KOLAR Document ID: 1287245

Confiden	tiality Re	quested:
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 #:	Location of fluid disposal if hauled offsite:
EOR Permit #: GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R East _ West
Recompletion Date Reached TD Completion Date of 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: 1287245

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 (Attach Additional Sheets)		Y	′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
			⁄es 🗌 No	1	Name	Э		Тор	Datum
Samples Sent to Geological Survey Cores Taken Electric Log Run Geologist Report / Mud Logs 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	d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	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			Water Bbls. Gas-Oil Ratio Gravity			Gravity
DISPOSITIO	N OF GAS:		METHOD OF		F COMPLETION:			PRODUCTION INTERVAL: Top Bottom	
Vented Sold (If vented, Subn	Used on Lease		Open Hole Perf.		Dually Comp. Commingled (Submit ACO-5) (Submit ACO-4)		Bottom		
	foration Perform Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)	
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Patterson Unit 4-8
Doc ID	1287245

All Electric Logs Run

Array Induction Shallow Focused Electric Log
Compensated Sonic w/Integrated Transit Time
Compact Photo Density Compensated Neutron Microresistivity Log
Microresistivity Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Patterson Unit 4-8
Doc ID	1287245

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	1125	65/35 POZ, Class A	500	6%gel, 1/4# flakes, 3% CC
Production	7.875	5.50	15.5	4942	65/35 POZ, ASC	250	6%gel, 1/4# flakes, 10%salt, 6#Gilsonit e, 1/4%Defo amer, 1/2%Fluid Loss
Production	7.875	5.50	15.5	3217	65/35 POZ, ASC	450	6%gel, 1/4 # flakes

LIED OIL & GAS SERVICES,

067875

@ 25.00

TOTAL

DISCOUNT 48 % 606

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0

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT

NET TOTAL

B'9

A

IF PAID IN 30 DAYS

IF PAID IN 30 DAYS

COLITIE AVE TEVA COZACO	SERVICE POINT:
SOUTHLAKE, TEXAS 76092	Dakter
DATE 1-3-16 8 235 376	CALLED OUT ON LOCATION JOB START JOB FINISH
EASE unit WELL# 4-8 LOCATION Lakin	- ION LW 1/25 REARNY KS
DLD OR NEW (Circle one)	- feele faith fait
i with the second second	
CONTRACTOR Beredeo #1	OWNER Same
TYPE OF JOB Sur Pace	
HOLE SIZE 12/4 T.D. 1125"	CEMENT
CASING SIZE 85/8 DEPTH 1122	AMOUNT ORDERED 353545 2570 3/200
TUBING SIZE DEPTH	14 Florseal
DRILL PIPE DEPTH	150 sty com 3/bec
TOOL DEPTH	
PRES. MAX MINIMUM	COMMON 150 5ks @ 17.90 2685.00
MEAS. LINE SHOE JOINT 42,22	POZMIX@
CEMENT LEFT IN CSG. 42,22	GEL@
PERFS.	CHLORIDE 1337# @ 1.10 1470.70
DISPLACEMENT 48.28	ASC@
EQUIPMENT	@
	Lightweight 35asts @ 19.88 6958.00
PUMP'TRUCK CEMENTER Andrew Fordun	
HAT CARE UELDED Land Quelo	F Flo-seal 88# @ 2.97 761.36
#52(-281 HELPER berlin Ryon BULK TRUCK	@@
	@
# 373 DRIVER CORY Browson BULKTRUCK	@@
	@
# 891 DRIVER ALQG KYAN	TOTAL 11.375.0
•	DISCOUNT 48 % 5,460.0
REMARKS:	Discoult <u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u>
mix 350 struste Followed by 150	SERVICE
Shi con Release plugand Displace	s k la sure
Stor com Rolease plugand Displace, 500th Lift Pressure Land Plug	C HANDLING 523 04/15+ @ 2148 1396.24
Sta com - Release plugand Displace, 500# Lift Pressure Land Plug 900#. Circulated approx 10 BBC	C HANDLING 522 04/07 @ 2148 1396.24 MILEAGE 2.25 Ton/mile 23.92 Ton 3289.00
500th Lift Pressure Land Plug	C HANDLING <u>56.3</u> <u>U-/F</u> <u>@ 2.48</u> <u>1396.24</u> MILEAGE <u>2.55 Tor/m. 78</u> <u>23.92 Ton</u> <u>3289.00</u> DEPTH OF JOB <u>1122</u>
Soot Lift Pressure Land Plag Soot. Circulated approx 10 BBC	C HANDLING <u>523 cu/27 @ 2148 1396.24</u> MILEAGE <u>2.35 720/m.7e</u> 23.92700 <u>3289.00</u> DEPTH OF JOB <u>1122</u>
Soot Lift Pressure Land Plag Soot. Circulated approx 10 BBC	C HANDLING <u>56.3</u> <u>U-/F</u> <u>@ 2.48</u> <u>1396.24</u> MILEAGE <u>2.55 Tor/m. 78</u> <u>23.92 Ton</u> <u>3289.00</u> DEPTH OF JOB <u>1122</u>
Soot Lift Pressure Land Plag Soot. Circulated approx 10 BBC	C HANDLING 52.3 i_{-}/f^{+} @ 2.48 1396.24 MILEAGE 2.55 i_{-}/f^{-} @ 2.48 1396.24 MILEAGE 23.92 i_{-}/f^{-} i_{-}/f^{-} i_{-}/f^{-} DEPTH OF JOB 1122' i_{-}/f^{-} i_{-}/f^{-} PUMP TRUCK CHARGE 2058.50 EXTRA FOOTAGE @
