EXHIBIT 4



(724) 654-0001

October 10, 2011

Mr. S. Stephen Platt
United States Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, Pennsylvania 19103-2029

Dear Mr. Platt:

I apologize for taking so long to respond to your correspondence of August 11, 2011 concerning Stnehaven Energy Management, LLC's application for a Produced Water Disposal permit. Permit ID PAS2D01BVEN. For a period of time it was believed that a completely different candidate was going to have to be selected for this project. This was due to issues involving the surface casing in the proposed Latshaw #9 well. A plan has been reviewed with you that will allow the Latshaw #9 to once again be proposed as a candidate for produced water disposal. It will be discussed in this response to your requests in the order that you requested them:

Attachment C: Corrective Action

The list below includes the names and addresses of land owners within one quarter mile of the proposed Latshaw #9 disposal well. A map is also included which displays where they are located with respect to the AOR:

- 1.) Ben and Catherine Stover 1521 Pittsburgh Road Franklin, PA, 16323
- 3.) James K Sidora RD#1 527 Heckathorne Church Road Seneca, PA 16346
- 2.) Daniel W. Marlatt 925 Innis Street Oil City, PA 16301
- 4.) Kimbery D. Heeter
 RD #1
 482 Heckathorne Church Road
 Seneca, PA 16346

- 5.) Maurice Latshaw 471 Heckathorne Church Road Seneca. PA 16346
- 7.) Jack E.Delahunty 201 Hahn Lane Seneca, PA 16346

- 6.) Robert J. and Ernestine Hoover 470 Heckathorne Church Road Seneca, PA 16346
- 8.) Hecathorne United Methodist Church 369 heckathorne Church Road Seneca, PA 16346

Regarding your request for clarification on the Latshaw #12, it was drilled through the Speechley formation. The open hole log indicated that there was not much pay in the Speechley and what was there was very low in porosity. See Figure G2. The well was only completed in the Venango formations. Pea gravel is dumped into the wellbore during the completion operation and brought up to a depth just below the most shallow zone to be completed. It is circulated out as the zones are completed from the top down. After the deepest zone to be completed is finished an approximate 100' pocket is flushed out. The Latshaw #12 will have pea gravel in the well bore from about 1200' to its total depth 2108'. The pea gravel will not inhibit vertical migration of water and therefore it can still be utilized as a monitor well.

There is no additional information available on the four orphaned wells that have been located within the AOR. To date 13 old wells have been plugged on the Stover and Latshaw farms during the development of this project. None of them were found to be drilled below the Venango sands. Four were located within the AOR. The only way to know if the other four that have been located but not plugged penetrate the Venango sands only is to reenter them. They currently are having no effect on the existing producing wells. It is resectfully suggested that their plugging be made a pre-requisite to injection into the disposal well but not for allowing the review to proceed. If the permit is denied Stonehaven would have incurred unnecessary expense with no value obtained.

The cementing records for all the wells developed on the Latshaw lease within the AOR are submitted for your review.

Attachment E: Name and Depth of USDW's

Upon review of the Latshaw #9 well construction it was determined that the surface casing was only set 36' below the Mountain sand. The bottom of the Mountain sand in the Latshaw #9 was 360' while the bottom of the 7" surface casing was at 396' The cementing report also indicated that cement was not circulated to the surface during the job.

It is proposed to use the 7" casing as a conductor pipe and then cement a string of 5 $\frac{1}{2}$ " as the surface casing and cement it to the proper depth of at least 50' below the Mountain sand. That will change the well construction in that 3 $\frac{1}{2}$ " casing will replace the 4 $\frac{1}{2}$ " casing proposed in the original application as the cemented long string. 1 $\frac{1}{2}$ " tubing will replace the previously proposed 2 3/8" injection tubing. The enclosed Figure M1 shows the changes and it replaces the Figure M1 found in the original submission.

Attachment G: Geological Data

Figures G5A,B,C,and D are submitted and will be made part of the application. They dis play the pressure and rate information that was recorded during the fracture stimulation of the Speechley in The Latshaw #9. Two zones were treated in the well, 1978 and 1984. The pressure /rate curves indicate the zone at 1978 broke down @ 3250 psi while the one at 1984 broke down @ 3500 psi. The ISIP was 1435 for the zone at 1978 and 1477 for the zone at 1984.

Attachment H: Operating Data

Table H2 was supplied that displayed the daily injection of produced brine into the Speechley sand during the test that ran from April 15, 2011 to May 14, 2011. The maximum injection pressure that was permitted during the course of the test was 1365 psig surface pressure. The table shows that 1955 bbls of produced water was disposed into the Speechley under the hydrostatic pressure of the fluid.

Stonehaven is currently averaging approximately 100 bbs of produced water/day. Their intention is to use the well to only dispose of their daily produced water. The pressure limit of 1365 psi that was utilized for the test period should be more than adequate to allow them to dispose of their daily produced water.

Attachment K: Injection Procedures

Attachment K is supplied and made a part of the application.

Attachment L: Construction Procedures

Attachment L is supplied and has been made a part of the application

As previously discussed the original well construction has to be modified due to the fact that the surface casing was not cemented 50' below the Mountain sand. The cement job log for the Latsaw #9 well is submitted with the other Latshaw cement job logs.

A new figure M1 is supplied and will be made a part of the application. The construction details discussed in Attachment M will be modified to reflect the changes. An open hole log for the Latshaw #9 is submitted as per you request. A bond log will be run and submitted on the 3 ½" casing string after it is cemented in place.

Attachment O: Plans for Well Failure

The actual emergency plan is submitted for your review and made a part of the application.

Attachment P: Monitoring Program

Attachment P is supplied and made a part of the application

Attachment Q: Plugging and Abandonement

A schematic diagram is of the plugging of the Latshaw #9 is submitted and made part of the application.

