## KOLAR Document ID: 1662240

Confiden	tiality Requested	1:
Yes	No	

### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1 January 2018 Form must be Typed Form must be Signed All blanks must be Filled

# WELL COMPLETION FORM

		DECODIDEIO		
WELL	HISTORY	- DESCRIPTIO	N OF WELL	& LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
☐ Oil ☐ WSW ☐ SWD □ Gas □ DH □ EOR	Elevation: Ground: Kelly Bushing:
	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(Data must be collected from the Reserve Pit)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:      SWD Permit #:	
SWD Permit #:      EOR Permit #:	Location of fluid disposal if hauled offsite:
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date Recompletion Date	County: Permit #:

#### AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

## Submitted Electronically

KCC Office Use ONLY					
Confidentiality Requested					
Date:					
Confidential Release Date:					
Wireline Log Received Drill Stem Tests Received					
Geologist Report / Mud Logs Received					
UIC Distribution					
ALT I II III Approved by: Date:					

#### KOLAR Document ID: 1662240

Operator Nam	ne:			Lease Name:	Well #:
Sec	Twp	S. R	East West	County:	

Page Two

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken Yes No (Attach Additional Sheets)				og Formatio	n (Top), Depth a	and Datum	Sample		
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c		] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[			ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Use	s Used Type and Percent Additives				
Protect Casing Plug Back TD Plug Off Zone									
<ol> <li>Did you perform a hydra</li> <li>Does the volume of the</li> <li>Was the hydraulic fracture</li> </ol>	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	MPLE	TION:		PRODUCTIC Top	DN INTERVAL: Bottom
Vented Sold Used on Lease Open Hole Perf.			-	·	nit ACO-4)	юр	Bollom		
Shots Per         Perforation         Perforation         Bridge Plug         Bridge Plug           Foot         Top         Bottom         Type         Set At		Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)			
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion			
Operator	Scout Energy Management LLC			
Well Name	COLLINGWOOD A-5 ATU-360			
Doc ID	1662240			

All Electric Logs Run

Sonic	
Dual Induction	
Neutron Density	
Porosity	

Form	ACO1 - Well Completion			
Operator	Scout Energy Management LLC			
Well Name	COLLINGWOOD A-5 ATU-360			
Doc ID	1662240			

# Perforations

Shots Per Foot	Perforation Top	Perforation Bottom	BridgePlugTyp e	BridgePlugSet At	Material Record
2	2386	2394			331 bbl x frac, 39 bbl L frac, 24 bbl 15% hcl, 100,739 #'s 16/30 sand, 287,000 scf N2
2	2415	2428			
2	2470	2481			332 bbl x frac, 41 bbl L frac, 24 bbl 15% hcl, 100,700 #'s 16/30 sand, 300,000 scf N2
2	2495	2503			
2	2541	2553			
2	2587	2598			
2	2709	2717			204 bbl x frac, 34 bbl L frac, 24 bbl 15% hcl, 50,317 # 16/30 sand, 245,00SCF N2
2	2778	2787			
2	2799	2808			
2	2836	2842			

Form	ACO1 - Well Completion		
Operator	Scout Energy Management LLC		
Well Name	COLLINGWOOD A-5 ATU-360		
Doc ID	1662240		

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	617	Class A	255	2% CC, 2% SMS, 2% Gyp. 1/4# cellofla
Production	7.875	5.5	17	2941	Class C	185	50/50/8 .3%C-19
Production	7.875	5.5	17	2941	Class C	165	65/35/4 2# tac Blitz, .4%c17

# Quasar Energy Services, Inc. 3288 FM 51 Gainesville, TX 76240

# Invoice

Date	Invoice #
7/18/2022	147057

#### Bill To

Scout Energy Partners 13800 Monfort Road, Suite 100 Dallas Tx 75240 As of 09/22/2015 any invoice with a discount must be paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect the full price.

				Well
	[		J 360	
Description		Quantity	Rate	Amount
Pickup Mileage Equipment Mileage Pump Charge Plug Container Class A Cement Texas Pattern SawTooth 8 5/8 Auto fill tube Insert Float-8 5/8 Top Rubber Plug 9 5/8 Centralizers-8 5/8 Calcium Chloride Cello Flakes Gypsum Sodium Metasilicate Subtotal Discount -20%		75 150 1 1 255 1 1 1 1 3 500 60 500 500	5.3 8.3 2,315.2 330.7 16.5 343.9 105.8 396.9 91.8 92.6 1.4 2.6 1.0	1         398.2           0         1,245.0           5         2,315.2           5         330.7           4         4,217.7           8         343.9           44         105.8           90         396.9           8         91.8           51         277.8           66         730.0           55         159.0           90         500.0           52         1,160.0           12,272.3         12,272.3
			Total	\$9,817.9
		F	Payments/Cree	dits \$0
			Balance Du	<b>Je</b> \$9,817.9

All accounts are past due net 30 days following the date of invoice. A finance charge of 1.5% per month or 18% annual percentage rate will be charged on all past due accounts.

