KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1053622

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6039
Name: L. D. Drilling, Inc.
Address 1: 7 SW 26TH AVE
Address 2:
City: GREAT BEND State: KS Zip: 67530 + 6525
Contact Person: L. D. DAVIS
Phone: (620) 793-3051
CONTRACTOR: License # 33323
Name: Petromark Drilling, LLC
Wellsite Geologist: KIM SHOEMAKER
Purchaser: M V PURCHASING

Designate Type of Completion:

☐ New Well ☐ Re-Entry ☐ Workover

☐ Oil ☐ WSW ☐ SWD ☐ SIOW
☐ Gas ☐ D&A ☐ ENHR ☐ SIGW
☐ OG ☐ GSW ☐ Temp. Abd.
☐ CM *(Coal Bed Methane)*
☐ Cathodic ☐ Other *(Core, Expl., etc.)*:

If Workover/Re-entry: Old Well Info as follows:

Operator:
Well Name:
Original Comp. Date: Original Total Depth:

☐ Deepening ☐ Re-perf. ☐ Conv. to ENHR ☐ Conv. to SWD
☐ Conv. to GSW
☐ Plug Back: Plug Back Total Depth
☐ Commingled Permit #:
☐ Dual Completion Permit #:
☐ SWD Permit #:
☐ ENHR Permit #:
☐ GSW Permit #:

02/07/2011	02/15/2011	02/25/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23667-00-00
Spot Description:
E2 - SE - SE - SW Sec. 23 Twp. 21 S. R. 12 ☐ East ☐ West
330 Feet from ☐ North / ☐ South Line of Section
2558 Feet from ☐ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☐ SW
County: Stafford
Lease Name: AUSTIN / BERNICE Well #: 4-23
Field Name: SAUNDRA
Producing Formation: ARBUCKLE / BASE KANSAS CITY
Elevation: Ground: 1836 Kelly Bushing: 1839
Total Depth: 3677 Plug Back Total Depth: 3615
Amount of Surface Pipe Set and Cemented at: 353 Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☐ No
If yes, show depth set: Feet
If Alternate II completion, cement circulated from:
feet depth to: w/ sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)

Chloride content: 8600 ppm Fluid volume: 1150 bbls
Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: L. D. DRILLING, INC.
Lease Name: DAVIS RANCH OWWD License #: 6039
Quarter NW Sec. 14 Twp. 21 S. R. 12 ☐ East ☐ West
County: STAFFORD Permit #: D30736

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

☐ **Letter of Confidentiality Received**
Date:
☐ **Confidential Release Date:**
☑ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☐ **I** ☐ **II** ☐ **III** **Approved by:** Deanna Garrison **Date:** 04/11/2011

Side Two

1053622

Operator Name: L. D. Drilling, Inc. Lease Name: AUSTIN / BERNICE Well #: 4-23

Sec. 23 Twp. 21 S. R. 12 ☐ East ☐ West County: Stafford

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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☐ No

Cores Taken ☐ Yes ☐ No
Electric Log Run ☐ Yes ☐ No
Electric Log Submitted Electronically ☐ Yes ☐ No
(If no, Submit Copy)

List All E. Logs Run:
DUAL COMPENSATED POROSITY LOG
DUAL INDUCTION LOG
MICRORESISTIVITY LOG

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☐ New ☐ 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	12.25	8.625	24	353	A-CON	175	3%CC,.25#CF
SURFACE - Cont	12.25	8.625	24	353	COMMON	200	2%Gel,3%CC,.25#CF
PRODUCTION	7.875	5.5	14	3677	60/40 POZMIX	180	

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose: ____ Perforate ____ Protect Casing ____ Plug Back TD ____ Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
	-			
	-			

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
4	3322 - 3325'; 3379 - 3383'	3500 gal 28% NE FE HCL ACID	
4	3395 - 3398'; 3418 - 3422'		
4	3521 - 3527'		

TUBING RECORD: Size: 2.375 Set At: 3612' Packer At:

Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. 03/01/2011

Producing Method: ☐ Flowing ☑ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	AUSTIN / BERNICE 4-23
Doc ID	1053622

Tops

Name	Top	Datum
ANHYDRITE	606	+1233
TOPEKA	2811	-972
HEEBNER	3098	-1259
BROWN LIME	3226	-1387
LANSING	3248	-1409
BASE KANSAS CITY	3478	-1639
VIOLA	3518	-1679
SIMPSON	3556	-1717
ARBUCKLE	3611	-1772

Company	**LD Drilling, Inc.**	Lease Name	**Austen/Bernice**		
Address	**7 SW 28th Ave.**	Lease #	**4-23**		
CSZ	**Great Bend, KS 67530**	Legal Desc	**E/2-SE-SE-SW**	Job Ticket	**2139**
Attn.	**Kim Shoemaker**	Section	**23**	Range	**12W**
		Township	**21S**		
		County	**Stafford**	State	**KS**
		Drilling Cont	**Petromark Drilling Rig #2**		

Comments **Field: Saundra**

GENERAL INFORMATION

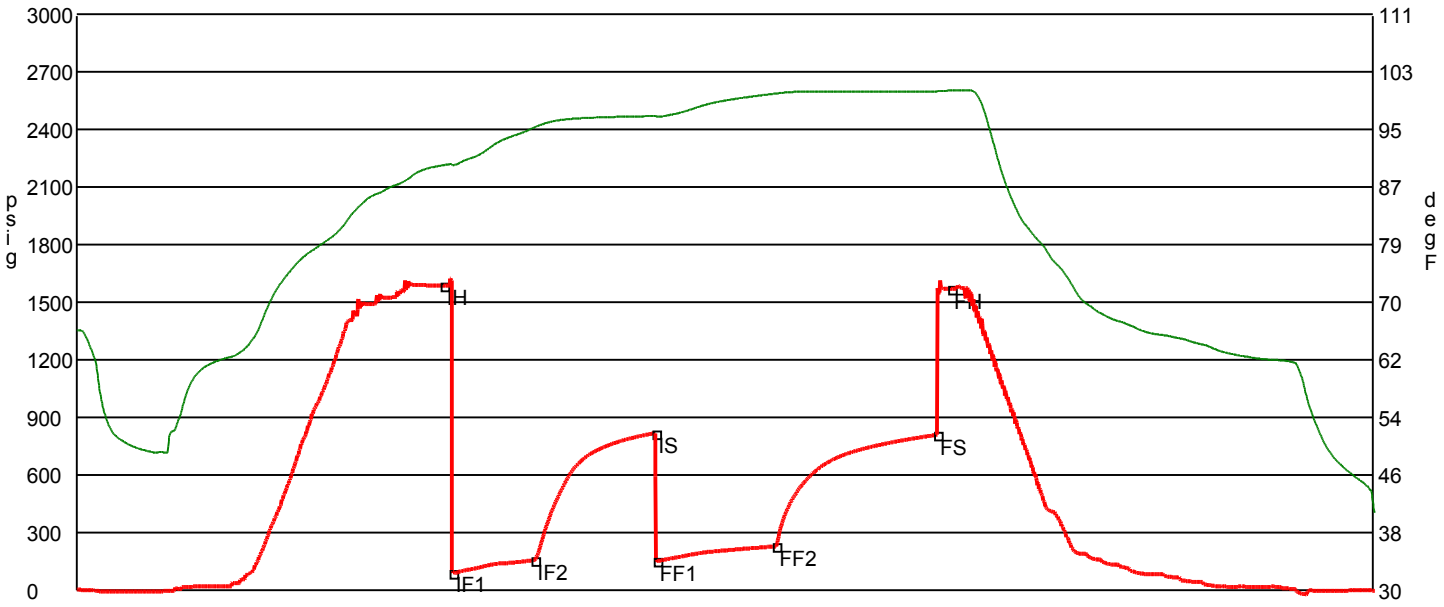
				Chokes	**3/4**	Hole Size	**7 7/8**
Test #	**1**	Test Date	**2/12/2011**	Top Recorder #	**W1119**		
Tester	**Tim Venters**			Mid Recorder #	**W1022**		
Test Type	**Conventional Bottom Hole Successful Test**			Bott Recorder #	**13310**		
# of Packers	**2.0**	Packer Size	**6 3/4**	Mileage	**96**	Approved By	
				Standby Time	**0**		
Mud Type	**Gel Chem**			Extra Equipmnt	**Safety joint**		
Mud Weight	**8.9**	Viscosity	**51.0**	Time on Site	**2:55 PM**		
Filtrate	**10.4**	Chlorides	**4000**	Tool Picked Up	**5:25 PM**		
				Tool Layed Dwn	**12:30 AM**		
Drill Collar Len	**120.0**						
Wght Pipe Len	**0**			Elevation	**1839.00**	Kelley Bushings	**1844.00**
Formation	**Lansing "A-F"**			Start Date/Time	**2/11/2011 4:54 PM**		
Interval Top	**3260.0**	Bottom	**3333.0**	End Date/Time	**2/12/2011 12:56 AM**		
Anchor Len Below	**73.0**	Between	**0**				
Total Depth	**3333.0**						