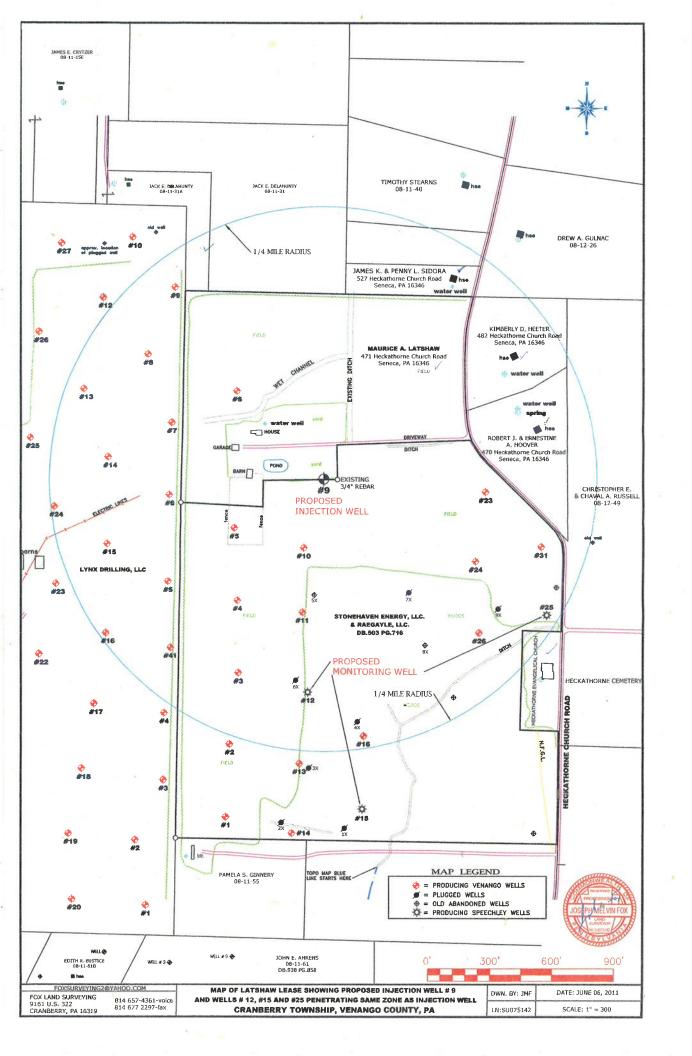
Attachment R: Necessary Resources

The financial mechanism form is submitted and made a part of the application.

Thank you for your time and consideration with respect to the information supplied in this response to your requests. Two new applications are submitted to you and one has been submitted to Dave Rectanwald.