G	Form 185-2J		R	QUA	SAR	3288 Gainesville	<b>Y SERVIC</b> 3 FM 51 , Texas 76240	CES, I	INC.			
	IGT OF	VILES	н н Ччши.				10-612-3336					AT I
www	.quasarenergy	services.	com		Fax: 94	40-612-3336	qesi@qeserve	.com			A	1
			F	RACTURING	3	ACID	CEMENT		NITROGEI	N		
BID #:	5738			AFE#/PO	#: 15212		1					
TYPE / PUR	RPOSE OF JO	OB:	Cen	nent-Surface			SERVICE POINT:	Liberal, K	S			
CUSTOMER	R:		Sco	ut Energy Parti	ners		WELL NAME:	Collingwo	ood A5 ATU 3	360		
ADDRESS:			144	00 Midway Ro	ad		LOCATION:	Ulysses, I	ks.			
спту:		Dall	as	STATE:	Texas	<b>ZIP:</b> 75244	COUNTY: Sta	inton	STAT	E: KS		
	OF SALE	7/14/										
QTY.	CODE	YD	UNIT	DUMDING		JIPMENT USE	ED		LINIT	PRICE	۵M	OUNT
75	1000	L	Mile	Mileage - F					ONT	\$5.31	\$	398.25
150	1010	L	Mile	Mileage - E	Equipment	Mileage - Per	r Mile			\$8.30	\$	1,245.00
1	5622 6030	L	Per Well Per Well	Pumping S Plug Conta		arge -1				,315.25 \$330.75	\$ \$	2,315.25 330.75
QTY. 255	<b>CODE</b> 5630	YD	UNIT Per Sack	MATERIA Cement - (	and the second	Subt	total for Pumping	& Equipn		<b>Jes</b> PRICE \$16.54		<b>4,289.25</b> OUNT 4,217.70
												0.40.00
1	4800		Each Each	Texas Patt Auto Fill Tr						\$343.98 \$105.84	\$	343.98 105.84
1	4880	L	Each	Insert Floa		0		dan salga asarkitsata dan da	and the second se	\$396.90	\$	396.90
1	4900	L	Each	Top Rubbe						\$91.88	\$	91.88
3	4920	L	Each	Centralize	rs 8 5/8"					\$92.61	\$	277.83
500	5770	L	Per Lb.	Calcium C	hloride					\$1.46	\$	730.00
60	5800	L	Per Lb.		es-Poly Fla	ake 1/8" cut				\$2.65	\$	159.00
500 500	5850 5900		Per Lb. Per Lb.	Gypsum Sodium Me	etasilicate	(SMS) C-45				\$1.00 \$2.32	\$	500.00 1,160.00
MANH	IOURS:	29		RKERS: 3			Subto	otal for Ma	aterial Cha TOTAL		\$	7,983.13
Danie	el Beck	1	WORKERS			DISCO	OUNT: 20%	DI	SCOUNT			2,454.48
	McLane								D TOTAL			9,817.90
	martinez <b>8 &amp; NOTE</b>	S:		1			As of 9/22/15 any in the invoice date. A invoice will reflect	fter 60 days	a discount is the discourt	must paid nt will be	within ( removed	60 days of I and the
							C	USTOMER	SIGNATU	RE & DA	TE	
							Signature: X	DMe	Reini	nale		
			0 days following t tage rate will be			charge of 1 1/2% ints.	Print Name:	Oma	r Pe	ina	to	



#### QUASAR ENERGY SERVICES, INC.

3288 FM 51

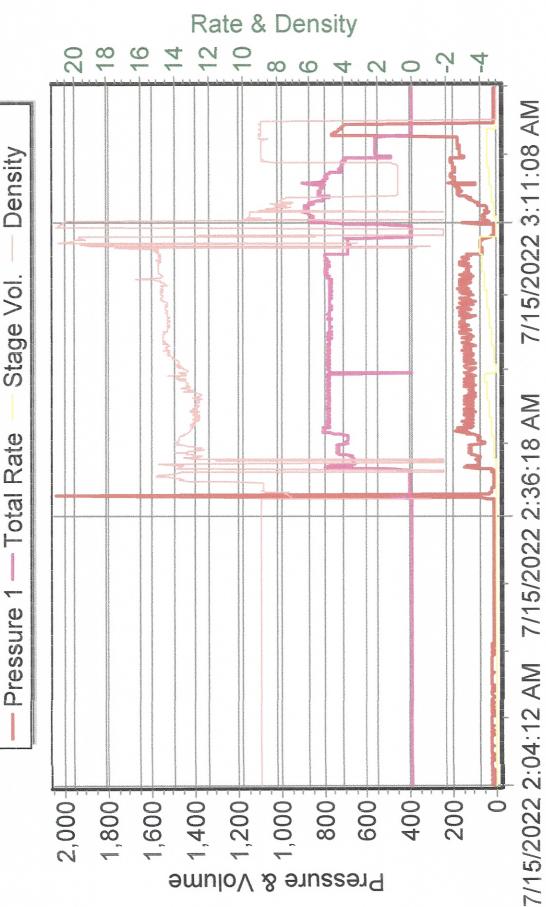
Gainesville, Texas 76240 Office: 940-612-3336 Fax: 940-612-3336 | qesi@qeserve.com Form 185-2J

