



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

FLUID CONDUCTIVITY TEMPERATURE LOG
RECEIVED
SEP 10 2009
SOUTH DISTRICT

Company ARCADIS
Well IW-1
Field KEY LARGO
County MONROE
State FLORIDA

Company ARCADIS
Well IW-1
Field KEY LARGO
County MONROE
State FLORIDA

Location: SEC TWP RGE
Permanent Datum GL
Log Measured From GL
Drilling Measured From GL
Elevation
Other Services
SEE COMMENTS

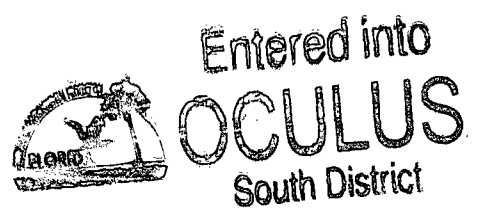
Date	23-JAN-2009	
Run Number	Bit	From
Depth Driller	80.5"	SURFACE
Depth Logger	12.25"	CASING
Bottom Logged Interval	37.00'	37.00'
Top Log Interval	37.00'	CASING
Open Hole Size	12.25"	12.25"
Type Fluid	WATER	
Density / Viscosity	NA	
Max. Recorded Temp.	NA	
Estimated Cement Top	NA	
Time Well Ready	0800	
Time Logger on Bottom	0830	
Equipment Number	103	
Location	FT. MYERS	
Recorded By	MOREY	
Witnessed By	L. KWAPINSKI	
Borehole Record		
Run Number	Bit	From
ONE	80.5"	SURFACE
TWO	12.25"	CASING
THREE	46.50"	CASING
FOUR	12.25"	CASING
Casing Record		
Surface String	52"	37.5 W/T
Tool String	36"	37.5 W/T
Production String	28"	37.5 W/T

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All interpretations are opinions based on inferences from electrical or other measurements and we cannot and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents or employees. These interpretations are also subject to our general terms and conditions set out in our current Price Schedule.

Comments

X-Y CALIPER/GAMMA RAY
DUAL INDUCTION with LL3
BOREHOLE COMPENSATED SONIC FLOWMETER
BOREHOLE TELEVIEWER
DYNAMIC FLOWRATE = 200 GPM



YOUNGQUIST BROTHERS, Inc
GEOPHYSICAL LOGGING DIVISION

MERGED FCT

Database File: keyloiw1.db
Dataset Pathname: run9/pass13
Presentation Format: frt_mg
Dataset Creation: Fri Jan 23 16:31:51 2009 by Log 6.2_B4
Charted by: Depth in Feet scaled 1:240

75	DYNAMIC TEMP (degF)	95	20	DYNAMIC FLUID CONDUCTIVITY (uS)	200000
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DYNAMIC TEMP (degF)	STATIC TEMP (degF)		FLUID CONDU	FLUID COND
81.4	81.1		48748	52889
			DYNAMIC FLOWRATE = 200 GPM	
81.5	81.1	1700	48747	52901
81.5	81.1		48851	52953
81.5	81.2		48928	53460
81.5	81.3		48813	53544
81.5	81.2		48771	53531
81.5	81.1	1750	49348	53458
81.5	81.1		49372	53419
81.5	81.1		49408	53468
81.5	81.1		49687	53536
81.5	81.1		49564	53565
81.6	81.1	1800	49541	53547
81.6	81.1		49468	53436
81.6	81.1		49465	53252
81.6	81.1		49498	53254
81.6	81.1		49627	53284
81.6	81.1	1850	49590	53444
81.6	81.1		49521	53461
81.6	81.1		49469	53682
81.6	81.1		49534	53807
81.6	81.1		49537	53812
81.6	81.1	1900	49557	53851
81.7	81.1		49431	53864