Sincerely,
Thomas F. Duronak

Thomas F. Havranek



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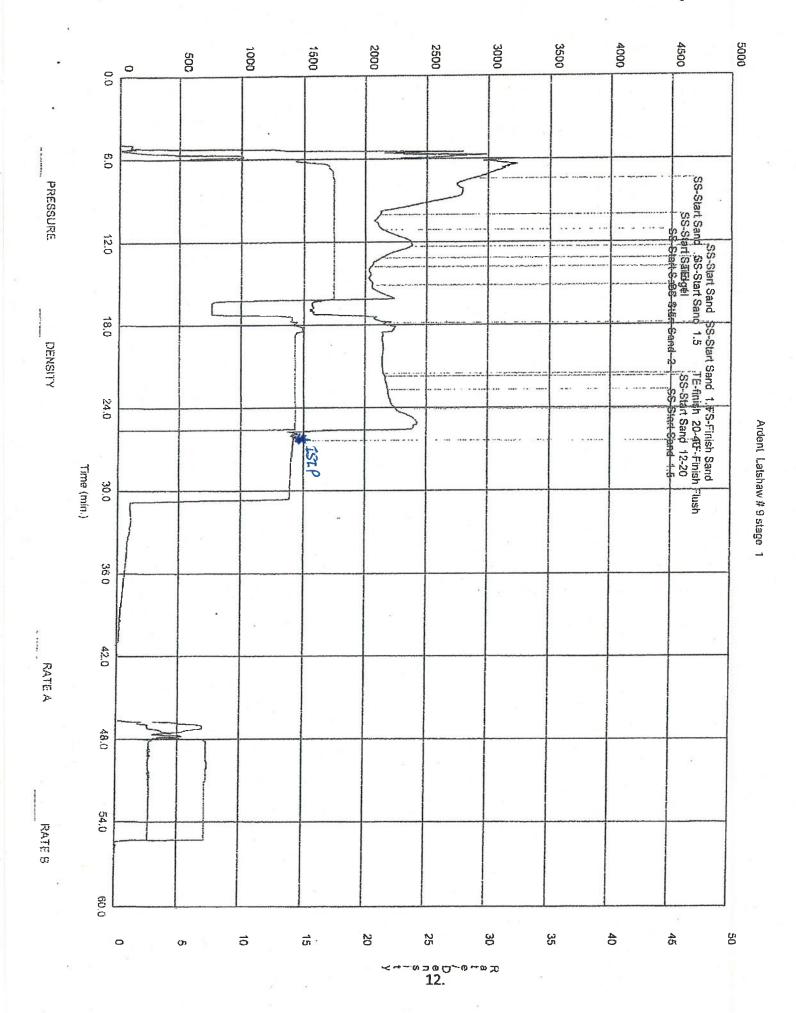
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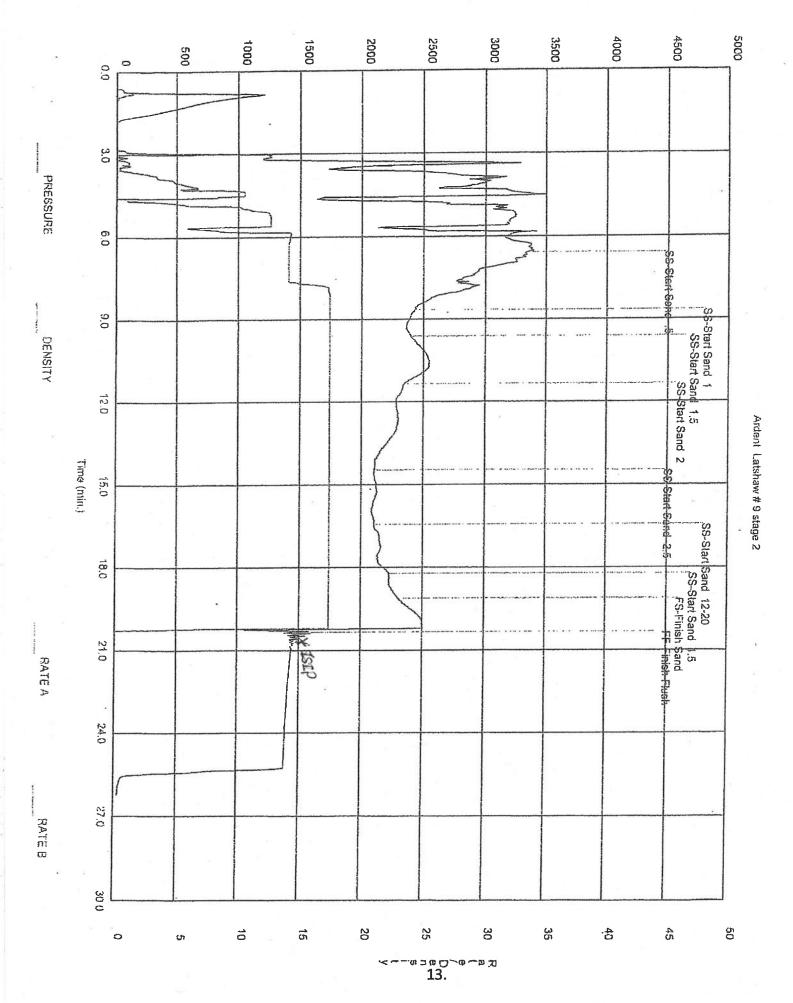
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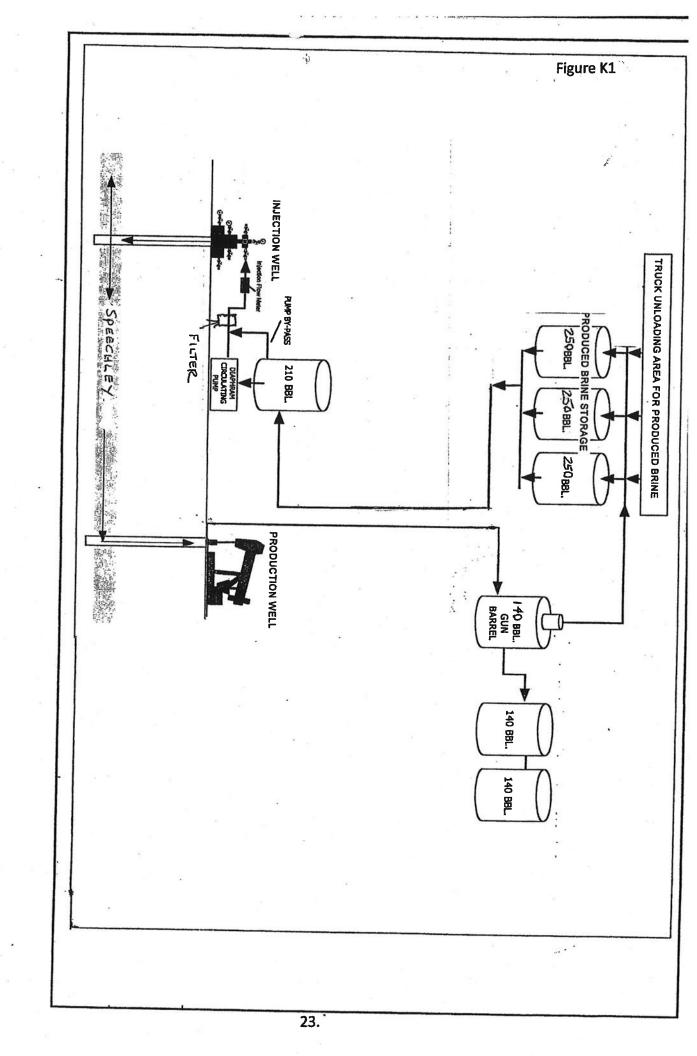
K. Injection Procedures

Currently three 250 barrel plastic tanks collect produced water on the Stover property and three other 250 barrel tanks collect it on the Latshaw property. The produced oil/water effluent from the wells is run through a gun barrel separator mounted on top of a 140 barrel stock tank. The tank acts as an additional separator before the produced water is flowed under gravity to the collecting tanks.

During the injection test that was performed the water was flowed under gravity through 1 %" plastic lines already in place to the Latshaw #9 site. Once there it was circulated through a particulate filter and then allowed to flow into the well. No pressure was required for the well to take the water during the test as shown in H2.

In the event that the well begins to require pressure for injection an additional 140 bbl collecting tank will be set at the Latshaw #9 site. It will be equipped with float controls that will actuate a piston injection pump that will discharge the water through the filter into the well.

Initially a chain link fence will be installed around the well only. It will be Inspected and monitored daily by Stonehaven personnel. In the event that a tank and pump have to be constructed at the well site the fence will be expanded to include all of the facilities. The tank would be diked and lined with a 20 mill pit liner. Figure K1 is a schematic showing a flow diagram of the Latshaw tank battery. An identical system exists on the Stover property. A gravity system will bring the water from the three storage tanks to the Latshaw #9. Map B3 show the location of both systems and the water lines transporting the brine to the Latshaw #9. The schematic shows a storage tank and pump at the well site although it is not anticipated to be necessary initially.