7/14/22 CEMENTING JOB LOG

**CEMENTING JOB LOG** 

CEIVIEIVIII										Callinguised	TATU 200		
Company:	Scout Er			ers				Well Name: Collingwood A5 ATU 360 AFE #: 15212					
Type Job:	Cement	- Surfac	ce				CACU			15212			
<b>C</b> *	0.5	10				<del>dein du conten</del> t		NGI	DATA		24	and the state of the	
Size:	8 5/			G	rade:		J-55		Weight:		24		
Casing Dept	for and a local design of the local design of	Top:				om:	617.1	14			ann an		
Drill Pipe:		Size:				ght:				acker:			
Open Hole:	epuryon transmission and an and a second	Size:	12 :	1/4	T.D.	(ft):	634	approximate the second		Hole:		n manana manang kananan yang mendang menang mena	
							CEME	ENT	DATA				
Spacer T	ype:						- 3 / 1			T			
Amt.		Sks Yi			0	All second and a second second	ft $^{3}/_{sk}$				Density (PPG)		
LEAD:								4# C	elloflake		Excess		
Amt.	105	Sks Y	ield		306.6		ft $^{3}/_{sk}$		2.92		Density (PPG)	11.43	
TAIL:	(	Class A	: 2% (	Gyp., 2	2%SM	S., 2%	CC., 1/-	4# C	elloflake		Excess		
Amt.	150	Sks Y	ield		273		ft $^{3}/_{sk}$		1.82		Density (PPG)	13.3	
WATER	:										ł		
Lead:	105	gals/	sk:	1	8	Tail:	150	)	gals/sk:	9.75	otal (bbls):	79.8	
Pump Trucks	Used:		10200 · · · · · · · · · · · · · · · · · ·	Bellin - Level Interio	1.000 million and and	9.0 <del>4 (angla kao</del> na			04, DP0	)3	ana ana amin'ny fisiana amin'ny soratra dalamana dia 1938. N		
Bulk Equipm	ent:								228, 660	-20			
Disp. Fluid T	and the second second second second	Water	(Sup	plied)		Amt.	(Bbls.)		36.6	Weight (PP	G):	8.3	
COMPANY	REPRESE	ENTATI	VE:			On	nar		CE	MENTER: Dan	el Beck		
	<del></del>	waa waaan toreedad oo t							un ale classification and a sub-				
TIME				RES PS					IPED DATA		REMARKS		
AM/PM	Casi	ng	Tub	oing	ANN	ULUS	TOTA	AL	RATE				
1:30							ļ				& SAFETY MEET	ING	
3:19	<u> </u>									RIG TO CIRCUL	ATE		
3:38										RIG TO PT			
3:40										PRESSURE TES			
3:43	120						54.6slu		4.4	PUMP 105SX L	the second s		
3:55	130						48.6slu	Irry	4.9	PUMP 150SX T			
4:11										SHUTDOWN /	DROP PLUG		
4:13	150						10		5.0	DISPLACE			
	180						20		5.1				
	210						30		4.1				
4:21	210						31		4.1	the second s	2.2BPM @ 170		
4:23	170		an and the second	and and the state of the state			36.6		2.1		RESSURE UP TO	740PSI	
4:25											FLOAT HELD		
										JOB COMPLET	-	*****	
							ļ						
											and the second		
	<u> </u>						<u> </u>			<u> </u>			
Company:	Scout E	nergy F	Partn	ers				١		Collingwood A	5 ATU 360		
Type Job:	Cement	t- Surfa	ce						AFE #:	15212			
Date:	7/14/2	2022	CEME	INTIN	G JOB	LOG				QUASAR ENERGY SER	VICES, INC.   185-2		

Collingwood A5 ATU 360 **Scout Energy Partners** 



# Quasar Energy Services, Inc. 3288 FM 51 Gainesville, TX 76240

# Invoice

Date	Invoice #
7/26/2022	147188

#### Bill To

Scout Energy Partners 13800 Monfort Road, Suite 100 Dallas Tx 75240 As of 09/22/2015 any invoice with a discount must be paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect the full price.

			Well			
	Collingwood SS ATU 360					
Description	Quantity	Rate	Amount			
Pickup Mileage Equipment Mileage Pump Charge Plug Container Auto fill shoe (blue) 5 1/2 Latch down plug & baffle Centralizers-5 1/2 Class C-Lite Cement C-17 C-19 Defoamer Tactical Blitz Salt Subtotal Discount -20%	75 150 1 1 1 1 1 1 0 350 58 47 4 330 600	5.31 8.30 2,315.25 330.75 396.90 420.00 66.15 19.85 11.76 12.89 46.31 2.51 0.50 -20.00%	398.25 1,245.00 2,315.25 330.75 396.90 420.00 661.50 6,947.50 682.08 605.83 185.24 828.30 300.00 15,316.60 -3,063.32			
		Total	\$12,253.28			
		Payments/Credit	<b>S</b> \$0.0			
		Balance Due	\$12,253.28			

All accounts are past due net 30 days following the date of invoice. A finance charge of 1.5% per month or 18% annual percentage rate will be charged on all past due accounts.

C ENE WWW.Q	Form 185-2J		S.INC.	QUAS		Gai O	3288 inesville ffice: 94	Y SERV 3 FM 51 , Texas 76240 40-612-3336   qesi@qeser			<i>C.</i>	A	
				FRACTURIN			CID	CEMENT		NITRO	DGEN		
BID #:	5739			AFE#/PO#	<b>‡:</b> 1521	.2	01.44-11-21-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2	1		]			
TYPE / PUF	POSE OF JO	)B:	LONG STRING					SERVICE POINT:		Liberal, KS		10	
CUSTOME	R: SCOL	JT ENER	RGY PARTNERS					WELL NAME:		COLLINGWOO	D S5 ATU360		
ADDRESS:	1440	0 MIDV	VAY ROAD					LOCATION:		ULYSSES, KS			
CITY:	DALL	.AS		STATE:	ΤХ	ZIP:	75244	COUNTY:	ST	ANTON	STATE: KS		
DATE OF S	ALE:	7/18/	2022										
QTY.	CODE	YD	UNIT	PUMPING			NTUS	Ð			UNIT PRICE	AM	OUNT
75	1000	L	Mile	Mileage - P	ickup -	Per Mil	e				\$5.31	\$	398.25
150	1010	L	Mile	Mileage - E	quipmer	nt Milea	ge - Per	Mile			\$8.30		1,245.00
1	5622 6030	L	Per Well Per Well	Pumping Se		harge -	1				\$2,315.25 \$330.75		2,315.25
1	4300	L	Each	Plug Contai Auto Fill Sh		e) 51	/2"				\$330.75	\$	330.75 396.90
1	4371	L	Each	Latch Down				Blue		an a	\$420.00	\$	420.00
10	4450	L	Each	Centralizers							\$66.15	\$	661.50
QTY. 350 58 47 4 330 600	CODE 5670 5693 5694 5751 5803 5890	YD L L L L L	UNIT Per Sack Per Lb. Per Lb. Per Gal. Per Lbs. Per Lb.	MATERIAL Cement - Li C-17 Fluid I C-19 Light V C-41L Defo Tactical Blit Salt	ite - C Loss Weight I amer Li			ototal for Pump	bing	& Equipmen	t Charges UNIT PRICE \$19.85 \$11.76 \$12.89 \$46.31 \$2.51 \$0.50		5,767.65 OUNT 6,947.50 682.08 605.83 185.24 828.30 300.00
				RKERS: 3				Sul	btota	al for Materia	LI Charges	\$	9,548.95
			WORKERS							TC	TAL \$		15,316.60
	HARPER			-			DISCO				UNT \$		3,063.32
NOEL	S IBARRA	S:		-				As of 9/22/15 an the invoice date invoice will refle	y invo . Afte ect ful	r 60 days the d I price. TOMER SIG	count must paid	within 60 emoved	12,253.28 D days of and the
*All account month or 18	s are past du % annual per	e net 30 centage	days following the rate will be charge	e date of invoice. / ed on all past due	A finance c accounts.	harge of 1	-1/2% per	Print Name:		- 0 - 0			