Blow Type **Weak 1/2 inch blow at the start of the initial flow period, building, reaching t he bottom of the bucket in 1 1/2 minutes.The blow back during the initial shut-i n period built to 1 1/2 inches. Strong blow throughout the final flow period, hi tting the bottom of the bucket in 30 seconds. Gas to surface in 35 minutes, but was too weak to measure. Weak surface blow back at the start of the final shut-i n period, building, reaching the bottom of the bucket in 16 minutes. Times: 30 , 45, 45, 60.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
2810	Gas in Pipe	100% 2810ft	0% 0ft	0% 0ft	0% 0ft
60	Gassy, slight oil cut mud	3% 1.8ft	13% 7.8ft	0% 0ft	84% 50.4ft
65	Gassy slight water, very heavy mud cut oil	3% 2ft	43% 28ft	17% 11ft	37% 24ft
125	Gassy, very heavy water, heavy mud cut oil	3% 3.8ft	39% 48.8ft	31% 38.8ft	27% 33.8ft
120	Very gassy, very slight oil, mud cut water	14% 16.8ft	2% 2.4ft	58% 69.6ft	26% 31.2ft
55	Mud cut water with a very slight trace of oil	0% 0ft	trace	72% 39.6ft	28% 15.4ft
5	Mud	0% 0ft	0% 0ft	0% 0ft	100% 5ft

DST Fluids **92000**



	Date	Time	Pressure	Temp	
IH	2/11/2011 7:09:30 PM	2.258333	1587.945	89.813	Initial Hydro-static
IF1	2/11/2011 7:12:50 PM	2.313889	92.263	89.817	Initial Flow (1)
IF2	2/11/2011 7:43:20 PM	2.822222	158.294	95.117	Initial Flow (2)
IS	2/11/2011 8:28:20 PM	3.572222	819.092	96.708	Initial Shut-In
FF1	2/11/2011 8:28:50 PM	3.580556	153.449	96.623	Final Flow (1)
FF2	2/11/2011 9:13:20 PM	4.322222	229.907	99.877	Final Flow (2)
FS	2/11/2011 10:13:20 PM	5.322222	810.394	100.139	Final Shut-In
FH	2/11/2011 10:18:30 PM	5.408333	1571.5	100.306	Final Hydro-static

GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke

Company	**LD Drilling, Inc.**	Lease Name	**Austen/Bernice**		
Address	**7 SW 28th Ave.**	Lease #	**4-23**		
CSZ	**Great Bend, KS 67530**	Legal Desc	**E/2-SE-SE-SW**	Job Ticket	**2139**
Attn.	**Kim Shoemaker**	Section	**23**	Range	**12W**
		Township	**21S**		
		County	**Stafford**	State	**KS**
		Drilling Cont	**Petromark Drilling Rig #2**		

Comments **Field: Saundra**

GENERAL INFORMATION

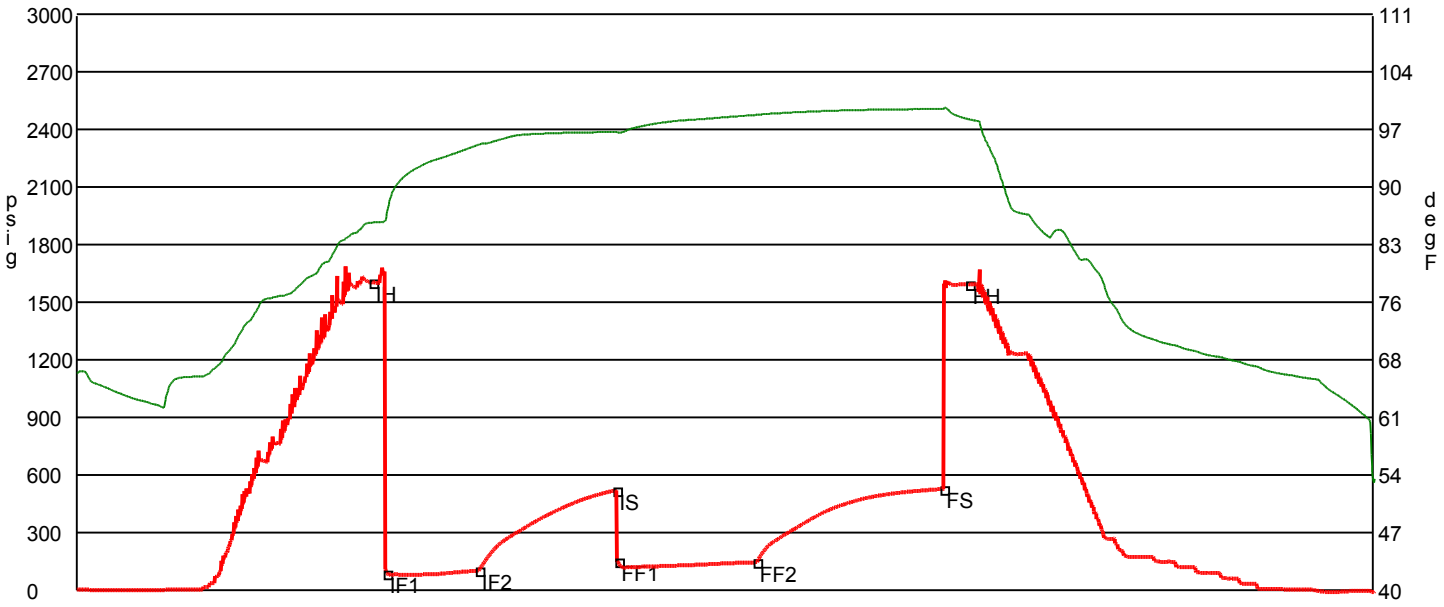
				Chokes	**3/4**	Hole Size	**7 7/8**
Test #	**2**	Test Date	**2/12/2011**	Top Recorder #	**W1119**		
Tester	**Tim Venters**			Mid Recorder #	**W1022**		
Test Type	**Conventional Bottom Hole Successful Test**			Bott Recorder #	**13310**		
# of Packers	**2.0**	Packer Size	**6 3/4**	Mileage	**96**	Approved By	
				Standby Time	**0**		
Mud Type	**Gel Chem**			Extra Equipmnt	**Safety joint**		
Mud Weight	**9.1**	Viscosity	**49.0**	Time on Site	**10:35 AM**		
Filtrate	**11.2**	Chlorides	**7000**	Tool Picked Up	**12:20 PM**		
				Tool Layed Dwn	**6:45 PM**		
Drill Collar Len	**120.0**						
Wght Pipe Len	**0**			Elevation	**1839.00**	Kelley Bushings	**1844.00**
Formation	**Lansing "H,I,J,K"**			Start Date/Time	**2/12/2011 11:49 AM**		
Interval Top	**3372.0**	Bottom	**3452.0**	End Date/Time	**2/12/2011 6:49 PM**		
Anchor Len Below	**80.0**	Between	**0**				
Total Depth	**3452.0**						

Blow Type **Fairly strong 2 1/2 inch blow at the start of the intial flow period, building, reaching the bottom of the bucket in 1 minute. Very strong blow throughout the final flow period, hitting the bottom of the bucket instantaneously. Gas to sur face in 4 minutes. Very weak surface blow back at the start of the final shut-in period, building to 3 inches. Times: 30, 45, 45, 60.**

RECOVERY

Feet	Description	Gas		Oil		Water		Mud	
2980	Gas in Pipe	100%	2980ft	0%	0ft	0%	0ft	0%	0ft
65	Gassy, very slight oil cut mud	2%	1.3ft	7%	4.6ft	0%	0ft	91%	59.2ft
65	Gassy, very heavy water, very heavy mud cut oil	7%	4.6ft	37%	24ft	23%	15ft	33%	21.4ft
125	Gassy, water and mud cut oil	3%	3.8ft	56%	70ft	22%	27.5ft	19%	23.8ft
60	Gassy, slight water, mud cut oil	2%	1.2ft	57%	34.2ft	11%	6.6ft	30%	18ft
60	Gassy, slight mud, water cut oil	7%	4.2ft	60%	36ft	23%	13.8ft	10%	6ft

