KOLAR Document ID: 1584117

Confidentiality Requested:

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 WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from North / South Line of Section
City:	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxxx)
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	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No
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	Duilling Fluid Management Plan
☐ Plug Back ☐ Liner ☐ Conv. to GSW ☐ Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls
☐ Commingled Permit #: ☐ Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Essential of fluid disposal if fluided offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
Recompletion Date Recompletion Date	Countv: 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 Approved by: Date:

KOLAR Document ID: 1584117

Page Two

Operator Name: _				Lease Name:			Well #:		
Sec Twp.	S. R.	Ea	ast West	County:					
	flowing and shu	ıt-in pressures, w	hether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,	
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.go\	. Digital electronic log	
Drill Stem Tests Ta			Yes No		_	on (Top), Depth ar		Sample	
Samples Sent to G	Geological Surv	ey	Yes No	Na	me		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No						
		R			New Used	on, etc.			
Purpose of Strir		Hole	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING / S	QUEEZE RECORD	I			
Purpose:		epth Ty	pe of Cement	# Sacks Used	# Sacks Used Type and Percent Additives				
Protect Casi									
Plug Off Zon									
 Did you perform a Does the volume o Was the hydraulic 	of the total base f	luid of the hydraulic	fracturing treatment	_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three (,	
Date of first Producti Injection:	ion/Injection or Re	esumed Production	/ Producing Meth	nod:	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity	
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			N INTERVAL: Bottom	
	_	on Lease	Open Hole			mmingled mit ACO-4)	Тор	Bottom	
,	, Submit ACO-18.)				· · · · · · · · · · · · · · · · · · ·				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record	
TUBING RECORD:	Size:	Set /	At:	Packer At:					
. 5213 (1200) 10.	JIEG.			. 30.0.71					

Form	ACO1 - Well Completion				
Operator	TDI, Inc.				
Well Name	MUNSCH 12				
Doc ID	1584117				

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	20	214	80/20 Pos		3% cc, 2% gel
Production	7.875	5.5	14	3745	EA-2	150	None

OPERATOR

Company: TDI, INC

Address: 1310 BISON ROAD

HAYS, KANSAS 67601-9696

Contact Geologist: TOM DENNING Contact Phone Nbr: 785-628-2593 Well Name: MUNSCH # 12

Location: NE NE SW SE, SEC,9-T15S-R18W

API: 15-051-26,996-00-00

Pool: IN FIELD Field: SCHOENCHEN

State: KANSAS Country: USA



Scale 1:240 Imperial

Well Name: MUNSCH # 12

Surface Location: NE NE SW SE, SEC,9-T15S-R18W

Bottom Location:

API: 15-051-26,996-00-00

License Number: 4787 Spud Date: 6/18/2021 Time: 12:00 AM

Region: ELLIS COUNTY

Drilling Completed: 6/23/2021 Time: 4:17 AM

Surface Coordinates: 1180' FSL & 1380' FEL

Bottom Hole Coordinates:

Ground Elevation: 2033.00ft K.B. Elevation: 2043.00ft

Logged Interval: 2900.00ft To: 3750.00ft

Total Depth: 3750.00ft Formation: ARBUCKLE

Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.3238434
Latitude: 38.7582057
N/S Co-ord: 1180' FSL
E/W Co-ord: 1380' FEL

LOGGED BY



Company: SOLUTIONS CONSULTING, INC.

Address: 108 W 35TH

HAYS, KS 67601

Phone Nbr: (785) 639-1337

Logged By: GEOLOGIST Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING INC.