### QUASAR ENERGY SERVICES, INC.

3288 FM 51 Gainesville, Texas 76240 Office: 940-612-3336 Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2J

7/18/22

CEMENTING JOB LOG

**CEMENTING JOB LOG** 

Ype Job:         LONG STRING         AFE #: 15210           CASING DATA           ize:         5 1/2         Grade:         P110         Weight:         17           asing Depths         Top:         20.28         Bottom:         2941.5	CEMENIIN	G JOR TO	G												
ype Job:         LONG STRING         AFE #: 15212           CASING DATA           to Sing DATA           asing Depths         Top:         20.28         Bottom:         2941.5         17           asing Depths         Top:         20.28         Bottom:         2941.5         17           asing Depths         Top:         20.28         Bottom:         2941.5         17           asing Depths         0         Grade:         0         TD (ft):         2948           pen Hole:         Size:         77/8         T.D. (ft):         2948         Density (PPG)           admit         Sks Yield         ft <sup>3</sup> /s         Density (PPG)         10.8           CEMENT DATA           Spacer Type:           Ant.         185         Sks Yield         1.63         ft <sup>3</sup> /s         Density (PPG)         10.8           Admit         165         Sks Yield         1.63         ft <sup>3</sup> /s         Density (PPG)         13.4           mark to bed:         110 - 0P07           weight (PPG):         8.3         Total (bbis):         13.4 <td colspan<="" td=""><td>Company:</td><td>SCOUT</td><td>ENERGY PA</td><td>RTNE</td><td>RS</td><td></td><td></td><td>1</td><td>Well Name:</td><td>COLLING</td><td>WOOD S</td><td>5 ATU360</td><td></td></td>	<td>Company:</td> <td>SCOUT</td> <td>ENERGY PA</td> <td>RTNE</td> <td>RS</td> <td></td> <td></td> <td>1</td> <td>Well Name:</td> <td>COLLING</td> <td>WOOD S</td> <td>5 ATU360</td> <td></td>	Company:	SCOUT	ENERGY PA	RTNE	RS			1	Well Name:	COLLING	WOOD S	5 ATU360		
ize:       5 1/2       Grade:       P110       Weight:       17         asing Depths       Top:       20.28       Bottom:       2941.5       International System       Internaternational System <td>Type Job:</td> <td>LONGS</td> <td>TRING</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="6"></td>	Type Job:	LONGS	TRING												
17           asing Depths         Top: 20.28         Bottom: 2941.5           Interview of the second							CA	SING	DATA						
Irill Pipe:       Size:       0       Weight:       0       Grade:       0       TD (ft):       2948         erforations       Size:       7/8       T.D. (ft):       2948       0       TD (ft):       2948         erforations       From (ft):       0       To:       0       Packer Depth(ft):       0       0         CEMENT DATA         Spacer Type:         Amt.       Sks Yield       ft <sup>3</sup> / <sub>sk</sub> Density (PPG)       Excess         Amt.       185       Sks Yield       3.19       ft <sup>3</sup> / <sub>sk</sub> Density (PPG)       10.8         TAIL:       CLASS C - 65/35-44%C/17, 5% SALT, 2# TACTICAL BLITZ       Excess       Excess       Ant.         165       Sks Yield       1.63       ft <sup>3</sup> / <sub>sk</sub> Density (PPG)       13.4         WATER:       gals/sk:       20       Tail:       gals/sk:       8.3       Total (bbls):         ump Trucks Used:       110 - 0P07       Weight (PPG):       8.33       Ud Type:       Sts Yield	Size:						P110		Weight:	:		17			
ubing:         Size:         0         Weight:         0         Grade:         0         TD (ft):         2948           erforations         From (ft):         0         Packer Depth(ft):         0                  0         Packer Depth(ft):         0             0         Packer Depth(ft):         0             0         Packer Depth(ft):         0               0         Packer Depth(ft):         0             0             0            0             2948                 0 <td>and the second se</td> <td>oths</td> <td></td> <td></td> <td></td> <td></td> <td>294</td> <td>1.5</td> <td></td> <td></td> <td></td> <td></td> <td></td>	and the second se	oths					294	1.5							
ppen Hole:         Size:         7 7/8         T.D. (ft):         2948         Density         Density (PPG)           erforations         From (ft):         0         To:         0         Packer Depth(ft):         0           Spacer Type:															
erforations         From (ft):         0         To:         0         Packer Depth(ft):         0           Spacer Type:	and the second se								Grade:	0	TE	) (ft):	2948		
CEMENT DATA           Spacer Type:           CEMENT DATA           Spacer Type:           CEMENT DATA           Density (PPG)           Lab:         CLASS C - 50/50-83% C19         Excess           Amt.         185 Sks Yield         3.19         Excess           Amt.         165 Sks Yield         1.63         ft 3/ <sub>a</sub> Density (PPG)         1.84           Amt.         165 Sks Yield         1.63         ft 3/ <sub>a</sub> Density (PPG)         1.84           MATER:         gals/sk:         8.3         Total (bis):           Introducts Used:         110 - DPO7           Used:         110' PUMPED DATA         RESENTED TOTAL         REMARKS           MARK         Amt. (bis):         CEMENTER:         COMPANY REPRESENTATIVE:         OMAR         CEMENTER:         KIBY HARPER           TIME         PRESSURE PSI         FILID PUMPED DA	The party of the second s			And the second second second			and the second						An one had the state of the sta		