DST Fluids **30000**



	Date	Time	Pressure	Temp	
IH	2/12/2011 1:23:50 PM	1.580556	1604.042	85.358	Initial Hydro-static
IF1	2/12/2011 1:28:30 PM	1.658333	89.821	86.413	Initial Flow (1)
IF2	2/12/2011 1:58:20 PM	2.155556	104.746	94.962	Initial Flow (2)
IS	2/12/2011 2:43:00 PM	2.9	522.172	96.529	Initial Shut-In
FF1	2/12/2011 2:43:30 PM	2.908333	152.091	96.474	Final Flow (1)
FF2	2/12/2011 3:28:30 PM	3.658333	146.678	98.621	Final Flow (2)
FS	2/12/2011 4:29:10 PM	4.669444	528.768	99.356	Final Shut-In
FH	2/12/2011 4:37:30 PM	4.808333	1594.2	98.068	Final Hydro-static

GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke
0	10	4.91 mcf	8.50 h2o	0.25 in
0	20	5.19 mcf	9.50 h2o	0.25 in
0	30	5.46 mcf	10.50 h2o	0.25 in
0	40	5.05 mcf	9.00 h2o	0.25 in
0	45	4.91 mcf	8.50 h2o	0.25 in

Company	**LD Drilling, Inc.**	Lease Name	**Austen/Bernice**		
Address	**7 SW 28th Ave.**	Lease #	**4-23**		
CSZ	**Great Bend, KS 67530**	Legal Desc	**E/2-SE-SE-SW**	Job Ticket	**2139**
Attn.	**Kim Shoemaker**	Section	**23**	Range	**12W**
		Township	**21S**		
		County	**Stafford**	State	**KS**
		Drilling Cont	**Petromark Drilling Rig #2**		
Comments	**Field: Saundra**				

GENERAL INFORMATION

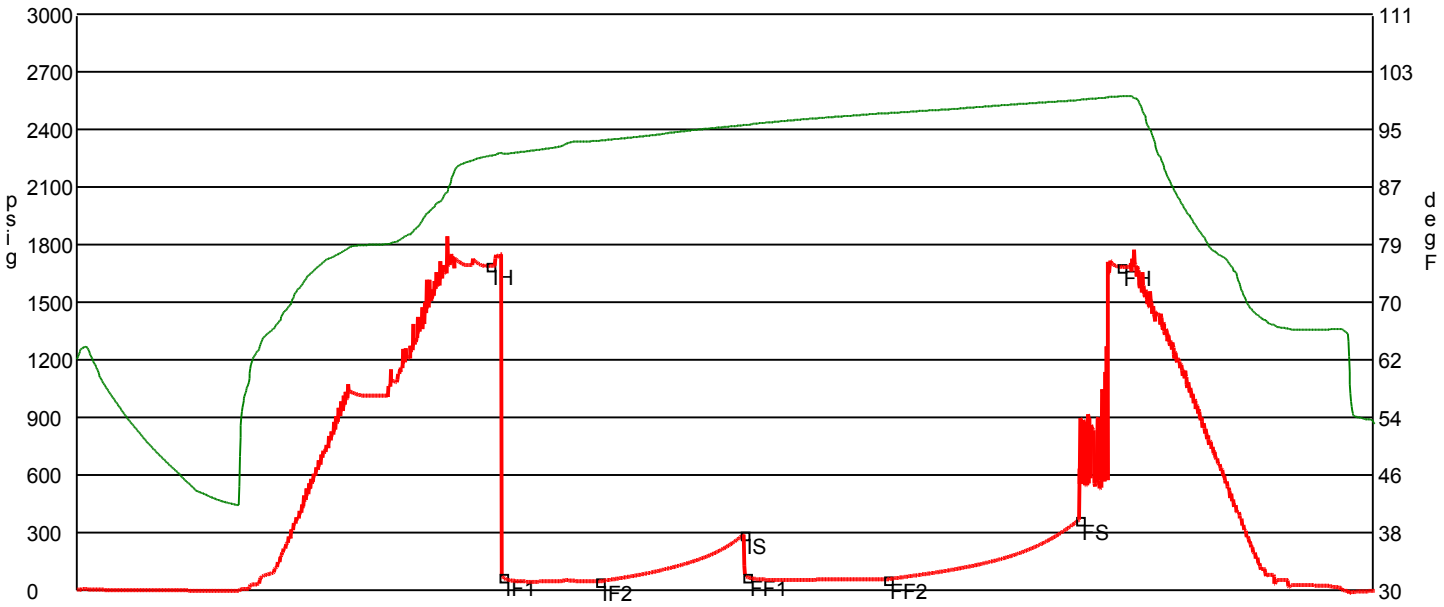
				Chokes	**3/4**	Hole Size	**7 7/8**
Test #	**3**	Test Date	**2/13/2011**	Top Recorder #	**W1119**		
Tester	**Tim Venters**			Mid Recorder #	**W1022**		
Test Type	**Conventional Bottom Hole**			Bott Recorder #	**13310**		
	Successful Test						
# of Packers	**2.0**	Packer Size	**6 3/4**	Mileage	**96**	Approved By	
				Standby Time	**0**		
Mud Type	**Gel Chem**			Extra Equipmnt	**Jars & Safety joint**		
Mud Weight	**9.2**	Viscosity	**52.0**	Time on Site	**4:00 AM**		
Filtrate	**9.2**	Chlorides	**7000**	Tool Picked Up	**6:05 AM**		
				Tool Layed Dwn	**12:05 PM**		
Drill Collar Len	**120.0**						
Wght Pipe Len	**0**			Elevation	**1839.00**	Kelley Bushings	**1844.00**
Formation	**Cong./Viola**			Start Date/Time	**2/13/2011 5:23 AM**		
Interval Top	**3477.0**	Bottom	**3535.0**	End Date/Time	**2/13/2011 12:08 PM**		
Anchor Len Below	**58.0**	Between	**0**				
Total Depth	**3535.0**						

Blow Type **Weak surface blow at the start of the initial flow period, building to 5 inches. Very weak surface blow back during the initial shut-in period. Fairly strong 2 1/2 inch blow at the start of the final flow period, building, reaching the bo ttom of the bucket in 35 minutes. Times: 30, 45, 45, 60.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
200	Gas on Pipe	100%200ft	0% 0ft	0% 0ft	0% 0ft
45	Gassy, slight oil cut mud	13% 5.9ft	15% 6.8ft	0% 0ft	72% 32.4ft

DST Fluids **0**



	Date	Time	Pressure	Temp	
IH	2/13/2011 7:31:20 AM	2.138889	1691.827	91.125	Initial Hydro-static
IF1	2/13/2011 7:35:20 AM	2.205556	71.974	91.435	Initial Flow (1)
IF2	2/13/2011 8:05:40 AM	2.711111	48.201	93.26	Initial Flow (2)
IS	2/13/2011 8:51:00 AM	3.466667	291.98	95.442	Initial Shut-In
FF1	2/13/2011 8:51:50 AM	3.480556	72.592	95.443	Final Flow (1)
FF2	2/13/2011 9:35:50 AM	4.213889	58.631	97.122	Final Flow (2)
FS	2/13/2011 10:36:00 AM	5.216667	367.51	98.953	Final Shut-In
FH	2/13/2011 10:49:00 AM	5.433333	1685.165	99.48	Final Hydro-static

GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke

Company	**LD Drilling, Inc.**	Lease Name	**Austen/Bernice**		
Address	**7 SW 28th Ave.**	Lease #	**4-23**		
CSZ	**Great Bend, KS 67530**	Legal Desc	**E/2-SE-SE-SW**	Job Ticket	**2139**
Attn.	**Kim Shoemaker**	Section	**23**	Range	**12W**
		Township	**21S**		
		County	**Stafford**	State	**KS**
		Drilling Cont	**Petromark Drilling Rig #2**		
Comments	**Field: Saundra**				

