



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

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 #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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:

 Log Formation (Top), Depth and Datum Sample
 Name Top Datum
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

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				

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

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 (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Earl B 1-6
Doc ID	1065737

All Electric Logs Run

Dual Induction Log
Dual Compensated Porosity Log
Borehole Compensated Sonic Log
Microresistivity Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Earl B 1-6
Doc ID	1065737

Tops

Name	Top	Datum
Heebner Shale (base)	3978	-1019
Toronto	3989	-1030
Lansing	4016	-1057
Marmaton	4610	-1651
Cherokee	4747	-1788
Morrow	5008	-2049
Chester	5140	-2181
St Genevieve	5180	-2221
St. Louis	5225	-2266
RTD	5389	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

October 20, 2011

Evan Mayhew
BEREXCO LLC
2020 N. BRAMBLEWOOD
WICHITA, KS 67206-1094

Re: ACO1
API 15-081-21964-00-00
Earl B 1-6
NW/4 Sec.06-27S-33W
Haskell County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Evan Mayhew



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita Ks, 67206
ATTN: Ed Grieves

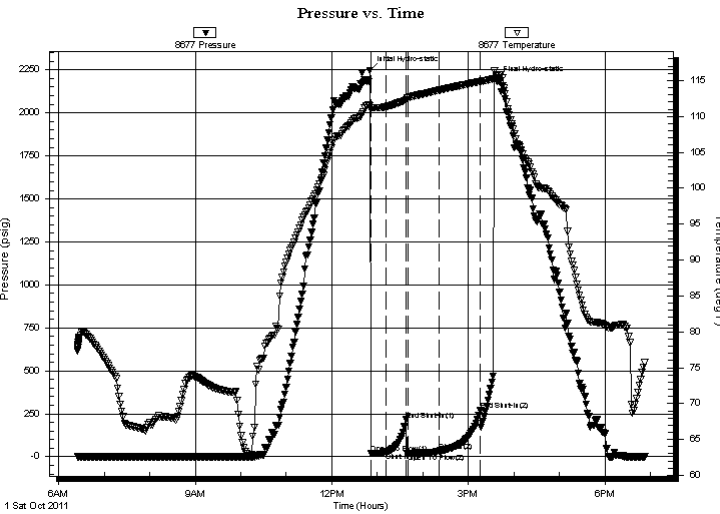
6/27s/33w
Earl 'B' #1-6
Job Ticket: 42271 **DST#: 1**
Test Start: 2011.10.01 @ 06:25:02

GENERAL INFORMATION:

Formation: **Marmaton 'B'**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:52:02
Time Test Ended: 18:52:47
Interval: **4627.00 ft (KB) To 4639.00 ft (KB) (TVD)**
Total Depth: 4639.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Good
Test Type: Conventional Bottom Hole (Initial)
Tester: Mike Slempp
Unit No: 53
Reference Elevations: 2958.00 ft (KB)
2946.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 8677 Inside
Press @ RunDepth: 32.29 psig @ 4629.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.01 End Date: 2011.10.01 Last Calib.: 2011.10.01
Start Time: 06:25:03 End Time: 18:52:47 Time On Btm: 2011.10.01 @ 12:50:17
Time Off Btm: 2011.10.01 @ 15:36:32

TEST COMMENT: IF- Weak surface blow for 30 seconds, then died
IS- No blow back
FF- No blow
FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.45	111.52	Initial Hydro-static
2	18.95	110.97	Open To Flow (1)
21	26.86	111.34	Shut-In(1)
48	215.44	112.26	End Shut-In(1)
51	21.79	112.65	Open To Flow (2)
91	32.29	113.65	Shut-In(2)
146	268.46	114.88	End Shut-In(2)
167	2190.86	115.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	100% mud	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

6/27s/33w

2020 N Bramblewood
Wichita Ks, 67206

Earl 'B' #1-6

Job Ticket: 42271

DST#: 1

ATTN: Ed Grieves

Test Start: 2011.10.01 @ 06:25:02

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:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	100% mud	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

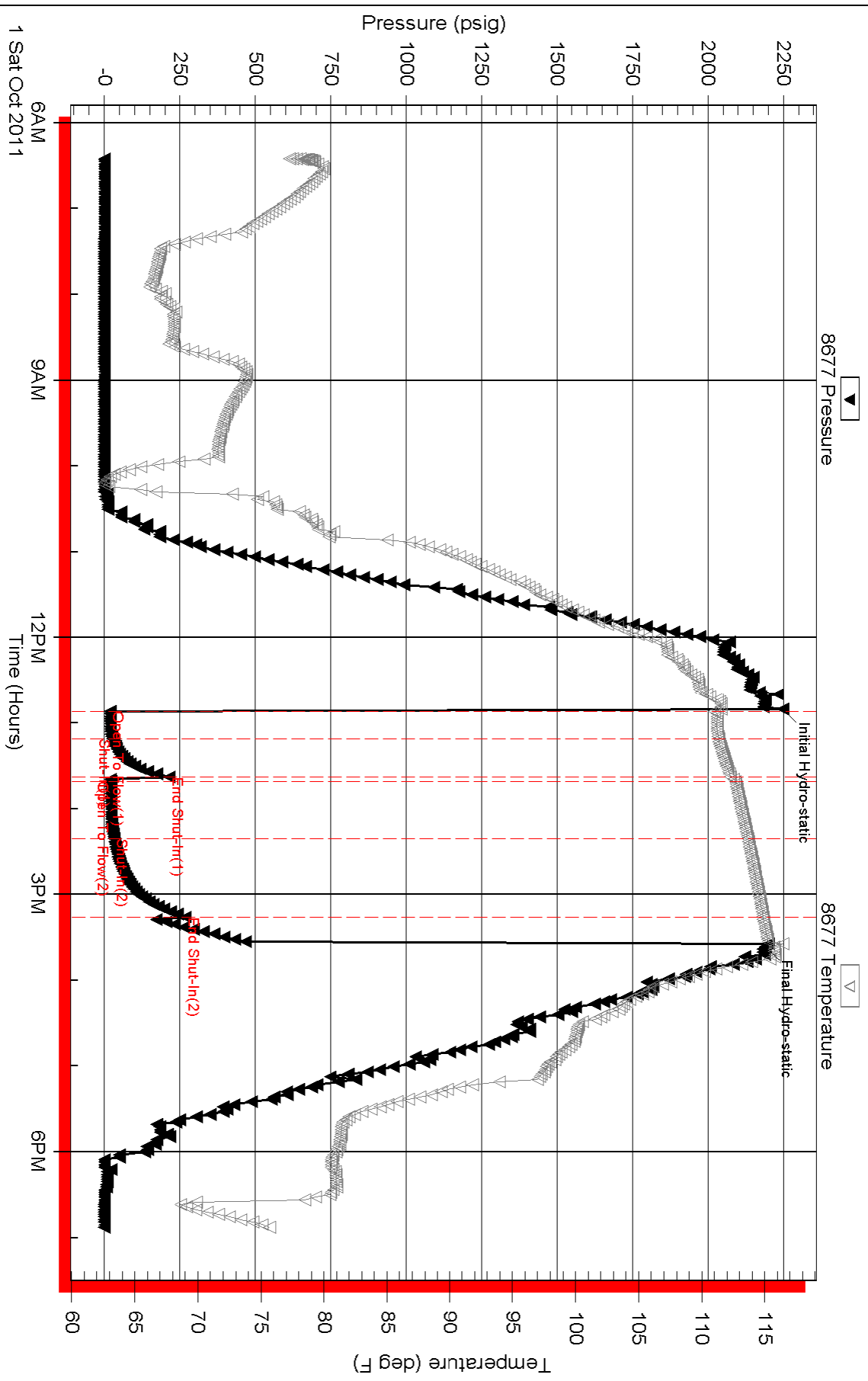
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Berexco LLC
2020 N Bramblewood
Wichita Ks, 67206
ATTN: Ed Grieves

