KOLAR Document ID: 1500412

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:	SecTwpS. R		
Address 2:	Feet from North / South Line of Section		
City: State: Zip: +	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.xxxxx)		
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?		
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)		
Described	Chloride content: ppm Fluid volume: bbls		
☐ Commingled Permit #:	Dewatering method used:		
SWD Permit #:	Location of fluid disposal if hauled offsite:		
EOR Permit #:	Location of fluid disposal if flauled 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	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 Approved by: Date:				

KOLAR Document ID: 1500412

Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether 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.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	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					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	pe and Percent Additives	
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	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:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
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	Δ+-	Packer At:				
TODING RECORD:	. 3126.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	SAVANNAH 1
Doc ID	1500412

All Electric Logs Run

CNL/CDL w/ PE
DUAL INDUCTION
MICRO
SONIC

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	SAVANNAH 1
Doc ID	1500412

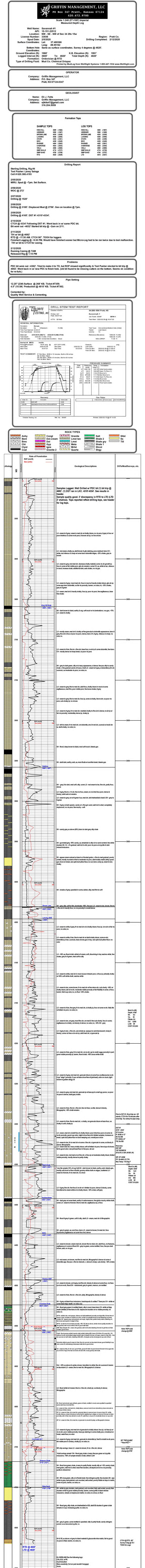
Tops

Name	Тор	Datum
KING HILL	3658	-1667
HEEBNER	3860	-1869
BROWN LIME	4030	-2039
LANSING	4046	-2055
STARK	4350	-2359
B/KC	4436	-2445
PAWNEE	4492	-2501
CHEROKEE	4526	-2535
VIOLA	4560	-2569
SIMPSON SHALE	4716	-2725
SIMP SAND	4748	-2757

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
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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	23	268	COMMON	225	2% Gel 3% CC 1/2 LB Pheno- Seal
Production	7.875	4.5	11.6	4810	Pro C	150	"Griffin Blend"
Production	7.875	4.5	10.5	4810	Pro C	150	"Griffin Blend





DRILL STEM TEST REPORT

Charles N Griffin

PO Box 347

34-29S-15W Pratt, KS

DST#: 1

Savannah 1

Pratt, KS 67124 Job Ticket: 65487

ATTN: Bi Felts Test Start: 2020.02.09 @ 19:47:00

GENERAL INFORMATION:

Formation: Swope

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) No ft (KB)

Time Tool Opened: 22:02:47 Tester: Leal Cason Time Test Ended: 03:23:02 Unit No: 74

4310.00 ft (KB) To 4334.00 ft (KB) (TVD) Reference Elevations: Interval:

1993.00 ft (KB)

Total Depth: 4334.00 ft (KB) (TVD) 1982.00 ft (CF)

7.88 inches Hole Condition: Good KB to GR/CF: Hole Diameter: 11.00 ft

Serial #: 8672 Inside

Press@RunDepth: 4311.00 ft (KB) Capacity: 76.97 psig @ psig

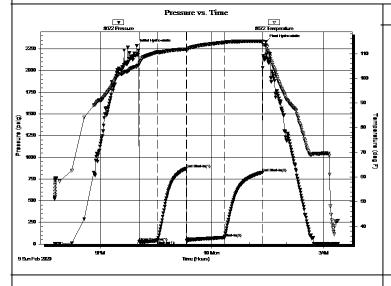
Start Date: 2020.02.09 End Date: 2020.02.10 Last Calib.: 2020.02.10 Start Time: 19:47:01 End Time: 03:23:02 Time On Btm: 2020.02.09 @ 21:58:47 Time Off Btm: 2020.02.10 @ 01:27:02

TEST COMMENT: IF: Fair Blow, BOB in 12 minutes, Built to 38 inches

ISI: No Blow Back

FF: Fair Blow, BOB in 5 minutes, Built to 63 inches

FSI: No Blow Back



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2281.29	104.76	Initial Hydro-static
4	29.31	105.96	Open To Flow (1)
34	39.51	110.61	Shut-In(1)
80	870.86	111.75	End Shut-In(1)
81	36.67	111.63	Open To Flow (2)
142	76.97	114.53	Shut-In(2)
203	824.89	114.99	End Shut-In(2)
209	2332.39	113.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	825 GIP	0.00
120.00	SGOMCW 5%G 5%O 30%M 60%W	0.59