GENERAL INFORMATION

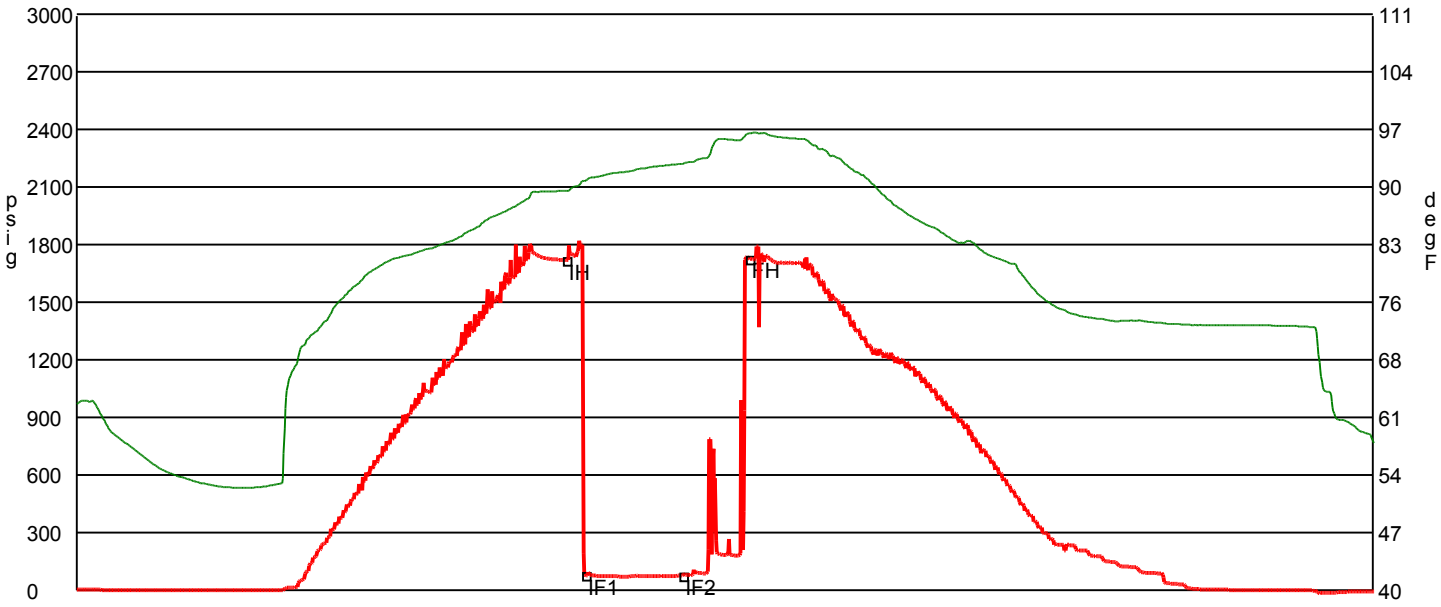
				Chokes	**3/4**	Hole Size	**7 7/8**
Test #	**4**	Test Date	**2/14/2011**	Top Recorder #	**W1119**		
Tester	**Tim Venters**			Mid Recorder #	**W1022**		
Test Type	**Conventional Bottom Hole Mis-run**			Bott Recorder #	**13310**		
# of Packers	**2.0**	Packer Size	**6 3/4**	Mileage	**96**	Approved By	
				Standby Time	**0**		
Mud Type	**Gel Chem**			Extra Equipmnt	**Jars, Safety joint, Small packer**		
Mud Weight	**9.2**	Viscosity	**52.0**	Time on Site	**7:45 PM**		
Filtrate	**9.2**	Chlorides	**7000**	Tool Picked Up	**10:55 PM**		
				Tool Layed Dwn	**2:45 AM**		
Drill Collar Len	**120.0**						
Wght Pipe Len	**0**			Elevation	**1839.00**	Kelley Bushings	**1844.00**
Formation	**Arbuckle**			Start Date/Time	**2/13/2011 10:24 PM**		
Interval Top	**3570.0**	Bottom	**3640.0**	End Date/Time	**2/14/2011 2:47 AM**		
Anchor Len Below	**70.0**	Between	**0**				
Total Depth	**3640.0**						

Blow Type **Weak 1/2 inch blow at the start of the initial flow period, building to 4 inches in 25 minutes. We lost packer seed before we turned the tool. I'm guessing we would have had a 4 to 5 inch blow. Times: 30, 0, 0, 0.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
65	Very slight oil cut mud	0% 0ft	1% 0.6ft	0% 0ft	99% 64.4ft
65	Mud with a very slight trace of oil	0% 0ft	trace	0% 0ft	100%65ft
245	Gassy mud with a very slight trace of oil	3% 7.4ft	trace	0% 0ft	97% 237.6ft

DST Fluids **0**



	Date	Time	Pressure	Temp	
IH	2/14/2011 12:02:40 AM	1.644444	1721.014	89.279	Initial Hydro-static
IF1	2/14/2011 12:06:40 AM	1.711111	79.998	90.49	Initial Flow (1)
IF2	2/14/2011 12:26:30 AM	2.041667	78.659	92.603	Initial Flow (2)
FH	2/14/2011 12:40:00 AM	2.266667	1729.201	96.346	Final Hydro-static

GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke

Company	**LD Drilling, Inc.**	Lease Name	**Austen/Bernice**		
Address	**7 SW 28th Ave.**	Lease #	**4-23**		
CSZ	**Great Bend, KS 67530**	Legal Desc	**E/2-SE-SE-SW**	Job Ticket	**2139**
Attn.	**Kim Shoemaker**	Section	**23**	Range	**12W**
		Township	**21S**		
		County	**Stafford**	State	**KS**
		Drilling Cont	**Petromark Drilling Rig #2**		

Comments **Field: Saundra**

GENERAL INFORMATION

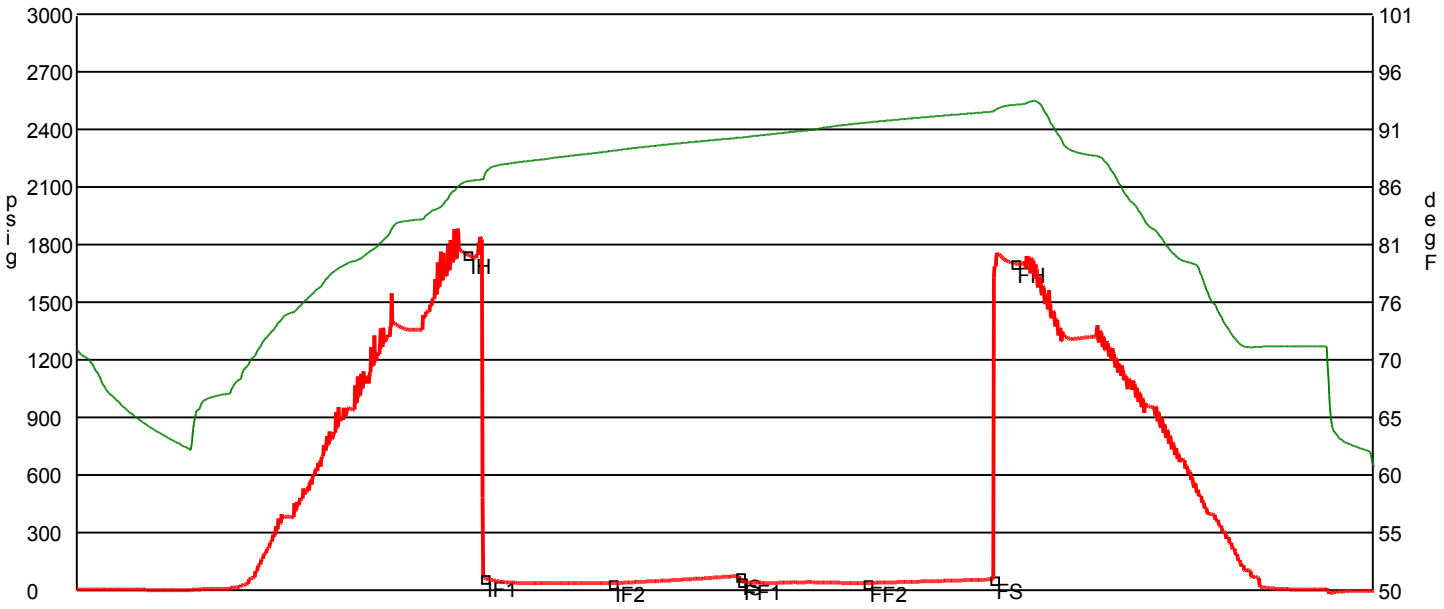
				Chokes	**3/4**	Hole Size	**7 7/8**
Test #	**5**	Test Date	**2/14/2011**	Top Recorder #	**W1119**		
Tester	**Tim Venters**			Mid Recorder #	**W1022**		
Test Type	**Conventional Bottom Hole Successful Test**			Bott Recorder #	**13310**		
# of Packers	**2.0**	Packer Size	**6 3/4**	Mileage	**0**	Approved By	
				Standby Time	**0**		
Mud Type	**Gel Chem**			Extra Equipmnt	**Jars & Safety joint**		
Mud Weight	**9.3**	Viscosity	**45.0**	Time on Site	**7:45 PM**		
Filtrate	**11.2**	Chlorides	**8600**	Tool Picked Up	**10:20 AM**		
				Tool Layed Dwn	**2:50 PM**		
Drill Collar Len	**120.0**						
Wght Pipe Len	**0**			Elevation	**1839.00**	Kelley Bushings	**1844.00**
Formation	**Arbuckle**			Start Date/Time	**2/14/2011 9:51 AM**		
Interval Top	**3628.0**	Bottom	**3650.0**	End Date/Time	**2/14/2011 2:55 PM**		
Anchor Len Below	**22.0**	Between	**0**				
Total Depth	**3650.0**						

