
		the current schedu	le, including volumes ne	eded by client	?		
Standby as per custo	omer request						
			•				
	any operation	onal feedback (posit		r	,		
Person:			Company:		L	хто	
No							
Additional Cor	mmente	<u> </u>					,
Additional Col	mients	I					
Did not process water	er today. All ta	inks are full. Poseidor	tank under repair with 2	leaks So compl	lete repairs 8/31/1	l2. Mr. Jackso	n advised we

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

Date:	8/	31/2012		Report	Number:		82
					Number:		8
Client:		XTO		S	hift Onsite Time:	12:00:00PM	am/p
Location:	N	lash 29		S	hift Offsite Time:	0:00	am/p
Site Contact:		Jackson				12 hrs	Total h
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Process	ing Water
Processing Hr	e Today:	10 hrs	Cumulativ	e Processing	Hre.	318	hrs
BBLS Processe		5,125 bbls					05 bbls
BBLS/Hr Prod		512.5					bbl/hr
DDEO//II 1 100		312.3	Odmulative	DDE0//// / 100	esseu.	730.2	0000
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbid
Lead Operator		ris Perry	14:00		110	5.31	0.11
Crew		nald White	16:00	<del></del>	110	6.54	0.86
			18:00		110	7.01	0.74
			20:00		110	6.57	1.8
			22:00		110	7.2	2.12
			N/A		N/A	N/A	N/A
	<del></del>						
			Chemical	Usage	Start Inv.	End Inv.	On Ord
i			HcL Acid	0	4,550	4,200	No
Visitors:	Do.	laskaan	Sodium Hydroxide	0	2,080	1,800	No
Visitors:	ВО	Jackson					
Visitors:							
V131131						l	
re there any abn	ormal operat	tional issues onsite	?				
,							
<del></del>							
there any addit	onal supplie	s/equipment needed	d? If so, what items and v	vhen?			
	опин оперио						
			le including volumes no	eded by client	?		
	y changes to	the current schedu	ne, including volumes he				
	y changes to	the current schedu	ne, including volumes he				
ve there been an	y changes to	the current schedu	ne, including volumes ne				
ve there been an							
ve there been an		the current schedu	ive or negative)?				
ve there been an s client provided Person:						хто	
ve there been an			ive or negative)?			хто	

Date:	9/	1/2012		Report	Number:		83
					Number:		8
Client:		XTO		S	hift Onsite Time:	12:00:00AM	am/pm
Location:		ash 29		S	hift Offsite Time:	21:00	am/pm
Site Contact:		Jackson				11 hrs	Total hrs.
Site Contact:	Sam	my Dean		Present	Onsite Activities:	Process	sing Water
Processing Hr		9 hrs		e Processing		327	hrs
BBLS Processe		6,101 bbls		e BBLS Proce			81 bbls
BBLS/Hr Proc	cessed:	512.5	Cumulative	BBLS/Hr Proc	essed:	427.2	bbl/hr
Lead Supervisor:	Sam	imy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		ris Perry	00:00	11044 Dack	110	6.8	0.886
Crew		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:							<u> </u>
18/ Al							
No	ormal operati	ional issues onsite?	<u></u>				
NO							
						- 3-11	
Are there any addit	ional supplies	leguinment needed	l? If so, what items and v	when?			
No	ional supplies	же <del>чарисисис</del>	ir it so, what items and t	***************************************	77.0.1	-,	
			· · · · · · · · · · · · · · · · · · ·			-	
Have there been an	y changes to	the current schedul	le, including volumes ne	eded by client	?		
No							
							-
	any operatio	nal feedback (positi					
Person:			Company:			XTO	
No							
Additional Cor	mments						
Received about 600	gallons of Caus	tic from Oxy Location	n. Order a load of caustic t	to be here on 0	9/06/2012.		

Date:	0.1	/2/2012		Banari	Number		24	
Date:	9/	/2/2012			Number: Number:		84 8	
				Onti	Number.		0	
Client:		хто		s	hift Onsite Time:	6:00:00AM	am/pm	
Location:	N	lash 29		S	hift Offsite Time:	18:00	am/pm	
Site Contact:	Во	Jackson				12 hrs	Total hrs	
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Process	ing Water	
Processing Hr		8 hrs		e Processing		335	hrs	
BBLS Processe		4,483 bbls		BBLS Proce			63 bbls	
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	412.1	bbl/hr	
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit	
Lead Operator	Ken	neth Erler	08:00		108	7.56	1.15	
Crew	Ferm	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:	Во	Jackson						
Visitors:								
Visitors:								
				<del></del>			**	
	ormal operat	ional issues onsite	?					
0								
re there any addit	onal supplies	s/equipment needed	1? If so, what items and v	when?				
0								
ave there been am	v obonese to	the current cohedu	le including volumes no	adad by aliant	19			
o there been an	y changes to	ule current schedu	le, including volumes ne	eded by client	LF			
	any anarchi	and foodbook (not)	ive or negative)?					
aa aliant	any operation	mai reedback (posit	Company:		1	VTO		
		· · · · · · · · · · · · · · · · · · ·	Company.			хто		
as client provided Person:								
Person:	nmonto					<u></u>		

		(2.122.2			<u> </u>		\C		
Date:	9/	3/2012			Number:		35		
				Unit I	lumber:	<u> </u>	8		
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	Bo Jackson 11 hrs							
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Process	ing Water		
Processing Hrs	s Today:	6 hrs	Cumulativ	re Processing	Hrs:	341	hrs		
BBLS Processe		4,394 bbls		BBLS Proces		137,97	74 bbls		
BBLS/Hr Proc		512.5		BBLS/Hr Proc		404.6 bbl/hr			
Lead Supervisor:	Sam	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		
	R	lay Lee	14:00		108	7.68	1.24		
			16:00:00 PM		108	7.43	1.032		
							<del></del>		
			Chemical	Usage	Start Inv.	End Inv.	On Orde		
[			HcL Acid	0	3,500	3,200	No		
			Sodium Hydroxide	0	1,200	900	Yes		
Visitors:	Во	Jackson							
Visitors:									
Visitors:			.,,						
(-0-7)									
		tional issues onsite	•						
o	omar oporac		•						
re there any additi lo	onal supplie	s/equipment neede	d? If so, what items and v	when?					
ave there been an	y changes to	the current schedu	ule, including volumes ne	eded by clien	17				
0						2 330			
			41			· · ·			
			tive or negative)?						
	any operation	onal reedback (posi				YTO.			
as client provided Person:	any operation	onal feedback (posi	Company:		<u> </u>	XTO			

Date:	9,	/4/2012		Report	Number:	۶	36		
2000.					lumber:		8		
Client:		XTO			hift Onsite Time:	6:00:00AM	am/pm		
Location:		lash 29		S	hift Offsite Time:	18:00	am/pm		
Site Contact:		Jackson				12 hrs	Total hrs		
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Processi	ng Water		
Processing Hr	s Today:	9 hrs	Cumulativ	e Processing	Hrs:	350	hrs		
BBLS Processe		4,844 bbls		BBLS Proce		138,424 bbls			
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:				
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	pH	Turbidit		
Lead Operator		neth Erler	08:00		108	7.89	2.12		
Crew	Fern	nin Valdez	10:00	y.,	108	6.9	0.892		
	R	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		
į			HcL Acid	0	3,200	2,900	No		
			Sodium Hydroxide	0	900	600	Yes		
Visitors:	Во	Jackson		*					
Visitors: Visitors:			<u> </u>						
Tere there any abn	ormal operat	tional issues onsite	?				704.		
	ional armalia								
	onai suppile	s/equipment neede	d? If so, what items and v	vhen?					
re there any addit	ionai supplie	s/equipment neede	d? If so, what items and v	vhen?					
0	_				?				
0	_		d? If so, what items and v		?				
ave there been an	y changes to		ıle, including volumes ne		?				
ave there been and one of the second of the	y changes to	the current schedu	ıle, including volumes ne		?	хто			
ave there been an	y changes to	the current schedu	ile, including volumes ne		?	хто			

Date:	9/	5/2012		Penor	Number:		87	
Date.		3/2012			Number:		8	
Client:		XTO			hift Onsite Time:	6:00:00AM	am/pm	
Location:	<del></del>	ash 29		Shift Offsite Time:		0:00	am/pm	
Site Contact:		Jackson				18 hrs Total hrs.  Processing Water		
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Process	ing Water	
Processing Hr	s Todav:	12 hrs	Cumulativ	e Processing	Hrs:	362	hrs	
BBLS Processe		5,113 <b>bbl</b> s		e BBLS Proce			40 bbls	
BBLS/Hr Prod		512.5	452.0	452.0 bbl/hr				
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidity	
Lead Operator	Ken	neth Erler	08:00		108	6.54	0.158	
Crew	Fern	nin Valdez	10:00		108	6.84	0.872	
		ay Lee	12:00		108	7.25	1.01	
		m Pollard	14:00		108	7.35	1.15	
	Eddie	McGruder	20:00		108	7.21	1.21	
			22:00		108	7.85	1.52	
	<del></del>		Chemical	Usago	Ctort Inv	Engline.	On Order	
			HcL Acid	Usage 0	Start Inv.	End Inv. 2,500	On Order No	
ı			Sodium Hydroxide	0	2,900 600	1,425	Yes	
Visitors:	Bo	Jackson	Soulum Hydroxide	0	800	1,425	162	
Visitors:	50	Jackson	· · · · · · · · · · · · · · · · · · ·	<b></b>	1			
Visitors:								
			<b>L</b> .					
					<del></del>		<del></del>	
Were there any abn	ormal operat	ional issues onsite?	?					
No .								
Are there any additi	ional supplies	s/equipment needed	1? If so, what items and	when?				
No								
Have there been an	v change to	the current echodo	le, including volumes ne	eded by olion	2			
No	y changes to	and current scriedu	ic, molumny volumes lie	cueu by chell				
Has client provided	any operation	nal feedback (posit	ive or negative)?					
Person:			Company:			XTO		
No								
Additional Cor	nments							
Performed JAS every	one aware of	their task for today. \	Worked on house keeping	. Took 4 totes	of Caustic from ya	rd. Load of Cau	ustic will arri	
tomorrow evening a	round 1800 h	ours NMT.						

Datail	0.	6/2012		Panari	Number:		88	
Date:	9/	6/2012			lumber:		8	
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm	
Location:		ash 29		S	hift Offsite Time:	0:00	am/pm	
Site Contact:		Jackson			0	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		2,786 bbls		e BBLS Proce		166,42	166,426 bbls	
BBLS/Hr Proc		512.5	Cumulative BBLS/Hr Processed: 452.2					
Lead Supervisor:		nmy Dean	Readings:	flow back	Volts/Amps	pH	Turbidity	
Lead Operator		neth Erler	08:00		108	7.21	0.897	
Crew		nin Valdez	10:00		108	6.54	0.123	
		ay Lee	12:00		108	7.54	0.998	
		m Pollard McGruder	14:00					
	Eddle	McGruder	20:00					
			22:00					
			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:								
Were there any abn	ormal operat	ional issues onsite?	?					
No						,		
Are there any addit	ional sunnile	s/equipment needed	1? If so, what items and v	when?				
No								
Illana Abasa Isaa		Al	la tankudina milina		12			
No	y changes to	tne current schedu	le, including volumes ne	eded by clien				
INO								
Person:	any operation	onal feedback (posit	Company:	1	T	XTO		
No No			, company.			, , , o		
Additional Co	mments							
W		5:00 pm. Brown bear	r System 1 and system 2 b	linded off. Orde	ered load of acid t	o be on locatio	on 09-07-	
2012.								