Gas Rates

Choke	(inches) Pressure	(psig) Gas F	Rate (MMcf/d)
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Trilobite Testing, Inc. Ref. No: 65487 Printed: 2020.02.10 @ 07:14:33



DRILL STEM TEST REPORT

Charles N Griffin

34-29S-15W Pratt, KS

PO Box 347 Pratt, KS 67124 Savannah 1

Job Ticket: 65487

DST#: 1

ATTN: Bi Felts

Test Start: 2020.02.09 @ 19:47:00

GENERAL INFORMATION:

Formation: Swope

Time Tool Opened: 22:02:47

Time Test Ended: 03:23:02

Deviated: Whipstock: No ft (KB)

Tester: Leal Cason

Test Type: Conventional Bottom Hole (Initial)

Unit No: 74

1993.00 ft (KB)

4310.00 ft (KB) To 4334.00 ft (KB) (TVD) 4334.00 ft (KB) (TVD)

Reference Elevations:

1982.00 ft (CF)

Total Depth: 7.88 inches Hole Condition: Good Hole Diameter:

KB to GR/CF: 11.00 ft

Serial #: 6751 Press@RunDepth: Outside

4311.00 ft (KB) psig @

2020.02.10

Capacity: Last Calib.: psig

Start Date: 2020.02.09 End Date:

03:23:02

Time On Btm:

2020.02.10

Start Time:

Interval:

19:47:01

End Time:

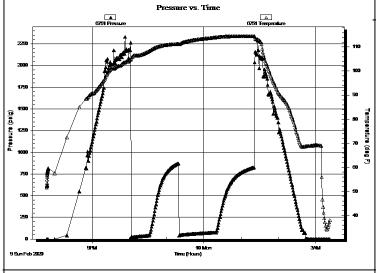
Time Off Btm:

TEST COMMENT: IF: Fair Blow, BOB in 12 minutes, Built to 38 inches

ISI: No Blow Back

FF: Fair Blow, BOB in 5 minutes, Built to 63 inches

FSI: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
(101111.)	(psig)	(deg r)	

Recovery

Length (ft)	Description	Volume (bbl)
0.00	825 GIP	0.00
120.00	SGOMCW 5%G 5%O 30%M 60%W	0.59
-		-

Gas Rates

Choke (inches) Pressure (psig) Gas Rate (MMcf/d)

Trilobite Testing, Inc. Ref. No: 65487 Printed: 2020.02.10 @ 07:14:33



DRILL STEM TEST REPORT

FLUID SUMMARY

Charles N Griffin 34-29S-15W Pratt, KS

PO Box 347 Pratt, KS 67124

ATTN: Eli Felts

Savannah 1

Job Ticket: 65487 **DST#:1**

Test Start: 2020.02.09 @ 19:47:00

Mud and Cushion Information

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity: 68000 ppm

Viscosity: 52.00 sec/qt Cushion Volume: bbl

Water Loss: 8.79 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 5000.00 ppm Filter Cake: 0.02 inches

Recovery Information

Recovery Table

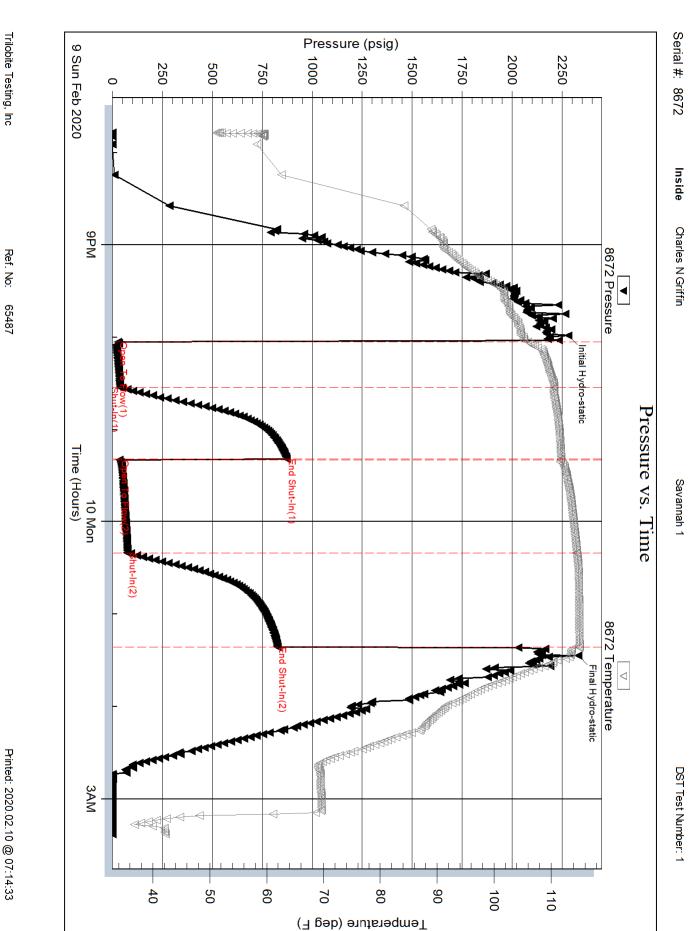
Length ft	Description	Volume bbl	
0.00	825 GIP	0.000	
120.00	SGOMCW 5%G 5%O 30%M 60%W	0.590	

