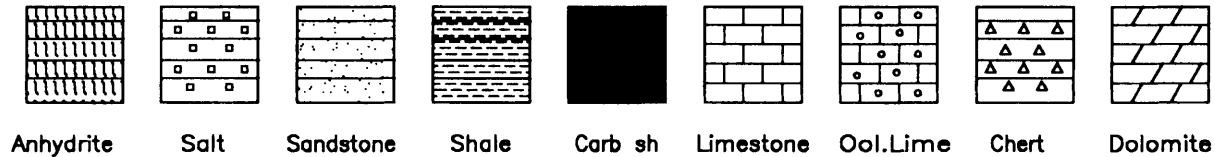




\* Structural Position to:

### LEGEND



SCALE " = 100'

log	Drilling time in minutes	DEPTH	Sample Description	Remarks, drill stem tests, etc.
				100-110 lbs per sq ft pressure
				110-120 lbs per sq ft pressure
				120-130 lbs per sq ft pressure
				130-140 lbs per sq ft pressure
				140-150 lbs per sq ft pressure
				150-160 lbs per sq ft pressure
				160-170 lbs per sq ft pressure
				170-180 lbs per sq ft pressure
				180-190 lbs per sq ft pressure
				190-200 lbs per sq ft pressure
				200-210 lbs per sq ft pressure
				210-220 lbs per sq ft pressure
				220-230 lbs per sq ft pressure
				230-240 lbs per sq ft pressure
				240-250 lbs per sq ft pressure
				250-260 lbs per sq ft pressure
				260-270 lbs per sq ft pressure
				270-280 lbs per sq ft pressure
				280-290 lbs per sq ft pressure
				290-300 lbs per sq ft pressure
				300-310 lbs per sq ft pressure
				310-320 lbs per sq ft pressure
				320-330 lbs per sq ft pressure
				330-340 lbs per sq ft pressure
				340-350 lbs per sq ft pressure
				350-360 lbs per sq ft pressure
				360-370 lbs per sq ft pressure
				370-380 lbs per sq ft pressure
				380-390 lbs per sq ft pressure
				390-400 lbs per sq ft pressure
				400-410 lbs per sq ft pressure
				410-420 lbs per sq ft pressure
				420-430 lbs per sq ft pressure
				430-440 lbs per sq ft pressure
				440-450 lbs per sq ft pressure
				450-460 lbs per sq ft pressure
				460-470 lbs per sq ft pressure
				470-480 lbs per sq ft pressure
				480-490 lbs per sq ft pressure
				490-500 lbs per sq ft pressure
				500-510 lbs per sq ft pressure
				510-520 lbs per sq ft pressure
				520-530 lbs per sq ft pressure
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				690-700 lbs per sq ft pressure
				700-710 lbs per sq ft pressure
				710-720 lbs per sq ft pressure
				720-730 lbs per sq ft pressure
				730-740 lbs per sq ft pressure
				740-750 lbs per sq ft pressure
				750-760 lbs per sq ft pressure
				760-770 lbs per sq ft pressure
				770-780 lbs per sq ft pressure
				780-790 lbs per sq ft pressure
				790-800 lbs per sq ft pressure
				800-810 lbs per sq ft pressure
				810-820 lbs per sq ft pressure
				820-830 lbs per sq ft pressure
				830-840 lbs per sq ft pressure
				840-850 lbs per sq ft pressure
				850-860 lbs per sq ft pressure
				860-870 lbs per sq ft pressure
				870-880 lbs per sq ft pressure
				880-890 lbs per sq ft pressure
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4864

Date <u>7/11</u>	Sec. <u>9</u>	Twp. <u>15</u>	Range <u>18</u>	County <u>Ellis</u>	State <u>KS</u>	On Location	Finish <u>7:00 p.m.</u>
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Lease Munsch Well No. 4 Location Horsman LN 1/2W 11th

Contractor Southwind #1 Owner

Type Job Surface To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4 T.D. 226 Charge To T.D.I.

Csg. 8 5/8 Depth 223 Street

Tbg. Size Depth City State

Tool Depth

Cement Left in Csg. 15' Shoe Joint The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line Displace 13'4 1/2 Cement Amount Ordered 150 Com 3 1/2 x 2 1/2

**EQUIPMENT**

Pumptrk No.	Cementer <u>Chris</u>	Common <u>150</u>
	Helper	

Bulktrk <u>5</u> No.	Driver <u>Corey</u>	Poz. Mix
	Driver	

Bulktrk <u>14</u> No.	Driver <u>Monty</u>	Gel. <u>3</u>
	Driver	

**JOB SERVICES & REMARKS**

Remarks: Calcium 5

Rat Hole Hulls

Mouse Hole Salt

Centralizers Flowseal

Baskets Kol-Seal

D/V or Port Collar Mud CLR 48

Sand CFL-117 or CD110 CAF 38

8 5/8 on bottom. Est. Circulation. Sand

Mix 150 SK + 2 1/2 lbs. Handling 158

Cement Circulated! Mileage

**FLOAT EQUIPMENT**

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe 8 5/8 Surface

Latch Down

Pumptrk Charge Surface

Mileage 9

Signature Frank Rene Tax

Discount  
Total Charge

**JOB LOG**

**SWIFT Services, Inc.**

DATE 07-08-11 PAGE NO. 1

CUSTOMER T.O. I WELL NO. 4 LEASE MUNSH JOB TYPE 2 STAGE TICKET NO. 20216

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1430							DNLOCATION
								CMT; BITTEN 150 EA-2
								TOP 165 SMD
								RTO 3770, SET PIPE 3772, SJ 43.50, INSERT 3746
								5 1/2 14" DI. CMT 61, 1208 FT
								CMT 246.8, 10, 12.4, 63, 76 BASAT 4.15, 61, 77
	15:5							START CLOSURE
	16:15							TALBERTON - DASP BALL
	16:55							BREAK CIRC - ROTATE PIPE
	17:25	5.0	12		-		200	MUD FLUSH SDCAL
		5	20		-		5	MUD FLUSH
			36.5		-			150 SMD EA-2
								DROPPED PLUG, WASHOUT PL
	1740	6.0	0		-		200	START DASP 7/42
			61		-		300	" " W/MUD
			76		-		500	" " W/MUD FLUSH
			85		-		600	
	1755		90.9		-		700	LAND PLUG, RELEASE DRY
								DASP DV OPENING START
	1800		7.5					PLUG RH 30, MH 15
	1814				✓		1000	OPEN D.V., CIRC CIRC.
	1815	5.0	0		-		200	START SMD
		5	69		-		5	END
								DASP DV CLOSING PLUG
	1825	6.0	0		-		200	START DASP
			10.0				5	
			23.0		-		350	CIRC CMT TO PIT! 20 SMD
	1830		29.6		-		1500	LAND & CLOSE D.V. 20 SMD
								RELEASE DRY
	1915							JOB COMPLETE
								THANK YOU!
								DAVE, JOSH & JOE