Rig #: 1

Rig Type: MUD ROTARY

Spud Date: 6/18/2021 Time: 12:00 AM TD Date: 6/23/2021 Time: 4:17 AM Rig Release: 6/23/2021 Time: 11:30 PM

ELEVATIONS

K.B. Elevation: 2043.00ft Ground Elevation: 2033.00ft

K.B. to Ground: 10.00ft

NOTES

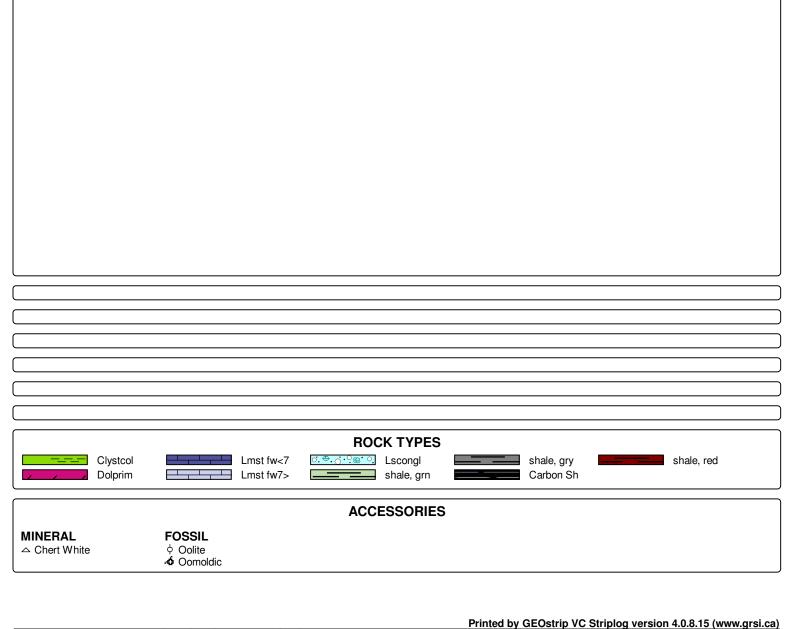
RECOMMENDATION TO RUN PRODUCTION CASING BASED ON LOG ANALYSIS AND HIGH STRUCTURAL POSITION OF LKC AND ARBUCKLE.

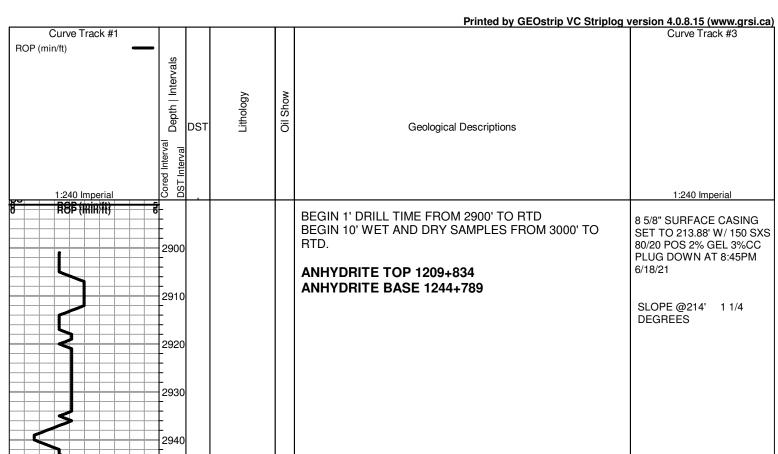
OPEN HOLE LOGGING BY MIDWEST WIRELINE: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG.