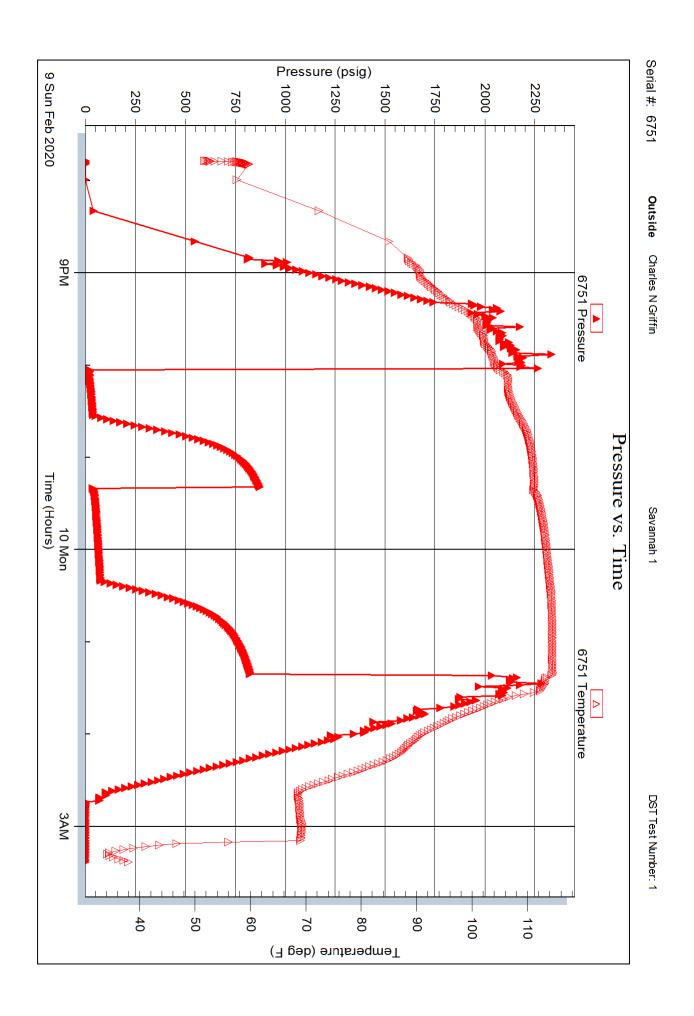
Total Length: 120.00 ft Total Volume: 0.590 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location: Recovery Comments: RW w as .26 @ 33 degrees

Trilobite Testing, Inc Ref. No: 65487 Printed: 2020.02.10 @ 07:14:33





Trilobite Testing, Inc

Ref. No: 65487

Printed: 2020.02.10 @ 07:14:33

QUALITY WELL SERVICE, INC. Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410 Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