500th Lift Pressure Land Place Jost . Circulated approx 10 BBC Cement TO PIT	C HANDLING 522 04/FT @ 2148 1396.24 MILEAGE 2.35 73-1/m.1e 23.92 73-n 3289.00 DEPTH OF JOB 1122' PUMP TRUCK CHARGE 2058.50 EXTRA FOOTAGE @ HV MILEAGE 50 m.16 25 Ø 7.76 385700
Soot Lift Pressure Land Plag Soot. Circulated approx 10 BBC	C HANDLING 52.3 i_{-}/f^{+} @ 2.48 1396.24 MILEAGE 23.92 700 3289.00 DEPTH OF JOB 1122' PUMP TRUCK CHARGE 2058.50 EXTRA FOOTAGE @ HV MILEAGE 50 m/l = 5 @ 7.76 JZ MILEAGE 50 m/l = 5 @ 7.76 385.00
500th Lift Pressure Land Place 900th, Circulated approx 10 BBC Cement TO PIT Thank 904	C HANDLING 562 U-/FT @ 2.48 1396.24 MILEAGE 2.55 Ton/m. 12 23.92 Ton 3289.00 DEPTH OF JOB 1122'
500th Lift Pressure Land Plan 900th, Circulated approx 10 ADL Cement TO Pit Thank 904 CHARGE TO: Berexco	 HANDLING <u>56.2 v. / F</u> @ 2.48 1396.24 MILEAGE <u>2.25 Ton/m. 10 23.92 Ton</u> <u>3289.00</u> DEPTH OF JOB <u>1122'</u> PUMP TRUCK CHARGE <u>2058.50</u> EXTRA FOOTAGE @ HV MILEAGE <u>50 m. 10 es</u> @ <u>7.76</u> <u>385.00</u> LV MILEAGE <u>50 m. 10 es</u> @ <u>4.40</u> <u>M/C</u> head <u>3 manifold</u> @ <u>27500</u> <u>M/C</u>
500th Lift Pressure Land Plan 900th, Circulated approx 10 ADL Cement TO Pit Thank 904 CHARGE TO: Berexco	 HANDLING 52.3 de 15t @ 2148 1396.24 MILEAGE 2.35 Ton 1/2 23.92 Ton 3289.00 DEPTH OF JOB 1122' PUMP TRUCK CHARGE
500th Lift Pressure Land Plan 900th Circulated approx 10 300 Cement TO Pit Thank 904 CHARGE TO: <u>Berexco</u>	 HANDLING <u>52.3 def</u> <u>0</u> <u>2,48</u> <u>1396.24</u> MILEAGE <u>2.25 Ton/mile</u> <u>23.92 Ton</u> <u>3289.00</u> DEPTH OF JOB <u>1122'</u> PUMP TRUCK CHARGE <u>2058.50</u> EXTRA FOOTAGE <u>0</u> HV MILEAGE <u>50 miles</u> <u>0 7.26</u> <u>385.00</u> LV MILEAGE <u>50 miles</u> <u>0 4.40</u> <u>N/C</u> <u>head 3-manifold</u> <u>0</u> <u>22500</u> <u>N/C</u>
500th Lift Pressure Land Place 900th Circulated approx 10 BBC Cement TO Pit Thank 904 CHARGE TO: Berexco STREET	 HANDLING 52.3 04/FT @ 2148 1396.24 MILEAGE 2.75 Ton mile 23.92 Ton 3289.00 DEPTH OF JOB 1122' PUMP TRUCK CHARGE 2058.50 EXTRA FOOTAGE @ HV MILEAGE 50 miles @ 7.76 385700 LV MILEAGE 50 miles @ 4.40 M/C head 3-manifold @ 275700 M/C TOTAL 7138.74
500th Lift Pressure Land Plane 900th. Circulated approx 10 300 Cement TO Pit Thank 904 CHARGE TO: <u>Berexco</u> STREET	 HANDLING <u>56.2 v./ [st]</u> @ 2.48 1396.24 MILEAGE <u>2.55 Ton/m./12 23.92 Ton</u> <u>3289.00</u> DEPTH OF JOB <u>1122'</u> PUMP TRUCK CHARGE <u>2058.50</u> EXTRA FOOTAGE <u>@</u> HV MILEAGE <u>50 m./2 = 5</u> @ <u>7.26</u> <u>385700</u> LV MILEAGE <u>50 m./2 = 5</u> @ <u>47.40</u> <u>M/C</u> <u>head 3-manifold</u> @ <u>225700</u> <u>M/C</u> <u>manifold</u> <u>0</u> <u>225700</u> <u>M/C</u> <u>DISCOUNT 10 % 34/2/.7</u>
500th Lift Pressure Land Plan 900th, Circulated approx 10300 Cement TO Pit Thank 904 CHARGE TO: <u>Berexco</u>	C HANDLING <u>52.3</u> $\frac{1}{2} \frac{1}{2} $
500 ⁴ Lift Pressure Land Place 900 ⁴ Circulated approx 10 300 Cement TO Pit Thank 904 CHARGE TO: <u>Berexco</u> STREET CITYSTATEZIP	C HANDLING <u>562 24/57</u> @ 2148 1396.24 MILEAGE <u>2.35 Ton/m. 10</u> 23.92 Ton <u>3289.00</u> DEPTH OF JOB <u>1122'</u> PUMP TRUCK CHARGE <u>2058.50</u> EXTRA FOOTAGE @ HV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> LV MILEAGE <u>50 m. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> M/C <u>10 M. 16 = 50 M. 16 = 5</u> @ <u>7.26</u> <u>385.00</u> <u>10 M. 16 = 50 M. 16 M. 16 M. 16 M. 16 M. 16 M. 17 M. 16 M. 16 M. 16 M. 17 M. 16 M. 17 M. 17 M. 16 M. 17 M</u>
500th Lift Pressure Land Plan 900th, Circulated approx 10300 Cement TO Pit Thank 904 CHARGE TO: <u>Berexco</u>	C HANDLING <u>52.2</u> $\frac{1392.24}{1392.24}$ MILEAGE <u>2.35</u> <u>75.7</u> $\frac{122}{122}$ DEPTH OF JOB <u>1122</u> PUMP TRUCK CHARGE <u>2058.50</u> EXTRA FOOTAGE <u>0</u> HV MILEAGE <u>50 miles</u> <u>0</u> <u>7.26</u> <u>385700</u> LV MILEAGE <u>50 miles</u> <u>0</u> <u>4.40</u> <u>M/C</u> <u>108.74</u> DISCOUNT <u>10</u> % <u>3431.7</u> PLUG & FLOAT EQUIPMENT <u>8'78</u>