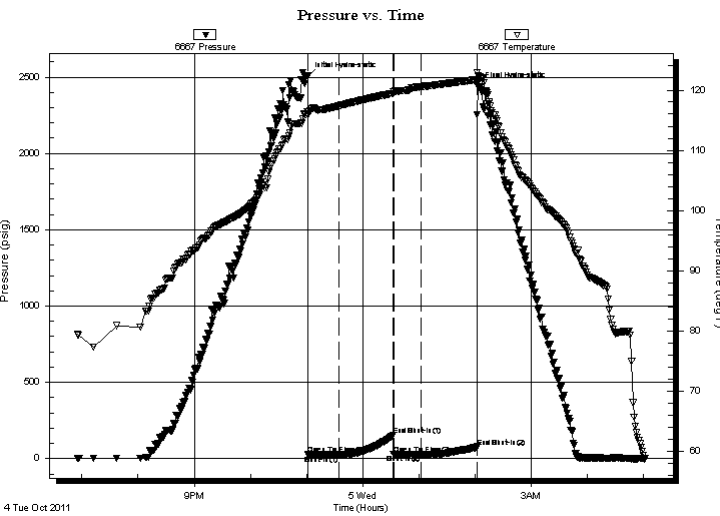
6/27s/33w Haskell, Ks
Earl 'B' #1-6
Job Ticket: 44398 **DST#: 2**
Test Start: 2011.10.04 @ 18:55:40

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:01:10
Time Test Ended: 05:15:55
Interval: **5091.00 ft (KB) To 5110.00 ft (KB) (TVD)**
Total Depth: 5110.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Shane McBride
Unit No: 55
Reference Elevations: 2958.00 ft (KB)
2946.00 ft (CF)
KB to GR/CF: 12.00 ft

Serial #: 6667 Inside
Press @ RunDepth: 26.09 psig @ 5092.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.10.04 End Date: 2011.10.05 Last Calib.: 2011.10.05
Start Time: 18:55:40 End Time: 05:01:55 Time On Btm: 2011.10.04 @ 23:00:55
Time Off Btm: 2011.10.05 @ 02:02:55

TEST COMMENT: 1/8" in blow died in 25 min
No return
No blow
No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2506.76	116.42	Initial Hydro-static
1	25.77	115.84	Open To Flow (1)
34	24.19	117.36	Shut-In(1)
92	151.00	119.46	End Shut-In(1)
92	26.83	119.65	Open To Flow (2)
122	26.09	120.55	Shut-In(2)
181	76.73	121.74	End Shut-In(2)
182	2440.07	122.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	mud 100% m	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

6/27s/33w Haskell, Ks

2020 N Bramblewood
Wichita Ks, 67206

Earl 'B' #1-6

Job Ticket: 44398

DST#: 2

ATTN: Ed Grieves

Test Start: 2011.10.04 @ 18:55:40

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	mud 100%m	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