81.5 ← STATIC TEMP → 81.1

81.5 ← DYNAMIC TEMP → 81.2

← DYNAMIC FLUID CONDUCTIVITY

STATIC FLUID CONDUCTIVITY (uS) →

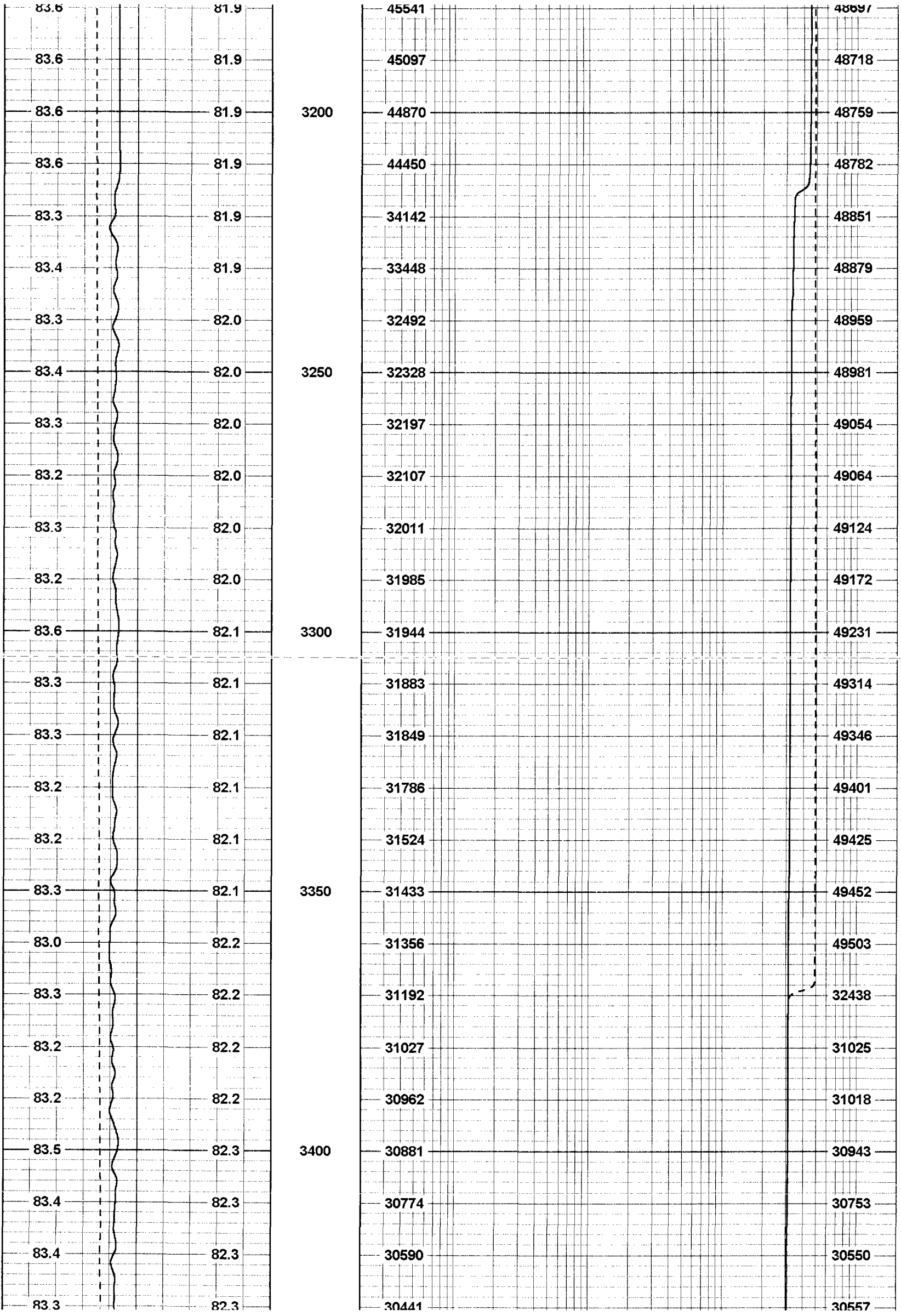
81.7	81.2		49370	53863
81.7	81.2		49336	53912
81.7	81.1		49274	53917
81.7	81.2	1950	49386	53805
81.7	81.2		49400	53647
81.7	81.1		49378	53408
81.7	81.1		49365	53394
81.7	81.1		49275	53717
81.7	81.1	2000	49244	54039
81.7	81.2		49274	54040
81.7	81.1		49270	54081
81.8	81.1		49296	54113
81.8	81.1		49289	54123
81.8	81.2	2050	49282	54153
81.8	81.1		49118	54157
81.9	81.2		49056	54137
81.9	81.2		48973	54175
81.9	81.2		48890	49851
81.9	81.2	2100	48824	49767
82.0	81.2		48840	49884
82.0	81.2		48828	53011
82.0	81.2		48865	53059
82.0	81.2		48888	53118
82.0	81.2	2150	49113	53442
82.0	81.2		49492	53356