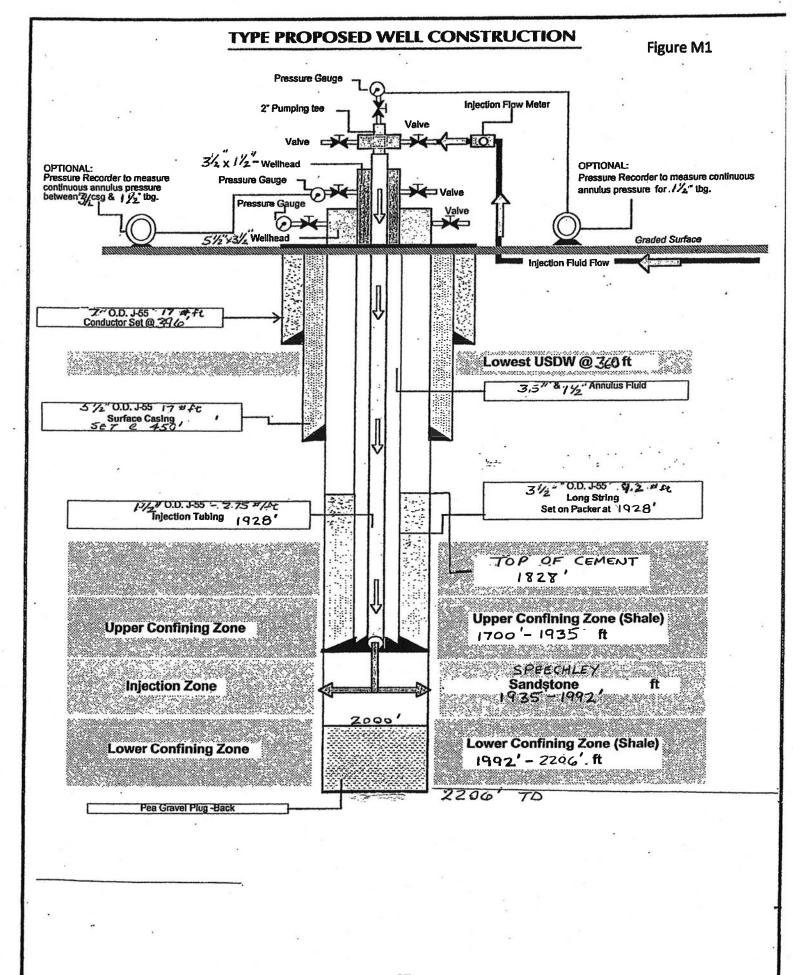


L. Construction Procedures

Upon review of the Latshaw #9 well it was determined that two deficiencies existed that had to be corrected in order to use it as a produced water disposal well:

- 1.) The 7" casing was set only 36' below the Mountain sand which is the deepest USDW in the area. EPA law requires the surface casing to be set a minimum of 50' below the deepest USDW
- 2.) A review of the cementing job log indicated that cement was not returned to surface when the 7" casing was cemented. Figure L1 is a copy of the Job log of the cement job.

An open hole log is supplied that has Gamma Ray, Caliper, Compensated Density, Neutron, Temperature, and Induction logs displayed. Attachment M provides the details of the construction of the well that will correct the deficiencies and allow the well to be utilized for produced water disposal.



O. Plans for Well Failure

Attachment M discussed that pressure monitoring and recording devices that would be utilized on both the tubing and annulus of the injection well. Also, that the daily volume would be measured and totaled with a flow meter. This equipment and the entire facility would be inspected daily by Stonehaven personnel.

In the event of a piping or equipment failure the following plan would be implemented:

- 1.) Immediately manually shut down the injection of the well.
- 2.) Determine the source of the failure. (piping, mechanical, etc.)
- 3.) Alert Stonehaven management of the failure.
- 4.) Alert EPA representative Dave Rectenwald or his replacement of the failure.
- 5.) Begin process of repairing the failure.

P. Monitoring Program

The Stonehaven personnel will maintain a daily log of the tubing and annulus pressures of the well. They will record them along with the daily injected volumes. This information will kept at the shop facility and will be made available to the EPA inspector at any time. The Schematic shown in Figure M1 displays the pressure monitoring and recording devices that Will be installed on the well

In the Corrective Action portion of the application it was noted that each Well that Stonehaven operates is equipped with pump off control device. This equipment monitors the daily pump time for every well in the field. Stonehaven personnel will monitor and record the pump times for all the wells within the AOR to detect any changes resulting from fluid being injected into the Latshaw #9. These will also be made available to EPA personnel upon request

Land Owners in Area of Review

Timothy J Stearn
Box 559
Heckthorn Church Rd
Oil City, PA 16301
814-677-0375

2 Drew A Gulnac
Box 548
Heckthorn Church Rd
Oil City, PA 16301

Christopher and Chaval Russell 183 Tool House Rd Seneca, PA 16346 814-677-5578

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∘ □ Yes	No □] Not Applicat	DIO	CASING		7	KB	400		500	כ
JOB TYPE				TUBING OPEN HO		83/4	GL				
TA Curtons	□lon	notring []	Acid	PERFORA		0 /1	OL			***	
	□ Long			DISPLACE		14.	Э вві	DISPLAC	EMENT 3	70	FT.
☐ Other _				CAPACITI			/ 55.	- DEI 111			
TIME	RATE (BPM)	VOLUME (BBL)	PRESSUR TUBING	E (PSI) CASING			DESCRIP	TION OF STAGE	OR EVENT		
1445			Totalio		Safet	t,	Meetin	m Pi	110	n la	
1455					Spot	+	iks	Hoo			
1522	3-5	10		0	Pom	b	H20				
1524	3-5	25	-	0	Ron	<u>'Ge</u>	1- F61	e + Ba	roses		
1529	3-5			0	Star	7 6	lemer	of_			
1534	3-5	21		50	Finis	-	Leme				
1535	3-5			0	Stal	+	Disp				
1543	3-5	14.9		200	Finis	b	Disp	<u> </u>			
1545					was	h	PR	ack	4		
1615					Leav		,				
			l	100							
REMARKS	No cir	culation	1					muor de-	/	<i>t</i> -	
							EN	RVICE GINEER	wan fo	Maga	grand .
Thank	You	To	OK W	et + Da	Sam	ple	RE	STOMER PRESENTATIVE	-/>	7	