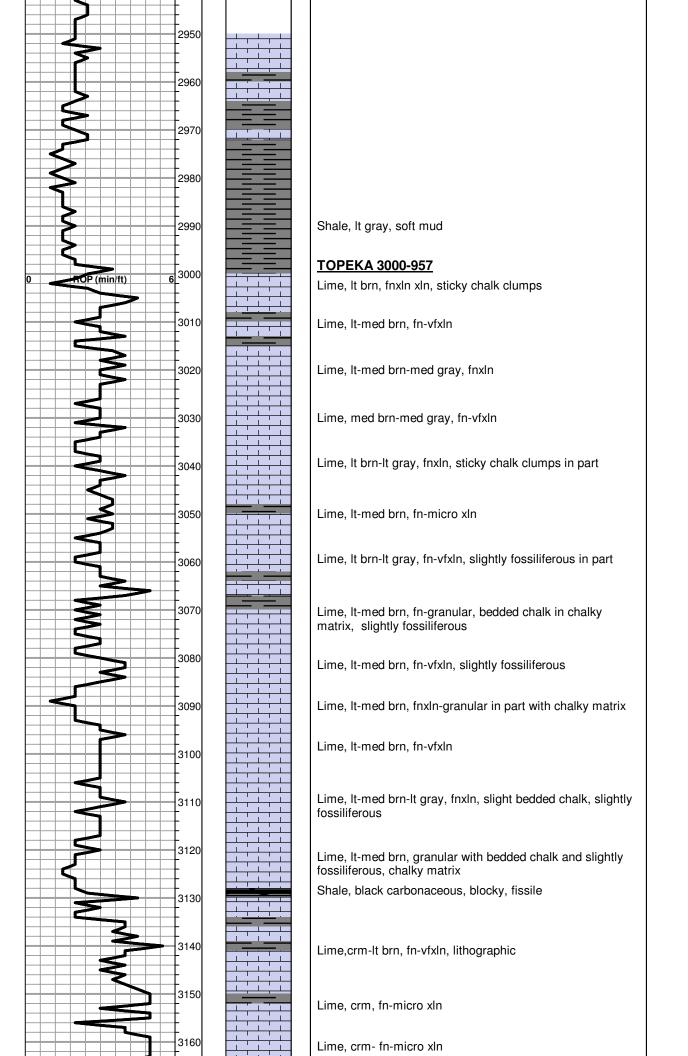
NO DRILL STEM TESTS WERE RAN ON THIS WELL.