Date:	9/	7/2012		Report	Number:		89	
	<u> </u>	<del></del>			Number:		8	
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm	
Location:	N	ash 29		S	hift Offsite Time:	0:00	am/pm	
Site Contact:	Во	Jackson				18 hrs	Total hrs.	
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Process	sing Water	
Processing Hrs		12 hrs	Cumulativ	e Processing	Hrs:	380	hrs	
BBLS Processe		6,480 bbls	Cumulativ	e BBLS Proce	ssed:	172,906 bbls		
BBLS/Hr Proc	essed:	512.5	Cumulative	imulative BBLS/Hr Processed: 455.0 b				
145			O d'a	I nombori	\/= b=/A====	-11	To colo i alita o	
Lead Supervisor:		nmy Dean	Readings:	flow back	Volts/Amps	pH	Turbidity	
Lead Operator		neth Erler	10:00		108	6.75	0.456	
Crew		nin Valdez lay Lee	12:00 14:00		108 108	6.89 6.69	0.573 0.654	
}		m Pollard	16:00	-	108	7.32	0.634	
- F		McGruder	18:00		108	7.78	1.189	
- h	Ludie	WicGrudei	20:00		108	7.78	0.975	
F		~~	22:00		108	7.25	0.9	
			Chemical	Usage	Start Inv.	End Inv.	On Order	
<u> </u>			HcL Acid	0	2,350	1,900	Yes	
L			Sodium Hydroxide	0	6,200	5,800	No	
Visitors:	Bo	Jackson	Soutain Hydroxide	Ť	5,255	3,000		
Visitors:							-	
Visitors:				-				
			<del>## ***</del>					
Were there any abno	ormal operat	ional issues onsite?						
		dessa picked up anoth						
<b>Are there any additi</b> No	onal supplies	s/equipment needed	? If so, what items and	when?	-		-	
Have there been any	changes to	the current schedul	e, including volumes ne	eded by client	?			
No								
	any operatio	nal feedback (positi	ve or negative)?					
Person:			Company:			XTO		
No								
Additional Com	nments							
Mont to Odossa and	nicked up and	thar Brown Boar Heit	· Acid did not show up PC	) was noves are	ata Asid will be a	n location at 0	1900 hours on	

Went to Odessa and picked up another Brown Bear Unit. Acid did not show up PO was never create. Acid will be on location at 0800 hours on 09-07-2012. XTO is hauling in fresh water for this Frac Job.

Date:	9,	/8/2012		Report	Number:	9	90	
				Unit f	lumber:		8	
Client:		XTO			hift Onsite Ti <b>m</b> e:	6:00:00AM	am/pm	
Location:	N	ash 29		S	hift Offsite Time:	0:00	am/pm	
Site Contact:	Во	Jackson				18 hrs	Total hrs.	
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Process	ing Water	
Processing Hr		16 hrs		e Processing		396	hrs	
BBLS Processe	d Today:	6,480 bbls	Cumulative BBLS Processed: 179,386 bbl:					
BBLS/Hr Proc	essed:	512.5	12.5 Cumulative BBLS/Hr Processed:			453.0	bbl/hr	
Load Supopulson	Son	amy Doon	Pondings:	flow back	Volts/Amns	nЦ	Turbidity	
Lead Supervisor: Lead Operator		nmy Dean neth Erler	Readings: 10:00	HUW DACK	Volts/Amps 108	pH 7.12	0.789	
Crew		nin Valdez	12:00		108	7.34	0.889	
CIC#		tay Lee	14:00		108	7.54	0.987	
		m Pollard	16:00		108	7.32	0.785	
		McGruder	18:00	-	108	7.43	0.975	
	233	, 111001 4401	20:00		108	7.5	1.189	
			22:00		108	7.25	1.115	
			Chemical	Usage	Start Inv.	End Inv.	On Order	
			HcL Acid	0	6,400	6,000	NO	
			Sodium Hydroxide	0	5,800	5,550	No	
Visitors:	Во	Jackson			7,000	-7-2-		
Visitors:								
Visitors:								
	ormal operat	tional issues onsite	?					
No								
A (1 10)			10.15					
No	ional supplie	s/equipment needec	d? If so, what items and v	wnen?				
NO								
Have there been an	y changes to	the current schedu	ile, including volumes ne	eded by clien	1?			
No	•							
	any operation	onal feedback (posit		1	1	VTO		
Person: No	•		Company:	<u> </u>	1	хто	,,,,,,,	
Additional Cor	mments							
· · · · · · · · · · · · · · · · · · ·								
Peformed JSA, starte	ed raining thro	oughout the night. Po	sidon Tank is filled for nex	t Frac.				

Date:	9/	9/2012		Report	Number:	(	91
					Number:		8
	_,						•
Client:		XTO			hift Onsite Time:	6:00:00AM	am/pm
Location:		ash 29		S	hift Offsite Time:	18:00	am/pm
Site Contact:		Jackson		D1	0	12 hrs Total h Processing Water	
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Process	ing vvaler
Processing Hi	s Today:	3 hrs	Cumulativ	e Processing	Hrs:	399	hrs
BBLS Processe		1,230 bbls		BBLS Proces		180,61	16 bbls
BBLS/Hr Prod		512.5	Cumulative	BBLS/Hr Proc	452.7	452.7 bbl/hr	
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		neth Erler	10:00		108	7.56	0.895
Crew			12:00		108	6.89	0.437
	R	lay 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
			Chemical	Usage	Start Inv.	End Inv.	On Orde
			HcL Acid	0	6,000	5,950	NO
			Sodium Hydroxide	0	5,550	5,400	No
Visitors:	Во	Jackson					
Visitors:							
Visitors:			<u> </u>				
Vere there any abr	normal operat	tional issues onsite	.?				
lo		· · · · · · · · · · · · · · · · · · ·					
					- <del></del>		
re there any addit	ional supplie	s/equipment neede	d? If so, what items and v	when?			
lo							
	y changes to	the current schedu	ule, including volumes ne	eded by clien	17		
iave there been ar							
lo	I any one sati	anal foodback (nast	tive or negative\?				
o las client provided	any operation	onal feedback (posi			1	XTO	
lo	any operatio	onal feedback (posi	tive or negative)?  Company:		1	хто	
as client provided Person:		onal feedback (posi				хто	

	n/	10/2012		Panori	Number:		92		
Date:	9/	10/2012			Number:		8		
				<u> </u>	10	,			
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pm		
Location:	N	ash 49		S	hift Offsite Time:	18:00	am/pm		
Site Contact:	Во	Jackson				12 hrs	Total hr		
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Process	ing Water		
<del></del>									
Processing Hr		4 hrs		re Processing		403	hrs		
BBLS Processe		2,277 bbls		BBLS Proce		<del> </del>	93 bbls		
BBLS/Hr Prod	essed:	512.5	Cumulative	BBLS/Hr Proc	essea:	453.8 bbl/hr			
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit		
Lead Operator	Ken	neth Erler	10:00		110	7	0.198		
Crew	Eddie	McGruder	12:00		110	7.43	0.089		
	R	ay Lee	13:00		N/A	N/A	N/A		
	Ada	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		
			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:									
ere there any abn	ormal operat	ional issues onsite	?						
D									
	onal supplie	s/equipment neede	d? If so, what items and v	when?					
VC SCH 80									
						······			
	y changes to	the current schedu	le, including volumes ne	eded by client	!?				
0									
					•				
as client provided	any oneratio	onal feedback (posit	ive or negative)?						
onon provided	any operation	ooundon (posit	Company:	I	1	хто			
Person:			1	<u> </u>	L	A.10			
Person:									

Date:	9/:	11/2012		Report	Number:	9	93		
					lumber:	*****	8		
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pm		
Location:	N	lash 49		Shift Offsite Time:		1:00 PM	am/pm		
Site Contact:	Во	Jackson				5 hrs Total hr			
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Process	ing Water		
		·							
Processing Hr		1 hrs		e Processing		404	hrs		
BBLS Processe		935 bbls		BBLS Proces			28 bbls		
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	455.0 bbl/hr			
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity		
Lead Operator		Ray Lee	10:00		110	7	0.198		
Crew	Eddie	e McGruder	12:00		N/A	N/A	N/A		
			13:00		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	5,800	5,750	NO		
			Sodium Hydroxide	0	5,250	5,200	No		
Visitors:	Во	Jackson							
Visitors:									
Visitors:									
						<del></del>			
	ormal operat	tional issues onsite	9?						
	ormal operat	tional issues onsite	e?						
	ormal operat	tional issues onsite	e?						
	ormal operat	tional issues onsite	e?						
lo				when?					
ve there any addit			e? ed? If so, what items and v	when?					
lo				when?					
ve there any addit				when?					
ve there any addit	ional supplie	s/equipment needs	ed? If so, what items and v		17				
ve there any addit	ional supplie	s/equipment needs			17				
ve there any addit	ional supplie	s/equipment needs	ed? If so, what items and v		7				
ve there any addit PVC SCH 80	ional supplie ly changes to	s/equipment neede	ed? If so, what items and v		.?				
re there any addit VC SCH 80 lave there been and	ional supplie ly changes to	s/equipment needs	ed? If so, what items and value, including volumes ne		?	VIO			
ve there any addit PVC SCH 80	ional supplie ly changes to	s/equipment neede	ed? If so, what items and v		?	XTO			
ve there any addit PVC SCH 80	ional supplie ny changes to l any operatio	s/equipment neede	ed? If so, what items and value, including volumes ne		?	XTO			

Date:	9/	12/2012		Report	Number:		94	
Dute.	<u> </u>	12,2012			Number:		8	
			!					
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pm	
Location:	N	lash 49			hift Offsite Time:	18:00:00 PM	am/pm	
Site Contact:	Во	Jackson				12 hrs	Total hrs.	
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Processing Water		
Processing Hr	s Today:	6 hrs	Cumulativ	e Processing	Hrs:	410	hrs	
BBLS Processe	ed Today:	2,513 bbls	Cumulative BBLS Processed: 186,341 bbls					
BBLS/Hr Proc	cessed:	512.5	Cumulative	BBLS/Hr Proc	essed:	454.5	bbl/hr	
	ı .				I		- 0.05	
Lead Supervisor:		nmy Dean	Readings: 10:00	flow back	Volts/Amps 110	р <b>Н</b> 7	Turbidity 0.198	
Lead Operator Crew		Ray Lee e McGruder	12:00		110	7.65	0.198	
CIEW	Ludie	, IVICOTUGE!	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 Aci <b>d</b>	0	5,750	5,500	NO	
			Sodium Hydroxide	0	5,200	5,000	No	
Visitors:	Во	Jackson						
Visitors:							<u> </u>	
Visitors:				l	<u> </u>		<u> </u>	
Were there any ahr	ormal operat	tional issues onsite?	7					
No	ionnai operai	ional issues onsite						
Are there enved dit	ianal aumalia		do if an order terms and .					
PVC SCH 80	ionai supplie	s/equipment needed	d? If so, what items and w	wnen?				
1 40 0011 00								
Have there been an	y changes to	the current schedu	ile, including volumes ne	eded by client	?			
No								
Has client provided Person:	l any operation	onal feedback (posit	tive or negative)?  Company:	1	T	VTO		
reison.	•		Company.			хто		
Additional Co	mments							
Parformed ISA design	k nlanty of flu	id and watch out for e	each other					
i Criorineu JSA ukriil	r bienth oi ili	ia ana waten out for t	each ouler.					