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME SIGNATURE



s ;

· .,

CEMENTING LOG

STAGE NO.

.,**1**

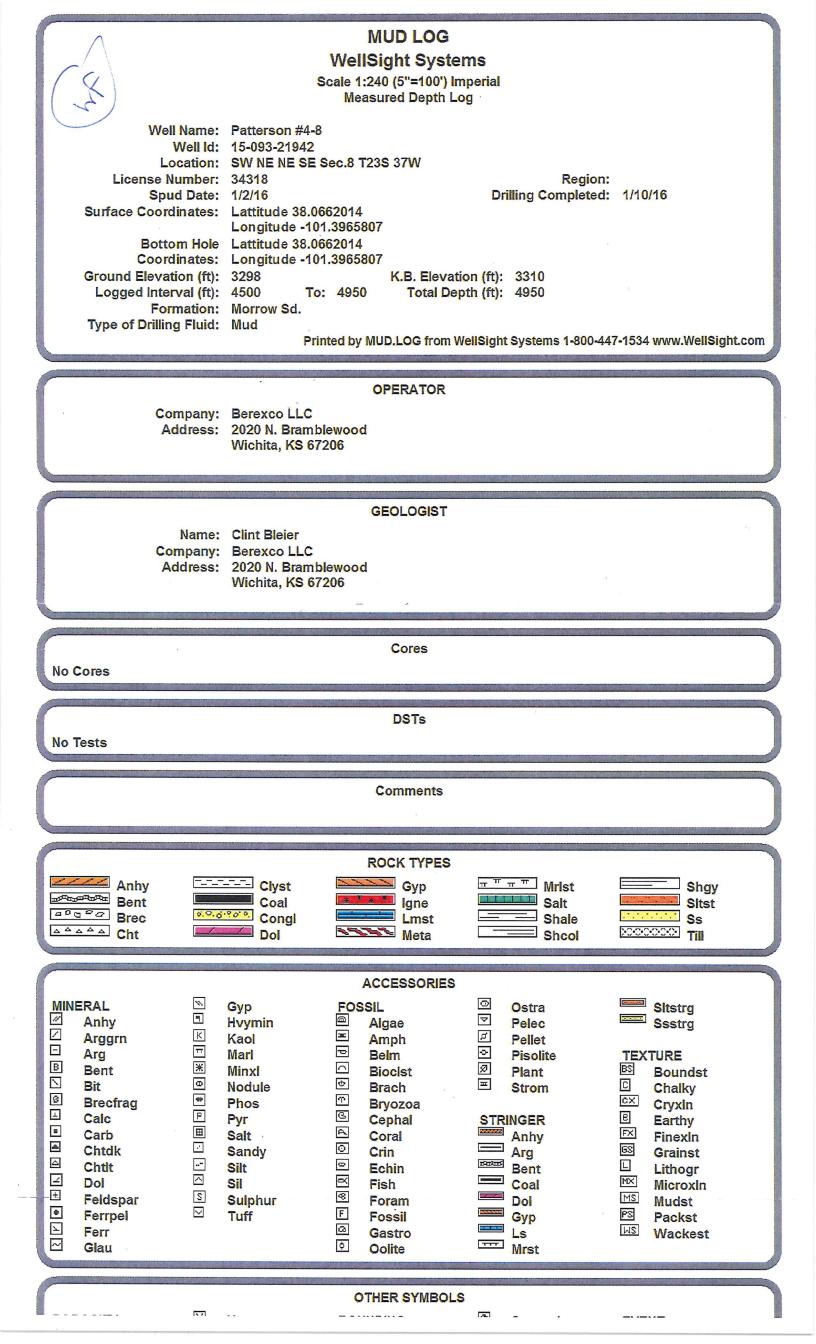
						CEMENT DATA:		
	-16 District	Ogh	<u>ey</u> . Ti	cket No. OC. 7	\$2:5	Spacer Type: _ Weiter		
	erexco		Ri	. Berede	0/ 1		ft³/sk Density	
	erron weni	59	W	/ell No. 4-8				
(rearny 8 23 37)	St	ate		-		
	IDN Cul		Fit	eld		EAD: Pump Time	hrs. Type <u>2178 3%</u>)C.C.
CASING DATA:							Excess	
CASING DATA:	had been			lqueeze 门 Mi			20 ft ³ /sk Density 12,0"7	
85/8	Sunace 12		ate LI Pro	duction 🛄 Lin	ner 🛄 🛛 🦷	AIL: Pump Time	hrs. Type <u>Com 3</u> %c	<u>.</u>
5120	iype	Weig	int	Collar			Excess	
······································							1 ft ³ /sk Density 191923	
<u> </u>	······································				······································	WATER: Lead gals/sk	Tail gals/sk Total	Bbls.
Casing Depths: 7	ton KB	· · · · · · · · · · · · · · · · · · ·	Bottom 1	122		ump Trucks Used	- <u> </u>	
Cosing Deptils, 1	iop		Bottom			ulk Equip323	······································	
						891		
Drill Pipe: Size _		Weight		Collars				
Opan Hole: Size .	12/4	T.D/	125 ft. F	P.B. to	ft. F	loat Equip: Manufacturer LUCC: +	herford	
CAPACITY FACT	ORS:					hoe: Type Guide shae	Depth _1/2	2
Casing:	Bbls/Lin. ft	0637	Lin. ft./B	ы			Depth 16 %	
Open Holes:	Bbls/Lin. ft.			bl			gs Top Btm	
Drill Pipe:	Bbls/Lin. ft.		Lin. ft./B	bl		itage Collars	-	
Annulus:	Bbls/Lin. ft		Lin. ft./B	bl		ipecial Equip		
	Bbls/Lin. ft.		Lin. ft./B	bi	E	Disp. Fluid Type Water	Amt COLL Bbls. Weight	PPG
Perforations: 1	From	ft. to		ft. Amt	N	Aud Type	Weight	PPG
COMPANY REPR	RESENTATIVE					CEMENTER Andrews		
	1							•
TIME	PRESSURE	ES PSI ANNULUS	TOTAL	ID PUMPED I	DATA RATE		REMARKS .	
AMYPM	DRILL PIPE CASING	ANNULUS	FLUID	Pumped Per Time Period	Bbls Min,			
					<u> </u>	and we had	C. J. co.	
8:30						Startmixing Li Litemixed	78	
						Start com		
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					+	LOM MIXED STOP PUMP		<u>.</u>
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9:30						Flogt held		
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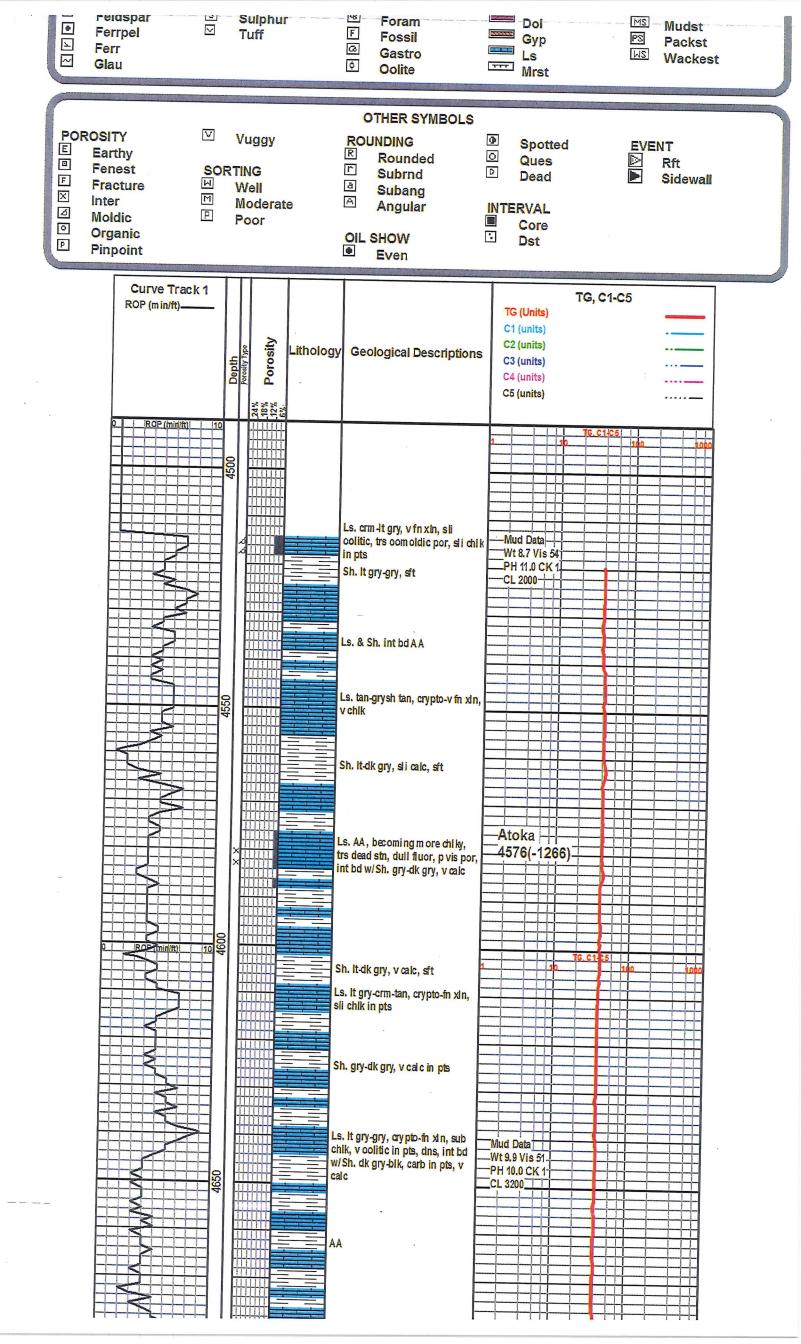
ALLIED OIL & GAS SERVICES, LLC Federal Tax 1.D. #20-5975804 067511