INVOICE N	o 23	5%/			KS/		CUSTO	OMER /	rden	T K	25
STAGE NO		A		L SERVICES		*	LEASE	NAME 4	9/5/	ous.	K
STAGE NO		The second secon		JOB	LOG		DATE	3/2	4/09	?	
NO. OF		COMPO	SITION OF CEMENT			YIELD	GAL. WTR/SK	DENSITY	BBL, OF MIX WTR.	CU. FT. OF SLURRY	BBL, OF SLURRY
1. 105 C	less 1	4 3 % C		I Ismir e	10	1.18	-	15,6	13,0	123.9	22,0
2.	195) /	1 210 13	NCA 1	0388887676							
3.										120	1000
								TOTAL	13,0	123.9	22.0
CIRCULATE C					NEW USED	SIZE	FROM	10	WEIGHT	MAXIM	NUM PSI WANCE
Yes [] No [Not Applicab	le	CASING	W	7"	KB	400		500	
JOB TYPE	ŧ			TUBING OPEN HOL	F	834 6	34				
		astrina 🗆 🗡	veid	PERFORA							
X Surface	☐ Long	Journa L.	1010	DISPLACE	MENT /	5, 3	S BBL	DISPLAC	EMENT	370) FI
Other _											
TIME	RATE (BPM)	VOLUME (BBL)	PRESSUR TUBING	E (PSI) CASING			DESCRIPT	TON OF STAGE	OR EVENT		
1300					Safe	T4 1	neeti	mal:	spot	Tru	KK5
1310					hoo	K	AD.	9	/		
IDIV	7-5	10		1	Pun	and t	K20				
1350	3-5	155		25	Dun	140	14	Base	ACRO.	1	
1500	2 2	00		15	NUIT	ge		uale	1scer		
135/	5-5			25	SKI	4	em				
1403	3-5	22,0		100	tini	ish	cen	7			
1404	3-5			25	STON	CIJ)15P				
1407	3-5	15.3	+	150	Fini	shi)15P/				
1-1-1					was	shu	Pro	KL	P		
					190	VP	100		/		
Alexander and the second	,				1						
					+						C 900
					-						-
					-					*	
REMARKS	7 R	bk cen	n retur	n							
LININUI/9			100	-		7か	BUK SE EN	RVICE GINEER	Hone	Ewb	ada
Committee to the second of the second	-to-tage	r . L	1	۵.		7		STOMER	1		

							9		nni	10.	-
INVOICE NO	0.736	6000	U	L SERVICES	RS.			OMER			
			A PAT	TERBON-UTI ENER		+		E NAME			1/
SIAGE NO.		A CONTRACTOR OF THE PARTY OF TH	3	JOB	LOG		DATE	3-3	16-0	ā	
NO. OF		COMPC	PETION OF CEMENT			YIELD	GAL. WTR/SK	DENSITY	BBL, OF MIX WTR.	CU. FT. OF SLURRY	BBL OF SLURRY
SACKS			SITION OF CEMENT	4.1-		-		156	/3	1039	-
1 1	1455	4 3% C	1ch 421-1	111.6		MIF	2.0	1	1	1	- W
2.						+		_			
3.								TOTAL	13	1039	22.0
CIRCULATE C	EMENT TO	O SUBFACE						TOTAL	1,-	IVAT	1000
47			la.		USEY	SIZE	FROM	то	WEIGHT	MAXIN	NUM PSI WANCE
☐ Yes ☐	JNO Li	Not Applicab	ie	CASING	10	74	0	700		-	
JOB TYPE				TUBING OPEN HOL	F	874	0				
	.*	6		PERFORA		10/14					
☐ Surface	☐ Long	string , A	/CIO	DISPLACE		15	DDI	DISPLAC	CEMENT	380	F
☐ Other				CAPACITY		1-	BBL	. DEPTH		300	
	PATE	VOLUME	PRESSUR	E (PSI)			'DESCRIP'	TION OF STAGE	OR EVENT		
TIME	(BPM)	(BBL)	TUBING	CASING	1	4					A
1730					Pul	onlo	500	THES	201	1 y MI	= = /11
1743	=	3			1400	144)				
1746	3.4	15		0	Pun	m 4	80				
1749	3-4	15		Ü	Ru	70 60	· f				
1753	4			0	5-1	175	Etm	ENT			
1804	4	22		0	Fin	15/1	1Em	ENT			
1205	4			0	TTA	77 A	1301		-		
1810	2.3	15		300	Fix	1.54	0.30				
1811			,		Rel	COSE	27				
1815					IA/A	sh was	PALI	14			
1740		 			100	446	Loc				
1010					1 60						
	-				+				-		
	-	-			-						
	 	-			-						
				L							
REMARKS		186	31.6Em	tall	El Will	1	SE	RVICE	KINE	00-	
Access to the second se		17	Joic we	T + DA;	171-	MA	EA CI	IGINEER 7		Min. Allen	<i>)</i>
				ŧ			RE	PRESENTATIV	5-1-	4	