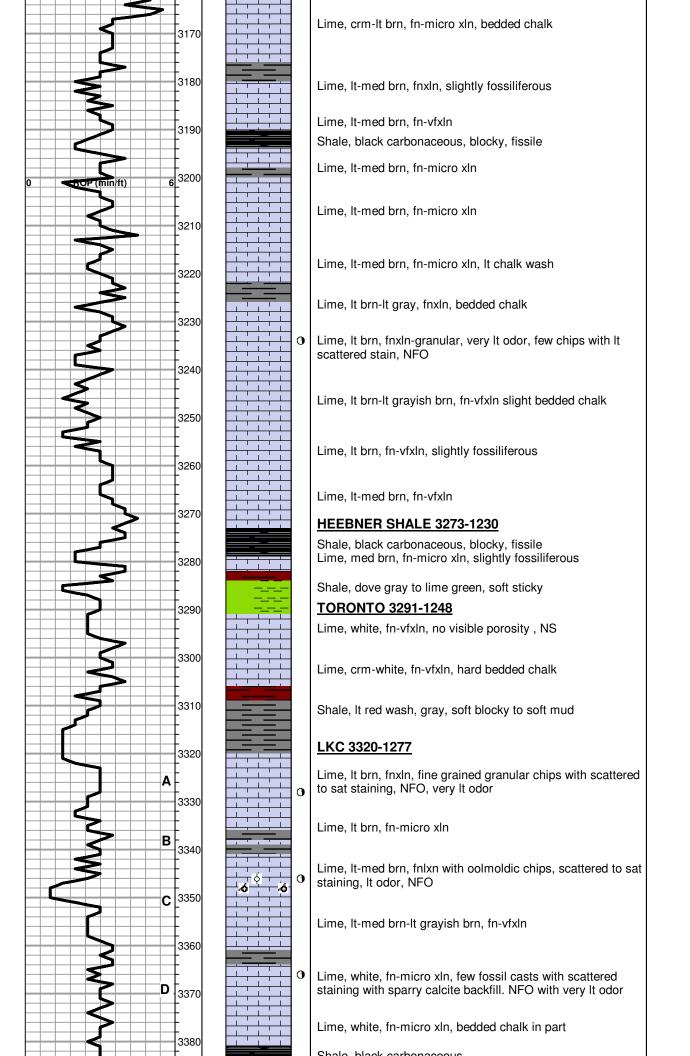
WELL COMPARISON TABLE

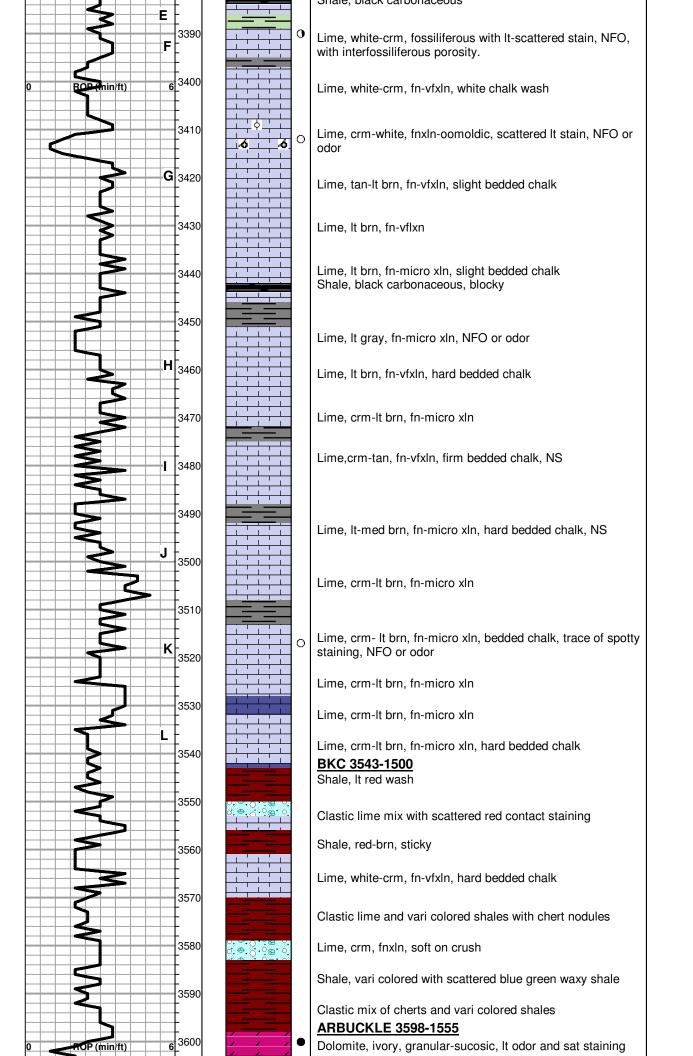
	MUNSCH # 12	MUNSCH # 7	MUNSCH # 10				
	NE NE SW SE	NW NE SE SE	NW SW NE SE				
	SEC.9-15S-18W	SEC. 9-15S-18W	SEC.9-15S-18W				
	KB 2043'	KB 2039'	KB 2039'				
	LOG TOPS						
Anhydrite-top	1209 +834	+831	+834				
Anhydrite-bas	se 1244 +799	+795	+797				
Topeka	3000 - 957	- 957	- 956				
Heebner Shal	e 3273-1230	-1236	-1236				
Toronto	3291-1248	-1255	-1254				
LKC	3320-1277	-1281	-1282				
BKC	3543-1500	-1505	-1506				
Arbuckle	3598-1555	-1566	-1619				
RTD	3750-1707	-1711	-1711				
6-18-21	Spud 3:15 PM. Set 8 5/8" su	ırface casing to 213.88	" w 150 sks 80/20 pos 3%CC				
	2%gel, plug down 8:45 PM, s	slope 1 1/4 degree @2	14'. WOC 8 hours				
6-19-21	393', drill plug at 4:45AM wi	th PDC bit					
6-20-21	2096', drilling, bit trip to run conventional button bit						
6-21-21	2762', drilling, displaced 2793-2825						
6-22-21	3299', drilling						
6-23-21	3750', drilling, RTD 3750' at	4:17AM, CCH, short tr	ip, TOWB, logs, LDDP, run				
	production casing and ceme						
	- -0	20 ES 0000	permoy				