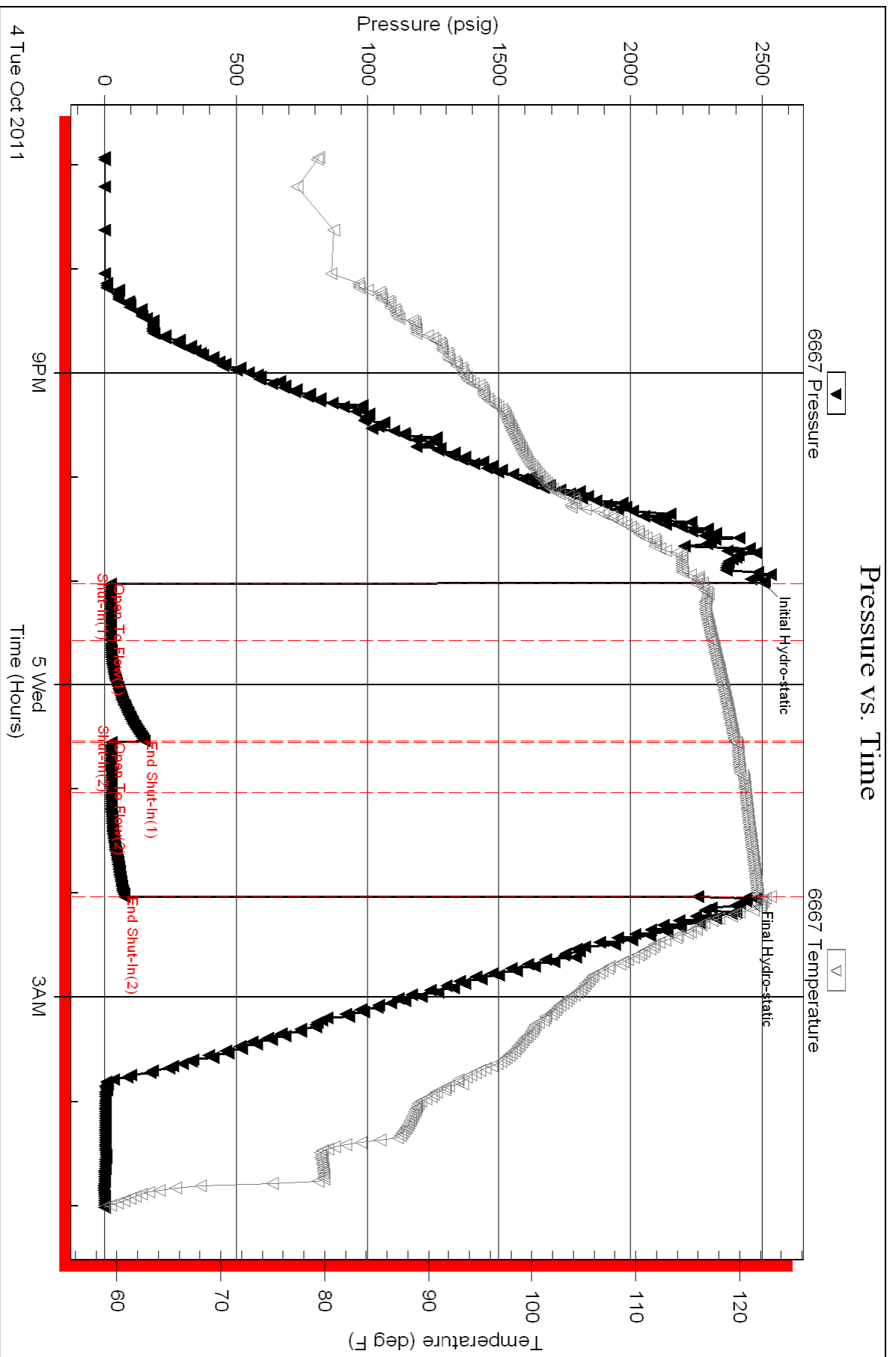
Serial #: 6667

Inside

Berexco LLC

Earl B/#1-6

DST Test Number: 2



GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY BEREXCO LLC NO. 1-6
 LEASE EARL "B" LOCATION 1980' FNL & 1980' FWL
 SEC. 6 TWP. 27S RNG. 33W
 COUNTY HASKELL STATE KANSAS
 FIELD WILDCAT

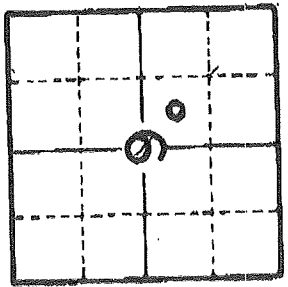
CONTRACTOR BEREXCO DRILG. BIG NO 2
 COMM. 9-21-2011 COMP. 10-8-2011
 RTD 5390 LTD _____
 No. of DST'S 2 No. of CORES NONE

ELEVATIONS
 KB 2959
 DF 2956
 GL 2946
 MEASUREMENTS ARE
 ALL FROM KB

SPACING RECORD
 8/8 of 1810' w/ _____ SX.
 of _____ w/ _____ SX.
 of _____ w/ _____ SX.
 EL LOG INDSP-GR
DENNETT-GR-CALIPER
ML

SAMPLES SAVED FROM 3800 TO TD
 DRILLING TIME KEPT FROM 3800 TO TD
 SAMPLES EXAMINED FROM 3800 TO TD
 GEOLOGICAL SUPERVISION FROM 3800 TO TD
 GEOLOGIST ON WELL EDWIN H. GRIEVES

FORMATION TOPS	SAMPLE	LOG	SUBSEA
BASE HEIBNER	3983		
TORONTO	3943		
LANSING FM	4022		
MARMATON	4600		
CHEROKEE FM	4751		
MORROW FM	5020		
CHESTER FM	5142		
ST GENEVIEVE	5182		
ST LOUIS	5227		
TD	5390		



API NO. 15-081-2964

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3800 feet to total depth.

Edwin H. Grievess

Interbedded Limestones

① Faster Dalg Lms. trs. to abu. wht. to cream-chlk & tan; crypto. to v.v. fn. xln; sub-chlk; sub-sucro to sucro; phantom oolitic IP's to trs. oolitic; sli. trs. foss; dul. H. to H. yel. fluor; No cut; abu. pr. to tr. & trs. good; micro-p.p. por. + prob. interxn. por. IP's

② Slower Dalg. Lms. tan, grayish. IP's crypto. to v.v. fn. xln; sub-chlk, sub-sucro and packstr. dul. H. yel. fluor; No cut; No vis por

③ trs. Chert wht, gray to tan; mottled IP's; opaque

Lms. abu. to extrly abu. wht. to cream-chlk & tan, grayish. IP's; crypto to v.v. fn. xln; sub-chlk, sub-sucro to v. sucro + traces packstr. IP's; phantom oolitic IP's to trs. oolitic IP's; dul. H. to H. yel. fluor; No cut; hvy. trs. pr., trs. fr. + sli. trs. good; micro-p.p. por + poss. interxn. por. IP's w/sli. trs. Chert wht, gray to tan; opaque

Sh. black-carb.