Spacer Type:           Amt.         Sks Yield         ft ${}^{2}/_{Ak}$ Density (PPG)           EAD:         CLASS C - 50/50-83% C19         Excess           Amt.         185         Sks Yield         3.19         ft ${}^{2}/_{Ak}$ Density (PPG)         10.8           TAIL:         CLASS C - 65/35-44%C17, 5% SALT, 2# TACTICAL BLITZ         Excess           Amt.         165         Sks Yield         1.63         ft at CLASS C - 65/35-44%C17, 5% SALT, 2# TACTICAL BLITZ         Excess           Amt.         163         Total (bbls):         Density (PPG)         13.4           WATER:         gals/sk:         8.3         Total (bbls):         and total (bbls):           amp Trucks Used:         110 - DP07           Weight (PPG):         8.33           TIME         PRESSURES PSI         FLUID PUMPED DATA         REMARKS           TIME         PRESSURES PSI <th <="" colspan="2" td=""><td>Perforation</td><td>S</td><td>From (ft)</td><td>:</td><td>0</td><td>To:</td><td></td><td>in the local division of the second</td><td>the second s</td><td>Depth(ft):</td><td></td><td>0</td><td></td></th>	<td>Perforation</td> <td>S</td> <td>From (ft)</td> <td>:</td> <td>0</td> <td>To:</td> <td></td> <td>in the local division of the second</td> <td>the second s</td> <td>Depth(ft):</td> <td></td> <td>0</td> <td></td>		Perforation	S	From (ft)	:	0	To:		in the local division of the second	the second s	Depth(ft):		0	
Amt.       Sks Yield       ft <sup>3</sup> / <sub>4</sub> Density (PPG)         EAD:       CLASS C - 50/50.83% C19       Excess         Amt.       185       Sks Yield       3.19       ft <sup>3</sup> / <sub>4</sub> Density (PPG)       10.8         Amt.       185       Sks Yield       3.19       ft <sup>3</sup> / <sub>4</sub> Density (PPG)       10.8         Amt.       165       Sks Yield       1.63       ft <sup>3</sup> / <sub>3k</sub> Density (PPG)       13.4         WATER:       LCASS C - 65/35.44%C17, 5% SALT, 2# TACITCAL BLITZ       Excess       Excess       13.4         WATER:       Jass Sks Yield       1.63       ft <sup>3</sup> / <sub>3k</sub> Density (PPG)       13.4         WATER:       Jass Sks Yield       1.63       ft <sup>3</sup> / <sub>3k</sub> State       Density (PPG)       13.4         Watter:       Jass Sks Yield       1.63       ft <sup>3</sup> / <sub>3k</sub> Density (PPG)       13.4         Watter:       Jass Sks Yield       1.63       ft <sup>3</sup> / <sub>3k</sub> Density (PPG)       13.4         Watter:       Jass Sks Yield       Jass Yield       Jass Yield       Jass Yield	Spacor	Tunoi	1				CEN	<b>IENT</b>	DATA						
EAD:         CLASS C 50/50-83% C19         Excess           Amt.         185         Sks Yield         3.19         ft <sup>3</sup> / <sub>sk</sub> Density (PPG)         10.8           TAIL:         CLASS C 65/35-44%C17, 5% SALT, 2# TACTICAL BLITZ         Excess         Excess         Amt.           Mmt.         165         Sks Yield         1.63         ft <sup>3</sup> / <sub>sk</sub> Density (PPG)         13.4           WATER:         gals/sk:         20         Tail:         gals/sk:         8.3         Total (bbis):         amt.           ump Trucks Used:		Type:	Clas VC-14	1		1	c. 31				1	T			
Ant.         185         Sks Yield         3.19         ft <sup>3</sup> / <sub>sk</sub> Density (PPG)         10.8           TAIL:         CLASS C - 65/35-44%C17, 5% SALT, 2# TACTICAL BLITZ         Excess         Density (PPG)         13.4           Ant.         165         Sks Yield         1.63         ft <sup>3</sup> / <sub>sk</sub> Density (PPG)         13.4           WATER:         gals/sk:         20         Tail:         gals/sk:         8.3         Total (bbls):           amp Trucks Used:         110 - DP07         Weight (PPG)         8.33           ult Equipment:         189 - 660-21         s.33         Weight (PPG):         8.33           ult Type:         FRESH WATER         Amt. (Bbls.)         91         Weight (PPG):         8.33           UIT Type:         FRESSURES PSI         FLUID PUMPED DATA         REMARKS           AM/PM         Casing         Tubing         ANNULUS         TOTAL         RATE           730         Company Representative:         ON LOCATION - SPOT AND RIG UP         Cosing UP           000         Casing         Tubing         ANNULUS         TOTAL         RATE           730         Company Representative:         Gasing UP         ON LOCATION - SPOT AND RIG UP           163         Con			J		0 50						Dei				
TAIL:       CLASS C - 65/35-44%C17, 5% SALT, 2# TACTICAL BLITZ       Excess         Amt.       165       Sks Yield       1.63       ft <sup>3</sup> / <sub>sk</sub> Density (PPG)       13.4         WATER;		405	1	LASS				C19							
Amt.         165         Sks Yield         1.63         ft <sup>3</sup> / <sub>sk</sub> Density (PPG)         13.4           WATER:         gals/sk:         20         Tail:         gals/sk:         8.3         Total (bbls):         13.4           ump Trucks Used:         110 - DP07         110 - DP07         189 - 660-21         8.33         Total (bbls):         110 - DP07           uk Equipment:         189 - 660-21         189 - 660-21         8.33         100 - DP07         Weight (PPG):         8.33           lud Type:         PRESSURES PSI         FLUID PUMPED DATA         REMARKS         REMARKS           730         ON         CASING ON BOTTOM - SPOT AND RIG UP         000 LOCATION - SPOT AND RIG UP         000         00 LOCATION - SPOT AND RIG UP           744         2000         ID5         S START MIXING 185 SK LEAD @ 10.8 PPG         13.4 PPG           111         600         0         5         START MIXING 165 SK TAIL @ 13.4 PPG         12.4 PPG           127         700-1300         81         2         SLOW RATE         2.0 CIRCULATE CEMENT TO THE PIT           128         1300-0         91         BUMP PLUG         12.4 PPG         12.4 PPG           129         O         CIRCULATE CEMENT TO THE PIT         12.4 PPG <t< td=""><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Dei</td><td></td><td>10.8</td></t<>			1								Dei		10.8		