						家					
INVOICE I	NO	35790		PNIVE	ER5		CUS	STOMER _	Arden	İ	
STAGE NO) /	· · · · · · · · · · · · · · · · · · ·		ATTERSON-UT) ENE		1	LEA	SE NAME	Late	nant	12
(46)			š	JOB	LOG			E 3-			
NO. OF SACKS		COMP	POSITION OF CEMEN	Т		YIEL	D GAL WTR/S	DENSITY	BBL. OF MIX WTR.	CU. FT. OF SLURRY	BBL. OF SLURRY
1. 100 6	class A	39,000	12 % 1	ura be		1,19	8 5,0	2 15.6	12,3	118	21
2.	ni addini aday kay kay ay akay a		manipusti imma arma, arma a refuga arma abançala di								
3.											
CIRCULATE	CEMENT	O SURFACE						TOTAL	12.3	118	21
] Not Applicat			NEW USED	SIZE	FROM	то	WEIGHT	MAXIM ALLOV	UM PSI VANCE
A		J Mot Applica		CASING		7	VE	400		500	
JOB TYPE	27			OPEN HO	ı.E	8 36	CL	-		<u> </u>	
X Surface	Long	netrina 🗀	Acid	PERFORA	-	0 /9	<u> </u>				
, ,			, 1014	DISPLACE	EMENT	5	3 BI	DISPLACE	EMENT	370	F
Other _						,,,					
TIME	RATE (BPM)	(BBL)	PRESSL TUBING	PRE (PSI) CASING			DESCR	IPTION OF STAGE	OR EVENT		-
1115					Safe	t., 1	Neetin	a Pul	00	200	
1120					Spot	£		Hook			
1125	3-5	10		50	Pun	20	Had		ı		
1127	3-5	25		50	Run	60	1 + 3	01300			8
1132	3-5			100	Stor	+	Cemer	7 t			
1137	3-6	21		100	Firm	sh	Ceme	nt			
1138	3-5			100	Stor	1	Dira	L			
1143	3-5	15.3		250	Figure	1-	Dist	L			
11715					wast	2 1	D É	act u	D		
1215		NOTED TO SECURE AND ADDRESS AN			Lev	الم الناب	6.6				
Birth property and the second second	. 1						(4)				
=											
				-							
										-	
					· · · · · · · · · · · · · · · · · · ·		*************				
REMARKS	60-R1	al ceme	wit Ro	turn					***************************************		
-		and the second s		The state of the s	my	1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	y SE	RVICE IGINEER	Kenn V	4.15.	
Took 1	let + D	Ku Sami	7),~) 2 (4	CL	ISTOMER PRESENTATIVE	- 1 /		L

Contract the second							图									
INVOICE	E NO. <u>33</u>	5947	w	ELL S	ERVICI	ERS			cus	TOMER	1200	11 1	255			
STAGE	NO		A 1	PATTERSO	N-071 EN	DAGY COMPAN	· 🖶		LEASE NAME ANTON IN 13							
			٠		JOB	LOG			DATE							
NO. OF SACKS			POSITION OF CEMEN				1	LD	GAL. DENSITY		BBL. OF MIX WTR.	CU. FT. OF SLURRY	BBL OF SLURRY			
1 105	CIAS	5 A 3	enche	2 1	410	wice/s	- 1.1	6	5,5	N. 6	1	1	72.0			
2.													1			
a																
CIRCULATE	E CEMENT	TO SURFACE								TOTAL	13	193.9	55'0			
₽ Yes	□ No [☐ Not Applicat	ole			NEW	SIZE		ROM	то	WEIGHT	MAXIM	IUM PSI VANCE			
				-	ASING JBING	N	12	_		400	17	50				
JOB TYPE				-	PEN HO	LE	34	-	-			<u> </u>				
Surfac	e É Lon	gstring 🔲 /	Acid	PE	RFORA	TIONS										
☐ Other					SPLACE NPACITY		15	3	BBL	DISPLAC DEPTH	EMENT	370) FI.			
TIME	RATE (BPM)	VOLUME (BBL)	PRESSUI TUBING	-	110				DESCAIP	TION OF STAGE	OR EVENT					
1615			TODING	CASI	ina	C ACCT							<u> </u>			
1630						1400	V	175	S To	mer por	COM	0654	-27 7 56			
Inyo	3-4	10		() -	5 2	20 00	A	H	20							
1944	PLY	35	***************************************	0.	200	PIN	4	-		a FIN	4	24-				
1850	7-4			0-		Ctobs	+		High			BITT	25.			
1850		390		0 -	50	Cini	Sh			LE H	+					
1856	•	e come come or more experience in a Vision	Printed and the second second	isa migagimeta est ela	PART ATTORNA	DILO	-	200	عصا							
1857	2-1			10	-	CHH	- +	-	3 : 8	7	-					
1925	9.3	0.66	-	Pa	3	Fini	54		D: 0	02						
1906				16	21	CEL	EI	3		25.	diame.					
950						NA	1,	3	w 1	1246	16 0	()				
935						LEA	15	1	06							
						- Control of the Cont										
EMARKS		184	4050	1	Street	ZhA	in le	6	PUL							
1.00	1 050	i .	109	, A	C. Strate	. 1	-		SERVI	200	A.	The	in			
		10016	- West	Seedlered A) L	75	14	English	CUSTO	DMER ESENTATIVE	16	1111	A			