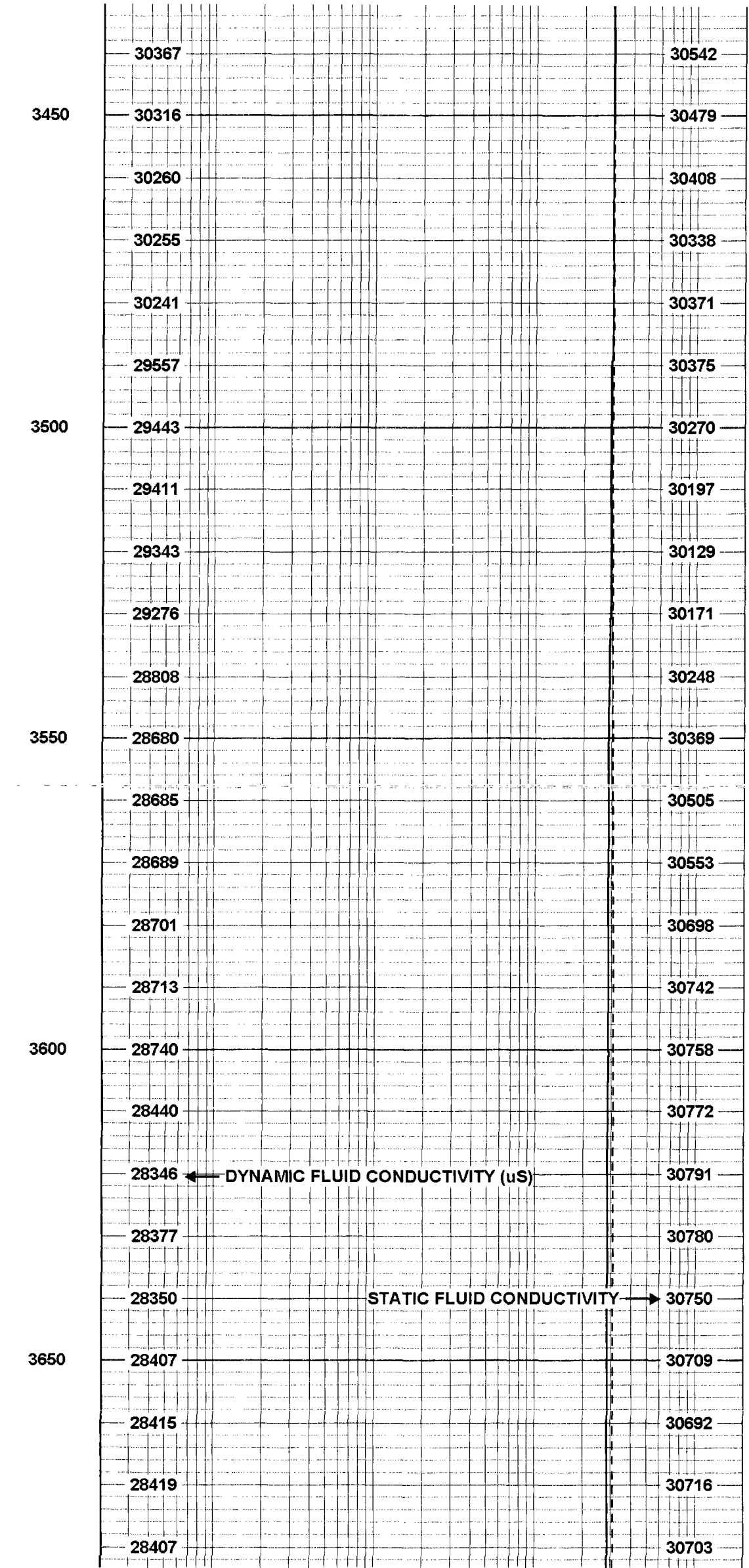
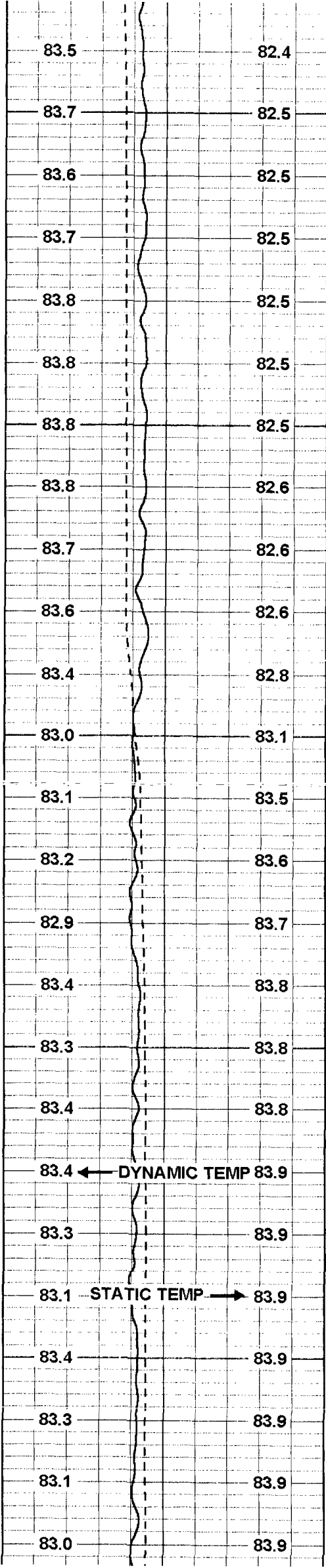
82.0	81.2		49526	53424
82.0	81.3		49546	53444
82.0	81.3		49569	53483
82.0	81.3	2200	49597	53551
82.0	81.3		49034	53567
82.0	81.3		49510	53668
82.0	81.3		49531	53688
82.0	81.3		49566	53742
82.0	81.3	2250	49590	53734
82.0	81.3		49642	53714
82.0	81.3		49689	53729
82.0	81.3		49739	53748
82.0	81.3		49799	53785
82.0	81.4	2300	49852	53819
82.1	81.4		49754	53852
82.1	81.4		49531	53922
82.1	81.4		49588	53937
82.1	81.4		49692	54048
82.1	81.4	2350	49720	54223
82.1	81.3		49777	54182
82.1	81.4		49819	54238
82.2	81.4		49664	54321
82.2	81.4		49838	54405
82.2	81.4	2400	49852	54427
82.3	81.4		49900	54423
82.3	81.4		49900	54423