Sh. H. gray, greenish IP's to trs olive green; mush

Lms. hvy. trs. wht. to GRM. chalk & tan crypto. to v.v. fn. xln; sub-chlk, sub-sucro. to v. sucro; dul. H. to H. yel. fluor; No cut abu. pr. to trs. fr. good. micro-pp + poss. interxn. por w/trs Chert GRM, opaque

Lms. H. gray to grayish-tan; crypto. to v.v. fn. xln; sli. IP's; sub-chlk/or shly; sub-sucro

Buse Hecker
3988-1024
B.K. 31. 20. 0

Tosco
3993-1034

1993-1034

Lms. hv. trs. wht. to CRM. chalk & tan
crypto. to v.v. fn. xln.; sub-chlk, sub-sucro.
For. sucro; dul. H. to H. yel. fluor; No cut
abn. pr. to trs. fr. fogd. y. micro-p. + poss.
interxln. por w/ trs. Cheat CRM, opaque
Lms. H. gray to grayish. tan; crypto. to v.v. fn.
xln.; shly IP's; sub-chlk for shly; sub-sucro
& packstn; dul. H. yel. fluor; No cut; No vis por

4000

Landing For.
4022-1063

Lms. similar 3993-4011, phantom oolitic
IP's to trs. oolitic w/ abn. pr. to tr. and
trs. gd. to excel. micro-p. + prob. interxln
por.; No show

Lms. similar 4011-4022

C21

Lms trs. to abn. wht. to cam-chlk and
H. tan to tan; sub-chlk, sub-sucro. to
trs. sucro & packstn; abn. phantom oolitic
to abn. oolitic; dul. H. to H. yel. fluor; No cut
shly trs. poor micro-p. por. IP's

Lms. tan, grayish. IP's; crypto. to v.v. fn. xln.
trs. sub-chlk, sub-sucro & packstn; dul. H. yel.
fluor; No cut; No vis por.

4100

Lms. hv. trs. wht. to CRM. chalk & tan; crypto. to
v.v. fn. xln.; shly trs. sub-chlk, sub-sucro, sucro,
ext. oolitic foresti oolitic; dul. yel. to yel. glau.
yel. trs. yel. fluor; No cut; abn. excel. oolitic
por.; Prob. No Perm; shly trs. Cheat H. to med. gray, pp.

Lms. similar 4100-4116 becoming
less oolitic & more oolitic

Lms. H. gray to tan; crypto. to v.v. fn. xln.; trs. sub-chlk,
sub-sucro & packstn; dul. yel. fluor. IP's,
No cut; No vis por

Lms. tan, trs. grayish; crypto. to v.v. fn. xln.; trs.
sub-chlk, sub-sucro to v. sucro; dul. H. to H. yel. fluor
abn. pr. to trs. fr. to gd. micro-p. + prob. interxln
por. w/ shly trs. Cheat gray - opaque

Interbedded Limestones

① Foster Delq. Lms. wht., cam. to H. tan-chlk
& tan, grayish. IP's; crypto. to v.v. fn. xln.;
sub-chlk, sub-sucro to shly trs. sucro &
packstn; trs. phantom oolitic to trs. oolitic
dul. H. to H. yel. fluor; No cut; hv. trs. pr.
to trs. fr. micro-p. por. + poss. interxln
por. IP's

4200

② Slower Delq. Lms. trs. med. gray & H. gray.
to tan; crypto. to v.v. fn. xln.; sub-chlk,
sub-sucro & packstn; IP's phantom

to trs. fr. micro-p.p. por + poss. interstr. por. IP's

4200

(2) Slower Delq. Lms. trs. med. gray + lt. gray. to tan; crypto. to v.v. fn. xln; sub-chlk, sub-sucro. + packstn; IP's phantom oolitic to oolitic; dul. yel. fluor; No cut No Vis. Por.

Lms. hvy trs. to abn. wht. to cream-chlk + tan, grayish IP's; crypto. to v.v. fn. xln; sub-chlk, sub-sucro. to sucro. + packstn; phantom oolitic to extaly oolitic; dul. yel. to dul. lt. yel. + trs. yel. fluor. No cut; abn. pr. to fr + trs. gd oolitic pin point + micro-pin point por / w poss. inter xln. por. IP's.

Lms. grayish. tan to tan; crypto. to v.v. fn. xln; trs. sub-chlk, sub-sucro + packstn; trs. phantom oolitic to trs. oolitic; dul. yel. to dul. lt. yel. fluor; No cut; No Vis Por

4300

Lms. similar 4291-4309 w/ abn wht to cream-chlk

Lms. similar 4291-4309

Sh black-lark

BLK. SP. 6 U

Interbedded Limestones

(1) Faster Delq. Lms. trs. to abn. wht. to cream chlk + tan, grayish. IP's; crypto. to v.v. fn. xln; sub-chlk, sub-sucro. to trs. sucro + packstn; IP's trs. phantom oolitic to trs. oolitic; and/or IP's trs. phantom oolitic to trs. oolitic; dul. lt. to trs. lt. yel. fluor; No cut; abn. pr. to fr + trs. gd. oolitic; pin point, micro-pin point + prob. inter xln. por.;

(2) Slower Delq. Lms. lt. to med. gray-shly. to tan; crypto. to v.v. fn. xln; sub-chlk and/or shly. grung. to extaly. calc shs. to sub-sucro + packstn; dul. yel. fluor. IP's; No cut; No Vis Por

Lms. hvy trs. wht. to cream chlk + tan grayish IP's; crypto. to v.v. fn. xln; sub-chlk, sub-sucro to sucro; phantom oolitic IP's to hvy trs oolitic; dul. lt. to lt. yel. fluor; No cut; abn. pr. to fr + trs. gd. micro-p.p. poss. interstr. por

4400

Lms. lt. gray. to tan; crypto. to v.v. fn. xln; sub-chlk sub-sucro, packstn + trs. sub-lithoga; trs. phantom oolitic to trs. oolitic; dul. lt. to trs. lt. yel. fluor; No cut; No Vis. Por.

to sug. l. o; phanton oolitic IP's to hv. trs
oolitic, dul. H. to H. yel. fluor.; No cut; abu.
pr. to pr. + trs. qd. micro p. p. p. s. inter xln por
lms. H. gray to tan; crypta to v. v. xln; sub chlk
sub succro, pachsta + trs. sub lithogr; trs phanton
oolitic to trs. oolitic; dul. H. to trs. H. yel. fluor;
No cut; No Vis. Por.