Date:	0/	13/2012		Penort	Number:		95
Date.		13/2012			lumber:		8
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm
Location:		ash 49			hift Offsite Time:	18:00:00 PM	am/pm
Site Contact:	Во	Jackson				12 hrs Total hrs.	
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Process	ing Water
Processing Hr	s Today:	6 hrs	Cumulativ	e Processing	Hrs:	416	hrs
BBLS Processe		2,206 bbls		BBLS Proces			47 bbls
BBLS/Hr Prod	essed:	sed: 512.5 Cumulative BBLS/Hr Processed:				453.2	bbl/hr
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		ay Lee	10:00	1104 Oack	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
			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
			HcL Acid	0	5,750	5,500	NO
			Sodium Hydroxide	0	5,200	5,000	No
Visitors: Visitors:	Bo	Jackson	<del></del>				<u>,</u>
Visitors:							
Visitors.				1			
Were there any abn	ormal operat	ional issues onsite	?				
No							
	ional supplies	s/equipment needed	d? If so, what items and v	when?			
PVC SCH 80							
	y changes to	the current schedu	le, including volumes ne	eded by client	?		
No							
Person:	any operation	nal feedback (posit	Company:			хто	
			- Carrigancy .	l	l	7.10	
Additional Cor	nments	<del></del>	·				
	-						
Performed JSA drink	plenty of fluid	l and watch out for e	ach other.				

Date:	9/	14/2012		Report	Number:	Ç	 96
Date.	<u> </u>	14/2012			lumber:		8
			•				
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	ash 49		S	hift Offsite Ti <b>m</b> e:	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
Dragonina Ur	a Tadaw	6 hrs	Cumulativ	e Processing	Uro.	416	hrs
Processing Hrs BBLS Processe		2,206 bbls		BBLS Proces			17 bbls
BBLS/Hr Proc		512.5		BBLS/Hr Proc			bbl/hr
BBLS/HI FIOC	esseu.	512.5	Cumulative	BBLS/HI FIOC	esseu.	433.2	001/111
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		m Pollard	10:00		110	6.89	1.785
Crew	R	ay Lee	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
			20:00		N/A	N/A	N/A
			Chemical	Usage	Start Inv.	End Inv.	On Order
L			HcL Acid	0	5,750	5,500	NO
Visitors:	Po	Jackson	Sodium Hydroxide	0	5,200	5,000	No
Visitors:	ВО	Jackson					
Visitors:							
VISILUIS. (							
¥131tUI3. [						•	
VISILUIS.							
	ormal operat	ional issues onsite	27				
	ormal operat	ional issues onsite	2				
Vere there any abn	ormal operat	ional issues onsite	37				
Vere there any abn	ormal operat	ional issues onsite	e?				
Vere there any abn	ormal operat	ional issues onsite	97				
Vere there any abn			ed? If so, what items and v	when?			
Vere there any abn				when?			
Vere there any abn				when?			
Vere there any abn				when?			
Vere there any abnotes  The there any addition of the second seco	ional supplie	s/equipment neede			7		
Vere there any abnoto	ional supplie	s/equipment neede	ed? If so, what items and v		17		
Vere there any abnotes  The state of the sta	ional supplie	s/equipment neede	ed? If so, what items and v		17		
Vere there any abnote there any additional very support to the sup	ional supplies y changes to	s/equipment needs the current sched	ed? If so, what items and v		?		
Vere there any abnute there any additive SCH 80	ional supplies y changes to	s/equipment neede	ed? If so, what items and vule, including volumes ne		17	YTO	
Vere there any abnote there any additional very support to the sup	ional supplies y changes to	s/equipment needs the current sched	ed? If so, what items and v		17	хто	
Vere there any abnute there any additive SCH 80  lave there been and lo las client provided Person:	onal supplies y changes to any operatio	s/equipment needs the current sched	ed? If so, what items and vule, including volumes ne		?	XTO	
/ere there any abn  o  re there any additi  VC SCH 80  ave there been an  o  as client provided	onal supplies y changes to any operatio	s/equipment needs the current sched	ed? If so, what items and vule, including volumes ne		.?	XTO	

Date:	9/	15/2012		Report	: Number:		97
Date.	3/	13/2012			Number:		8
Client:		XTO			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:	Maint Maint	enance
Processing Hrs	s Today:	O hrs	Cumulativ	re Processing	Hrs:	416	hrs
BBLS Processe		0 bbls		e BBLS Proces			47 bbls
BBLS/Hr Proc		512.5		BBLS/Hr Proc			bbl/hr
DDEG/III 1 100	,coocu.	312.3	Camalative	DDEG/III I FOC	ooscu.	400.2	DD:::::
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		m Pollard	10:00		N/A	N/A	N/A
Crew		lay Lee	12:00		N/A	N/A	N/A
	-	,	14:00		N/A	N/A	N/A
İ			16:00		N/A	N/A	N/A
			18:00	<del> </del>	N/A	N/A	N/A
			20:00		N/A	N/A	N/A
ľ						,	,
			Chemical	Usage	Start Inv.	End Inv.	On Order
ļ			HcL Acid	0	5,500	5,500	NO
,		•	Sodium Hydroxide	0	5,000	5,000	No
Visitors:	Во	Jackson				ŕ	
Visitors:							
Visitors:							
			<del> </del>				
Were there any abn	ormal operat	tional issues onsite	?				
No							
	ional supplie	s/equipment neede	d? If so, what items and	when?			
PVC SCH 80							
Have there been an	v changes to	the current echod	ıle, including volumes ne	adad by clian	20		
No	y changes to	ule current scrieut	are, moraumy volumes ne	eded by cilem			
Has client provided	any operation	onal feedback (posi	tive or negative)?				
Person:			Company:			XTO	,-
Additional Cor	nments						
Maintenance and Re	nair						
ameenance and Ne	han						

· · · · · · · · · · · · · · · · · · ·			i	_	· · · · · · · · · · · · · · · · · ·			
Date:	9/1	16/2012			Number:		98	
				Unit I	Number:		8	
Client:		хто		s	hift Onsite Time:	6:00:00AM	am/pm	
Location:	N	ash 49		Shift Offsite Time:		18:00:00 PM	am/pm	
Site Contact:	Во	Jackson				12 hrs	Total hrs.	
Site Contact:	Sam	ımy Dean		Present	Onsite Activities:	Maintenance		
Processing Hr		0 hrs		e Processing		416	hrs	
BBLS Processe		0 bbls		BBLS Proce			17 bbls	
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	cessed: 453.2 bbl/			
Lead Supervisor:	Sam	my Dean	Readings:	flow back	Volts/Amps	рН	Turbidity	
Lead Operator		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	
ļ			18:00	y.,	N/A	N/A	N/A	
			20:00		N/A	N/A	N/A	
	<del></del>		Chemical	Usage	Start Inv.	End Inv.	On Order	
			HcL Acid	0	5,500	5,500	NO	
ı	·		Sodium Hydroxide	0	5,000	5,000	No	
Visitors:	Во	Jackson	,		· · · · · · · · · · · · · · · · · · ·	ŕ		
Visitors:								
Visitors:								
Vere there any abn	ormal operat	ional issues onsite	?					
ro those any additi	onal cumplio	s/aquinment noodo	d? If so, what items and v	whon?				
VC SCH 80	onai supplies	s/equipment neede	u: II so, what items and t	WIGHT				
			÷+-					
lave there been an	v changes to	the current schedu	ule, including volumes ne	eded by clien	12			
lo	y onungeo to	the burrent bones	ale, molaumy volumes ne	- Cuba by Chon		-		
as client provided	any operatio	nal feedback (posi	tive or negative)?			· ·		
Person:	any specialio	The second secon	Company:			XTO		
	trying to gravit	y feed clean water f	rom holding tanks to Poseid	don Tank.				
Additional Cor	nments !							

Date:	0.1	17/2012	1	Dana-	Number:		9	
	9/	17/2012	·		lumber:		8	
			l	<u> </u>				
Client:		хто		S	hift Onsite Time:	6:00:00AM	am/pn	
Location:	N	lash 49		Shift Offsite Time:		18:00:00 PM	am/pn	
Site Contact:		Jackson				12 hrs	Total hi	
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Mainte	enance	
Processing Hrs	s Today:	0 hrs	Cumulativ	e Processing	Hre.	416	hrs	
BBLS Processe		0 bbls	Cumulative Processing Hrs: 416 hi Cumulative BBLS Processed: 188,547 b					
BBLS/Hr Proc		512.5		BBLS/Hr Proc			bbl/hr	
BBLOMITTOC	esseu.	312.3	Oumander	DDEG/(11 1 100				
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidi	
Lead Operator		e McGruder	10:00		N/A	N/A	N/A	
Crew	F	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	
ļ.			Chamical	Lisago	Start Inv	End Inv.	On Ord	
}			Chemical HcL Acid	Usage 0	Start Inv. 5,500	5,500	NO	
L			Sodium Hydroxide	0	5,000	5,000	No	
Visitors:	Bo	Jackson	30didili riyaroxide		3,000	3,000	110	
Visitors:		baokson	*					
Visitors:								
				ı		1		
		***************************************						
ere there any abno	ormal operat	tional issues onsite	?					
	ormal opera	tional issues onsite	9?					
	ormal opera	tional issues onsite	97					
	ormal opera	tional issues onsite	97					
	ormal operat	tional issues onsite	97					
				when?				
			ed? If so, what items and v	when?				
e there any additi				when?				
e there any additi				when?				
e there any additi C SCH 80	onal supplie	s/equipment neede			?			
e there any additi C SCH 80	onal supplie	s/equipment neede	ed? If so, what items and v		?			
e there any additi /C SCH 80 ive there been an	onal supplie	s/equipment neede	ed? If so, what items and v		??			
e there any additi 'C SCH 80 ve there been any	onal supplie y changes to	s/equipment neede	ed? If so, what items and v		17			
e there any additi 'C SCH 80  Ive there been any	onal supplie y changes to	s/equipment neede	ed? If so, what items and value, including volumes ne		?			
e there any additi /C SCH 80  Ive there been any is client provided Person:	onal supplie y changes to any operatio	s/equipment neede  the current sched	ed? If so, what items and value, including volumes ne	eded by client	??	хто		
e there any additi C SCH 80  ve there been any s client provided Person:	onal supplie y changes to any operatio	s/equipment neede  the current sched	ed? If so, what items and value, including volumes ne	eded by client	?	хто		

Date:	9/	18/2012		Report	Number:	1	00	
Date.		10,2012		<del></del>	Number:		8	
							<del></del>	
Client:		XTO			hift Onsite Time:	6:00:00AM	am/pm	
Location: Site Contact:		ash 49 Jackson			hift Offsite Time:	18:00:00 PM 12 hrs	am/pm Total hrs.	
Site Contact:		my Dean		Present	Onsite Activities:		enance	
Processing Hr	s Today:	8 hrs	Cumulativ	e Processing	Hrs:	424	hrs	
BBLS Processe	d Today:	3,005 bbls		e BBLS Proce			52 bbls	
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Processed: 451.8 bbl/h				
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity	
Lead Operator		McGruder	10:00		110	6.89	0.785	
Crew	Crew Ray 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 N/A	N/A N/A	
			20:00		IN/A	N/A	IN/A	
			Chemical	Usage	Start Inv.	End Inv.	On Order	
		· · · · · · ·	Hcl. Acid	0	5,500	5,200	NO	
			Sodium Hydroxide	0	5,000	4,750	No	
Visitors:	Во	Jackson	-					
Visitors:	Selec	ct Services						
Visitors:								
W		ional issues onsite?	•					
No	ormai operat	ional issues onsite						
Are there any addit	ional supplie	s/equipment needed	1? If so, what items and v	when?				
PVC SCH 80								
11 41 1		46						
Have there been an	y cnanges to	tne current schedul	le, including volumes ne	eaea by clien	i r			
Has client provided	any operation	nal feedback (positi	ive or negative)?		2			
Person:			Company:			хто		
Additional Cor	mments							
Select Services will u	se teir pump t	o pump water from h	nolding tanks to Poseidon	Tank.				