Blow Type **Weak 1/2 inch blow at the start of the intial flow period, building to 1 1/2 inc hes in 10 minutes where it held the rest of the period. Weak surface blow at th e start of the final flow period, building to 1/4 inch. Weak surface blow back during the final shut-in period. Times: 30, 30, 30, 30.**

RECOVERY

Feet	Description	Gas	Oil	Water	Mud
30	Very slight oil cut mud	0% 0ft	1% 0.3ft	0% 0ft	99% 29.7ft

DST Fluids **0**



	Date	Time	Pressure	Temp	
IH	2/14/2011 11:21:50 AM	1.513889	1751.53	86.222	Initial Hydro-static
IF1	2/14/2011 11:25:50 AM	1.580556	66.091	86.558	Initial Flow (1)
IF2	2/14/2011 11:56:00 AM	2.083333	38.429	88.915	Initial Flow (2)
IS	2/14/2011 12:26:00 PM	2.583333	75.375	90.09	Initial Shut-In
FF1	2/14/2011 12:26:30 PM	2.591667	49.608	90.103	Final Flow (1)
FF2	2/14/2011 12:56:00 PM	3.083333	39.377	91.427	Final Flow (2)
FS	2/14/2011 1:25:50 PM	3.580556	57.774	92.401	Final Shut-In
FH	2/14/2011 1:30:50 PM	3.663889	1703.785	93.007	Final Hydro-static

GAS FLOWS

Min Into IFP	Min Into FFP	Gas Flows	Pressure	Choke

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 03606 A

23-21S-12W

DATE TICKET NO.

DATE OF JOB 2-8-11 DISTRICT Pratt, Kansas	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER L.D. Drilling, Incorporated	LEASE Austin/Bernice WELL NO. 4-23
ADDRESS	COUNTY Stafford STATE Kansas
CITY STATE	SERVICE CREW C. Messick; M. Mattal; D. Phye
AUTHORIZED BY	JOB TYPE: C.N.W. - Surface

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
37,216	.75				
19,903-19,909	.75				
19,960-19,918	.75				

	DATE	TIME
TRUCK CALLED	2-7-11	AM PM 9:45
ARRIVED AT JOB	2-7-11	AM PM 11:30
START OPERATION	2-8-11	AM PM 1:00
FINISH OPERATION	2-8-11	AM PM 1:45
RELEASED	2-8-11	AM PM 2:00
MILES FROM STATION TO WELL	45	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
P CP101	A Con Blend Cement	sk	175		$ 3,150 00
P CP100	Common Cement	sk	200		$ 3,200 00
P CC102	Cellflake	Lb	94		$ 347 80
P CC109	Calcium Chloride	Lb	1059		$ 1,111 95
P CC200	Cement Gel	Lb	376		$ 94 00
P CF153	Wooden Plug, 8 5/8"	ea	1		$ 160 00
P E100	Pickup Mileage	mi	45		$ 191 25
P E101	Heavy Equipment Mileage	mi	90		$ 630 00
P E113	Bulk Delivery	tm	794		$ 1,270 80
P CE200	Cement Pump: 0 Feet To 500 Feet	hrs	4		$ 1,000 00
P CE240	Blending and Mixing Service	sk	375		$ 525 00
P CE504	Plug Container	Job	1		$ 250 00
P S003	Service Supervisor	Job	1		$ 175 00

CHEMICAL / ACID DATA:			

SUB TOTAL DLS $ 8,474 06

SERVICE & EQUIPMENT	%TAX ON $	
MATERIALS	%TAX ON $	
	TOTAL	

SERVICE REPRESENTATIVE Clarence R. Messick

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASiC energy services, L.P.

TREATMENT REPORT

Customer	Lease No.	Date
L.D. Drilling, Incorporated		2-8-11
Lease: Austin/Bernice	Well # 4-23	

Field Order #	Station	Casing	Depth	County	State
3606	Pratt, Kansas	8 5/8 24Lb	353 Feet	Stafford	Kansas

Type Job	Formation	Legal Description
C.N.W.-Surface		23-21S-12W

PIPE DATA		PERFORATING DATA		Cement FLUID USED	TREATMENT RESUME		
Casing Size: 8 5/8 24Lb/Ft.	Tubing Size	Shots/Ft		175 sacks A Con with 3% Calcium Chloride, .25Lb/sk cellflake	RATE	PRESS	ISIP
Depth: 353 Feet	Depth	From	To	12.6Lb/Gal., 11.89 Gal./sk., 2.12 CU.F.T./sk.	Max		5 Min.
Volume: 22.5 Bbl.	Volume	From	To	200 sacks Common with 2% Gel, 3% Calcium Chloride, .25Lb/sk cellflake	Min		10 Min.
Max Press: 300 PSI	Max Press	From	To	15Lb/Gal., 6.13 Gal./sk., 1.34 CU.F.T./sk.	Avg		15 Min.
Well Connection: Plug Container	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 338 Feet	Packer Depth	From	To	Flush 21 Bbl. Fresh Water	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
Jim Nichols	David Scott	Clarence R. Messick

Service Units	37216	19903	19905	19960	19918
Driver Names	Messick	Mattal		Phye	

Time P.M.	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:30			Cementer on location		
11:30			Trucks on location and hold safety meeting.		
12:00	Petromark Drilling start to run 8 Joints new 24Lb/Ft. 8 5/8" casing.				
12:50					Casing in well. Circulate for 5 minutes.
1:00	300			5	Start Fresh Water Pre-Flush.
	300		10	5	Start mixing 175 sacks A Con cement.
	150		76	5	Start mixing 200 sacks common cement.
	0		123		Stop pumping. Shut in well. Release Wooden
					Plug. Open Well.
1:30	100			5	Start Fresh Water Displacement.
1:35	300		21		Plug down. Shut in well.
					Circulated 5 sacks cement to the pit.
					Wash up pump truck.
					Job Complete.
					Thank You.
					Clarence, Mike, Dale

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET

1718 03701 A

DATE TICKET NO.

DATE OF JOB 2-15-11 DISTRICT Pratt	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER L. D. Drilling	LEASE Austin/Bernice WELL NO. 4-23
ADDRESS	COUNTY Barton STATE KS
CITY STATE	SERVICE CREW Orlando, Veatch, M. McGraw
AUTHORIZED BY	JOB TYPE: CNW - 5½ L.S.