Lms. hv. trs. wht. to crim. chlk + tan grayish IP's
crypto. to v. v. fin. xln; sub chlk, sub succro. to succro +
pachsta; trs. phanton oolitic to trs. oolitic
Por trs. phanton oolitic to trs. oolitic;
dul. H. yel. fluor.; No cut; abu. pr. to frt
trs. qd. oolitic, p. p. p. p. p. s. inter xln por.

Lms. similar 4404 - 4421

Sh. black - carb
Lms. H. to med. gray shly. to tan; crypto to
v. v. fin. xln; sub succro, pachsta; trs. sub lithogr
dul. H. yel. fluor. IP's; No cut; No Vis Por

Interbedded Limestones

D Faster Delg. Lms. wht. to tan gray. - chlk + tan
grayish, IP's; crypto. to v. v. fin. xln; sub chlk,
sub succro. to succro; trs. phanton oolitic
to trs. oolitic; dul. H. yel. fluor.; No cut;
No Vis Por; trs. v. poor to poor micro p.
por. IP's

D Slower Delg. Lms. H. gray to tan; crypto. to
v. v. fin. xln; trs. sub chlk, sub succro, pachsta
+ sub lithogr.; dul. H. yel. fluor.; No cut; No Vis Por.

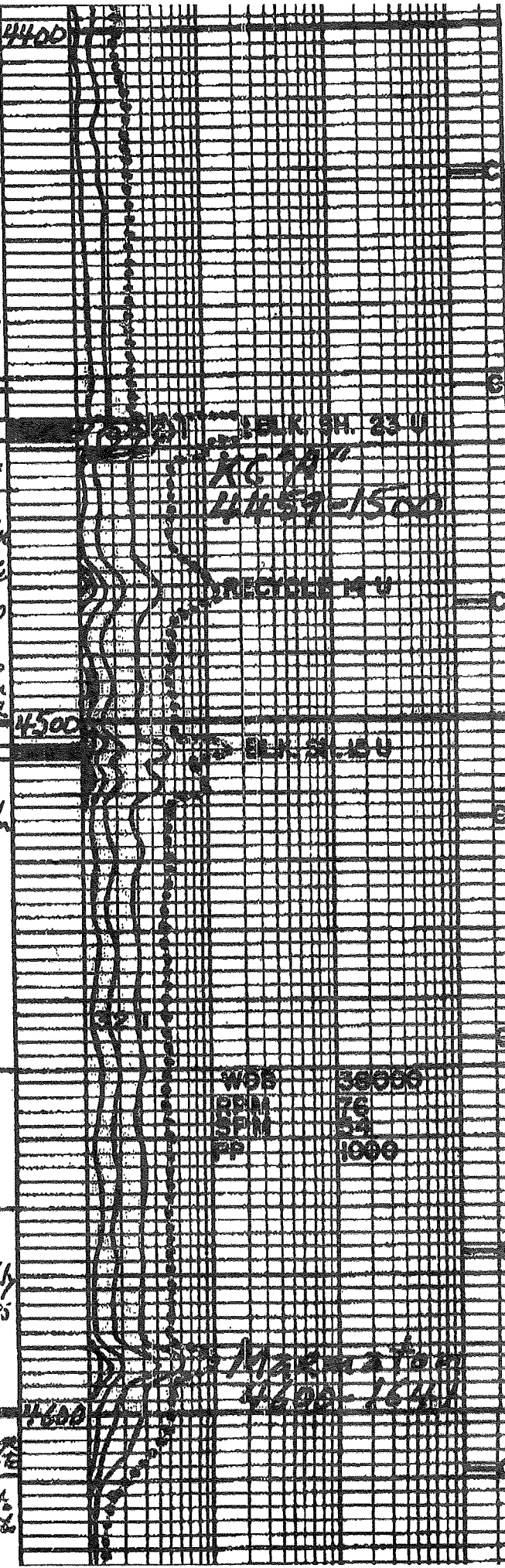
Sh. black - carb

Lms. H. gray, tanish IP's; crypto to v. v. fin
sub chlk, sub succro, pachsta + trs.
sub lithogr.; abu. phanton oolitic to
hv. trs. oolitic; dul. H. to dul. H. yel.
fluor.; No cut; No Vis Por.

Lms. H. to med. gray - sl. to extly shly
w/trs qdng. to extly. calc. Shs. to tan;
crypto. to v. v. fin. xln; trs. sub chlk/pachsta
trs. sub succro, pachsta + sub lithogr;
dul. H. to H. yel. fluor. IP's; No cut;
No Vis Por. w/trs. Chert gray to tan;
opaque

Lms. H. to med. gray, tanish IP's to grayish tan
crypto. to v. v. fin. xln; sub succro, pachsta + sub lithogr
dul. H. yel. fluor.; No cut; No Vis Por. w/trs. chert gray to
tan, opaque

4607-31 Lms. tanish gray to grayish tan; crypto. to
v. v. fin. xln; trs. sub chlk, sub succro + pachsta
dul. H. yel. fluor. IP's; No cut; No Vis Por.



Opque

Lms. lt. to med. gray, tanish IP's to grayish tan
crypto. to v. v. xln; tes. sub-chlk, sub-sucro, & packstn
dul. lt. yel. fluor; No cut; No Vis Por w/tes chert gray
tan, opque

4609-31 Lms. tanish gray to grayish tan; crypto. to
v. v. fu. xln; tes. sub-chlk, sub-sucro & packstn
dul. lt. yel. fluor. IP's; No cut; No Vis Por.

4631-33 Lms. tan; crypto. to v. v. fu. xln.
tes. sub-chlk, sub-sucro, to sucro; sl. tes
faly. oolitic for. sl. to v. oolitic IP's
sptd. ben. oil str. w/ brt. yel. fluor. w/ fluid
to qd stream cut; abn. pr. to fr. oolitic
por. + abn. pr. to logd + tes. excel. micropp
to inter. por.

4633-63 Lms. similar 4609-4631 w/
phantom oolitic IP's to tes oolitic

Lms. v. to extaly. abn. wht. to cam-chlk w/tes
chlk. oolites + chert to lt. tan; crypto. to v. v. fu. xln;
sub-chlk, sub-sucro, to sucro, & tes. packstn. j. v. v.
to extaly. oolitic to phantom oolitic; dul. lt. to
dul. yel. fluor; No cut; tes. pr. micro-pp IP's

Lms. lt. to med. gray to tan; crypto. to v. v. fu.
xln; tes. sub-chlk, sub-sucro & packstn;
dul. lt. yel. fluor. IP's; No cut; No Vis Por

Shale Black-carb.