WATER:       gals/sk:       20       Tail:       gals/sk:       8.3       Total (bbls):         ump Trucks Used:       110 - DP07       110 - DP07         Lik Equipment:       110 - DP07         Lik Equipment:       189 - 660-21         isp. Fluid Type:       FRESH WATER       Amt. (Bbls.)       91       Weight (PPG):       8.33         Lud Type:       OMAR       CEMENTER:       KIRBY HARPER         TIME       PRESSURES PSI       FLUID PUMPED DATA       REMARKS         AM/PM       Casing       Tubing       ANNULUS       TOTAL       RATE         730       ON       CASING ON BOTTOM - BREAK CIRC         014       2000       CASING ON BOTTOM - BREAK CIRC         014       2000       105       S       START MIXING 185 SK LEAD @ 10.8 PPG         111       600       0       5       START MIXING 185 SK LEAD @ 10.8 PPG         111       600       0       5       START MIXING 185 SK LEAD @ 10.8 PPG         111       600       0       5       START MIXING 165 SK TAIL @ 13.4 PPG         127       700-1300       81       2       SLOW RATE         128       1300-0       91       BUMP PLUG         129       20<			1	5-4				2# TA	CTICAL BLIT	Z					
Lead:         gals/sk:         20         Tail:         gals/sk:         8.3         Total (bbls):           ump Trucks Used:         110 - DP07         110 - DP07         110 - DP07         110 - DP07           ulk Equipment:         189 - 660-21         Weight (PPG):         8.33         100 - DP07           isp. Fluid Type:         FRESH WATER         Amt. (Bbls.)         91         Weight (PPG):         8.33           isp. Fluid Type:         OMAR         CEMENTER:         KIRBY HARPER         Meight (PPG):         8.33           COMPANY REPRESENTATIVE:         OMAR         CEMENTER:         KIRBY HARPER           TIME         PRESSURES PSI         FLUID PUMPED DATA         REMARKS           AM/PM         Casing         Tubing         ANNULUS         TOTAL         RATE           730         ON LOCATION - SPOT AND RIG UP         CASING ON BOTTOM - BREAK CIRC         PRESSURE TEST         D14         2000         105         START MIXING 185 SK LEAD @ 10.8 PPG           014         2000         488         S         START MIXING 185 SK LEAD @ 10.8 PPG           021         400         0         S         START MIXING 185 SK LEAD @ 10.8 PPG           023         SUOW RATE         SUOW RATE         SUOW RATE         SUOW RATE			Sks Yield		1.63		ft <sup>°</sup> / <sub>sk</sub>				Dei	nsity (PPG)	13.4		
Imp Trucks Used:         Internet         Internet <thinternet< th="">         Intere         <thinternet< th=""></thinternet<></thinternet<>															
ulk Equipment:         189 - 660-21           isp. Fluid Type:         FRESH WATER         Amt. (Bbls.)         91         Weight (PPG):         8.33           lud Type:         OMAR         CEMENTER:         KIRBY HARPER           TIME         PRESSURES PSI         FLUID PUMPED DATA AM/PM         REMARKS           200         ON LOCATION SPOT AND RIG UP         00           200         CASING ON BOTTOM BREAK CIRC         PRESSURE TEST           201         105         S         START MIXING 185 SK LEAD @ 10.8 PPG           203         48         S         START MIXING 185 SK TAIL @ 13.4 PPG           203         0         48         S         START MIXING 185 SK TAIL @ 13.4 PPG           203         0         5         START MIXING 165 SK TAIL @ 13.4 PPG           204         0         5         START MIXING 165 SK TAIL @ 13.4 PPG           205         0         5         START DISPLACING WITH FRESH WATER           206         0         5         START DISPLACING WITH FRESH WATER           207         700-1300         811         2         SLOW RATE           208         209         CIRCULATE CEMENT TO THE PIT         20           209         CIRCULATE CEMENT TO THE PIT         20 <td></td> <td></td> <td>gals/sk:</td> <td></td> <td>20</td> <td>Tail:</td> <td></td> <td></td> <td></td> <td>1</td> <td>Tota</td> <td>l (bbls):</td> <td></td>			gals/sk:		20	Tail:				1	Tota	l (bbls):			
isp. Fluid Type:       FRESH WATER       Amt. (Bbls.)       91       Weight (PPG):       8.33         lud Type:       OMAR       CEMENTER: KIBY HARPER         COMPANY REPRESENTATIVE:       OMAR       CEMENTER: KIBY HARPER         TIME       PRESSURES PSI       FLUID PUMPED DATA AM/PM       REMARKS         230       Tubing       ANNULUS       TOTAL       RATE         730       ON LOCATION SPOT AND RIG UP       CASING ON BOTTOM BREAK CIRC         014       2000       PRESSURE TEST       PRESSURE TEST         019       400       105       5       START MIXING 185 SK LEAD @ 10.8 PPG         103       SHUT DOWN DROP PLUG CLEAN LINES       SHUT DOWN DROP PLUG CLEAN LINES         111       600       0       5       START MIXING 165 SK TAIL @ 13.4 PPG         127       700-1300       81       2       SLOW RATE         128       1300-0       91       BUMP PLUG         129       20       CIRCULATE CEMENT TO THE PIT         129       20       CIRCULATE CEMENT TO THE PIT         120       20       CIRCULATE CEMENT TO THE PIT         121       20       CIRCULATE CEMENT TO THE PIT         128       1300-0       20       CIRCULATE CEMENT									An extension of the second sector of the second sec						
Ind Type:       Weight (PPG):       OWS         COMPANY REPRESENTATIVE:       OMAR       CEMENTER:       KIRBY HARPER         TIME       PRESSURES PSI       FLUID PUMPED DATA AM/PM       REMARKS         Casing       Tubing       ANNULUS       TOTAL       RATE         730       ON LOCATION SPOT AND RIG UP       CASING ON BOTTOM BREAK CIRC         730       Casing       UN       ON LOCATION SPOT AND RIG UP         730       Casing ON BOTTOM BREAK CIRC       PRESSURE TEST         734       2000       PRESSURE TEST         735       105       5       START MIXING 165 SK TAIL @ 10.8 PPG         738       200       488       5       START MIXING 165 SK TAIL @ 13.4 PPG         738       200       488       5       START MIXING 165 SK TAIL @ 13.4 PPG         738       Start Displacing with FRESH WATER       SHUT DOWN DROP PLUG CLEAN LINES         111       600       0       5       START DISPLACING WITH FRESH WATER         127       700-1300       811       2       SLOW RATE         128       1300-0       91       BUMP PLUG       PLUA         200       CIRCULATE CEMENT TO THE PIT       20       CIRCULATE CEMENT TO THE PIT				TED		Amt				T****			0.00		