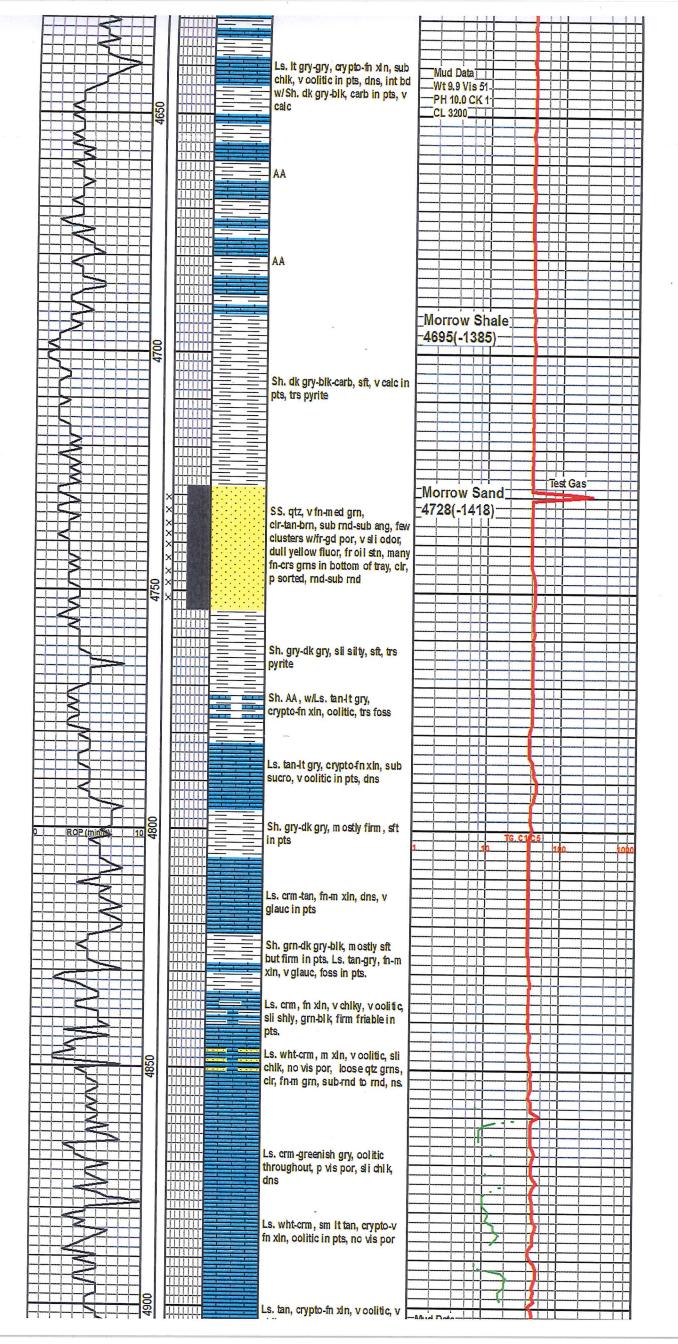
a r s	ederal Tax I.D. #20-5975804	U6/511
REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	· ,	SERVICE POINT:
DATE - 11-16 SEC. 8 TWP. 33 RANGE	37 CALLED OUT ON	LOCATION JOB START JOB FINISH 100 g.m. 4-00 g.m. 5-37 g.m.
LEASE CENT WELL# 4-8 LOCATIO	N Lakin N to Rd 250,	
OLD OR NEW (Circle one)	123 pinto	
CONTRACTOR Beredez	OWNER San	Ŷ
TYPE OF JOB Production (2 stage HOLESIZE 7/8 T.D. 199		
	250' CEMENT Koth	im- 170 sks 65135/67.ge 1,4 Fb- ED 130 sks ASC, 10% salt,
TUBING SIZE DEPTH		Lect, 5% Fluid less, 25th
DRILL PIPE DEPTH TOOL DV 1961 DEPTH		50 sts ASC
PRES. MAXMINIMUM	, COMMON	5 V SFS MIC @
MEAS. LINE SHOE JOINT	42.12' POZMIX	@
CEMENT LEFT IN CSG. 42, 17.	GEL	@
DISPLACEMENT TAL HOLLI LOD 71 834	I mod ASC	180 sks @ 13.50 4230.00
Top 74.76261 H20 EQUIPMENT	class ALite 15/35	12 5205 13 @ 19.88 11.331.60
	<u>Flo-srel</u>	143 # @ 2.99 424.71 1080 # @ 198 1658.40
PUMPTRUCK CEMENTER Land Bea	gitsonite 1 (FL-210(Shiidlos	1080 ° @ 198 105 8.40 3 86 ° @ 18,90 1635.40
# 431 HELPER Wayne Migh BULK TRUCK	ghy OF-100P (Defor	W) 46# @ 23.50 161.00
#818/315 DRIVER LON Brow	.n	@
BULKTRUCK	······································	@
#891/287 DRIVER Monty thi	lips	TOTAL 18, 831.11
REMARKS:		DISCOUNT <u>48 % 9.038.94</u>
		▲
Botom stage - /El. d. : /Amatull a	1 and full	SEDVICE
run pipe/ Host equip/ Lirophall, pu		SERVICE
hough show @ 600 ", circ, mix 120 Lite, toil w/ 130, ASC, wesh-up 1	opit release HANDLING \$70	A1 3 @ 2.48 2157.60
Through show @ 600 the pire pire 1, por through show @ 600 the circ, mix 120 Lite, toil well 130 drs ASC, wash-up 1 phug displaye well water & mod, phug did	opit release HANDLING 870 opit release MILEAGE 18:	44 3 @ 2.48 2157.60 30 ten/mi + 2.75 5032.50
Through show @ 600 in circ, mix 120 through show @ 600 in circ, mix 120 Lite, toil w/ 130 ks ASC, wesh-up 1 phug displace w/ weber + mud, phug did 1600 Lift 100, Elegt did holder Or	2 sks apit release HANDLING 870 MILEAGE 18 MILEAGE	443 @ 2.48 2157.60 30 ten/mi v 2.75 5032.50 om, Top 751, 3525
Nun pipe/ Flost equip/ Drop br. 11, pin through show @ 600 ", circ, mix 120 Lite, tail w/ 130 sks ASC, wesh-up 1 phig displace w/ water + mod, phig did 1600 ", Lift 1100 ", Elad did hold, Or opened tool @ 900; circ thirs, Top show in m. H. Mix 300ks in R. H. mix 400	2 sks apit release HANDLING 870 MILEAGE 18 MILEAGE	443 @ 2.48 2157.60 30 ten/mi v 2.75 5032.50 om, Top 751, 3525
Nen pipe/ Flost equip/ Drop by 11, por through show @ 600 circ, prix 120 Lite, tail w/ 130 dr ASC, wesh-up 1 plug displace w/ water + mod, plug did 1600 Lify 1100 Fload did bold; Dr opened tool @ 900; circ 4hrs, Top stage	2 sks apit release HANDLING 870 MILEAGE 18 MILEAGE	<u>44</u> ³ @ 2.48 2157.60 <u>70 ten/mi + 2.75 5032.50</u> om . <u>75525</u> RGE Bottom stage 2765.75 @ <u>50</u> @ 7.70 385.00
Nun pipe/ Host equip/ lippin/, pin through show @600 a circ, mix 120 Lite, toil w/ 130 drs ASC, wesh-up 1 phug displace w/ wohr & mud, phug did 1600 Lift 1100 Fload did hold, Dr opened tool 2007 circ 4hrs, Top stace in m. H. mix 30sts in R. A. mix 400 fail wel 50 stes ASL, wegin up to pit, o	2 sks apit release HANDLING \$70 mileage 182 mileage 1	<u>44</u> ³ @ <u>1.48</u> <u>1157.60</u> <u>30 ten/mi + 2.75</u> <u>5032.50</u> <u>951</u> , <u>3525</u> , RGE <u>Bottom stage</u> <u>2765,75</u> @ <u>50</u> @ <u>7.70</u> <u>385.00</u> <u>50</u> @ <u>4.40</u> <u>N/C</u>
Nen pipe / Floot equip / Diop by 11, pix through show @ 600 circ, prix 120 Lite, toil wel 130 dr ASC, wesh-up 1 phig displace wel water & mod, phug did 1600 Lift 1100 Flood did hold, Dr aponed tool @ 900, circ thrs, Top stage in m. H. Mix 300ks in R. A. mix 400 fail wel 50 sks Assl., main up to pit, C Pisplace wel water phig did land @ 500	2 sks apit release HANDLING \$70 mileage 182 mileage 1	<u>44</u> ³ @ 2.48 2157.60 <u>70 ten/mi + 2.75 5032.50</u> om <u>7525</u> RGE Bottom stage 2765.75 @ <u>50 @ 7.70 385.00</u> <u>50 @ 4.40 N/C</u> pstage @ 2406.25
Nun pipe/ Host equip/ linophy/, pin through show @ 600 a cire, mix 120 Lite, toil w/ 130 drs ASC, wesh-up 1 phys displace w/ wohr & mud, phys did 1600 , Liff 1100 , Eload did hold, Dr opened tool @ 200, cire thrs, Top stage in m. H. mix 30sts in R. A. mix 400 fail w/ 50 stes Asch, mosh up to pit, c Pisplace w/ wohr phys did land @ 200 Cement did circulate 10661 to p	2 sks apit release HANDLING \$70 mileage 182 mileage 1	<u>44</u> ³ @ <u>1.48</u> <u>1157.60</u> <u>30 ten/mi + 2.75</u> <u>5032.50</u> <u>951</u> , <u>3525</u> , RGE <u>Bottom stage</u> <u>2765,75</u> @ <u>50</u> @ <u>7.70</u> <u>385.00</u> <u>50</u> @ <u>4.40</u> <u>N/C</u>
Nun pipe/ Host equip/ Dropby 11, pie through show @ 600 circ, prix 120 Lite, tail w/ 130 sks ASC, wesh-up 4 phig displace w/ wohr & mod, phig did 1600 Liff 1100 Fload did hold, Dr eponed tool @ 900; circ 4brs, Tip stace in M. H. Mix 30sks in R. A. mix 400 tail w/ 50 sks ASL, wohr phopit, c pisplace w/ wohr phig did land @ 300 cement did circulate 10551 to p CHARGE TO: Bere xco 111c.	2 sks apit release HANDLING \$70 mileage 182 mileage 1	<u>44</u> ³ @ <u>1.48</u> <u>1157.60</u> <u>30 ten/mi + 2.75</u> <u>5032.50</u> <u>951</u> , <u>3525</u> , RGE <u>Bottom stage</u> <u>2765,75</u> <u>@</u> <u>50 @ 7.70</u> <u>385.00</u> <u>50 @ 4.40</u> <u>N/C</u> <u>50 @ 4.40</u> <u>N/C</u> <u>51 @ 275.00</u> <u>M/C</u>