Lms. Similar 4674-4696

Lms. tes. wht. to cam-chlk + tan, grayish. IP's
crypto. to v. v. fu. xln; sub-chlk, sub-sucro & tes
packstn; dul. lt. yel. fluor; No cut; No Vis Por
w/tes. chert tan, opque

Lms. similar 4674-4696 w/tes Chert
tan, opque to transl.

Shale Black-carb.

Lms. abn. wht. to cam-chlk + lt. tan to tan, grayish IP's
crypto. to v. v. fu. xln; sub-chlk, sub-sucro to sucro
& packstn; foss. IP's; oolitic IP's; dul. lt. to tes. lt. yel.
fluor; No cut; No Vis Por. w/ v. abn. chert wht. tan, gray
to tan, opque

Shale Black-carb

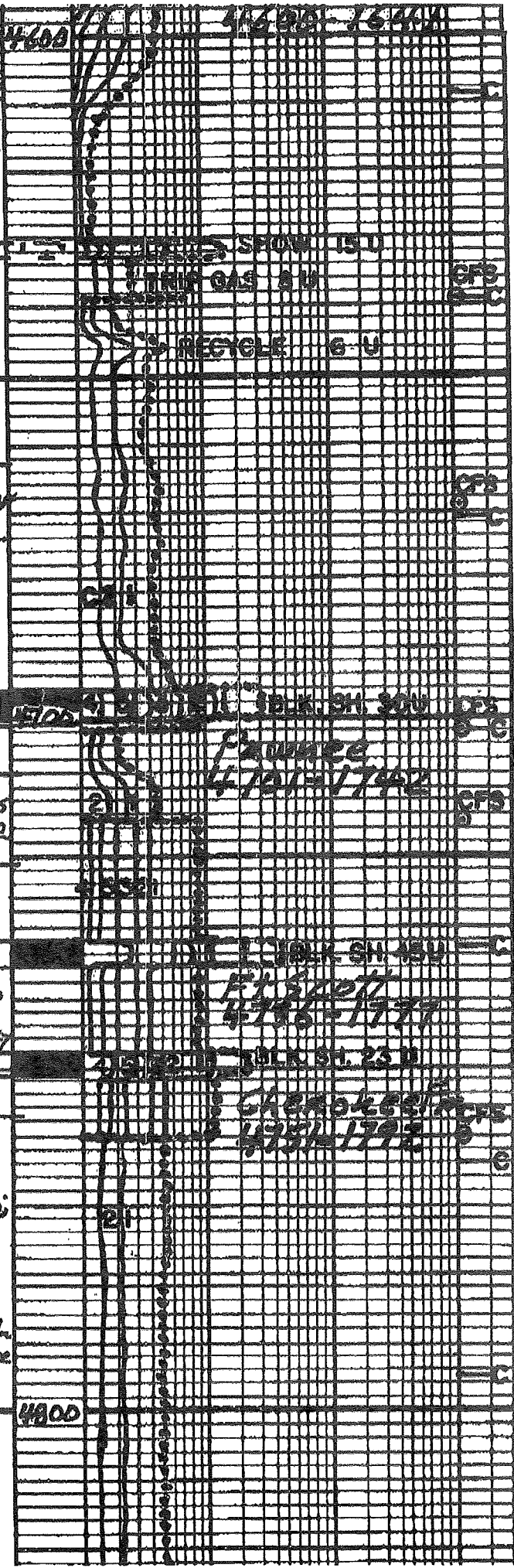
Lms. w/Chert Similar 4736-4748

Interbedded Limestones and Shales

① Lms. grayish. tan to tan; crypto. to v. v. fu. xln;
sub-chlk, sub-sucro & packstn; dul. lt. to tes. lt.
yel. fluor; No cut; No Vis Por.

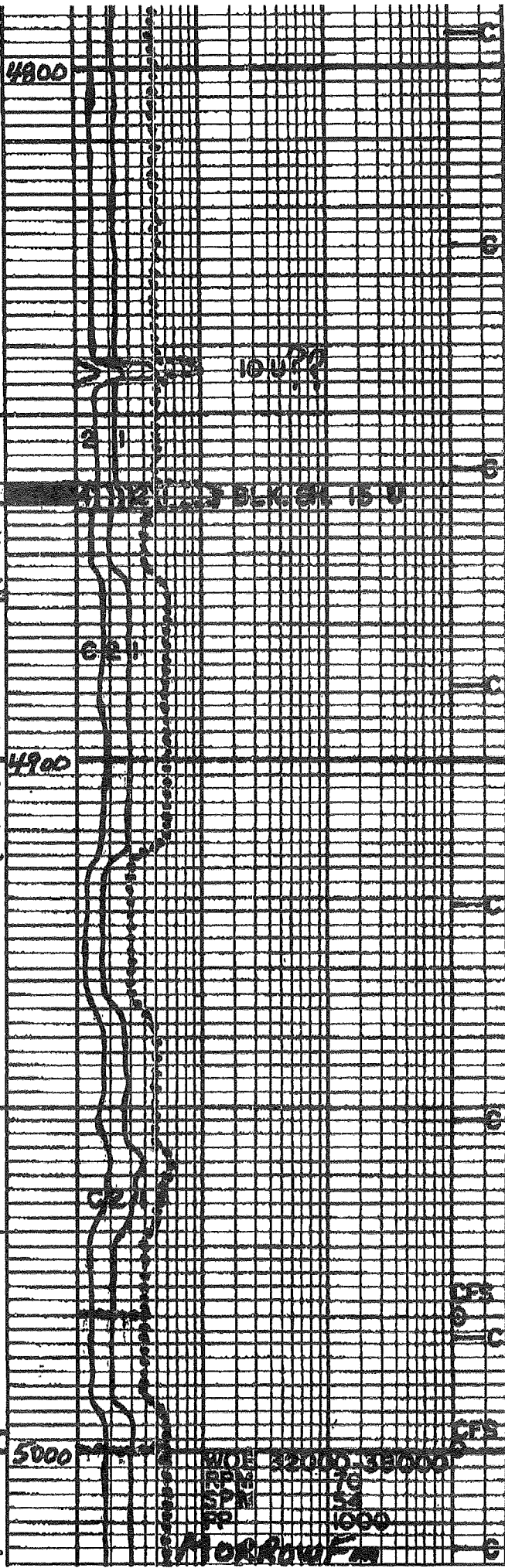
② Lms. lt. med to tes. dk. gray. -sl. to extaly.
shly. gradng. to v. calc. shly; crypto. to v. v. fu. xln
sub-chlk for shly; tes. sub-sucro & packstn. No fluor
No cut; No Vis Por