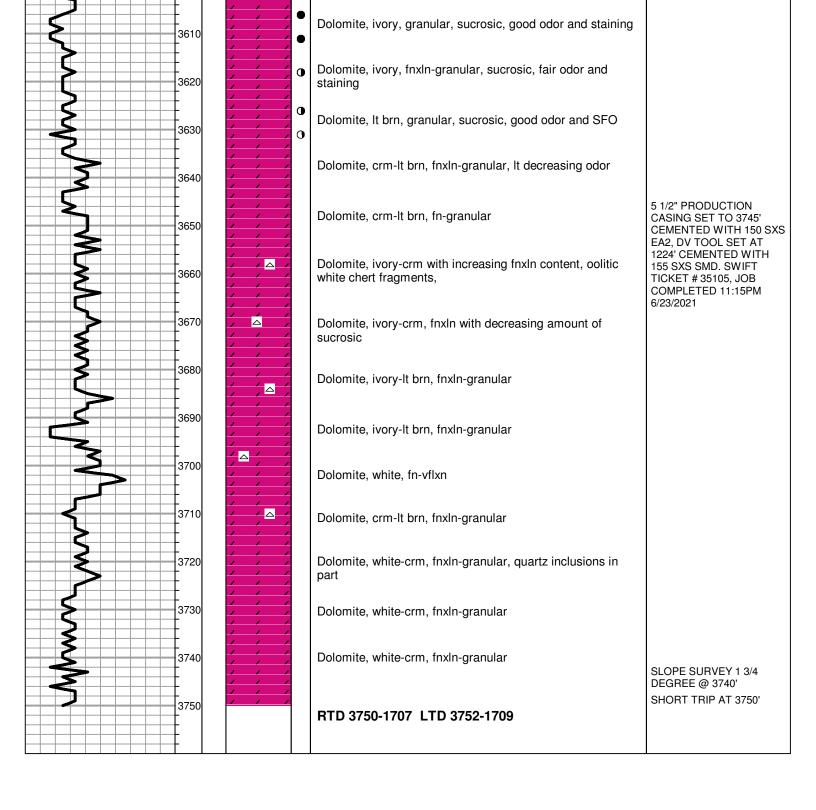












QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

Phone 785-483-1071 Cell 785-324-1041 Home Office P.O. Box 32 Russell, KS 67665 No. 2272