OMAR       COMMARING COMPANY REPRESENTATIVE:         TIME       PRESSURES PSI       FLUID PUMPED DATA RAM/PM       REMARKS         AM/PM       Casing       Tubing       ANNULUS       TOTAL       RATE       REMARKS         730       O       CASING ON BOTTOM SPOT AND RIG UP       ON LOCATION SPOT AND RIG UP       ON LOCATION SPOT AND RIG UP         700       CASING ON BOTTOM BREAK CIRC       PRESSURE TEST       ON14       2000       PRESSURE TEST         7019       400       105       5       START MIXING 185 SK LEAD @ 10.8 PPG         704       SHUT DOWN DROP PLUG CLEAN LINES       SHUT DOWN DROP PLUG CLEAN LINES         103       SHUT DOWN DROP PLUG CLEAN LINES       SHUT DOWN DROP PLUG CLEAN LINES         111       600       0       5       START DISPLACING WITH FRESH WATER         127       700-1300       81       2       SLOW RATE         128       1300-0       91       BUMP PLUG         20       CIRCULATE CEMENT TO THE PIT       20       CIRCULATE CEMENT TO THE PIT         21       20       CIRCULATE CEMENT TO THE PIT       20         220       CIRCULATE CEMENT TO THE PIT       20       20         220       CIRCULATE CEMENT TO THE PIT <td>the second s</td> <td>Type.</td> <td>TRESTINA</td> <td>ILK</td> <td></td> <td>Amt.</td> <td>(BDIS.)</td> <td></td> <td colspan="3"></td> <td colspan="2"></td>	the second s	Type.	TRESTINA	ILK		Amt.	(BDIS.)								
TIME         PRESSURES PSI         FLUID PUMPED DATA RAM/PM         REMARKS           730         Image: Construction of the second se			CNITATIVE.			01			0						
AM/PM         Casing         Tubing         ANNULUS         TOTAL         RATE         REMARKS           730             ON LOCATION SPOT AND RIG UP           000            CASING ON BOTTOM BREAK CIRC           014         2000           PRESSURE TEST           019         400         105         5         START MIXING 185 SK LEAD @ 10.8 PPG           048         200         448         5         START MIXING 165 SK TAIL @ 13.4 PPG           103           SHUT DOWN DROP PLUG CLEAN LINES           111         600         0         5         START MIXING 165 SK TAIL @ 13.4 PPG           127         700-1300         81         2         SLOW RATE           128         1300-0         91         BUMP PLUG           128         1300-0         20         CIRCULATE CEMENT TO THE PIT	COMPAN	I REPRES	CIVIAIIVE:	anticonario a caracteria		UN	IAK	and regardering and and a second s	CE	WENTER:	KIRBY H	ARPER			
AW/PW         Casing         Tubing         ANNOLOS         TUTAL         RATE           730         ON LOCATION SPOT AND RIG UP         CASING ON BOTTOM BREAK CIRC           000         PRESSURE TEST         PRESSURE TEST           019         400         105         5           014         200         48         5         START MIXING 185 SK LEAD @ 10.8 PPG           034         200         48         5         START MIXING 165 SK TAIL @ 13.4 PPG           03         SHUT DOWN DROP PLUG CLEAN LINES         SHUT DOWN DROP PLUG CLEAN LINES           111         600         0         5         START DISPLACING WITH FRESH WATER           127         700-1300         81         2         SLOW RATE           128         1300-0         91         BUMP PLUG           20         CIRCULATE CEMENT TO THE PIT           21         20         CIRCULATE CEMENT TO THE PIT           220         20         CIRCULATE CEMENT TO THE PIT           23         24         24         24           24         24         24         24           25         26         27         27           26         20         CIRCULATE CEMENT TO THE PIT			PRESSU	RES PS	51		FLUID	D PUN	IPED DATA						
200         CASING ON BOTTOM BREAK CIRC           2014         2000         PRESSURE TEST           2019         400         105         5         START MIXING 185 SK LEAD @ 10.8 PPG           2048         200         48         5         START MIXING 165 SK TAIL @ 13.4 PPG           203         SHUT DOWN DROP PLUG CLEAN LINES         SHUT DOWN DROP PLUG CLEAN LINES           211         600         0         5         START DISPLACING WITH FRESH WATER           127         700-1300         81         2         SLOW RATE           128         1300-0         91         BUMP PLUG           20         CIRCULATE CEMENT TO THE PIT           20         20         CIRCULATE CEMENT TO THE PIT           211         20         INCULATE CEMENT TO THE PIT	AM/PM	Casi	ng Tu	bing	ANN	ULUS	TOT	<b>TAL</b>	RATE			REIVIARKS			
114       2000       PRESSURE TEST         119       400       105       5       START MIXING 185 SK LEAD @ 10.8 PPG         1048       200       48       5       START MIXING 165 SK TAIL @ 13.4 PPG         103        SHUT DOWN DROP PLUG CLEAN LINES         111       600       0       5       START DISPLACING WITH FRESH WATER         127       700-1300       81       2       SLOW RATE         128       1300-0       91       BUMP PLUG         20       CIRCULATE CEMENT TO THE PIT         20       CIRCULATE CEMENT TO THE PIT         20       20       CIRCULATE CEMENT TO THE PIT         21       20       20         21       20       CIRCULATE CEMENT TO THE PIT         21       21       20       CIRCULATE CEMENT TO THE PIT         21       21       21       21         22       20       CIRCULATE CEMENT TO THE PIT         22       23       24       24         23       24       24       24         24       25       26       27         25       26       27       27         26       27       27       27 <td>1730</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ON LOCAT</td> <td>TION SI</td> <td>POT AND RIC</td> <td>G UP</td>	1730									ON LOCAT	TION SI	POT AND RIC	G UP		