③ Sh. med. to dk. gray. -sl. to extaly
calc gradng to extaly. shly. Lms.
④ tes. Chert gray to tan, opque



sub blk for shly, trs. sub-succo & p. ch. str. No fluor
No cut, No vis por

- ① Sh. med. to drk. gry. - sl. to extly calc. grdg. to extly. shly. Lms.
- ② trs. Chert gry. to tan, opaque



Sh. v. drk. gry. to black-carb.
4863-4968 Interbedded Limestones & Shales
① Lms. H. gry. to tan; crypto. to v. v. fl. xlm; sub-chk, sub-succo, p. ch. str. & sub-lithographic phantom oolitic to oolitic lps; scattered trs. yel. fluor w/ faint to sl. trs. fr. Ring cuts; No vis por; Poss fracturing.

② Lms. H. to med. & trs. drk. gry. - sl. to extly. shly. grdg. lps to v. calc. shs. crypto. to v. v. fl. xlm; sub-chk for shly, trs. sub-succo. and p. ch. str.; No fluor, No cut, No vis por.

③ Sh. med to drk. gry. - v. to extly calc. lps to v. drk. gry to black-carb. looking lps

A 4968-4997 Lms. w/ scattered thin shs
① Lms. H. to med. gry. - sl. to extly. shly to tan & lt. brn; crypto. to v. v. fl. xlm; sl. trs. sub-succo, p. ch. str. & sub-lithographic phantom oolitic lps; v. drk. yel. fluor lps; No cut; No vis por

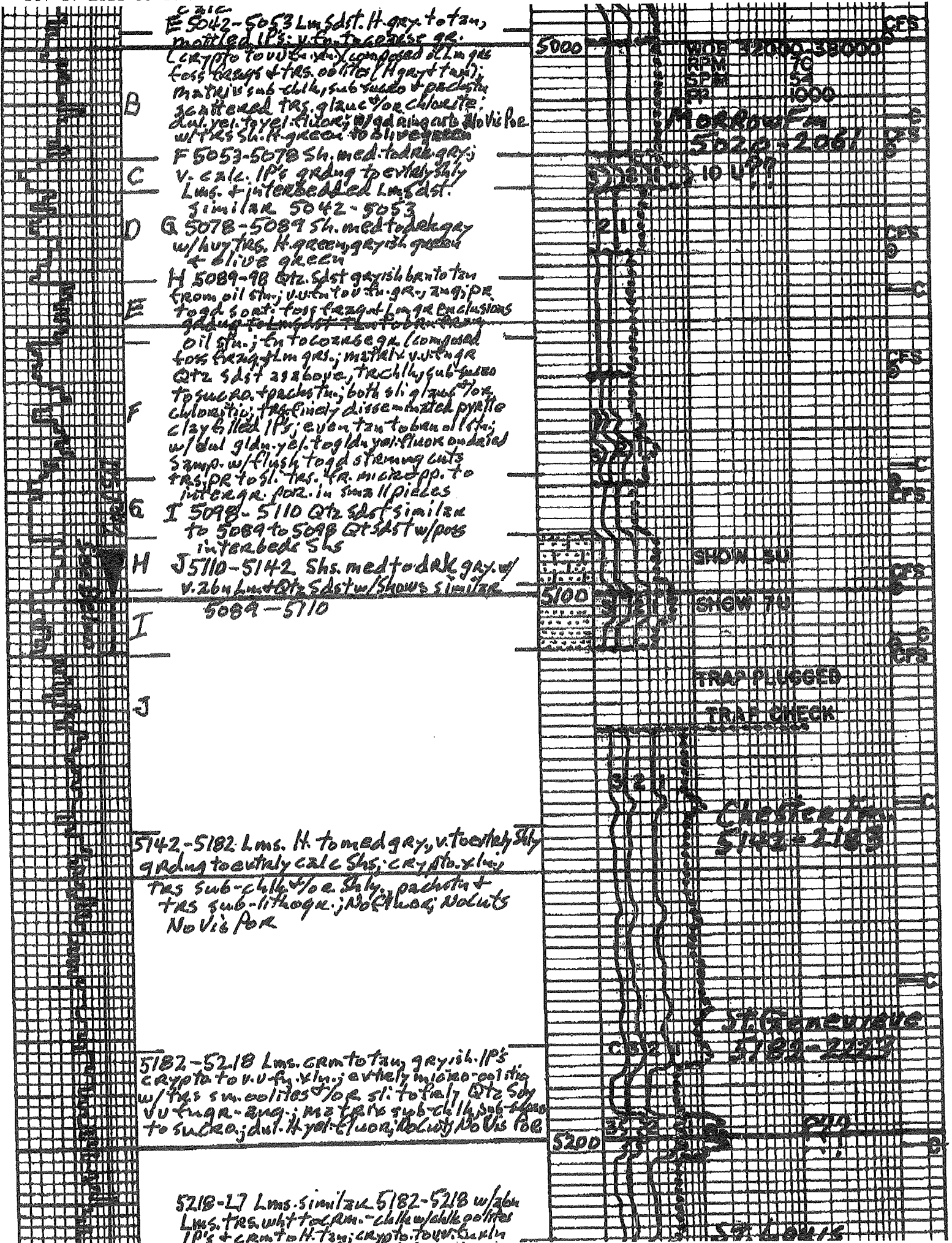
② w/ scattered thin interbeds shs med. to v. drk. gry. to blk. sl. to extly calc. lps; grdg. to extly shly lms & sl. trs. in grdg. to blk. carb.