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
27283	1				
27463	1				
19826/19860	1				

TRUCK CALLED	DATE 2-15-11	AM/PM TIME 1:00
ARRIVED AT JOB		AM/PM 2:30
START OPERATION		AM/PM 7:00
FINISH OPERATION		AM/PM 8:00
RELEASED		AM/PM 8:30
MILES FROM STATION TO WELL		45

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP103	60/40 Poz	SK	150		1800 00
CP103	60/40 Poz	SK	30		360 00
CC102	Cellflake	Lb	38		140 60
CC111	Salt	Lb	1334		667 00
CC112	Friction Reducer	Lb	65		390 00
CC201	Gilsonite	Lb	250		502 50
CF163	Top Rubber Plug 5½	ea	1		105 00
CF251	Guide Shoe 5½	ea	1		250 00
CF1451	Flapper Type Insert 5½	ea	1		215 00
CF1651	Turbolizer	ea	5		550 00
C704	KCL Substitute	Gal	1		35 00
CC151	Mud Flush	Gal	500		430 00
E100	Pickup Mileage	mi	45		191 25
E101	Heavy Equipment Mileage	mi	90		630 00
E113	Bulk Delivery	Tm	34½		558 00
CE204	Depth Charge 3001-4000'	ea	1		2160 00
CE240	Cement Service Charge	SK	180		252 00
CE504	Plug Container	ea	1		250 00
5003	Service Supervisor	ea	1		175 00
				SUB TOTAL DLS	6956 17
				SERVICE & EQUIPMENT %TAX ON $	
				MATERIALS %TAX ON $	
				TOTAL	

CHEMICAL / ACID DATA:			

SERVICE REPRESENTATIVE Steve Orlando	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: _____ (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

BASiC energy services, L.P.

TREATMENT REPORT

Customer: L.D. Drilling	Lease No.	Date: 2-15-11
Lease: Austin/Barnes	Well #: 4-23	

Field Order #	Station	Casing	Depth	County	State
3701	Pratt	5 1/2	3677	Barton	KS

Type Job	Formation	Legal Description
CNW-5 1/2 L.S.		23-21-12

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size: 5 1/2	Tubing Size	Shots/Ft		Acid: 150sks 60/40 Poz	RATE	PRESS	ISIP
Depth: 3677	Depth	From	To	Pre Pad	Max		5 Min.
Volume: 87.5	Volume	From	To 30sks	Pad: 60/40 Poz	Min		10 Min.
Max Press: 1500	Max Press	From	To	Frac: RH	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth: 3641	Packer Depth	From	To	Flush: 86.7	Gas Volume		Total Load

Customer Representative	Station Manager	Treater
L.D. Davis	Dave Scott	Steve Orlando

Service Units	27283	27463	19826/19860							
Driver Names	Orlando	Veatch	M. McGraw							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:00 AM					On location - Safety meeting
					Run 86 jts 5 1/2 Casing
					Centralizers 1-3-5-7-9
					Casing On Bottom
					Break Circ w/ Rig
7:07	300		20	5	KCL H2O Ahead
7:11	300		12	5	Mud Flush
7:14	300		3	5	H2O Spacer
7:15	250		38	5	mix 150sks 60/40 Poz @ 15.4#/gal
					Shut Down
					Clean pump & Line
					Release plug
7:30	0		0	6	Start H2O Displacement
7:41	400		65	5	Lift pressure
7:43	600		75	4	Slow Rate
7:45 am	1500		86.7	4	plug Down - Didn't Hold
	1800				re pressure up release quickly - Not Hold
					Close In with 400#
			6		Plug RH w/30sks 60/40 Poz
					Wash pump & lines
	1800				re pressure release back to 500#
					Close In Job Complete

10244 NE Hiway 61 • P.O. Box 8613 • Pratt, KS 67124-8613 • (620) 672-1201 • Fax (620) 672-5383

KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY	L. D. DRILLING, INC.
LEASE	#4-23 AUSTIN / BERNICE
FIELD	SAUNDRA
LOCATION	330' FSL & 2558' FWL
SEC 23	TWSP 21s RGE 12w
COUNTY STAFFORD	STATE KANSAS
CONTRACTOR	PETROMARK DRILLING, RIG 2
SPUD 2-7-11	COMP 2-15-11
RTD 3675 *	LTD 3648
MUD UP 2823 CHEMICAL	TYPE MUD CHEMICAL

ELEVATIONS

KB 1839

DF

GL 1834

Measurements Are All From 1839 KB

CASING

SURFACE 8 5/8" @ 348'

PRODUCTION 5 1/2" @

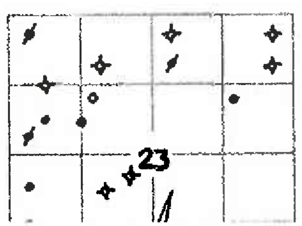
ELECTRICAL SURVEYS

Dual Ind., Dens.-N., Micro

	FROM	TO
SAMPLES SAVED FROM	3000	3650
DRILLING TIME KEPT FROM	2750	3675
SAMPLES EXAMINED FROM	3000	3650
GEOLOGICAL SUPERVISION FROM	3200	3650

GEOLOGIST ON WELL Kim B. Shoemaker

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	606 + 1233	
TOPEKA	2811 - 972	2811 - 972
HEEBNER	3098 - 1259	3102 - 1263
BROWN LIME	3226 - 1387	3227 - 1388
LANSING	3248 - 1409	3248 - 1409
BKC	3478 - 1639	3487 - 1648
VIOLA	3518 - 1679	3513 - 1674



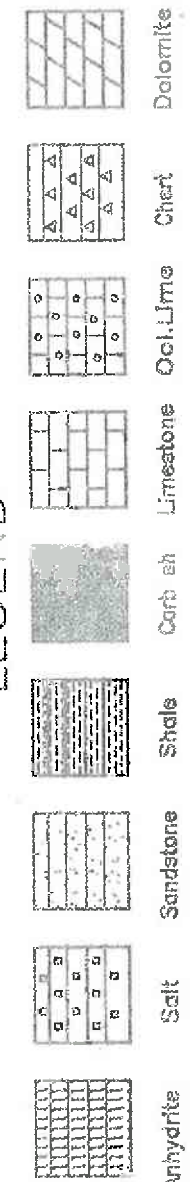
API: 15-185-23667

TD @ Log: 3650 drilled 25' (feet) to 3675 after Log.

KS

800 352' 639' 524' 235' 403' 535' 650' 675'