					5						
INVOICE N	27	35994	U	NIVE	R5		CUST	OMER	Arde	ent	
				TTERSON-UTI ENER	_	1	LEASE	E NAME _	Luts	haw #	15
STAGE NO			A.	JOB	LOG			5-			
NO. OF		COMPO	SITION OF CEMENT	-		YIELD	GAL. WTR/SK	DENSITY	BBL. OF MIX WTA.	CU, FT. OF SLURRY	BBL. OF
SACKS) A	3% cac				1.18	-	15.6	13	123.5	22
1. 105 C	10.55 /1	JAD CAL									
з.		e configuration for the second se									
language de la constitución de l								TOTAL	13	123.9	22
CIRCULATE C					NEW USED	SIZE	FROM	то	WEIGHT	MAXIM	NUM PSI WANCE
☐ Yes] No □	Not Applicable	le	CASING		7	N.S.	400	-	500	2
JOB TYPE				OPEN HOL	E	838	GL				
	/ - / - /		haid	PERFORA	-	2./3	07				
☐ Surface	☐ Long	jstring \sqcup F	CIU	DISPLACE		5.3	BBL	DISPLA	CEMENT	370	5
Other _				CAPACITI							-
TIME	RATE (BPM)	VOLUME (BBL)	PRESSU TUBING	JRE (PSI) CASING			*DESCRIP	TION OF STAG	E OR EVENT		
1315					Saf	et,	Meet	ire	PUII	on	Loc
1320			-		500	+ +		Hoo	4		Anti-diseased many
1346	3-5			50	Pon	350	Had	2		,	
1348	3-5	25		50	Rur	6	1+5	lake	+ Bac	osenl	
1353	3-5			100	Sta	1)	(ome	+			
1359	3-5	22		100	Fix	rish	and the second s	nont			
1400	3-5	7.0		100		and the latest service	Disp				
1403	3-5	15,3		200			Di				
14/0	13.7	1370			1		υŞ		W		
1430	1				Lea			- Australia		,	_
11,00	1					The second second					
										3	
-											
	1	1									
REMARKS						The	SE EN	RVICE (Van	Wal	Fam
			1			Ye	41.6	ISTOMER PRESENTATIV	/	Con	1
1.46	464	DAVISON	the free of the			i h	- Inc	" I TOPIA INTIV	121	to I who	The

Tox Wet + Day Sonot

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INVOICE I	vo	15793		JN V	ES, INC.	5/		ent .	CUST	OMER _	A	, 1	
STAGE NO	O	<u>;</u>		PATTERSON-UTI EN		1	1		LEASI	E NAME.	Lite	1	216
			4	JOB	LOG					4			
NO. OF SACKS		COME	POSITION OF CEMEN	IT			YIEI	LD	GAL WTR/SK	DENSITY	BBL. OF MIX WTR.	CU. FT. OF SLURRY	BBL. OF SLURRY
1. 100 0	There .	\$ 37.00	118				1.1	2	63	13.6	12.3	118	21
2.													
3,							<u> </u>				-		
CIRCULATE (CEMENT	TO SURFACE								TOTAL	13:3	118	7
☐ Yes	Ø No □	☐ Not Applicat	ole		NE US	W ED	SIZE	F	ROM	то	WEIGHT	MAXIM ALLOV	UM PSI VANCE
	P	. ,		CASING	-+		7	ł	T-	400		500	
JOB TYPE				OPEN HO	LE		88	6					
Surface	☐ Lon	gstring 🔲	Acid	DISPLACE						DISPLAC	THAT NIT		
☐ Other _				CAPACITY		1	g_{i}	3	BBL.		EINICIA I	370	F
TIME	RATE (BPM)	VOLUME (BBL)		IRE (PSI)	-	Weigner			DESCRIPTI	ON OF STAGE	OR EVENT	THE RESIDENCE OF THE PERSON NAMED IN	Complete Street
1811	(=,,	(555)	TUBING	CASING	1	·	1	,	. 1		~		
1510					1 30	10	1	1	Lesie	Colonial Colonial Colonia Colonial Colonial Colonial Col		· 17 /	<i>C</i>
1515				-	131	-	4	1.	Y	Her	<u> </u>	-	
15.3	3-5	11.			120	1	7	10	20				
1553	7-6		***************************************		Kin	,	1	1	4 5	loke		***********	×
1038	7.5		w	50	51	<u>. </u>	, À	_/	13.7 × 1	77 · ·			
1543	7.6	1		50	Fin	1,5			ran .	200 /			
16,44	3-5			10	()		4	,	Die	1			
1549	3.5	15.5		100	1.		.)		1				
1595											-		
1615					Life	-	.,	,		www.monahulad.no.usu-lang-uunau	mi ngla Masa.		
7					harry C	1/.	<u></u>						
			***************************************		-								
							-						
						-							
REMARKS	Vo 11	culatio	2										
						- 1	1-1	1.	SERVI	CE IEER			
Twit "	1 /1) ¿	- 1 -				200		CUSTO	OMER SENTATIVE		AL ON	1
	E EUGE	20 20 20	200 BE SE						100		1/	TATE NO.	-