Date:	9/:	19/2012		Penor	Number:	1	01	
Date.		15/2012			Number:		8	
Client: Location:		XTO ash 49			hift Onsite Time: hift Offsite Time:	6:00:00AM 14:00:00 PM	am/pm	
Site Contact:		Jackson		3	niit Offsite Time:	8 hrs	am/pm Total hrs.	
Site Contact:		nmy Dean		Present	Onsite Activities:		enance	
Processing Hr	s Today:	3 hrs	Cumulativ	e Processing	Hrs:	427	hrs	
BBLS Processe		1,366 bbls	Cumulative	e BBLS Proce	ssed:		192,918 bbls	
BBLS/Hr Proc	essed:	512.5	Cumulative	umulative BBLS/Hr Processed: 451.8 bb				
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity	
Lead Operator	Eddie	McGruder	10:00		110	6.89	0.785	
Crew	Crew Ray 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 20:00		N/A N/A	N/A	N/A	
			20:00		IN/A	N/A	N/A	
İ			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:		Jackson						
Visitors: Visitors:		ct Services						
VISITORS:		o Wells		I				
<b>Vere there any abn</b>	ormal operat	ional issues onsite?	?					
Are there any additi	onal supplies	s/equipment needec	1? If so, what items and v	when?				
PVC SCH 80			, , , , , , , , , , , , , , , , , , , ,					
Have there been any	y changes to	the current schedu	le, including volumes ne	eded by client	?			
<b>VO</b>								
las client provided	any operatio	nal feedback (posit	ive or negative)?					
Person:			Company:			хто		
Addition of C								
Additional Con	nments							
elect Services will us	se teir pump t	o pump water from h	nolding tanks to Poseidon	Tank.				

Date:	9/2	20/2012		Report	Number:	1	02	
				Unit I	Number:		8	
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm	
Location:	N	ash 49		S	hift Offsite Time:	20:00:00 PM	am/pm	
Site Contact:		Jackson				14 hrs	Total hrs	
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Mainte	enance	
Processing Hr		8 hrs		e Processing		435	hrs	
BBLS Processe	_	4,476 bbls		BBLS Proces			94 bbls	
BBLS/Hr Prod	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	453.8	.8 bbl/hr	
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidit	
Lead Operator		McGruder	10:00		110	7.78	1.90	
Crew		ay Lee	12:00		110	7.13	.483	
			14:00		110	7.09	.319	
			16:00		110	7	0.209	
			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	Osage 0	5,100	4,800	NO	
ı			Sodium Hydroxide	0	4,700	4,400	No	
Visitors:	Во	Jackson	Journal 11 / Grant 1 / Gra		1,7.00	.,		
Visitors:		t Services	**************************************					
Visitors:	В	o Wells						
<b>/ere there any abn</b> o	ormal operat	ional issues onsite	?	.,				
re there any addit	onal supplies	s/equipment needed	d? If so, what items and v	when?				
		the current schedu	ile, including volumes ne	eded by client	?			
	y changes to	the culterit seriese						
	y changes to	The darrent School						
0		nal feedback (posit	ive or negative)?			···.		
0			ive or negative)?  Company:			XTO		
o as client provided	any operatio		<del></del>			хто		

Date:	9/	21/2012		Report	Number:	1	03	
		-		Unit I	Number:		8	
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm	
Location:	N	lash 49		S	hift Offsite Time:	20:00:00 PM	am/pm	
Site Contact:	Во	Jackson				14 hrs	Total hrs.	
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Maint	enance	
Processing Hr	s Today:	2 hrs	Cumulativ	e Processing	Hrs:	437	hrs	
BBLS Processe	d Today:	1,967 <b>bb</b> ls	Cumulative BBLS Processed: 199,361 bbls					
BBLS/Hr Proc	essed:	512.5	Cumulative	456.2	bbl/hr			
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity	
Lead Operator		McGruder	10:00	HOW DACK	110	7.2	1.15	
	Crew Ray Lee		12:00		N/A	N/A	N/A	
Ciew	Christopher Perry		14:00		N/A	N/A	N/A	
	0111100	opnor i ony	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	4,800	4,750	NO	
			Sodium Hydroxide	0	4,400	4,350	No	
Visitors:	Во	Jackson						
Visitors:		ct Services		ļ				
Visitors:	В	o Wells						
	ormal operat	ional issues onsite?	?					
No								
Are there any additi	ional supplio	s/squipment peeded	? If so, what items and \	whom?				
PVC SCH 80	onai suppne	s/equipment needed	ir ii so, what items and t	wiletts				
					40 - 4			
Have there been an	v changes to	the current schedu	le, including volumes ne	eded by client	?			
No				<b>,</b>				
	any operation	nal feedback (positi		<u> </u>	ı			
Person:			Company:			хто		
Additional Cor	nments							
JSA performed, did n	naintenance o	n units and housekee	ping.					

Date:	9/2	22/2012		Report	Number:	1	04
				Unit N	lumber:		8
Client:		XTO		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				14 hrs	Total hrs.
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Maint	enance
Processing Hr		4 hrs		e Processing		441	hrs
BBLS Processe		2,982 bbls		BBLS Proces			43 bbls
BBLS/Hr Proc	cessed:	512.5	Cumulative	BBLS/Hr Proc	essed:	458.8 bbl/hr	
146	r		D #	£11	\/=lb=/\$		T
Lead Supervisor:		nmy Dean	Readings:	flow back	Volts/Amps	pH 6.84	Turbidity 1.67
Lead Operator Crew		McGruder ay Lee	10:00 12:00		110 110	6.84 7.35	1.02
Crew		opher Perry	14:00		N/A	7.33 N/A	N/A
	Cilist	орпеттепу	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	4,750	4,600	NO
			Sodium Hydroxide	0	4,350	4,200	No
Visitors:		Jackson					
Visitors:	-	ct Services					
Visitors:	В	o Wells		<u> </u>			
N/an there are about		i ii7	<u> </u>				
No	iormai operat	ional issues onsite?				D-10	
Are there any addit	ional supplies	s/equipment needed	1? If so, what items and v	when?			
PVC SCH 80							
					·		
Have there been ar	y changes to	the current schedu	le, including volumes ne	eded by client	?		
No							
Has client provided	l any operatio	nal feedback (positi	ive or negative)?				
Person:	- any operation	,ooubaan (positi	Company:			XTO	
Additional Co	mments						
			mino fillod beldiness 1.	+n 131	on colort well see	ilan to como =:	it and transfer
water to poseidon to		n units and nousekee	eping. Filled holding tanks	to 13 waiting (	ou seiect meil selv	ice to come or	it and transfer

water to poseidon tank.

Are there any addit PVC SCH 80  Have there been an	y changes to		d? If so, what items and vale, including volumes ne		?		
Are there any addit PVC SCH 80  Have there been an					?		
Are there any addit PVC SCH 80  Have there been an					?		
No  Are there any addit  PVC SCH 80							
No Are there any addit	ional supplies	s/equipment needed	d? If so, what items and v	vhen?			
No	ional supplies	s/equipment needed	d? If so, what items and v	vhen?			
Were there any abn	ormal operat	ional issues onsite	?				
- 10,10,10,							
Visitors:		o Wells				-	
Visitors:		Jackson ct Services					<del></del>
Visitors:	Do.	lookson	Sodium Hydroxide	0	4,200	4,100	No
			HcL Acid	0	4,600	4,500	NO No
			Chemical	Usage	Start Inv.	End Inv.	On Order
			20:00		N/A	N/A	N/A
!			18:00		N/A	N/A	N/A
	O milos	Sprice V City	16:00		N/A	N/A	N/A
CIEW	Christopher Perry		14:00	<del></del>	N/A	N/A	N/A
Lead Operator Crew		lay Lee	12:00		N/A	N/A	N/A
Lead Supervisor:		nmy Dean McGruder	Readings: 10:00	flow back	Volts/Amps 110	рН 6.79	Turbidity 1.91
					I'''	1	- 1:1:
BBLS/Hr Prod	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	460.0	bbl/hr
BBLS Processe	ed Today:	1,441 bbls	Cumulative	BBLS Proces	ssed:	203,78	34 bbls
Processing Hr	s Today:	2 hrs	Cumulativ	e Processing	Hrs:	443	hrs
			'				
Site Contact:		nmy Dean	-	Present	Onsite Activities:		enance
Site Contact:		Jackson			inconsite rime.	14 hrs	Total hrs.
Client: Location:		ash 49			hift Onsite Time: hift Offsite Time:	6:00:00AM 12:00 PM	am/pm
Client		VTO	;		hift Oneite Time.	C.00.00AAA	am/pm
				Unit	lumber:		8
	9/2	23/2012			Number:		05
Date:							

Date:	9/	24/2012		Report	Number:	1	06	
Dutc.	<i>J</i> /	24/2012			lumber:		8	
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pn	
Location:	N	lash 49		S	hift Offsite Time:	12:00 PM	am/pr	
Site Contact:		Jackson				14 hrs	Total h	
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Process Water	er/Mainten	
Processing Hr	s Today:	2 hrs	Cumulativ	e Processina	Hre.	445	hrs	
BBLS Processe		1,156 bbls	Cumulative Processing Hrs: 445 hrs Cumulative BBLS Processed: 204,940 bb					
BBLS/Hr Prod		512.5		Cumulative BBLS/Hr Processed:		460.5 bbl/hr		
Lead Supervisor:	San	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidi	
Lead Operator		e McGruder	10:00	HOW Dack	110	7.54	0.897	
Crew		Ray Lee	12:00		N/A	N/A	N/A	
		opher Perry	14:00	****	N/A	N/A	N/A	
		nald White	16:00		N/A	N/A	N/A	
	Tregitiald Willite		18:00		N/A	N/A	N/A	
			20:00		N/A	N/A	N/A	
						·		
			Chemical	Usage	Start Inv.	End Inv.	On Ord	
			HcL Acid	0	4,500	4,450	NO	
			Sodium Hydroxide	0	4,100	4,050	No	
Visitors:		Jackson						
Visitors:		ct Services						
Visitors:	В	o Wells						
	ormal operat	tional issues onsite	?					
)								
		u,						
	onal supplie	s/equipment needed	d? If so, what items and v	vhen?				
e there any addit	onal supplie	s/equipment needed	d? If so, what items and v	vhen?	18			
	onal supplie	s/equipment neede	d? If so, what items and v	vhen?		-		
C SCH 80								
C SCH 80			d? If so, what items and v		?			
C SCH 80					?			
C SCH 80					?			
C SCH 80	y changes to	the current schedu	lle, including volumes ne		?			
C SCH 80  ve there been an  s client provided	y changes to		ile, including volumes ne		?			
C SCH 80	y changes to	the current schedu	lle, including volumes ne		?	хто		
C SCH 80  ve there been an  s client provided	y changes to	the current schedu	ile, including volumes ne		?	хто		

water to poseidon tank.