Sec. 9	Twp.	Range	E	County	State Kansas	On Location	Finish 4:45 am		
Date 6/18/21 7	175	10	-/	115		736.01	Weak Al		
Contractor South wind Willing Well No. 12			Owner 14 W Ninto To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish						
Type Job Surface	—	0 (Charge	d helper to assist own	er or contractor to	do work as listed.		
Hole Size 12/4	T.D.	215		To	1 DL	taget yns nedead Am to ens sin o	1 TaphUla- I phinished yaw the		
Csg. 8 5/8	Depth	2/3-88	<i>y</i>	Street		and altomoy's fore	es mus eldenosas		
Tbg. Size	Depth	elubertos		City	ar ne neiat eathner	State	JAA SAURES AND Department of the control		
Tool	Depth	,			as done to satisfaction an				
Cement Left in Csg. 15	Shoe J	oint 15		Cement Amo	ount Ordered 150	3/20 3/6 C	c 2/09el		
Meas Line	Displac	e 12,6		The same saw	en case in community	esusond os de of	TOTAL STREET		
	PMENT	d to	the state of	Common /	20	erit most so at leo	o Irremques prillus		
Pumptrk / Helper L	avid			Poz. Mix	3,0	UU YU DISQ MIS W	National Control of the Control of t		
Bulktrk / 4 No. Driver Do	ug	La company		Gel. 3	AER wa parte ar	material QUSTON	14 Marke nothilas Tha		
Bulktrk No. Driver Driver				Calcium 6	s otherwise in	sonU.adDHANQ	UAFIUANG -		
JOB SERVICE	S & REMA	RKS		Hulls	ABIL MCS	LOWA SKOTTCH	D BOIVAGE		
Remarks:	na vol elde	g-ed ton la		Salt	il i i i i i i i i i i i i i i i i i i	tanco niverella bri	s many uncertain a		
Rat Hole	Marie 1998 Libraryou	derive o		Flowseal		LIAUG arrimadh	idni bala , bnatab wiir		
Mouse Hole				Kol-Seal					
Centralizers	abusin in	DETECT OF ENGLISH		Mud CLR 48					
Baskets	s spar Al	to at		CFL-117 or CD110 CAF 38					
D/V or Port Collar		ERTOR I		Sand					
no-galmeitog neda kare				Handling /	59	Mary Is to see	habeer flKW IS		
Ray 83/9 ans	d est	-Circul	ation						
Cemented				25	FLOAT EQUIPME	NT	NUMBER STREET		
				Guide Shoe					
				Centralizer					
-marritiow bas latestam ni alge-	leb men -			Baskets	alegy even actions in	sinarew YTLIAU	I I PER MARIENA		
Control (Silver) And Control				AFU Inserts	in the second of				
ABA 199AS IT SI W D A A -				Float Shoe	1 8 8 7 4	1 - 1 -	TUADELyd benin		
Seed on the state of the state of				Latch Down					
Jahraunsenso vaa 10 s	d ten lied:			Later Bown		o loseent frameos	ides to singes sell ed		
	100		157				O Helmitikan incert		
Cement	Did	Circu	640	Pumptrk Cha	arge Cur	Face	i e gnirtloH (A)		
Cerver	210-		15/6	Mileage /	5/m/m1		II is continued (C)		
-EJAUO vd s/~anoidsbnami	ngosa to	Salasian ner		, and the second	(111111)	Tax	C SALLI V or ac		
truk D. A.	Down	manda en la companya de la companya			and we have a larger at the	Discoun	t State of the sta		
X Signature						Total Charge			
Signature	- Face			J			ALEMAN FEUN BRUIK		

OB LOG				SWIFE	ervices. Inc. DATE L-Z3-Z1 PAGE
USTOMER T	ne	WELL NO.		LEASE	JOB TYPE TICKET NO.
CHART TIME	F RATE	VOLUME	PUMPS	PRESSURE (P	DESCRIPTION OF OPERATION AND MATERIALS
NO.	(BPM)	(BBL) (GAL)	TC	TUBING CA	ING
183	0				ON LOCATION
					5/2 × 14 #
					RTO - 3750
					Shore @ 3745
					DV. 780L- # 6 @ 1224
					CENTRALIZERS-1,3,5,7,9,91,1
					14, 16, 58 BASKETS - 4, 59
					545KeTs - 4, 59
190	0				CTRAT PUNCTO COS
210					Break Circ on Botton
	5.5	12		300	pump mys Flust
	5.5	20		300	PUMP KCL SPACER
	5	36		300	pump CMT- 150 SX EA-20 15.
					Drop plug - WASH P+L
	6.5	0		200	START DISP
223	36 6.5	91		700	LAND Plug e 1500 psi
	2.5	8		0	plug rat hole - 30 sx
	2.5	4		0	plug Mouse hole- 15 sx
					plug mouse hole- 15 sx open D.V. TOOL @ 900 psi
	6.5	0		300	START CMT - 155 SX SMDe 11.
	5.5	85		300	END CMT
					Drop plug
	6.5	0		200	START DISO
230	05 6.5	30		400	LAND plug C 1800 psi
					Kelease ps, - Dry
					Circ 30 sx cmr topit
					JoB Complete
					Thanks
					DAVID, ZACH & Isage
					The state of the s