119       400       105       5       START MIXING 185 SK LEAD @ 10.8 PPG         1048       200       48       5       START MIXING 165 SK TAIL @ 13.4 PPG         103        SHUT DOWN DROP PLUG CLEAN LINES         104       0       5       START DISPLACING WITH FRESH WATER         111       600       0       5       START DISPLACING WITH FRESH WATER         127       700-1300       81       2       SLOW RATE         128       1300-0       91       BUMP PLUG         128       1300-0       91       RELEASE PRESSURE FLOAT HELD         128       1300-0       20       CIRCULATE CEMENT TO THE PIT         129       20       CIRCULATE CEMENT TO THE PIT         129       120       1       1         120       1       1       1         121       1       1       1         122       1       1       1         123       1300-0       91       BUMP PLUG         124       20       CIRCULATE CEMENT TO THE PIT         125       126       1       1         126       1       1       1         127       1       1       <	2000									CASING O	N BOTTO	)M BREAK	CIRC		
248       200       48       5       START MIXING 165 SK TAIL @ 13.4 PPG         103       1       SHUT DOWN DROP PLUG CLEAN LINES         111       600       0       5       START MIXING 165 SK TAIL @ 13.4 PPG         127       700-1300       81       2       SLOW RATE         128       1300-0       91       BUMP PLUG         128       1300-0       91       RELEASE PRESSURE FLOAT HELD         128       1300-0       91       CIRCULATE CEMENT TO THE PIT         128       1300-0       20       CIRCULATE CEMENT TO THE PIT         128       129       1       1         129       1       1       1         129       1       1       1         129       1       1       1         129       1       1       1         129       1       1       1         129       1       1       1       1         129       1       1       1       1         129       1       1       1       1         129       1       1       1       1         120       1       1       1       1	2014														
103       SHUT DOWN DROP PLUG CLEAN LINES         111       600       0       5       START DISPLACING WITH FRESH WATER         127       700-1300       81       2       SLOW RATE         128       1300-0       91       BUMP PLUG         20       CIRCULATE CEMENT TO THE PIT         21       20       CIRCULATE CEMENT TO THE PIT         21       20       CIRCULATE CEMENT TO THE PIT         21       21       22       20         21       20       CIRCULATE CEMENT TO THE PIT         21       21       21       21         22       20       CIRCULATE CEMENT TO THE PIT         22       20       CIRCULATE CEMENT TO THE PIT         23       24       24       24         24       25       24       24         25       26       27       27         26       27       28       27         27       28       29       28       28         28       29       20       28       28         29       29       29       29       29         29       29       29       29       29         29	2019										and the second s				
111       600       0       5       START DISPLACING WITH FRESH WATER         127       700-1300       81       2       SLOW RATE         128       1300-0       91       BUMP PLUG         128       1300-0       91       RELEASE PRESSURE FLOAT HELD         128       1300-0       20       CIRCULATE CEMENT TO THE PIT         129       20       CIRCULATE CEMENT TO THE PIT         120       1       1       1         121       1       1       1         122       1       1       1         128       1       1       1         128       1300-0       91       BUMP PLUG         129       20       CIRCULATE CEMENT TO THE PIT         129       1       1       1         120       1       1       1         121       1       1       1         1220       1       1       1         123       1       1       1         124       1       1       1         125       1       1       1         124       1       1       1         125       1 <td< td=""><td></td><td>200</td><td></td><td></td><td></td><td></td><td>48</td><td></td><td>5</td><td></td><td></td><td></td><td></td></td<>		200					48		5						
127       700-1300       81       2       SLOW RATE         128       1300-0       91       BUMP PLUG         RELEASE PRESSURE FLOAT HELD       RELEASE PRESSURE FLOAT HELD         20       CIRCULATE CEMENT TO THE PIT         21       21       22         22       20       CIRCULATE CEMENT TO THE PIT         23       24       25         24       25       26         25       20       CIRCULATE CEMENT TO THE PIT         26       27       28         27       28       29         28       29       20         29       20       20         20       20       20         20       20       20         20       20       20         20       20       20         20       20       20         20       20       20         20       20       20         20       20       20         20		600													
128     1300-0     91     BUMP PLUG       RELEASE PRESSURE FLOAT HELD     RELEASE PRESSURE FLOAT HELD       20     CIRCULATE CEMENT TO THE PIT       1     20       1     1       1			0									WITH FRES	H WATER		
Image: Construction of the second									2						
20     CIRCULATE CEMENT TO THE PIT       20     CIRCULATE CEMENT TO THE PIT	.120	1500-0					91								
										NELLASE F	NE350N	L FLUAT H			
							20			CIRCULAT	F CEMEN	IT TO THE PI	т		
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CEMENTING LOD LOC Page 1															
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CEMENTING JOB LOG - Page: 1