Date:	9/	/25/2012	1	Report	Number:	1	07	
Date		23/2012			Number:		8	
			'					
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm	
Location:	N	Nash 49		S	hift Offsite Time:	12:00 PM	am/pm	
Site Contact:	Во	Jackson				6 hrs	Total hrs.	
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Mainte	enance	
			<del></del>					
Processing Hrs		0 hrs		e Processing		445	hrs	
BBLS Processe		0 bbls	Cumulative BBLS Processed: 204,940 bbls					
BBLS/Hr Proc	essed:	512.5	Cumulative	Cumulative BBLS/Hr Processed: 460.5 bbl/hr				
Lead Supervisor:	Sar	mmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity	
Lead Operator		e McGruder	10:00		N/A	N/A	N/A	
Crew			12:00		N/A	N/A	N/A	
		topher Perry	14:00		N/A	N/A	N/A	
		inald White	16:00		N/A	N/A	N/A	
			18:00		N/A	N/A	N/A	
Ì	L		20:00		N/A	N/A	N/A	
			Chemical	Usage	Start Inv.	End Inv.	On Order	
Į			HcL Acid	0	4,450	4,450	NO	
			Sodium Hydroxide	0	4,050	4,050	No	
Visitors:		Jackson						
Visitors:		ect Services						
Visitors:	В	Bo Wells		1				
		~;						
Were there any ahn	ormal onera	tional issues onsite	27					
	ormal opera	tional issues onsite	e?					
	ormal opera	tional issues onsite	e?					
	ormal opera	ntional issues onsite	e?					
	ormal opera	ntional issues onsitu	e?					
Were there any abn				when?				
No  Are there any additi			e? ed? If so, what items and v	when?				
No  Are there any additi				when?				
No  Are there any additi PVC SCH 80	ional supplie	es/equipment needo	ed? If so, what items and v					
No  Are there any additi PVC SCH 80	ional supplie	es/equipment needo			17			
Are there any additi PVC SCH 80 Have there been an	ional supplie	es/equipment needo	ed? If so, what items and v		17			
Are there any additi PVC SCH 80 Have there been an	ional supplie	es/equipment needo	ed? If so, what items and v		1?			
Are there any addition of the second of the	ional supplie	es/equipment neede	ed? If so, what items and v		17			
Are there any addition of the second of the	ional supplie	es/equipment neede	ed? If so, what items and value, including volumes ne		i?	YTO		
Are there any addition PVC SCH 80  Have there been an No	ional supplie	es/equipment neede	ed? If so, what items and v		17	XTO		
Are there any addition of the second of the	ional supplie by changes to l any operatio	es/equipment neede	ed? If so, what items and value, including volumes ne		r?	XTO		

Date:	9/	26/2012		Report	Number:	1	08
Duto.		20,2012			lumber:		8
Client:		XTO		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:	San	nmy Dean		Present	Onsite Activities:	Process Water	er/Maintenan
Processing Hr	s Today	4 hrs	Cumulativ	re Processina	Hrs.	449	hrs
BBLS Processe		2,970 bbls	Cumulative Processing Hrs: Cumulative BBLS Processed:			207,910 bbls	
BBLS/Hr Proc		512.5		BBLS/Hr Proc			bbl/hr
Lead Supervisor:	Sam	nmy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		McGruder	10:00	IION DUCK	110	7.10	3.31
Crew		lay Lee	12:00		110	7.65	1.96
		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 Order
			HcL Acid	0	4,450	4,200	NO No
Visitors:	Bo	Jackson	Sodium Hydroxide	0	4,050	3,800	No
Visitors:		ct Services					
Visitors:		o Wells					
<b>Vere there any abn</b> No	ormal operat	tional issues onsite	?				
	ional supplie	s/equipment neede	d? If so, what items and v	when?			
Are there any addit							
PVC SCH 80	y changes to	the current schedu	ale, including volumes ne	eded by client	?		
PVC SCH 80  Have there been an		the current schedu		eded by client	?		
PVC SCH 80  Have there been an				eded by client	?	хто	

Tank.

Doto	0/2	7/2012		Donor	Number	1	09
Date:	9/2	27/2012			Number: Number:		8
				Unit	vumber:		0
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:	Во	Jackson				6 hrs	Total hrs
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Process Water	er/Maintenai
Processing Hr		2 hrs	Cumulative Processing Hrs:			451	hrs
BBLS Processe		1,045 bbls	Cumulative BBLS Processed: 208,955 bbls				
BBLS/Hr Proc	essed:	512.5	Cumulative	ulative BBLS/Hr Processed: 463.3			
Lead Supervisor:	Sam	imy Dean	Readings:	flow back	Volts/Amps	рН	Turbidity
Lead Operator		McGruder	10:00		110	7.54	1.19
Crew		ay Lee	12:00		N/A	N/A	N/A
		opher Perry	14:00		N/A	N/A	N/A
		nald White	16:00		N/A	N/A	N/A
	3		18:00		N/A	N/A	N/A
			20:00		N/A	N/A	N/A
			Character I		Start Inc.	Fad law	0- 0-4-
			Chemical HcL Acid	Usage	Start Inv.	End Inv.	On Orde
				0	4,200 3,800	4,100 3,700	NO No
Visitors:	Bo	Jackson	Sodium Hydroxide	U	3,800	3,700	INO
Visitors:		et Services					
Visitors:		o Wells					
<b>Vere there any ab</b> r lo	ormal operat	ional issues onsite	?				
ve there any addit	ional supplies	s/equipment neede	d? If so, what items and v	when?			
lave there been an	y changes to	the current schedu	ule, including volumes ne	eded by clien	17		
las client provided	any operation	nal feedback (posi	tive or negative)?				
las client provided Person:	any operation	nal feedback (posi	Company:			хто	

Tank.Filled up Poseidon Tank Frac Job started today have enough water for job.

### Appendix B Table B-2

Date:	9/2	28/2012			Number:		10
				Unit I	Number:		8
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm
Location:	N	ash 49		S	hift Offsite Time:	12:00 PM	am/pm
Site Contact:	Во	Jackson				6 hrs	Total hrs
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Mainte	enance
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	451	hrs
BBLS Processed		0 bbls		e BBLS Proces		208,95	5 <b>bb</b> ls
BBLS/Hr Proc		512.5 Cumulative BBLS/Hr Processed: 463.3					bbl/hr
Lead Supervisor:	Sam	ımy 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
	<del></del>		20:00		N/A	N/A	N/A
t			Chemical	Usage	Start Inv.	End Inv.	On Orde
Ĺ			HcL Acid	0	4,100	4,100	NO
			Sodium Hydroxide	0	3,700	3,700	No
Visitors:		Jackson					
Visitors:		t Services					_
Visitors:	Вс	Wells			<u> </u>		
				***			<u></u>
lere there any abno	ormal operat	ional issues onsite	9?			***************************************	
O							
re there any addition	nal supplies	s/equipment needs	ed? If so, what items and v	when?			
VC SCH 80	энаг заррис.	orequipment neede	ar ir so, what items and t				
ave there been any	changes to	the current sched	ule, including volumes ne	eded by client	?		
0							
as client provided	any operatio	nal feedback (pos	tive or negative)?				
Person:			Company:			XTO	