Nun pipe/ Flost equip/ Diop by 11, pie through show @ 600 circ, prix 120 Lite, tail w/ 130 sks ASC, wesh-up & plug displace w/ wohr & mod, plug did 1600 Liff 1100 Fload did hold, Dr opened tool @ 900; circ 4hrs, Tip stace in M. H. Mix 30sts in R. A. mix 400 fail w/ 50 sks ASL, wosh up to pit, o Pisplace w/ wohr phy did land @ 500 cement did circulate 10661 to p CHARGE TO: Bere xco 11c.	2 sks apit release HANDLING \$70 mileage 182 mileage 1	<u>44</u> ³ @ <u>1.48</u> <u>1157.60</u> <u>30 den/mi + 2.75</u> <u>5032.50</u> <u>251</u> , <u>3525</u> , RGE Bottom stage <u>2765,75</u> @ <u>50</u> @ <u>7.70</u> <u>385.00</u> <u>50</u> @ <u>4.40</u> <u>M/C</u> <u>50 @ 4.40</u> <u>M/C</u> <u>510 @ 25.00</u> <u>M/C</u> TOTAL] <u>2</u> 747.10
Nun pipe/ Host equip/ Dropby 11, pie through show @ 600 circ, prix 120 Lite, tail w/ 130 sks ASC, wesh-up 4 phig displace w/ wohr & mod, phig did 1600 Liff 1100 Fload did hold, Dr eponed tool @ 900; circ 4brs, Tip stace in M. H. Mix 30sks in R. A. mix 400 tail w/ 50 sks ASL, wohr phopit, c pisplace w/ wohr phig did land @ 300 cement did circulate 10551 to p CHARGE TO: Bere xco 11 c.	2 sks apit release HANDLING <u>870</u> MILEAGE <u>18</u> <u>land</u> <u>B</u> MILEAGE <u>18</u> <u>rep. Nart</u> , DEPTH OF JOB <u>4</u> <u>conce</u> Zosts PUMP TRUCK CHA <u>sles Like</u> EXTRA FOOTAGE <u>chrose plug</u> ; HV MILEAGE <u>conce</u> Lifter HV MILEAGE	$\begin{array}{c} 44^{3} @ 2.48 & J157.60 \\ \hline 101 & 2.75 & 5032.50 \\ \hline 251' & 3525' \\ \hline RGE Bottom stage & 2765.75 \\ \hline @ \\ \hline & \\ \hline \hline & \\ \hline & \\ \hline \hline & \\ \hline \hline \\ \hline & \\ \hline \hline \\ \hline \\$
Nun pipe/ Host equip/ Dropby 11, pie through show @ 600 circ, prix 120 Lite, tail w/ 130 sks ASC, wesh-up 4 phig displace w/ wohr & mod, phig did 1600 Liff 1100 Fload did hold, Dr eponed tool @ 900; circ 4brs, Tip stace in M. H. Mix 30sks in R. A. mix 400 tail w/ 50 sks ASL, wohr phopit, c pisplace w/ wohr phig did land @ 300 cement did circulate 10551 to p CHARGE TO: Bere xco 11 c.	2 sks apit release HANDLING \$70 mileage 182 mileage 1	44 ³ @ 2.48 2157.60 70 ten/mi & 2.75 5032.50 251 3525 RGE Bottom stage 2765.75 @ 50 @ 7.70 385.00 50 @ 4.40 N/C 50 DISCOUNT 48% 6,118.60 G& FLOAT EQUIPMENT New Lord
Num pipe / Flost equip / Minophy //, pix through show @ 600 circe, prix 120 Lite, toil w/ 130 drs ASC, weshing I phus displace w/ wohr & mud, plug did 1600 Lift 1100 Fload did hold, Dr opened tool 2007 circe 4 hrs, Top stage in m. H. mix 30sts in R. A. mix 400 fail w/ 50 sts ASC, wohr profit, c Pisplace w/ wohr phy did land 2000 cement did circulate 10561 to p CHARGE TO: Bet exco in 11'C. STREETSTATEZI BID A Paul + C	2 sks apit release HANDLING \$70 mileage 182 mileage 1	44 ³ @ 2.48 2157.60 20 ten/mi + 2.75 5032.50 251, 3525' RGE Bottom stage 2765.75 @ 50 @ 7.70 385.00 50 @ 4.40 M/C 50 @ 4.40 M/C 50 \$4.90 M/C 50 \$4.90 M/C 12 747.10 DISCOUNT 48% 6,118.60 G& FLOAT EQUIPMENT Leather ford hoc @ \$45.00
Nun pipe/ Host equip/ Dropby 11, pie through show @ 600 circ, prix 120 Lite, tail w/ 130 sks ASC, wesh-up 4 phig displace w/ wohr & mod, phig did 1600 Liff 1100 Fload did hold, Dr eponed tool @ 900; circ 4brs, Tip stace in M. H. Mix 30sks in R. A. mix 400 tail w/ 50 sks ASL, wohr phopit, c pisplace w/ wohr phig did land @ 300 cement did circulate 10551 to p CHARGE TO: Bere xco 11 c.	2 sks apit release HANDLING \$70 MILEAGE 18: 1 land @ MILEAGE 18: 1 land @ MILEAGE 18: 1 concercises pump truck CHA sks Lite EXTRA FOOTAGE elease plug: HV MILEAGE 1 concercises plug:	44 ³ @ 2.48 2157.60 70 ten/mi & 2.75 5032.50 251 3525 RGE Bottom stage 2765.75 @ 50 @ 7.70 385.00 50 @ 4.40 N/C 50 DISCOUNT 48% 6,118.60 G& FLOAT EQUIPMENT New Lord
Non pipe / Flost equip / Hrough show @ 600 first pipe / Flost equip / Lite Lite tail w/ 130 drs ASC, weshing 4 phog displace w/ work + mod, plug did 1500 first vol work + mod, plug did 1600 first vol work + plug did 161 w/ 50 sks Acst, work + mod, plug 161 w/ 50 sks Acst, work + plug 161 w/ 50 sks Acst, work + plug 161 w/ 50 sks Acst, work + plug 162 with work + plug 163 cernent 164 circulate 165 did 165 did 164 circulate 165 did 165 did 164 circulate 165 did 165 did 165 did 165 did 166 did 167 did	$\frac{2 \text{ sks}}{2 \text{ spit release}} = \frac{1}{4 \text{ and } 0} \text{ mileage} \frac{187}{200}$ $\frac{1}{4 \text{ and } 0} \text{ mileage} \frac{187}{200}$ $\frac{1}{200} \text{ Aart}, \text{Depth OF JOB} \frac{187}{200}$ $\frac{187}{200} \text{ Pump truck CHA}$ $\frac{187}{200} \text{ Liftical} \text{ EXTRA FOOTAGE}$ $\frac{1}{200} \text{ Liftical} \text{ HV Mileage}$ $\frac{1}{100} \text{ Liftical} \text{ HV Mileage}$ $\frac{1}{100} \text{ Liftical} \text{ Truck} \frac{1}{100}$ $\frac{1}{100} \text{ Liftical} \text{ Find the truck} \frac{1}{100}$ $\frac{1}{100} \text{ Liftical} \text{ HV Mileage}$ $\frac{1}{100} \text{ Liftical} \frac{1}{100} \text{ HV Mileage}$ $\frac{1}{100} \text{ Liftical} \frac{1}{100} \text{ Liftical} $	44 ³ @ 2.48 2157.60 20 ten/mi + 2.75 5032.50 251, 3525' RGE Bottom stage 2765.75 @ 50 @ 7.70 385.00 50 @ 4.40 N/C 50 @ 4.40 N/C 12 747.10 DISCOUNT 48% 6,118.60 G& FLOAT EQUIPMENT New @ 545.00 exploy Assy@ 66.05 9 395.00 1886.05
Num pipe / Flost equip / Hrough show @ 600 for the pixe internet intern	$\frac{2 \text{ sks}}{2 \text{ op it release}}$ HANDLING $\frac{870}{100}$ MILEAGE $\frac{182}{100}$ MILEAGE $\frac{182}{100}$ $\frac{1640}{100}$ MILEAGE $\frac{182}{100}$	44 ³ @ 2.48 2157.60 10 ton/mi & 2.75 5032.50 251 3525 RGE Bottom stage 2765.75 @