LEGEND



REMARKS

SAMPLE DESCRIPTIONS

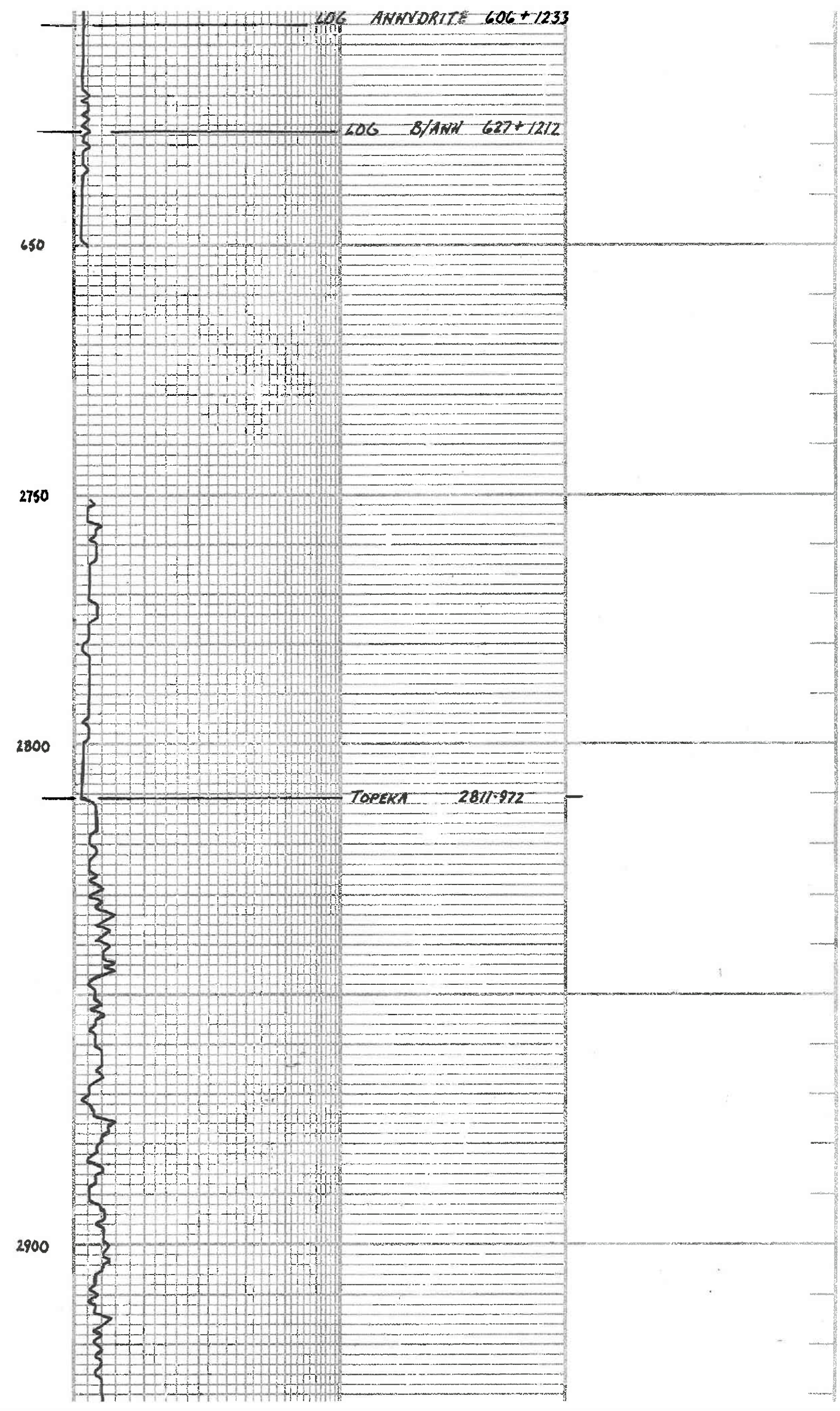
DRILLING TIME IN MINUTES PER FOOT

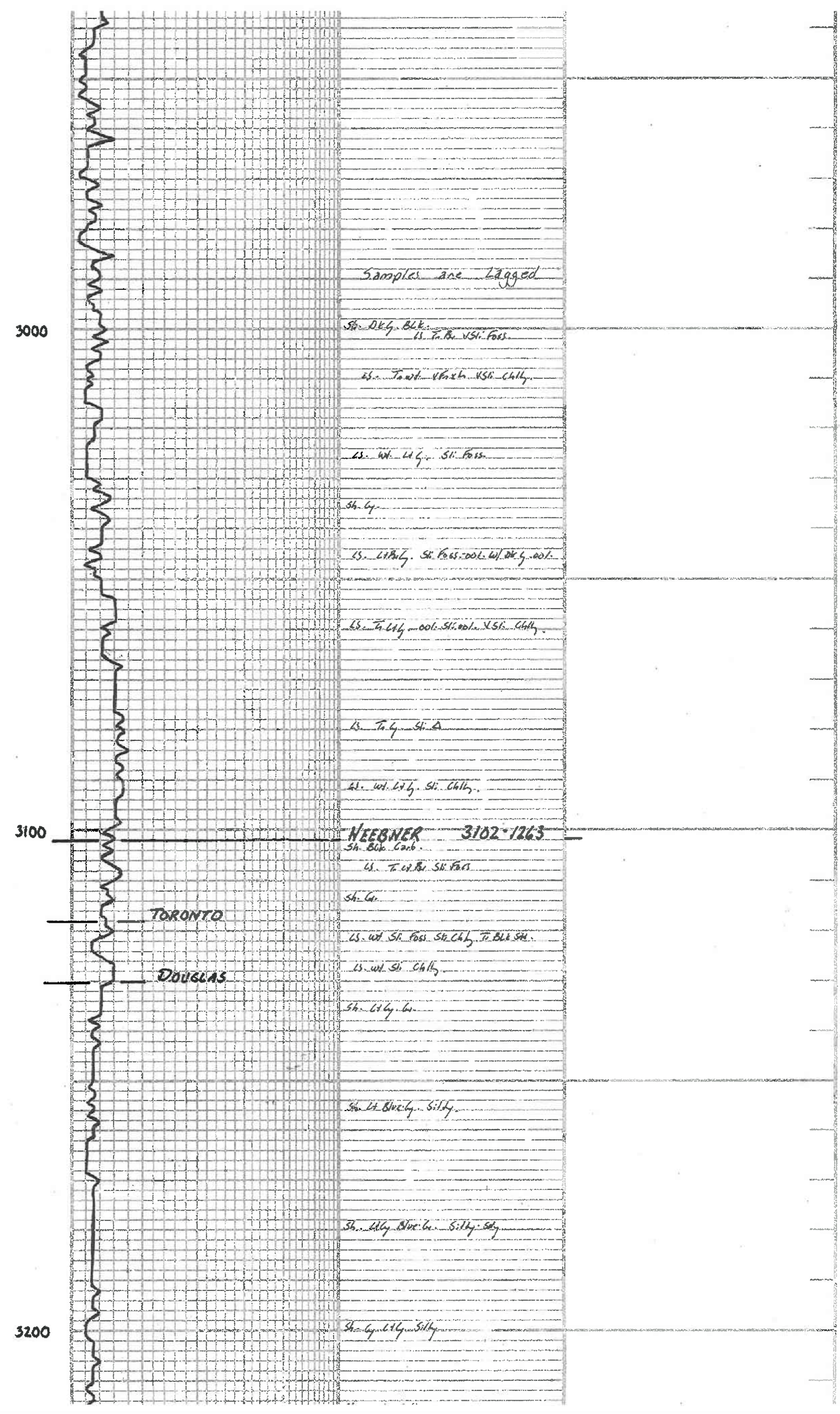
Rate of Penetration Increases

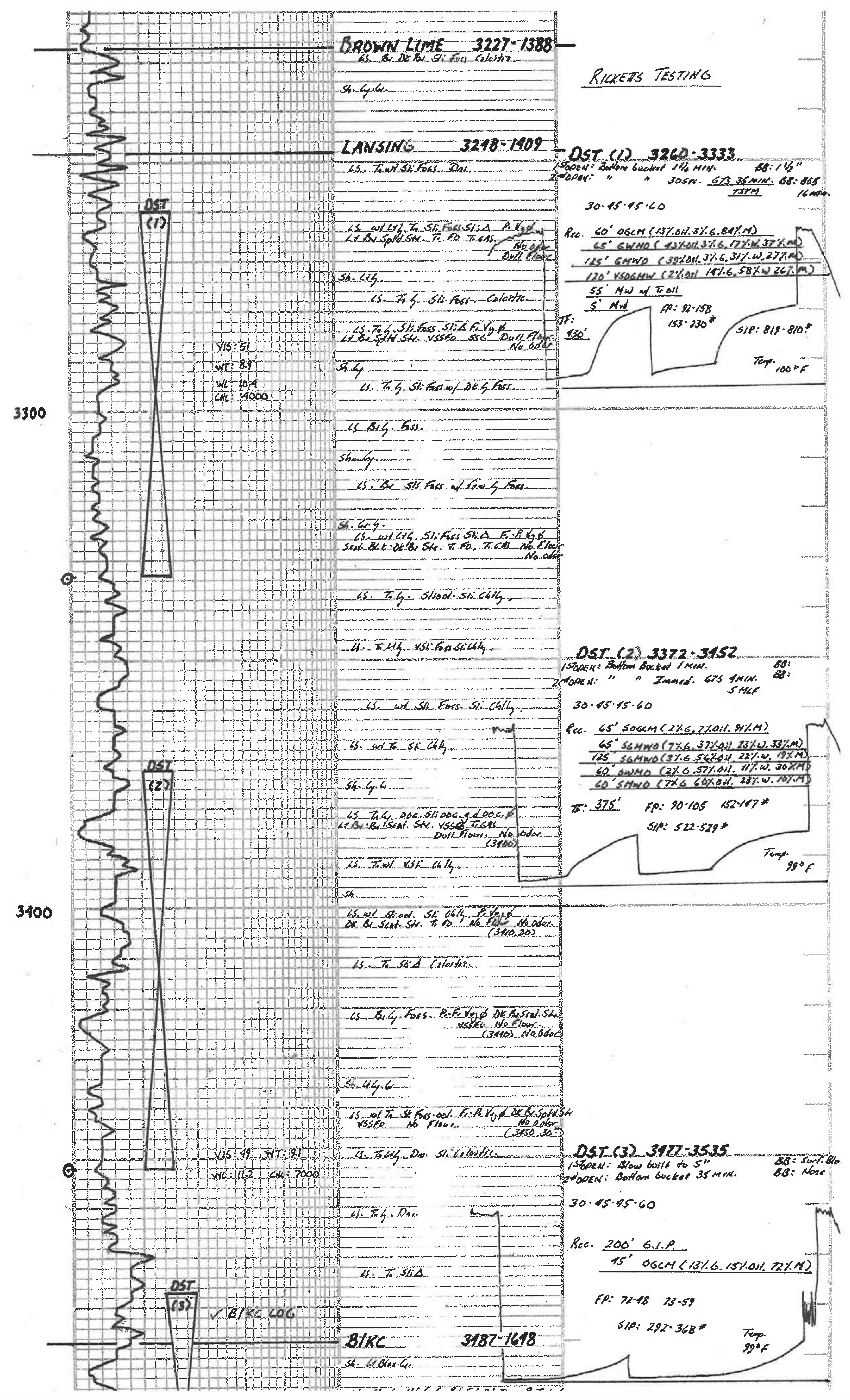
5" 10" 15" 20" 25"