Date:		20/2012		D	Number:	4	11	
Date.	9/	29/2012			Number: Number:		<u>11</u> 8	
				Unit	aumber.		0	
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm	
Location:	N	lash 49		S	hift Offsite Time:	12:00 PM	am/pn	
Site Contact:	Во	Jackson				6 hrs	Total hr	
Site Contact:	Sar	nmy Dean		Present	Onsite Activities:	Mainte	enance	
		<del> </del>				451	hrs	
Processing Hr		0 hrs		Cumulative Processing Hrs:				
BBLS Processe		0 bbls	Cumulative BBLS Processed: 208,955 bbls Cumulative BBLS/Hr Processed: 463.3 bbl/hr					
BBLS/Hr Proc	essed:	512.5	Cumulative	BBLS/Hr Proc	essed:	463.3	bbl/hr	
Lead Supervisor:	Sar	nmy Dean	Readings:	flow back	Volts/Amps	pН	Turbidit	
Lead Operator		e McGruder	10:00		N/A	N/A	N/A	
Crew	F	Ray Lee	12:00		N/A	N/A	N/A	
	Christopher 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 Ord	
	·		HcL Acid	0	4,100	4,100	NO	
•			Sodium Hydroxide	0	3,700	3,700	No	
Visitors:	Во	Jackson						
Visitors:	Sele	ct Services						
Visitors:	В	o Wells						
		~~~						
		tional issues onsite	ed? If so, what items and v	when?				
e there any additi C SCH 80	onal supplie	s/equipment neede			?			
e there any additi C SCH 80 ve there been an	onal supplie y changes to	s/equipment neede	d? If so, what items and v		17	хто		
e there any additi C SCH 80 ve there been an s client provided	onal supplie y changes to any operatio	s/equipment neede	ed? If so, what items and water including volumes ne		?	XTO		

		20/2012	1		Name to a second		40	
Date:	9/	30/2012			Number:		12	
				Unit I	Number:		8	
Client:		хто			hift Onsite Time:	6:00:00AM	am/pm	
Location:		lash 49			hift Offsite Time:	12:00 PM	am/pm	
Site Contact:		Jackson		3	mit Offsite fille.	6 hrs	Total hrs.	
Site Contact:		nmy Dean		Present	Onsite Activities:		enance	
			J					
Processing Hrs	Today:	0 hrs	Cumulativ	e Processing	Hrs:	451	hrs	
BBLS Processe		0 bbls		BBLS Proce		208,95	55 bbls	
BBLS/Hr Proc		512.5	Cumulative	BBLS/Hr Proc	essed:	463.3	3.3 bbl/hr	
					1	,. 1		
Lead Supervisor:		nmy Dean	Readings:	flow back	Volts/Amps	pH_	Turbidity	
Lead Operator		McGruder	10:00		N/A	N/A	N/A	
Crew		Ray Lee	12:00		N/A	N/A	N/A N/A	
}		opher Perry nald White	14:00 16:00		N/A N/A	N/A N/A	N/A N/A	
-		naid Wille	18:00		N/A N/A	N/A	N/A	
ŀ			20:00		N/A	N/A	N/A	
ŀ			20.00		11/2	1177	1974	
ŀ			Chemical	Usage	Start Inv.	End Inv.	On Orde	
ŀ			HcL Acid	0	4,100	4,100	NO	
			Sodium Hydroxide	0	3,700	3,700	No	
Visitors:	Во	Jackson						
Visitors:	Sele	ct Services						
Visitors:	В	o Wells						
Vere there any abn	ormal operat	tional issues onsite	?					
re there any additi VC SCH 80	onal supplie	s/equipment neede	d? If so, what items and v	vhen?				
VC SCH 80			d? If so, what items and v		17			
VC SCH 80  ave there been any	y changes to		ule, including volumes ne		7			
VC SCH 80  ave there been any	y changes to	the current sched	ule, including volumes ne		27	хто		
ave there been any o as client provided Person:	y changes to	the current sched	ule, including volumes ne tive or negative)?		77	хто		
ave there been any	y changes to	the current sched	ule, including volumes ne tive or negative)?		27	хто		

Date:	10	)/1/2012		Report	Number:	1	113	
		, –, – – –			Number:		8	
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm	
Location:	N	lash 49		S	hift Offsite Time:	12:00 PM	am/pm	
Site Contact:	Во	Jackson				6 hrs	Total hrs.	
Site Contact:	San	nmy Dean		Present	Onsite Activities:	Maint	tenance	
Processing Hr		0 hrs		ve Processing		451	hrs	
BBLS Processe		0 bbls	Cumulative BBLS Processed: 208,955 bbls Cumulative BBLS/Hr Processed: 463.3 bbl/hr					
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	Turbidity	
Lead Operator		opher Perry	10:00	110W Back	N/A	N/A	N/A	
Crew		nald White	12:00		N/A	N/A	N/A	
0.0	, tog.	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	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	4,100	4,100	NO	
			Sodium Hydroxide	0	3,700	3,700	No	
Visitors:	Во	Jackson						
Visitors:	Selec	ct Services						
Visitors:	B	o Wells						
1.150								
	ormal operat	tional issues onsite	?				-	
No								
		A						
Are there any addit	ional supplie	s/equipment needs	ed? If so, what items and v	when?				
PVC SCH 80	опат опруже	олоцииринопе посис	a. II so, what kells and					
	y changes to	the current schedu	ule, including volumes ne	eded by client	?			
No			,					
Has client provided	l any operatio	onal feedback (posi	itive or negative)?					
Person:	uny operation	mai iceaback (posi	Company:	T	T	XTO		
						XIO		
Additional Cor	mments							
JSA performed Starte	ed sludge pull	today did not finishe	ed. Will continue pulling slu	idge on Tuesda	y 10/02/2012. Bo	Jackson will go	et an electrician	

out on location tomorrow to unpluged all the electricity.

Date: 10/5/2012				Report	Number:	1	14	
				lumber:		8		
Client:		XTO		S	hift Onsite Time:	6:00:00AM	am/pm	
Location:	Location: Nash 49			Shift Offsite Time:		12:00 PM	am/pm	
Site Contact:		Jackson				6 hrs	Total hrs.	
Site Contact:	Sam	nmy Dean		Present	Onsite Activities:	Rig	Down	
ig down units						0		
Processing Hrs Today: 0 hrs				Cumulative Processing Hrs:				
BBLS Processed Today: 0 bbls				BBLS Proces		208,955 bbls		
BBLS/Hr Proce	ssed:	512.5	Cumulative	BBLS/Hr Proc	essed:	#D	IV/0!	
Lead Supervisor:	Sarr	my Dean	Readings:	flow back	Volts/Amps	рН	Turbidity	
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	
			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	
<u> </u>			HcL Acid	0	4,100	4,100	NO	
_			Sodium Hydroxide	0	3,700	3,700	No	
Visitors:	Во	Jackson						
Visitors:	Rot	oert Rink						
Visitors:					,			
ere there any addition	rmal operat	ional issues onsite	9?					
e there any addition	nal supplies	s/equipment neede	d? If so, what items and v	vhen?				
ave there been any	101		ed? If so, what items and v		?			
ave there been any peration completed	changes to	the current sched	ule, including volumes ne		?			
	changes to	the current sched	ule, including volumes ne		?	XTO		
ave there been any peration completed as client provided a	changes to	the current sched	ule, including volumes ne		?	XTO		

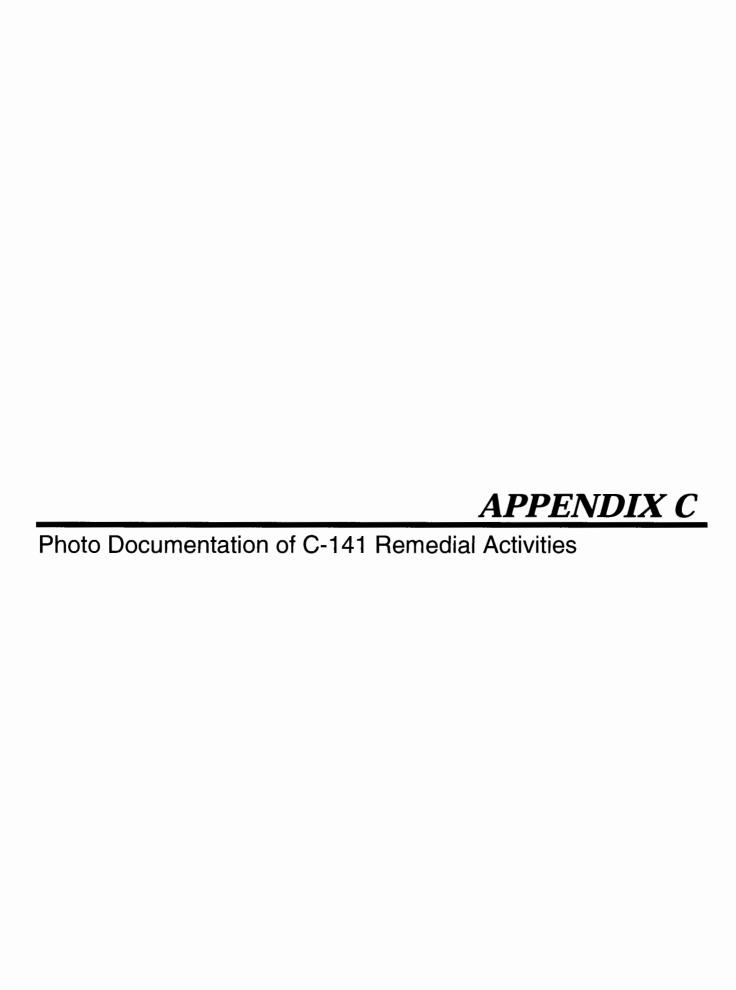




Figure 1: Stockpiling chloride impacted caliche near western 1/3 of location pad.



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.



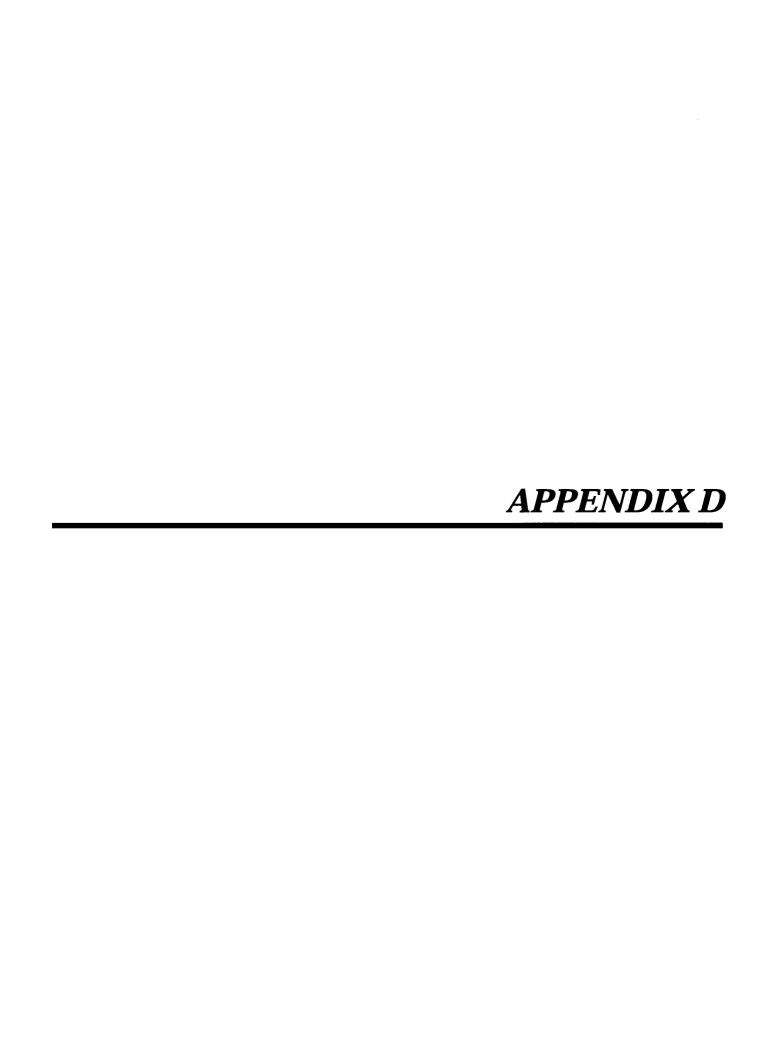
Figure 3: Stockpiled chloride impacted caliche being loaded for trasnport to R360.



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.





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

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 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> 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 Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

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

**Lab ID:** 1211653-001

Client Sample ID: Tank Composite

**Collection Date:** 11/13/2012

Received Date: 11/14/2012 10:50:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	GE 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 AM
EPA METHOD 8015B: GASOLINE R	ANGE				Analyst: NSB
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					Analyst: JRR
Chloride	7500	300	mg/Kg	200	11/20/2012 6:54:44 PM
EPA METHOD 8260B: VOLATILES					Analyst: RAA
Benzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
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 PM
1,2,4-Trimethylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,3,5-Trimethylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
1,2-Dichloroethane (EDC)	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
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 PM
1-Methylnaphthalene	ND	0.19	mg/Kg	1	11/21/2012 7:19:43 PM
2-Methylnaphthalene	ND	0.19	mg/Kg	1	11/21/2012 7:19:43 PM
Acetone	ND	0.73	mg/Kg	1	11/21/2012 7:19:43 PM
Bromobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
Bromodichloromethane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
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 PM
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 PM
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 PM
2-Chlorotoluene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
4-Chlorotoluene	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
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 PM
1,2-Dibromo-3-chloropropane	ND	0.097	mg/Kg	1	11/21/2012 7:19:43 PM
Dibromochloromethane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
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

- \* Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- 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
- S Spike Recovery outside accepted recovery limits 1 of 12

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

Lab ID: 1211653-001 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	****		W-7.		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 PM
Dichlorodifluoromethane	ND	0.049	mg/Kg	1	11/21/2012 7:19:43 PM
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 PM
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 PM
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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Sample pH greater than 2
- Reporting Detection Limit RL

- В 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 Page 2 of 12

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

Lab ID: 1211653-002 Client Sample ID: BG Composite Collection Date: 11/13/2012

Received Date: 11/14/2012 10:50:00 AM

			Treedived Butter 11/1 1/2012 10:00:00 11/1		
Analyses	Result	RL (	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANG	E ORGANICS				Analyst: <b>JMP</b>
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 RA	NGE				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
EPA METHOD 300.0: ANIONS					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

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH greater than 2
- Reporting Detection Limit RL

- В 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

Lab Order 1211653

Date Reported: 11/29/2012

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: R.T. Hicks Consultants, LTD

**Project:** XTO Energy Nash Unit 29

Lab ID: 1211653-002 Client Sample ID: BG 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 7:48:47 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 PI	
n-Butylbenzene	ND	0.15	mg/Kg	1	11/21/2012 7:48:47 PI	
n-Propylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
sec-Butylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
Styrene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
tert-Butylbenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
1,1,1,2-Tetrachloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
1,1,2,2-Tetrachloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
Tetrachloroethene (PCE)	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
trans-1,2-DCE	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
trans-1,3-Dichloropropene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
1,2,3-Trichlorobenzene	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PI	