Sec.	Twp.	Range		County	State	On Location	Finish		
Date 2-6-20 34	295	15W		977°	Ks.				
	/ell No. [‡]	1000	Location			1014 Rd 2.2	E +0		
Contractor STERLING	011110.		Locati			S E into			
Type Job SURFACE				To Quality W	ell Service, Inc.				
Hole Size 12//4	T.D.	272'		You are here cementer an	by requested to rent d helper to assist own	cementing equipmen her or contractor to do	t and furnish work as listed.		
0-10 774	Depth	263'		Observe	Geiffin				
Tbg. Size									
Tool	Depth			City	City State				
Cement Left in Csg.	Shoe Jo	pint 25			s done to satisfaction ar		agent or contractor.		
Meas Line	Displace				ount Ordered 223				
EQUIPM	MENT			21/6=1	3% CC 1/2	# PS			
Pumptrk & No.				Common	220	×			
Bulktrk 15 No.				Poz. Mix					
Bulktrk No.				Gel. 423) 				
Pickup No.				Calcium 6	34.54				
JOB SERVICES	& REMA	RKS		Hulls					
Rat Hole				Salt		f -			
Mouse Hole				Flowseal 1(2.5 [#]					
Centralizers				Kol-Seal					
Baskets				Mud CLR 48					
D/V or Port Collar				CFL-117 or CD110 CAF 38					
RUN 6 H'S 85/8 Z3	4 CSG	SETO 26	2,'	Sand					
START CSG CSG ON E	30++01	n		Handling 242					
Hook up to CSG & BR.	EARC	iec whice	7	Mileage 25 / 6050					
START PompinG HZ	2	`		35/8 FLOAT EQUIPMENT					
START MILL RMP		SK Commo	N	Guide-Shoe HEAD & MONIFOLD I EA					
Z:/. GEL 31/. CL 1/2 "PS	8 /	1.34GAL		Centralizer	85/2 WODEN F	NG I EA			
SHIT DOWN RELEASE	85/	3 WOODEN 1	0/56	Baskets					
START DISP				AFU Inserts					
Plu6 00WN 15.6 Bbls				Float Shoe					
Close Volue on CSG 150+				Latch Down					
GOOD CIRC THU JOB				SERVICE SUDV 1 EA					
CiRC CUT TO P.+				LMV					
				Pumptrk Charge SUR FACE					
THANK 900				Mileage 50					
PLEASE CALL AGDIN				Tax					
TJ MIVE JAKE						Discount			
Signature Janua A. Markey						Total Charge			
	1						Taylor Printing, Inc.		

QUALITY WELL SERVICE, INC. Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124 Mailing Address P.O. Box 468

Office 620-727-3410 Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

	ec. Twp.	Range		County	State	On Location	Finish	
Date 2-12-20 3	,	15W	Do	OTT	Ks	On Education	Tillon	
210 210	1 0-1-		IK	H11		201311.15	1	
				on Ceoff, K& Stolloth Rd 21/4 E to				
Contractor STERLING	DRG.	2644	-		ttle Guary Y	4 Sinto		
Type Job 412 LS		12201		You are here	by requested to rent	cementing equipmen	t and furnish	
Hole Size 77/3		820'		cementer and helper to assist owner or contractor to do work a			work as listed.	
Csg. 4/2 11.6-105		4818.45		To (1	R. FfIN			
Tbg. Size	Depth			Street				
Tool	Depth		to min	City		State		
Cement Left in Csg.	Shoe Jo				s done to satisfaction an	~ :	1 -	
Meas Line	Displac	e 75.31			ount Ordered 200	1	111	
	UIPMENT				-5 1/5 KolseaL	.6%. C16A .25%	CAIP 1/4" PJ	
Pumptrk 8 No.				Common 2	2008.			
Bulktrk O No.				Poz. Mix	1.			
Bulktrk No.				Gel. 374) ·			
Pickup No.				Calcium				
JOB SERVI	CES & REMA	RKS		Hulls				
Rat Hole 33 SC				Salt //O	14.			
Mouse Hole 25 5x				Flowseal 50 F				
Centralizers 1-2-3-4-5	-6	befo		Kol-Seal 1000 #.				
Baskets					500 AL.			
D/V or Port Collar 72 = 3525	3.16 49=1	184.29		CFL-117 or CD110 CAF 38 C/6A //2.8 4.				
Run 116 5/3/164:1			.45	Sand CC-1 7 GaL. CAIP 47 1.				
STAG CSG CSG ON B				Handling 246				
to CSG & BREAK CIRCL	1 .			Mileage 25 / 6/50				
circ wheile				4/2 FLOAT EQUIPMENT				
START POMPING 10861 HZ	5 12135/mi	DAHL HZ)	Guide Shoe HEAD & MANIFOLD I EU.				
STATINIX Rum 50 SC				Centralizer & EA.				
STACT NIL & POMID 150S		500 14.84,	GOL	Baskets				
SAUT DOWN WANTED to	7		106	AFU Inserts				
STAT DISO W/2/ KG				Float Shoe EA -				
Lift Ps. 650+ 600"			Latch Down / EA -					
Plu6 Dun 75.5 at 120"				SERVICE SON / EA				
PSI 10 CSG 1200#				LM/ 25				
Release HELD 1/2 1961 ROCK				Pumptrk Charge 2				
6000 con they JOB				Mileage 50				
THAIL FU			-	3 30		Tax		
			VI	- 7		Discount		
Y FACE CALL AGAIN TOOD TIMLE JAKE X Signature						Total Charge		
orginature 27 1								

Taylor Printing, Inc.