82.3	81.4		49855	54450
82.3	81.4		49906	54460
82.4	81.4	2450	49884	54413
82.4	81.4		49889	54475
82.4	81.4		45061	54503
82.4	81.4		45088	54504
82.5	81.4		45046	54523
82.5	81.4	2500	45250	54528
82.5	81.4		45276	54520
82.6	81.4		45260	54495
82.6	81.4		45261	54519
82.6	81.5		45275	54507
82.6	81.5	2550	45290	54517
82.6	81.5		45300	54521
82.6	81.5		45335	54504
82.7	81.5		45352	54518
82.7	81.5		45346	54512
82.7	81.5	2600	45416	54519
82.7	81.5		45416	54526
82.8	81.5		45410	54491
82.8	81.5		45447	54450
82.8	81.5		45532	54078
82.8	81.5	2650	45554	54042
82.9	81.5		45581	53995
82.9	81.5		45562	51336

82.9	81.5		45650	53601
82.9	81.5		45666	51422
82.9	81.5	2700	45705	51308
82.9	81.5		45731	51314
83.0	81.6		45751	51359
83.0	81.5		45794	51410
83.0	81.6		45797	51426
83.0	81.6	2750	45794	51466
83.0	81.6		45820	51474
83.0	81.6		45857	51534
83.1	81.6		45871	51554
83.1	81.6		45927	51539
83.1	81.6	2800	46016	51544
83.1	81.6		46010	49306
83.1	81.6		45994	48536
83.1	81.6		46020	48506
83.2	81.7		46119	48523
83.2	81.6	2850	46111	48649
83.2	81.7		46142	48701
83.2	81.7		46123	48727
83.2	81.7		46150	48764
83.2	81.6		46195	48785
83.2	81.7	2900	46237	48886
83.2	81.7		46311	48918
83.3	81.7		46337	48963

83.3	81.7		46259	48956
83.3	81.8		46236	48981
83.3	81.8	2950	46149	48908
83.3	81.9		46190	48661
83.3	82.0		46207	48521
83.3	82.0		46243	47985
83.3	82.1		46325	47568
83.4	82.1	3000	46358	47572
83.4	82.1		46377	47603
83.4	82.1		46426	47672
83.4	82.1		46430	47702
83.4	82.1		46445	47833
83.5	82.1	3050	46474	47930
83.5	82.0		46522	48151
83.5	82.0		46558	48310
83.5	81.9		46563	48451
83.5	81.9		46549	48443
83.5	81.9	3100	46551	48479
83.5	81.9		46594	48497
83.5	81.9		46593	48517
83.5	81.9		46618	48546
83.5	81.9		46628	48549
83.6	81.9	3150	46798	48577
83.6	81.9		46653	48625
83.6	81.9		46086	48649





83.5	83.9	28409	30718
75	DYNAMIC TEMP (degF)	95	20
75	STATIC TEMP (degF)	95	20
DYNAMIC TEM	STATIC TEMP	FLUID CONDU	FLUID COND
(degF)	(degF)		

Calibration Report

Database File: keyloiw1.db
 Dataset Pathname: run9/pass13
 Dataset Creation: Fri Jan 23 16:31:51 2009 by Log 6.2_B4

Temperature Calibration Report

Serial Number: 31
 Tool Model: SONDEX
 Performed: Mon Jun 09 10:53:33 2008

Point #	Reading	Reference
1	152.99 cps	39 degF
2	330.989 cps	82 degF
3	688.237 cps	157 degF
4	cps	degF
5	cps	degF
6	cps	degF
7	cps	degF
8	cps	degF
9	cps	degF
10	cps	degF

Sensor	Offset (ft)	Schematic	Description	Len (ft)	OD (in)	Wt (lb)
TEMP	0.70		TEMP-SONDEX (31)	1.20	1.63	10.00
FRES	0.50		FRT-SONDEX (31)	0.60	1.69	10.00
		Dataset: keyloiw1.db: field/well/run9/pass13 Total Length: 1.80 ft Total Weight: 20.00 lb O.D.: 1.69 in				