1,2,4-Trichlorobenzene	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 P	
1,1,1-Trichloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
1,1,2-Trichloroethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 P	
Trichloroethene (TCE)	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
Trichlorofluoromethane	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
1,2,3-Trichloropropane	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PI	
Vinyl chloride	ND	0.049	mg/Kg	1	11/21/2012 7:48:47 PI	
Xylenes, Total	ND	0.099	mg/Kg	1	11/21/2012 7:48:47 PI	
Surr: 1,2-Dichloroethane-d4	94.2	70-130	%REC	1	11/21/2012 7:48:47 PI	
Surr: 4-Bromofluorobenzene	87.7	70-130	%REC	1	11/21/2012 7:48:47 PI	
Surr: Dibromofluoromethane	91.6	70-130	%REC	1	11/21/2012 7:48:47 PI	
Surr: Toluene-d8	105	70-130	%REC	1	11/21/2012 7:48:47 PI	
EPA METHOD 418.1: TPH					Analyst: LR\	
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	11/21/2012	

Matrix: SOIL

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- J Analyte detected below quantitation limits
- Sample pH greater than 2
- Reporting Detection Limit RL

- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits Page 4 of 12

## **QC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#:

1211653

29-Nov-12

**Client:** 

R.T. Hicks Consultants, LTD

**Project:** 

XTO Energy Nash Unit 29

Sample ID MB-4894

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 4894

RunNo: 7001

Prep Date: 11/19/2012 Analysis Date: 11/19/2012

Units: mg/Kg

SeqNo: 202928

Analyte

Result

SPK value SPK Ref Val %REC LowLimit PQL

SPK value SPK Ref Val

Qual

Chloride

Client ID:

ND

HighLimit

%RPD

1.5

TestCode: EPA Method 300.0: Anions

**RPDLimit** 

Sample ID LCS-4894

SampType: LCS

Batch ID: 4894

RunNo: 7001

LCSS Prep Date: 11/19/2012

Analysis Date: 11/19/2012

PQL

1.5

SeqNo: 202929

Units: mg/Kg

HighLimit

Qual

Analyte Chloride

90.0

%RPD **RPDLimit** 

14

15.00

%REC

90

LowLimit

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits

Sample pH greater than 2

В Analyte detected in the associated Method Blank

RPD outside accepted recovery limits

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Page 5 of 12

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1211653

29-Nov-12

Client:

R.T. Hicks Consultants, LTD

**Project:** 

Prep Date:

XTO Energy Nash Unit 29

Sample ID MB-4901

SampType: MBLK

TestCode: EPA Method 418.1: TPH

Client ID:

**PBS** 

11/19/2012

Batch ID: 4901 Analysis Date: 11/21/2012

**PQL** 

RunNo: 7021

SeqNo: 203589

Units: mg/Kg

HighLimit

**RPDLimit** 

%RPD

%RPD

Qual

Analyte Petroleum Hydrocarbons, TR

ND 20

SampType: LCS

Result

100

110

SPK value SPK Ref Val %REC LowLimit

TestCode: EPA Method 418.1: TPH

Client ID: LCSS

Batch ID: 4901

RunNo: 7021

Prep Date: 11/19/2012

Sample ID LCS-4901

Analysis Date: 11/21/2012

SeqNo: 203590

104

Units: mg/Kg

Analyte

PQL

20

SPK value SPK Ref Val %REC LowLimit 80 HighLimit

120

**RPDLimit** 

Qual

Petroleum Hydrocarbons, TR

SampType: LCSD

TestCode: EPA Method 418.1: TPH

Sample ID LCSD-4901 Client ID: LCSS02 Prep Date: 11/19/2012

Batch ID: 4901

RunNo: 7021 SeqNo: 203591

Units: mg/Kg

Analyte

Analysis Date: 11/21/2012 **PQL** 

SPK value SPK Ref Val

100.0

%REC

LowLimit

HighLimit

%RPD

Qual

20

100.0

0

0

106

80

120

1.28

**RPDLimit** 

Petroleum Hydrocarbons, TR

20

**Qualifiers:** 

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

Sample pH greater than 2

Analyte detected in the associated Method Blank

RPD outside accepted recovery limits

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Н

Page 6 of 12

# Hall Environmental Analysis Laboratory, Inc.

WO#: 1211653

29-Nov-12

Client:

R.T. Hicks Consultants, LTD

Project:

XTO Energy Nash Unit 29

Project: XTO E	nergy Nash Un	nt 29				. <u></u>		·		
Sample ID MB-4900	SampTyp	e: MBLK	Tes	tCode: EF	PA Method	8015B: Dies	el Range (	Organics		
Client ID: PBS	Batch II	D: <b>4900</b>	F	RunNo: 69	989					
Prep Date: 11/19/2012	Analysis Date	e: <b>11/20/2012</b>	9	SeqNo: 20	02423	Units: mg/l	<b>K</b> g			
Analyte	Result F	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.9	10.00		98.8	77.6	140				
Sample ID LCS-4900	SampTyp	e: LCS	Tes	tCode: EF	PA Method	8015B: Dies	el Range (	Organics		
Client ID: LCSS	Batch ID	D: <b>4900</b>	F	RunNo: 69	989					
Prep Date: 11/19/2012	Analysis Date	e: <b>11/20/2012</b>	9	SeqNo: <b>20</b>	02424	Units: mg/l	<b>C</b> g			
Analyte	Result I	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 1211653-001AM	SampTyp	e: MS	Tes	tCode: EF	PA Method	8015B: Dies	15B: Diesel Range Organics			
Client ID: Tank Composite	Batch I	D: <b>4900</b>	F	RunNo: 69	989					
Prep Date: 11/19/2012	Analysis Date	e: <b>11/20/2012</b>	SeqNo: 202426			Units: mg/k	<b>(</b> g			
Analyte	Result f	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	SD SampTyp	D SampType: MSD TestCode: EPA Method 8015B: Diesel Range Organics								
Client ID: Tank Composite	Batch II	Batch ID: <b>4900</b> RunNo: <b>6989</b>								
Prep Date: 11/19/2012	Analysis Date	e: <b>11/20/2012</b>	S	SeqNo: 20	02569	Units: mg/k	<b>(</b> g			
Analyte	Result F	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		
Surr: DNOP	5.1	5.118		98.8	77.6	140	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 7 of 12

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1211653

29-Nov-12

Client:

R.T. Hicks Consultants, LTD

1100

990.1

Project:	XTO Ene	ergy Nash I	Jnit 29								
Sample ID	MB-4851	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015B: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: <b>48</b>	51	F	RunNo: 6	951				
Prep Date:	11/15/2012	Analysis D	ate: 11	1/16/2012	5	SeqNo: 2	02014	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		990		1000		99.3	84	116			
Sample ID	LCS-4851	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015B: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	ID: 48	51	F	RunNo: 6	951				
Prep Date:	11/15/2012	Analysis D	ate: <b>1</b> 1	1/16/2012	5	SeqNo: 2	02015	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	24	5.0	25.00	0	97.3	74	117			
Surr: BFB		1000	·	1000		104	84	116		·	
Sample ID	1211653-001AMS	SampT	ype: MS	3	Tes	PA Method	8015B: Gasoline Range				
Client ID:	Tank Composite	Batch	ID: 48	51	F	RunNo: 6	951	2			
Prep Date:	11/15/2012	Analysis D	ate: 11	1/16/2012	5	SeqNo: 2	02020	Units: mg/k	(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	1211653-001AMSI	D SampType: MSD TestCode: EPA Method 8015B: Gasoline Range									
Client ID:	Tank Composite	Batch	ID: 48	51	F	RunNo: 6	951				
Prep Date:	11/15/2012	Analysis D	ate: 11	1/16/2012	\$	SeqNo: 2	02021	Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sasoline Rang	e Organics (GRO)	29	5.0	24.75	0	118	70	130	0.0876	22.1	

#### Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH greater than 2

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

109

84

116

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1211653

29-Nov-12

**Client:** 

R.T. Hicks Consultants, LTD

**Project:** 

XTO Energy Nash Unit 29

Sample ID mb-4851	Samp	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8260B: VOL	ATILES		
Client ID: PBS	Batc	h ID: 48	51	F	RunNo: 7	060				
Prep Date: 11/15/2012	Analysis [	Date: <b>1</b> 1	/21/2012	5	SeqNo: 2	04634	Units: mg/K	(g		
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								
Bromodichloromethane	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								
2-Chlorotoluene	ND	0.050								
4-Chlorotoluene	ND	0.050								
cis-1,2-DCE	ND	0.050								
cis-1,3-Dichloropropene	ND	0.050								
1,2-Dibromo-3-chloropropane	ND	0.10								
Dibromochloromethane	ND	0.050								
Dibromomethane	ND	0.10								
1,2-Dichlorobenzene	ND	0.050								
1,3-Dichlorobenzene	ND	0.050								
1,4-Dichlorobenzene	ND	0.050								
Dichlorodifluoromethane	ND	0.050								
1,1-Dichloroethane	ND	0.10								
1,1-Dichloroethene	ND	0.050								
1,2-Dichloropropane	ND	0.050								
1,3-Dichloropropane	ND	0.050								
2,2-Dichloropropane	ND	0.10								
1,1-Dichloropropene	ND	0.10								
Hexachlorobutadiene	ND	0.10								

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- P Sample pH greater than 2

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

Page 9 of 12

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1211653

29-Nov-12

Client:

R.T. Hicks Consultants, LTD

Project:

XTO Energy Nash Unit 29

Sample ID mb-4851	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBS	Batch	h ID: 48	51	F	RunNo: 7	060				
Prep Date: 11/15/2012	Analysis D	Date: 11	/21/2012	S	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								
Isopropylbenzene	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	ND	0.050								
Tetrachloroethene (PCE)	ND	0.050								
trans-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								
Vinyl 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			

Samp1	ype: <b>LC</b>	S	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Batch	n ID: 48	51	F	RunNo: 7	060				
Analysis D	ate: 11	/21/2012	8	SeqNo: 2	04635	Units: mg/k	(g		
Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1.0	0.050	1.000	0	101	70	130			
1.1	0.050	1.000	0	108	80	120			
1.0	0.050	1.000	0	101	70	130			
1.1	0.050	1.000	0	110	74	124			
0.88	0.050	1.000	0	87.9	70	130			
0.48		0.5000		96.4	70	130			
0.43		0.5000		86.1	70	130			