Non pipe / Flost equip / Hrough show @ 600 first pipe / Flost equip / Lite Lite tail w/ 130 drs ASC, weshing 4 phog displace w/ work + mod, plug did 1500 first vol work + mod, plug did 1600 first vol work + plug did 161 w/ 50 sks Acst, work + mod, plug 161 w/ 50 sks Acst, work + plug 161 w/ 50 sks Acst, work + plug 161 w/ 50 sks Acst, work + plug 162 with work + plug 163 cernent 164 circulate 165 did 165 did 164 circulate 165 did 165 did 164 circulate 165 did 165 did 165 did 165 did 166 did 167 did	$\frac{2 \text{ sks}}{2 \text{ spit release}} = \frac{1}{4 \text{ and } \infty} = \frac{1}{4 \text{ mileage}} = \frac{1}{4 \text$	$\begin{array}{c} 44^{3} @ 2.48 & 2157.60 \\ \hline 101/mi + 2.75 & 5032.50 \\ \hline 251' & 3525' \\ \hline 251' & 3525' \\ \hline 750 & 770 & 385.00 \\ \hline 0 & 770 & 385.00 \\ \hline 0 & 770 & 385.00 \\ \hline 50 & 94.90 & N/C \\ \hline 50 & 94.90 & N/$
Num pipe / Flost equip / linep br. //, pix International Structure of the str	$\frac{2 \text{ sks}}{2 \text{ spit release}} = \frac{1}{4 \text{ and } \infty}$ $\frac{2 \text{ sks}}{2 \text{ spit release}} = \frac{1}{4 \text{ and } \infty}$ $\frac{1}{4 \text{ and } \infty}$	44 ³ @ 2.48 2157.60 10 ton/mi & 2.75 5032.50 251 3525 RGE Bottom stage 2765.75 @
<u>run pipe / Host equip / Brophall, per</u> <u>hrough show colored and provided in the start and lites</u> <u>plug displace wit water & mud, plug did</u> <u>ihoso</u> <u>Lify 1100</u> <u>Float did holde Dr</u> <u>eponed toolo 2005 circ 4hrs</u> <u>Top show</u> <u>in M. M. Mix 30sks in R. A. mix 400</u> <u>fail wit 50 sks ASC. mean up to pit c</u> <u>risplace wit water plug did last (2000)</u> <u>cement did circulate 10551 to p</u> <u>charles To:</u> <u>Bete xco</u> <u>Hic</u> . <u>STREET</u> <u>CITY</u> <u>STATE</u> <u>ZI</u> <u>BID</u> To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing ec and furnish cementer and helper(s) to assist of contractor to do work as is listed. The above done to satisfaction and supervision of owner contractor. I have read and understand the "G	$\frac{2 \text{ sks}}{2 \text{ op if release}}$ HANDLING $\frac{872}{72}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ release}}$ $\frac{1 \text{ release}}{2 \text{ release}}$ $1 $	$\begin{array}{c} 44^{3} @ 2.48 & J157.60 \\ \hline 101/mi + 2.75 & 5032.50 \\ \hline 251' & 3525' \\ \hline 750' & 3525' \\ \hline 750' & 3525' \\ \hline 770' & 385.00 \\ \hline 0 & 7.70' & 385.00 \\ \hline 0 & 7.70' & 385.00 \\ \hline 50 & 94.90' & 1/C' \\ \hline 550' & 94.90' & 1/C' \\ \hline 550' & 94.90' & 1/C' \\ \hline 550' & 94.90' & 1/C' \\ \hline 551' & 0 & 4.90' \\ \hline 550' & 0 & 4.90' \\ \hline 101' & 0 & 1/C' \\ \hline 101' & 0 & 0 \\ \hline 101' & 0 & $
<u>run pipe / Host equip / Brophall, per</u> <u>hrough show colored and provided in the start and lites</u> <u>plug displace wit water & mud, plug did</u> <u>ihoso</u> <u>Lify 1100</u> <u>Float did holde Dr</u> <u>eponed toolo 2005 circ 4hrs</u> <u>Top show</u> <u>in M. M. Mix 30sks in R. A. mix 400</u> <u>fail wit 50 sks ASC. mean up to pit c</u> <u>risplace wit water plug did last (2000)</u> <u>cement did circulate 10551 to p</u> <u>charles To:</u> <u>Bete xco</u> <u>Hic</u> . <u>STREET</u> <u>CITY</u> <u>STATE</u> <u>ZI</u> <u>BID</u> To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing ec and furnish cementer and helper(s) to assist of contractor to do work as is listed. The above y done to satisfaction and supervision of owner contractor. I have read and understand the "G	$\frac{2 \text{ sks}}{2 \text{ spit release}} = \frac{1}{4 \text{ and } \infty} = \frac{1}{4 and $	$\begin{array}{c} 44^{3} \\ @ 2.48 \\ J157.60 \\ \hline 101/mi & 2.75 \\ 5032.55 \\ \hline 101/mi & 2.75 \\ \hline 5032.55 \\ \hline 101/mi & 2.75 \\ \hline 5032.55 \\ \hline 101/mi & 3525 \\ \hline 101/mi & 355.00 \\ \hline 50 & 9/.40 \\ \hline 101/mi & 12 \\ \hline 747.10 \\ \hline 105COUNT \\ \hline 48\% \\ \hline 6.118.60 \\ \hline 15 & 57.00 \\ \hline 5335.00 \\ \hline 4 & 375.00 \\ \hline 15 & 57.00 \\ \hline 1$
<u>run pipe / Host escip / Brophall, pice</u> <u>through show Coloron</u> circe, prix 12ir <u>Lite</u> , <u>tail url 130 ks ASC</u> , wesh up 4 plug display url water + mud, plug did <u>through show water + mud</u> , plug did <u>through toolog 2005 circe thros</u> , Top stage in M. M. Mix 305ks in R. 4. mix 4000 <u>tail Lurl 50 sks 465C</u> , weith up topit, c <u>Pisplave wil wester plug did tan (0500 top</u> <u>CHARGE TO:</u> <u>Berexco</u> : <u>Hic</u> . STREET <u>CITY</u> <u>STATE</u> <u>ZI</u> <u>BID</u> To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing ec and furnish cementer and helper(s) to assist of contractor to do work as is listed. The above done to satisfaction and supervision of owner contractor. I have read and understand the "G TERMS AND CONDITIONS" listed on the re	$\frac{2 \text{ sks}}{2 \text{ op if release}}$ HANDLING $\frac{872}{72}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ op if release}}$ $\frac{1 \text{ land } \infty}{2 \text{ release}}$ $\frac{1 \text{ release}}{2 \text{ release}}$ $1 $	$\begin{array}{c} 44^{3} \\ @ 2.48 \\ J157.60 \\ \hline 100 \hline \hline 100 \\ \hline 100 \hline \hline 100 \\ \hline 1$