DEPTH 550

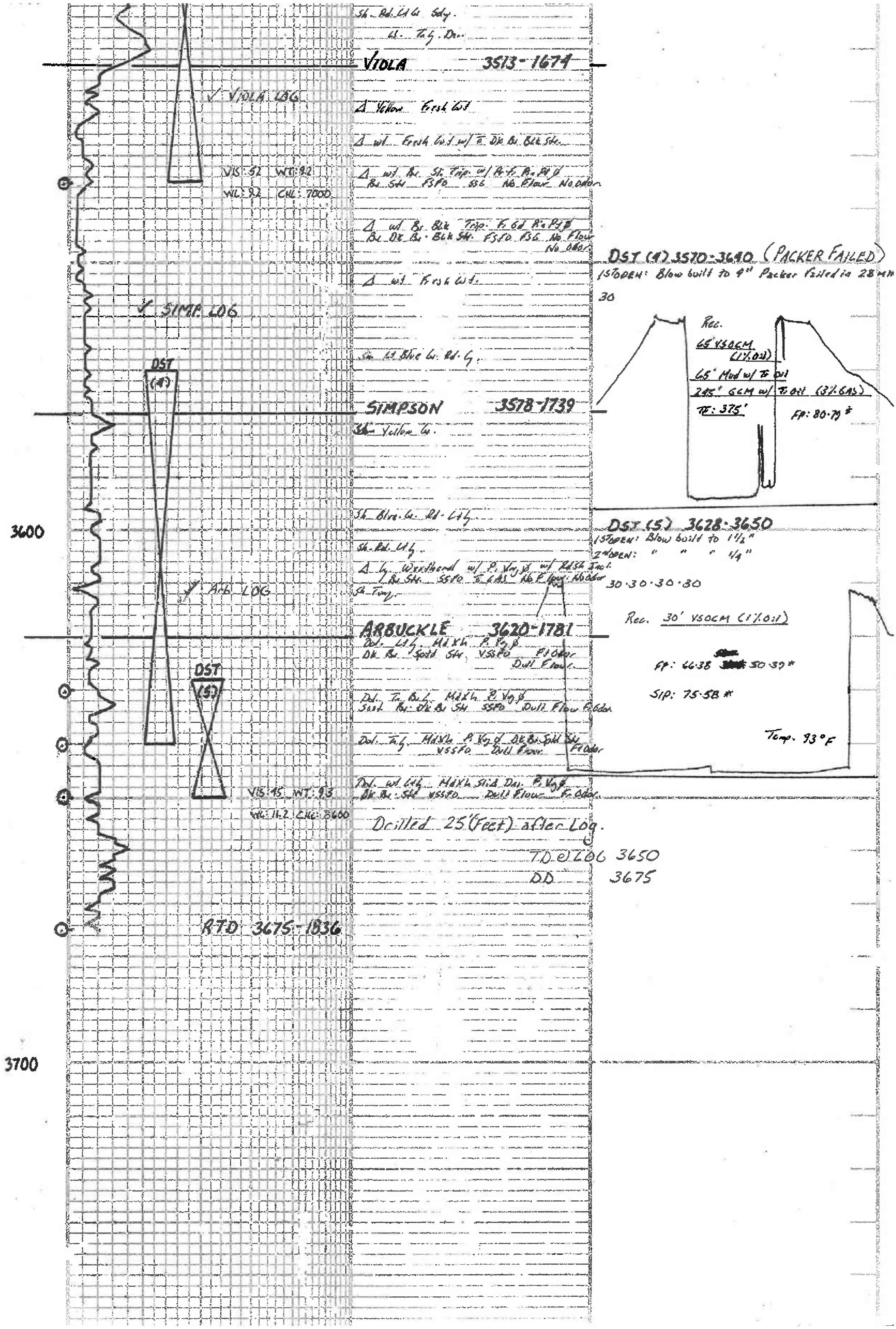
600


LOG ANHYDRITE 606 + 1233
LOG B/ANH 627 + 1212
650
2750
2800
TOPEKA 2811-972
2900


Samples are Lagged
Sh. Dk Gy. Blk.
Ls. Tn. Br. vSli. Foss.
Ls. Tn wh. vFxln vSli. Chlky.
Ls. Wh. Lt Gy. Sli. Foss.
Sh. Gy.
Ls. Lt Br Gy. Sli. Foss. ool. w/ Dk Gy. ool.
Ls. Tn Lt Gy. ool. Sli. ool. vSli. Chlky.
Ls. Tn Gy. Sli. O
Ls. Wh. Lt Gy. Sli. Chlky.
NEEBNER 3102-1263
Sh. Blk. Carb.
Ls. Tn Lt Br. Sli. Foss.
Sh. Gy.
Ls. Wh Sli. Foss. Sli. Chlky. Tn Blk Sh.
Ls. wh. Sli. Chlky.
Sh. Lt Gy. Gn.
Sh. Lt Blue Gy. Silty.
Sh. Lt Gy Blue Gn. Silty. Sdy.
Sh. Gy. Lt Gy. Silty.
TORONTO
DOUGLAS
3000
3100
3200



BROWN LIME 3227-1388
LANSING 3248-1409
B/KC 3487-1648
Rickets Testing
DST (1) 3260-3333
1st open: Bottom bucket 1½ min. BB: 1½"
2nd open: " " 30 sec. GTS 35 min. BB: 868
30-45-45-60
Rec. 60' OGCM (13% oil, 3% G, 84% M)
65' GWMO (43% oil, 3% G, 17% W, 37% M)
125' GMWO (39% oil, 3% G, 31% W, 27% M)
120' VSOGMW (2% oil, 14% G, 58% W, 26% M)
55' MW w/ Tr oil
5' Mud
FP: 92-158
153-230#
SIP: 819-810#
Temp. 100° F
DST (2) 3372-3452
1st open: Bottom bucket 1 min.
2nd open: " " Immed. GTS 4 min. 5 MCF
30-45-45-60
Rec. 65' SOGCM (2% G, 7% oil, 91% M)
65' SGMWO (7% G, 37% oil, 23% W, 33% M)
125' SGMWO (3% G, 56% oil, 22% W, 19% M)
60' GWMO (2% G, 57% oil, 11% W, 30% M)
60' SMWO (7% G, 60% oil, 23% W, 10% M)
TF: 375'
FP: 90-105 152-197#
SIP: 522-529#
Temp. 99° F
DST (3) 3477-3535
1st open: Blow built to 5" BB: Surf. Blo
2nd open: Bottom bucket 35 min. BB: None
30-45-45-60
Rec. 200' G.I.P.
15' OGCM (13% G, 15% oil, 72% M)
FP: 72-48 73-59
SIP: 292-368#
Temp. 99° F
VIS: 51
WT: 8.9
WL: 10.4
CHL: 4000
VIS: 49 WT: 9.1
WL: 11.2 CHL: 7000
DST (1)
DST (2)
DST (3)
✓ B/KC LOG
3300
3400



VIOLA 3513-1674
✓ VIOLA LOG
VIS: 52 WT: 9.2
WL: 9.2 CHL: 7000
✓ SIMP. LOG
DST (4)
SIMPSON 3578-1739
3600
✓ Arb LOG
ARBUCKLE 3620-1781
DST (5)
VIS: 45 WT: 9.3
WL: 11.2 CHL: 8600
Drilled 25 (Feet) after Log.
TD @ LOG 3650
DD 3675
RTD 3675-1836
3700
DST (4) 3570-3640 (PACKER FAILED)
1st OPEN: Blow built to 4" Packer Failed in 28 min
30
Rec.
65' VSOCM (1% Oil)
65' Mud w/ Tr Oil
245' GCM w/ Tr Oil (3% GAS)
TF: 375'
FP: 80-79 #
DST (5) 3628-3650
1st OPEN: Blow built to 1 1/2"
2nd OPEN: " " " 1/4"
30-30-30-30
Rec. 30' VSOCM (1% Oil)
FP: 66-38 50-39 #
SIP: 75-58 #
Temp. 93°F