	Batch Analysis C Result 1.0 1.1 1.0 1.1 0.88 0.48	Batch ID: 48:  Analysis Date: 11  Result PQL  1.0 0.050  1.1 0.050  1.0 0.050  1.1 0.050  0.88 0.050  0.48	1.0     0.050     1.000       1.1     0.050     1.000       1.0     0.050     1.000       1.1     0.050     1.000       0.88     0.050     1.000       0.48     0.5000	Batch ID: 4851       F         Analysis Date:       11/21/2012       S         Result       PQL       SPK value       SPK Ref Val         1.0       0.050       1.000       0         1.1       0.050       1.000       0         1.1       0.050       1.000       0         1.1       0.050       1.000       0         0.88       0.050       1.000       0         0.48       0.5000       0.5000	Batch ID: 4851       RunNo: 7         Analysis Date:       11/21/2012       SeqNo: 2         Result       PQL       SPK value       SPK Ref Val       %REC         1.0       0.050       1.000       0       101         1.1       0.050       1.000       0       108         1.0       0.050       1.000       0       110         1.1       0.050       1.000       0       110         0.88       0.050       1.000       0       87.9         0.48       0.5000       96.4	Batch ID: 4851       RunNo: 7060         Analysis Date: 11/21/2012       SeqNo: 204635         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit         1.0       0.050       1.000       0       101       70         1.1       0.050       1.000       0       101       70         1.1       0.050       1.000       0       110       74         0.88       0.050       1.000       0       87.9       70         0.48       0.5000       96.4       70	Batch ID: 4851         RunNo: 7060           Analysis Date: 11/21/2012         SeqNo: 204635         Units: mg/K           Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit           1.0         0.050         1.000         0         101         70         130           1.1         0.050         1.000         0         101         70         130           1.1         0.050         1.000         0         110         74         124           0.88         0.050         1.000         0         87.9         70         130           0.48         0.5000         96.4         70         130	Batch ID: 4851       RunNo: 7060         Analysis Date: 11/21/2012       SeqNo: 204635       Units: mg/Ky         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD         1.0       0.050       1.000       0       101       70       130         1.1       0.050       1.000       0       101       70       130         1.1       0.050       1.000       0       110       74       124         0.88       0.050       1.000       0       87.9       70       130         0.48       0.5000       96.4       70       130	Batch ID: 4851       RunNo: 7060         Analysis Date: 11/21/2012       SeqNo: 204635       Units: mg/Kg         Result       PQL       SPK value       SPK Ref Val       %REC       LowLimit       HighLimit       %RPD       RPDLimit         1.0       0.050       1.000       0       101       70       130         1.1       0.050       1.000       0       101       70       130         1.1       0.050       1.000       0       110       74       124         0.88       0.050       1.000       0       87.9       70       130         0.48       0.5000       96.4       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

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# Hall Environmental Analysis Laboratory, Inc.

WO#:

1211653

29-Nov-12

Client:

R.T. Hicks Consultants, LTD

Project:

XTO Energy Nash Unit 29

Sample ID Ics-4851	SampT	/pe: LC	s	Tes	tCode: E	PA Method	8260B: VOL	ATILES		_
Client ID: LCSS	Batch	ID: 48	51	F	RunNo: 7	060				
Prep Date: 11/15/2012	Analysis Da	ate: 1	1/21/2012	S	SeqNo: 2	04635	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	SampT	ype: MS	3	Tes	Code: El	PA Method	8260B: VOL	ATILES		
Client ID: BG Composite	Batch	ID: <b>48</b>	51	F	lunNo: 7	060				
Prep Date: 11/15/2012	Analysis D	ate: 11	/21/2012	S	eqNo: 2	04638	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.049	0.9804	0	92.9	80.9	118			
Toluene	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			
1,1-Dichloroethene	0.99	0.049	0.9804	0.01122	100	68.6	126			
Trichloroethene (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: Toluene-d8	0.50		0.4902	_	102	70	130			

Sample ID 1211653-002amsc	<b>Samp</b> T	Гуре: МЅ	SD.	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: BG Composite	Batch	h ID: 48	51	R	RunNo: <b>7</b> (	060				
Prep Date: 11/15/2012	Analysis D	)ate: 11	1/21/2012	S	SeqNo: 20	04639	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.049	0.9891	0	93.3	80.9	118	1.30	20	
Toluene	0.98	0.049	0.9891	0	98.8	69.5	119	2.28	20	
Chlorobenzene	0.88	0.049	0.9891	0	89.3	75.7	115	1.32	20	
1,1-Dichloroethene	1.0	0.049	0.9891	0.01122	99.6	68.6	126	0.357	24.8	
Trichloroethene (TCE)	0.82	0.049	0.9891	0	83.3	68.7	115	1.99	20	
Surr: 1,2-Dichloroethane-d4	0.47		0.4946		95.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.41		0.4946		83.4	70	130	0	0	
Surr: Dibromofluoromethane	0.48		0.4946		96.6	70	130	0	0	
Surr: Toluene-d8	0.51		0.4946		104	70	130	0	0	

Sample ID mb-4881	SampT	ype: MI	BLK	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: PBS	Batch	ID: 48	81	F	RunNo: 7	060				
Prep Date: 11/19/2012	Analysis D	ate: 1	1/21/2012	S	eqNo: 2	04640	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		93.5	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.5000		88.8	70	130			
Surr: Dibromofluoromethane	0.46		0.5000		92.1	70	130			
Surr: Toluene-d8	0.51		0.5000		103	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

RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Page 11 of 12

# Hall Environmental Analysis Laboratory, Inc.

WO#:

1211653

29-Nov-12

Client:

R.T. Hicks Consultants, LTD

**Project:** 

XTO Energy Nash Unit 29

Sample ID Ics-4881	SampT	ype: LC	s	Tes	tCode: El	PA Method	8260B: VOL	ATILES		
Client ID: LCSS	Batch	ID: 48	81	F	RunNo: 70	060				
Prep Date: 11/19/2012	Analysis D	ate: 1	1/21/2012	S	eqNo: 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 Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410;

Website: www.hallenvironmental.com

### Sample Log-In Check List

**RT HICKS** Work Order Number: 1211653 Client Name: MG- 11/14//2 Received by/date: am Itu **Anne Thorne** 11/14/2012 10:50:00 AM Logged By: an Il Completed By: 11/19/2012 Anne Thorne Reviewed By: Chain of Custody Yes No 🗌 Not Present 1. Were seals intact? Yes 🗹 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Client Log In NA 🗸 Yes No 4. Coolers are present? (see 19. for cooler specific information) Yes 🗸 No 🗌 NA . 5. Was an attempt made to cool the samples? Yes ✓ No 🗆 NA 🔲 6. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 7 Sample(s) in proper container(s)? Yes 🗹 No 🗌 8 Sufficient sample volume for indicated test(s)? 9 Are samples (except VOA and ONG) properly preserved? Yes 🗹 No 🗌 NA 🗌 Yes ☐ No 🗹 10 Was preservative added to bottles? Yes No No VOA Vials 11. VOA vials have zero headspace? Yes D No 🗸 12. Were any sample containers received broken? # of preserved Yes 🗹 No 🗌 13. Does paperwork match bottle labels? bottles checked (Note discrepancies on chain of custody) for pH: Yes V No 14. Are matrices correctly identified on Chain of Custody? (<2 or >12 unless noted) Adjusted? Yes 🗸 No 🗌 15. Is it clear what analyses were requested? Yes ✓ No 🗆 16. Were all holding times able to be met? (If no, notify customer for authorization.) Checked by: Special Handling (if applicable) Yes 🗌 No 🗍 NA 🗹 17 Was client notified of all discrepancies with this order? Person Notified: Date By Whom: eMail Phone Fax In Person Regarding: Client Instructions: 18. Additional remarks: 19. Cooler Information Temp °C | Condition | Seal Intact | Seal No | Cooler No Seal Date Signed By Good Not Present

505-345-3975	Client: R.7	in-c	of-Cu	Chain-of-Custody Record  8.7. Hicks Cansulfants	Turn-Around Time:  CL Standard  Project Name:	Time:					HALL ENVI ANALYSIS		NV SIS		Z O E	HALL ENVIRONMENTAL ANALYSIS LABORATORY	AL
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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">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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.

Celey & Keene

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. 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, SM4500CI-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 Blank	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	Analyzed By: DW				,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	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*	6020	1.00	02/15/2013		476	95.2	500	0.752	

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

Chloride, SM4500CI-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	

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim ansing, 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 whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 incidental client is subsidiances, 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 samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & 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 \*=Accredited Analyte

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Celey Theene

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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.

Celeg D. Keine

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. 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, SM4500CI-B	mg,	/kg	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: BACKGROUN	D @ 3' (H3014	91-02)							
Chloride, SM4500CI-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: BACKGROUNI Chloride, SM4500Cl-B	mg,	-	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	06/28/2013	ND	448	112	400	3.64	•
Sample ID: BACKGROUN	D @ 6' (H3014	91-04)							
Chloride, SM4500Cl-B	mg	/kg	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	

#### Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



#### Analytical Results For:

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

Fax To: NONE

Received: Reported: 06/26/2013

06/28/2013

XTO NASH UNIT 29

Project Number: Project Location:

Project Name:

NONE GIVEN

UNIT 'J', SEC. 13, T23S, R29E

Sampling Date:

06/24/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
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, SM4500Cl-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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Celeg L. Keine



#### **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

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Celeg L. Kreene



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Kill Hicks Consultants	7/5		ANALYSIS REQUEST
000		P.O. #:	
Address:		Company: PT HICKS	
City: State:	Zip:		
Phone #: Fax #:		Address:	
Project #: Project Owner:	X70	City:	
Project Name: XTO Mash Draw 29		State: Zip:	
Project Location: Eddy County		Phone #:	
Sampler Name: K. Pone		Fax #:	
	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D. ի\30)կզ	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	CI-
1 Background @ 1.5	6	0624/3	
2 () " 3'		ii	
11		"	
١ 4 " 6 '		"	
5 " 7.5'		"	
6 " 8'		"	
			7
PLEASE NOTE: Liability and Damages. Cardeal's liability and client's exclusive remety for any drain arising whother based in contract or fort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicabilities.	ny daim ansing whether based in contract learned walved unless made in writing and	or tort, shall be limited to the amount paid by the client for I received by Cardinal within 30 days after completion of I	r the the applicable

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By:

Time:

Email to andrew@rthicks consult.com

Kristin @ "

□ Yes

No S

Add'l Phone #:

Relinquished By:

# 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

RECEIVED OCD

2013 DEC -9 P 2: 44

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.

Table 1: Soil chemistry summary results

Sample ID	Date	Depth	Chloride	EC	Benzene	BTEX	TPH	GRO/DRO
		(ft)	mg/kg	uS/cm	mg/kg	mg/kg	mg/kg	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

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

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.

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 comparison between an on-site and off-site (background)

	Chloride (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).



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

Andrew Parker Durango Field Office

Copy: David Luna, XTO Energy