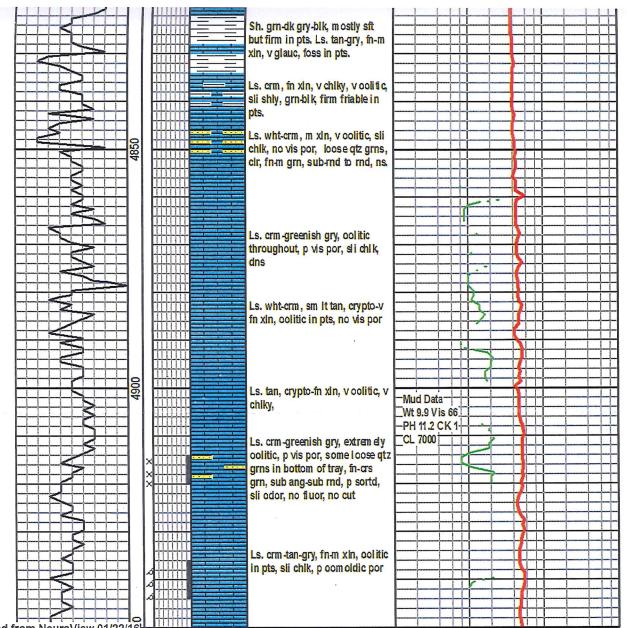
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	ALL DIL & GAS SEI	<u>IEI</u> avices, li)) c		CE	EMENTING LOG STAGE NO.
Date -	Lla Distri	. Dake	VC .	107	511	CEMENT DATA:
ALC: 12	Ler evilo			Ticket No		Spacer Type:
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Location	-23- 3'	7		ield		LEAD: Pump Time hrs. Typehrs. type
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CASING DATA:	Conductor			Squeeze Д 🛛 N	Aisc 🔲 🚙	
e-11.	Surface		diate 🗍 🔤 Pi	roduction	ner 🛛 🧜	Amt. <u>7</u> Sks Yield <u>2.0</u> , <u>1.58</u> (t ³ /sk Density <u>12, 14, 5</u> pr 2011: Pump Time hrs. Type <u>105/3.576, 115</u>
Size ler	TypeType	Wai	ight <u>25 r.</u>	<u>S</u> _Collar		Excess
						Arnt Straff Sks Yield 20, 1.58 ft ³ /sk Density 12, 14.5 PP
						WATER: Lead 12, 6, 17, 0 gals/sk Tail gals/sk Total Bb
Casing Depths: T	Ion KD	·	_ Bottom	4949		U7/
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						(ist-0
Drill Pipe: Size		Weight		Collars	<u>-</u>	
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CAPACITY FACTO	ORS:					Shoe: Type Depth Depth
Casing:	Bbls/Lin. ft&	0.276	Lin. ft./I	Bbl		Float: Type 12.0 1455 Depth
Open Holes:	Bbls/Lin. ft			Bbl		Centralizers: Quantity 15 Plugs Top DV Btm. Plug. K
Drill Pipe:	Bbls/Lin. ft		Lin. ft./U	3bl	· · · · · ·	Stage Collars DU Trool
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	Bbls/Lin. ft.					Disp. Fluid Type fa der 197 mod Amt Bbls, Weight PP
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COMPANY REPR	RESENTATIVE					CEMENTER Tau I A Cause
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TIME	PRESSUI	RES PSI	· · · · · · · · · · · · · · · · · · ·	JID PUMPED I	· · · · · · · · · · · · · · · · · · ·	PEAAA DV C
	PRESSUI DRILL PIPE CASING	RES PSI ANNULUS	FLL TOTAL FLUID	JID PUMPED Pumped Per Time Period	DATA RATE Bbls Min.	REMARKS
0		ANNULUS	TOTAL FLUID		BATE	REMARKS Hold Safety martin
0			TOTAL FLUID		BATE	Hold Safety maetin
AM (PM)	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	BATE	Hold Safety maching
0	DRILL PIPE CASING 200 ²⁴	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	Hold Safety maching Run Ripe / Ploat equip / Drophell 4005 4 Circ / hr Mix 120 sks Lite @ 12#
AM (PM)	DRILL PIPE CASING	ANNULUS	TOTAL FLUID Onn S 36 22	Pumped Per Time Period By C 36 36	RATE Bbls Min.	Hold Safety maching Run Ripe / Ploat equip / prophell 400 ³⁴ Circ / hi Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H
ам (^р м) (м) (м) (м) (м) (м) (м) (м) (м) (м) (Zeo 74	ANNULUS	TOTAL FLUID Om S 2.2 S	Pumped Per Time Period By C 36 36	Bate Bbls Min.	Hold Safety maching Run Ripe / Ploat equip / prophell 400 ³⁴ Circ / hi Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H Weshing to eit / release plug
AM (PM)	ZOO A CONTRACTOR	ANNULUS	TOTAL FLUID Ogn St 2 Z 5 40	Pumped Per Time Period Reference Solution Solution Period Solution	RATE Bbls Min.	Hold Safety machin Run Ripe / Ploat equip / prophell 400 ⁵⁴ Circ / hi Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H Weship to pit / release plug Diselace in water
ам (^р м) 	ZOO # ZOO # ZOO # ZOO # ZOO # JOO #	ANNULUS	TOTAL FLUID Om S 2.2 S	Pumped Per Time Period By C 36 36	RATE Bbls Min.	Hold Safety maching Run Ripe / Ploat equip / prophell 600 ²⁴ Circ / hr Mix 120 sks Lite @ 12 H. Mix 130 sks ASC @ 14.5 H Weship to pit / release plug Displace wit water Displace wit water
ам (^р м) 	DRILL PIPE CASING ZOO # ZOO # ZOO # JOO # JOO # JOO # JOO #	ANNULUS	TOTAL FLUID Ogn St 2 Z 5 40	Pumped Per Time Period Reference Solution Solution Period Solution	RATE Bbls Min.	Hold Safety maching Run Rips / Ploat equip / Drophell 4005 ³⁴ Circ. 1 hr Mix 120 sks Lite @ 12 th Mix 130 sks ASC. @ 19.5 th Weshing to pit / release plug Displace und water Displace und water Displace und water Displace und mud abso did land @ 1600 th , 1160 Liff th
ам (^р м) 	ZOO # ZOO # ZOO # ZOO # ZOO # JOO #	ANNULUS	TOTAL FLUID Ogn S 20 2.Z 5 40 710 710	Pumped Per Time Period BJC "36 .58 (p.3 103 1193	RATE Bbls Min.	Hold Safety maching Run Ripe / Ploat equip / prophell 600 ³⁴ Circ / hr Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H Washing to pit / release plug Displace und worker Displace und worker Displace und mid plug did faced @ 1600 th , 1160 hill H plug did faced @ 1600 th , 1160 hill H
ам (^р м) 	DRILL PIPE CASING ZOO # ZOO # ZOO # JOO # JOO # JOO # JOO # JOO #	ANNULUS	TOTAL FLUID 2011 S 2012 22 5 40 710 710 5 40 5	Pumped Per Time Period Reg. C. 	RATE Bbls Min.	Hold Safety maching Run Rips / Ploat equip / Drophill 400 ²⁴ Circ. 1 hi Mix 120 sks Lite @ 12 H. Mix 120 sks ASC. @ 14.5 H Neshing to git / pelease plug Displace and water Pisplace and water Pisplace and water Pisplace and works plug did faced @ 1600 th , 1160 Liff H BPop Dart / apened too 1 @ 2000 H- Circ 4 hrs and Top Stage
ам (^р м) 	DRILL PIPE CASING ZOO # ZOO # ZOO # JOOO # JOOO # JOOO # JUD6 # JUD6 # JUD6 # JUD6 # JUD6 # JOOO # JOOO #	ANNULUS	TOTAL FLUID 2011 S 20 2 Z 5 40 710 710 5 40 710 3	Pumped Per Time Period BJC- "36 58 63 103 103 1193	RATE Bbls Min.	Hold Safety maching Run Ripe / Ploat equip / Drophill 400 ³⁴ Circ. 1 hr Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H Washing to pit / release plug Displace on water Pisplace on water Pisplace on water Displace on much plug did fand @ 1600 ⁴ , 1160 Liff H Deop Dert apened too 1 @ POD H Circ 4 hrs - Top Stage
ам (^р м) 9:00	DRILL PIPE CASING ZOO # ZOO # ZOO # JOOO # JOOO # JOOO # JUD6 # JUD6 # JUD6 # JUD6 # JUD6 # JOOO # JOOO #	ANNULUS	TOTAL FLUID Ogn S 2 Z 2 Z 5 40 710 710 514 ga 3	Pumped Per Time Period BJC "36 58 653 103 1193 1193	RATE Bbls Min.	Hold Salety maching Run Rips / Ploat equip / Drophill 400 ⁵⁴¹ Circ. 1 hr Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H weship to pit / release plug Displace on water Pisplace on water Pisplace on water Pisplace on water Displace of water Displace of water Circ 4 hrs - 7 cp stage Mix 20 sks in M. H Mix 30 sks in R. H
