

Operator Name: Grand Mesa Operating Company Lease Name: Keller Unit Well #: 1-20
 Sec. 20 Twp. 18 S. R. 19 East West County: Rush

INSTRUCTIONS: Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction Log, Comp. Den/Neutron PE Log, Micro Log, Dual Receiver Cement Bond Log	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr><td>Stone Corral</td><td>1239</td><td>+ 803</td></tr> <tr><td>Heebner</td><td>3470</td><td>-1428</td></tr> <tr><td>Lansing</td><td>3515</td><td>-1473</td></tr> <tr><td>Bs/KC</td><td>3788</td><td>-1749</td></tr> <tr><td>Pawnee</td><td>3893</td><td>-1851</td></tr> <tr><td>Cherokee Pay Sd</td><td>3928</td><td>-1886</td></tr> <tr><td>Viola</td><td>4012</td><td>-1970</td></tr> <tr><td>Arbuckle</td><td>N/A</td><td>N/A</td></tr> <tr><td>LTD</td><td>4072</td><td></td></tr> </tbody> </table>	Name	Top	Datum	Stone Corral	1239	+ 803	Heebner	3470	-1428	Lansing	3515	-1473	Bs/KC	3788	-1749	Pawnee	3893	-1851	Cherokee Pay Sd	3928	-1886	Viola	4012	-1970	Arbuckle	N/A	N/A	LTD	4072	
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	23#	1241'	Common	450	3% CC, 2% Gel
Production	7 7/8"	5 1/2"	14#	4067'	AA-2	185	
					60/40 Pozmix	20	Rathole

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone <input checked="" type="checkbox"/> Plug Well				60-90 days out on plugging (Quality well Service) 3/27/09

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth
		Amount	Kind	
4	4002-4005	250 gal. MCA Acid - 15%		4002-05
		250 gal. MCA Acid - 15%		4002-05
		250 gal. FE Acid - 15%, 10% Zylene		3928-32,
				3936-41

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls. Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ RECEIVED KANSAS CORPORATION COMMISSION
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

MAR 31 2009
 CONSERVATION DIVISION
 WICHITA, KS

100
900
4102/09

TREATMENT REPORT

Customer KANSAS MESA OPERATING	Lease No.	Date 12-14-08
Lease Keller Unit	Well # T-281-20	
Field Order # 15229	Station ALMT	Casing 3 1/2
	Depth	County RUSH
Type Job CNW-L.S.	Formation	Legal Description 20-18-19

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid 1855K AAZ	RATE	PRESS	ISIP
Depth 4069	Depth	From	To	Pre Pad 1.37113	Max		5 Min.
Volume 99	Volume	From	To	Pad	Min		10 Min.
Max Press 1500	Max Press	From	To	Flush	Avg		15 Min.
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 4029	Packer Depth	From	To	Flush 98 Bbl.	Gas Volume		Total Load

Customer Representative JOHN JOHNSON	Station Manager SCOTTY	Treater BOBBY
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Service Units	19866	19903	19905	19910	19918				
Driver Names	ARALE	SHIELDS		PHYL					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
1000					ON LOCATION W/ FLOAT EQUIPMENT
1135					RUN 101 TTS. 15.5" GWT - 1,337.9 @ 1.335
1315					CSG. ON BOTTOM
1335					HOOK UP TO CSG. - BREAK CIRC. W/ RIG
1450	300		12	5.5	SUPER FLUSH
1453	300		5	5.5	H2O SPACER
1455	300		50	5.5	MIL CNT. @ 15.3" / GAL.
1511					RELEASE PLUG - CLEAR PUMP & LINES
1513	250			6.0	START STOP
1530					LET PRESSURE OUT OF H2O - DISP. W/ MUD
1539	1500				PUMP DOWN PLUG DOWN
1550					PLUG IN PLUG IN NEXT
					CIRCULATION THRU JOB
					JOB COMPLETE
					JOHNSON, BOBBY

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JOB LOG

SWIFT Services, Inc.

DATE 2-20-09 PAGE NO. 7

CUSTOMER GRAND MESA WELL NO. 1-20 LEASE KELLER UNIT JOB TYPE ACIDZ FORMATION TICKET NO. 15650

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL/GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1100							ON LOCATION
								2 7/8 x 5 1/2
								PERF - 4002-05
								PVR - 3961
	1150		1	✓		0		SPOT ACID @ 4010'
	1205							PULL UP - SET PVR @ 3961
	1210	4	6	✓		0		PUMP ACID
	1211	4		✓		0		LOAD HOLE w/ KCL-H2O
	1215		2 1/2	✓		250		LOADS
	1216		0	✓		1500		PSE UP - SLOW
	1218	1/4	1/4	✓		1400		TREAT FORMATION
		1/2	1/2	✓		625		"
		2	2	✓		725		"
		2	6	✓		725		" ACID CIPAR
	1225	2	11	✓		750		" 5 BBL OVERFLW - SHUT DOWN
						650		ISDN
						450		5 MIN LOAD = 35 BBL
						350		10 MIN
						275		15 MIN
						150		30 MIN RELEASE - 1/4 BBL BACK
								SWAB TEST
	1330							JOB COMPLETE
								THANK YOU
								WAKE BOET

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JOB LOG

SWIFT Services, Inc.

DATE 24 FEB 09 PAGE NO. 1

CUSTOMER GRAND MESA WELL NO. LEASE KELLER UNIT 1-20 JOB TYPE ACIDIZE FORMATION TICKET NO. 15752

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1035							ON LOCATION SET TRUCK UP
	1048	1	.5	✓		Ø		SPOT ACID ON BOTTOM SET PACKER
	1057	3		✓		Ø		START ACID DOWN WELL
		3	6	✓		Ø		START FLUSH
	1105	Ø	23	✓		Ø		TUBING LOADED
	1108	Ø		✓		500		STAGING.
	1113	Ø		✓		600		" "
	1117	Ø	23.5	✓		700		" "
	1120	Ø	24	✓		700		FEEDING.
	1130	.25	26	✓		450		INCREASE RATE
	1143	.25	29	✓		600		ACID CLEARED TUBING - START 1 BBL OVERFLUSH
	1147	Ø	30	✓		400		ESBP
						VAC		5 min 30 sec.
	1154							KNOCK LOOSE FROM WELL RACK TRUCK UP
	1215							JOB COMPLETE
								TREAT WITH 250 gal FE 15% 10% RYCENE
								PERFS @ 3928-32
								3936-41
								PACKER @ 3928
								THANKS B109
								JASON PROGER

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