					1	ी					
INVOICE I	vo. <u>23</u>	5907		SNIVE	ERS		CUS	STOMER _	Arden	, 1	
STAGE NO	O,		A 1	PATTERSON-UTI EN	IRGY COMPANY	₩ _	LEA	SE NAME_	Latsh	JUW 0	23
			· ·	JOB	LOG		DAT	E 12	- 31	07	
NO. OF SACKS	1	COME	POSITION OF CEMEN	T	A CONTRACTOR OF THE PARTY OF TH	YIEL	D GAL.	DENSITY	BBL, OF MIX WTR,	CU. FT. OF SLURRY	BBL. OF SLURRY
175	Clorch	4% cach	· Sunic	ج احد		1.1	8 5,3	15de	15.4	199.5	28.3
•											
·											
RCULATE	CEMENT	TO SURFACE						TOTAL	15,4	129.5	25.4
☐ Yes	No [☐ Not Applicat	ole		NEW USED	SIZE	FROM	то	WEIGHT		IUM PSI NANCE
	/ ·			CASING	_	7	WB.	420		500	
OB TYPE				OPEN HO		83,	GL				
☑ Surface	☐ Lon	gstring 🔲	Acid	DISPLACE				DISPLAC	EMENT .		
☐ Other _	-			CAPACITY	· .	16.	BE	BL. DEPTH	,CIVIC)VI	母家の	FT
TIME	RATE	VOLUME		JRE (PSI)	T		DESCR	IPTION OF STAGE	OR EVENT		
11.16	(BPM)	(88L)	TUBING	CASING	50	. ,				i	
1115					2670			SP			
1120	-	2			Spar			Heat			1
1125	3-5	30		0	Fung	110	0	Fun Ge	1 + 13	place of	
1131	3-5			50	370,1	Copy.	Ageng a				
1137	3-5	23,1		60	Fines	-	Cemer	<u>, † </u>			
1138	3-5			0	Stard	D	int				
1149	3-6	16,1		100	Finis	h	Disp				
1145					1		o Pa	kup	į.		
1215		T 1			Leve			· ·			
											
No. of the Control of										-	
	 			-							
					<u></u>						
EMARKS	Lee c	eculative					- In	ENVICE		3 - 25	
	***************************************					100	EN		VAC 1	William !	
agree 1	1.1 75	. 1	j.			41 6	CL	STOMER PRESENTATIVE	1.11	11/16	*370

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YÜNÜE	NÚ. == '= :		Trick darks was		en en vo. volv,	Mary State Description	UUB	I QIVILH É						
AGEN				131 11293211 1901		7	LEA	OF MAKE	Lalegy	NOV Z	14			
				JOH	100		DAIR 100 000 000							
MES I	NO SERVICE SERVICE TO CLOSE NO. of		TOURNORF OF OURLE	**		, with	i witan	1	· ees cee	DE STURRY	SILIPRY			
00	<u>Cim</u> 55		i – kajuter – Ži	gflyn cet	est.	11/8	37.4	1-5 -6-60	100.3	1/8	grad.			
				-			-		<u> </u>		!			
<u> </u>						į	į	i	ļ	1	 			
55 ATE	OFMENT T	O SUBFACE						TOTAL	ال والمواتر	17:0	1 dr. 1			
r Yes	LINO L	j Not Applicat	Di o	Section (ACCOMMODATION CONTRACTOR	PARA TEMPORATE CARRIED	SI7E	FROM W/FS	1 TO	WEIGHT	-L	MMMTSI			
		. ,		TUBING	1.70		2 / 3			50				
YPE			40	OPEN HOL		877	1-	,20			-			
Surface	□ Lon	gstring	Acid	PERFORATE DISPLACE				DISPLA	CEMENT					
Other _				CAPACITY		5. 1	88	L DEPTH	SEINEIVI E	<i>380</i>) F			
TIME	PATE	VOLUME	PRESS	URE (PSI)	THE RESERVE AND PARTY.		DESCO	OTION OF STACE	OD SUSAT					
	(BPM)	(BBL)	TUBING	CASING		and printer.	1 1	PTION OF STAGE	OH EVENT					
20 70	 				1	Safe	ty/		1113					
10					14/1	101		. Spe		4				
15					Hoo	k u		oad t	Stab	Hec	d			
39	3-5	10		100		R	MP	Mao						
41	3-5	25		100	不			BATE	Eal	p				
44	3-5			200		Str	m	Cem	ent					
58	3-5	21		200		Fin	1514	Cen	ient	W -T				
58	3-5			5200				Disp						
203	3-5	15.7		400	-			Dis						
2/5				'	W			rack						
45					4 4.		4	LOC						
						for the	ave		- Polyherman					
	-		-	-										
	1													
			31						40.000.00					
aks /	5 HLR	diam's	W.	January W	-			3	1	, ,	01			
110 /	- Arms H	dis 15 9		THINK	o V -		SE	RVICE GINEER	all I	Hoolin	nd			
		1 sough						STOMER	1	des 1 m				

4	,						[
INVOICE N	10 15	3003	7 U		40 m m		5		81	CUST	OMER É	TRD (=n+	
STAGE NO		The second secon		. 7 7 6	SERVICE			1		LEAS	E NAME	LASS	hAm	D'E
OTAGE NO					JOB	LOG	i			DATE	THE PERSON NAMED IN	3-10		
NO. OF SACKS		COMP	OSITION OF CEMENT					YIEL	Д	GAL. WTP/SK	DENSITY	BBL. OF MIX WTR.	CU. FT. OF SLURRY	BBL. OF SLURRY
1	LIAS	5 17. 39	CACIZ !	12	uni	2/6	p-	1.1	હ	5.2	15.4	15.4	147.5	36.7
2.														
3.				-									11. Page 100	01. "
CIRCULATE (CEMENT T	O SURFACE									TOTAL	18, 4	147.5	196,5
Yes] No] Not Applicab	le		CASING		NEW	SIZE	۶	ROM	TO	WEIGHT	S OC	IUM PSI WANCE
JOB TYPE					TUBING								566	
	5 0.1	and the second second	hatal		OPEN HO			344						
Surface	☐ Lon		ACIO		DISPLACE		1	5.	2	BBL	DISPLAC	EMENT ,	381	FT.
Other					OAI AOIT		}	0,					Easy)	
TIME	RATE (BPM)	VOLUME (BBL)	PRESSUF TUBING	RE (P	SI) CASING					DESCRIPT	TION OF STAGE	OR EVENT		
1/20						5 195	Le French	YIM	12	Etim	FOLL	ONLO	6570	++100
1130		-				HU	0	4	26	-	7			
1135	3011	5			080	رټ	M	-	H	245				
1137	3-4	25		C	-UD	family by	M	Control	6	56	a BA	rlep	1	
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