ам (^р м) (м) (м) (м) (м) (м) (м) (м) (м) (м) (DRILL PIPE CASING ZOO # ZOO # ZOO # JOOO # JOOO # JOOO # JUD6 # JUD6 # JUD6 # JUD6 # JUD6 # JOOO # JOOO #	ANNULUS	TOTAL FLUD 001 S 20 2.Z 5 40 76 76 3 5 120	Pumped Per Time Period BJC "36 58 653 193 193 193 199 5 193 193 193 193 193 193 193 193	RATE Bbls Min.	Hold Salety maching Run Rips / Ploat equip / Drophill 400 ⁵⁴¹ Circ. 1 hr Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H weship to pit / release plug Displace on water Pisplace on water Pisplace on water Pisplace on water Displace of water Displace of water Circ 4 hrs - 7 cp stage Mix 20 sks in M. H Mix 30 sks in R. H
ам (^р м) 	DRILL PIPE CASING ZOO # ZOO # ZOO # JOOO # JOOO # JOOO # JUD6 # JUD6 # JUD6 # JUD6 # JUD6 # JOOO # JOOO #	ANNULUS	TOTAL FLUD Ogn S 22 5 40 76 76 76 5 40 76 5 40 76 5 40 76 5 5 120 5 5 5 5	Pumped Per Time Period BJC "36 58 653 103 1193 1193	RATE Bbls Min.	Hold Safety machin Run Rips / Ploat equip / Drophill 400 ²⁴ Circ. 1 hi Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H Weship to pit / pelease. plug Displace and worker Pisplace and worker Pisplace and worker Pisplace and worker Pisplace and worker Displace and worker Pisplace and worker Pisplace and worker Pisplace and worker Mix 20 sks in M. It Mix 30 sks in M. It Mix 30 sks Lite @ 12 ⁴¹ mix 50 sks ASC @ 14.5 H
AM (PM)	DRILL PIPE CASING ZOO # ZOO # ZOO # JOO # JOO # JOO # JOO # ZOO # JOO # ZOO #	ANNULUS	TOTAL FLUD 2001 St 22 5 40 76 76 5 40 76 5 40 76 5 120 8	Pumped Per Time Period & J.L. "3.lo .5.8" (0.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 1	RATE Bbls Min.	Hold Safety machin Run Rips / Ploat equip / Drophill 400 ³⁴ Circ. 1 hi Mix 120 sks Lite @ 12 H. Mix 120 sks ASC. @ 14.5 H Neshing to pit / pelease plug Displace and water Pisplace and water Mix 20 sks in M. H Mix 30 sks Lite @ 12 ⁴¹ mix 50 sks Lite @ 12 ⁴¹ mix 50 sks Lite @ 12 ⁴¹ mix 50 sks M.SC @ 14.5 ⁴¹ isash-up / release plug
ам (^р м) 9:00	DRILL PIPE CASING ZOO # ZOO # ZOO # JOO # JOO # JOO # JOO # ZOO # JOO # ZOO #	ANNULUS	TOTAL FLUD Ogn S 22 5 40 76 76 76 5 40 76 5 40 76 5 40 76 5 5 120 5 5 5 5	Pumped Per Time Period RfL 	RATE Bbls Min.	Hold Safety machin Run Rips / Ploat equip / Drophill 400 ³⁴ Circ. 1 hi Mix 120 sks Lite @ 12 H. Mix 120 sks ASC. @ 14.5 H Neshing to pit / pelease plug Displace and water Pisplace and water Mix 20 sks in M. H Mix 30 sks Lite @ 12 ⁴¹ mix 50 sks Lite @ 12 ⁴¹ mix 50 sks Lite @ 12 ⁴¹ mix 50 sks M.SC @ 14.5 ⁴¹ isash-up / release plug
AM (PM)	DRILL PIPE CASING ZOO # ZOO # ZOO # JOOO JOOO JOOO JOOO ZOO # JOOO ZOO # ZOO # ZOO # ZOO # ZOO # ZOO # ZOO # ZOO #	ANNULUS	TOTAL FLUD Ogn S 22 5 40 76 76 76 5 40 76 5 40 76 5 40 76 5 5 120 5 5 5 5	Pumped Per Time Period & J.L. "3.lo .5.8" (0.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 1	RATE Bbls Min.	Hold Safety marking Run Ripe / Ploat equip / Drophell 600 ³⁴ Cive / hr Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H washing to pit / release plug Displace wit water Pisplace wit water Pisplace wit water Displace wit water Displace wit water Displace wit water Mix 20 sks in M. H Mix 30 sks in K. H Mix 30 sks in K. H mix 400 sks Lite @ 12 H mix 400 sks Lite @ 12 H mix 50 sks ASC @ 14,5 H isashing / release plug Displace and place plug
AM (PM)	DRILL PIPE CASING ZOO # ZOO # ZOO # JOO # JOO # JOO # JOO # ZOO # JOO # ZOO #	ANNULUS	TOTAL FLUD Ogn S 22 5 40 76 76 76 5 40 76 5 40 76 5 40 76 5 5 120 5 5 5 5	Pumped Per Time Period & J.L. "3.lo .5.8" (0.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 1	RATE Bbls Min.	Hold Safety marking Run Ripe / Ploat equip / Drophell 600 ³⁴ Cive / hr Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H washing to pit / release plug Displace wit water Pisplace wit water Pisplace wit water Displace wit water Displace wit water Displace wit water Mix 20 sks in M. H Mix 30 sks in K. H Mix 30 sks in K. H mix 400 sks Lite @ 12 H mix 400 sks Lite @ 12 H mix 50 sks ASC @ 14,5 H isashing / release plug Displace and place plug
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AM (PM)	DRILL PIPE CASING ZOO # ZOO # ZOO # JOO # JOO # JOO # JOO # ZOO # JOO # ZOO #	ANNULUS	TOTAL FLUD Ogn S 22 22 5 40 76 76 76 5 40 76 5 40 76 5 40 76 5 5 120 5 5 5 5 5 5	Pumped Per Time Period & J.L. "3.lo .5.8" (0.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 1	RATE Bbls Min.	Hold Safety marking Run Ripe / Ploat equip / Drophell 600 ³⁴ Cive / hr Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H washing to pit / release plug Displace wit water Pisplace wit water Pisplace wit water Displace wit water Displace wit water Displace wit water Mix 20 sks in M. H Mix 30 sks in K. H Mix 30 sks in K. H mix 400 sks Lite @ 12 H mix 400 sks Lite @ 12 H mix 50 sks ASC @ 14,5 H isashing / release plug Displace and place plug
AM (PM)	DRILL PIPE CASING ZOO # ZOO # ZOO # JOO # JOO # JOO # JOO # ZOO # JOO # ZOO #	ANNULUS	TOTAL FLUD Ogn S 22 22 5 40 76 76 76 5 40 76 5 40 76 5 40 76 5 5 120 5 5 5 5 5 5	Pumped Per Time Period & J.L. "3.lo .5.8" (0.3 10.3 10.3 10.3 10.3 10.3 10.3 10.3 1	RATE Bbls Min.	Hold Safety marking Run Ripe / Ploat equip / Drophell 600 ³⁴ Cive / hr Mix 120 sks Lite @ 12 H. Mix 130 sks ASC. @ 14.5 H washing to pit / release plug Displace wit water Pisplace wit water Pisplace wit water Displace wit water Displace wit water Displace wit water Mix 20 sks in M. H Mix 30 sks in K. H Mix 30 sks in K. H mix 400 sks Lite @ 12 H mix 400 sks Lite @ 12 H mix 50 sks ASC @ 14,5 H isashing / release plug Displace and place plug
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