③ sl. trs. Chert gry. to tan, opaque
B 4997-5020 Lms. w/ scattered thin interbeds. Shs. similar 4968-4997 w/ v. sl. trs. H. to med. gry; musky shale

C 5020-5026 Sh. v. drk. gry to blk. carb. looking

D 5026-5042 Sh. med. to drk. gry. w/ few frags. lps; trs. greyish green to H. green & olive green w/ lms. similar 4968-4997 w/ trs. foss. & v. sl. trs. siltstn; H. green & trs. H. gry calc.

E 5042-5053 Lms. drk. H. gry. to tan, mottled lps; v. v. to coarse gr. crypto. to v. v. fl. xlm; composed of Lms. frags & trs. oolitic (H. gry. & tan); mainly sub-chk, sub-succo & p. ch. str. scattered trs. glauc. for chlorite; drk. yel. to yel. fluor; ring cuts; No vis por w/ trs. sl. H. green to blk. carb.



5218-27 Lms. similar 5182-5218 w/abn
Lms. trs. wht to cream - chalk w/ chalk oolites
IP's + crin to H. tan; crypto. to v. tan
v. oolitic (sm, med + lg) matrix chlk, sub-chlk
sub-sucro + pachssta; dul. yel. to dul. yel. fluor. No cut
No vis for; w/ trs chert gray to orange; opaque

5236-5312 Lms. trs. wht to cream - chalk to tan;
crypto. to v. v. tan; v. oolitic (sm, med +
lg); matrix trs sub-chlk, sub-sucro. +
pachssta; dul. yel. to dul. yel. fluor.
No cut; No vis for.

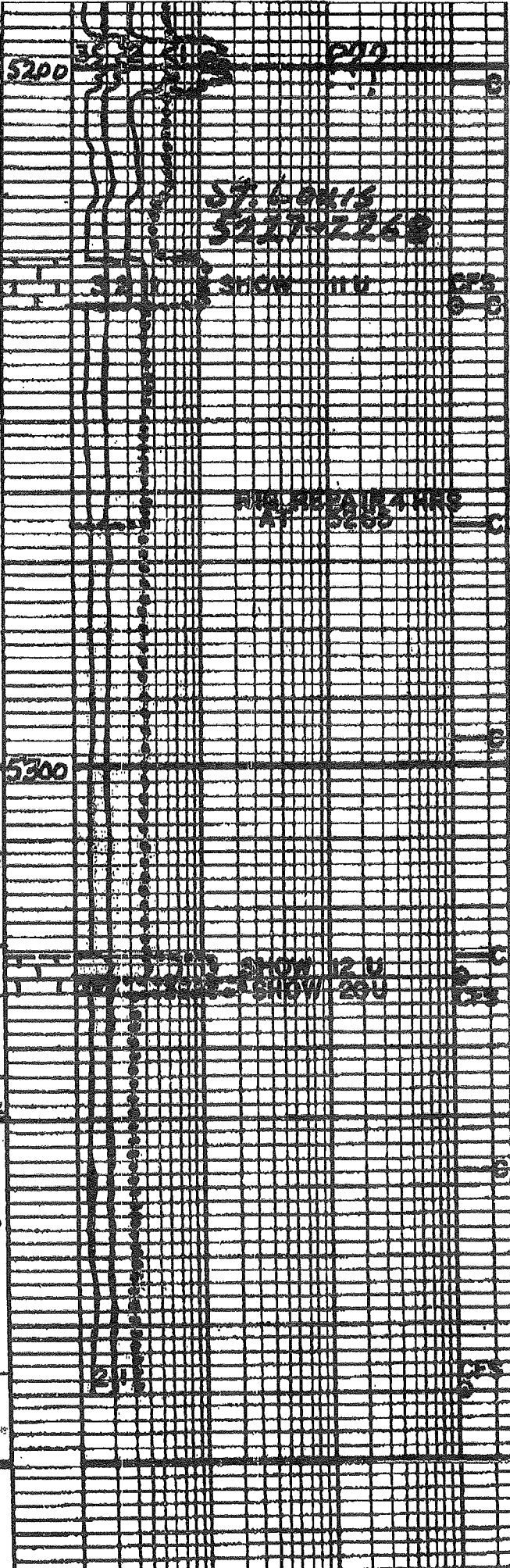
5312-25 Lms similar 5236-5312
w/ huy trs wht to cream - chalk w/ chalk
oolites IP's + huy trs chlk + sub-chlk matrix
along with sub-sucro + pachssta; No show
5325-5332 Lms. trs. wht to cream -
chalk to tan; crypto. to v. tan; v. oolitic
oolitic med, lg trs sub-matrix
sub-chlk, sub-sucro. to sucro.; scattered
trs pin point size pieces w/ brn oil str;
yel. fluor.; good staining cuts; No vis
for pieces so small; abn loose oolites
huy trs chert gray to orange
lean to opaque

5332-5344 Lms similar 5312-5325
Dolo grayish tan; v. v. tan; sub-sucro to sucro
alicate IP's; dul. yel. to dul. yel. fluor. No vis for

Interbedded Limestones
(1) Oolitic Lms similar 5236-5312
(2) Lms. grayish tan to tan; crypto. to v. tan
sub-chlk; trs sub-sucro + pachssta;
dul. yel. to dul. yel. fluor.; No cut;
No vis for

Dolo. similar 5344-5350
TD 5390

7 7/8 inch Bit Info:
Bit #1 New Smith F27I
in 1812 out 5110
Bit #2 Ron Smith F12YI



7 7/8 inch Bit Info:
 Bit #1 New Smith F27I
 in 1812 out 5110
 Bit #2 Rerun Smith F12YI
 in 5110 out 5390 TD

Dev. SURV
 1. 1120 3/4° 4. 4639 3/4°
 2. 1812 2 1/4° 5. 5110 1°
 3. 2398 3/4° 6. 5390 TD

Cir. Points
 1. 4114 7. 4780 13. 5100
 2. 4639 8. 5000 14. 5110
 3. 4669 9. 5020 15. 5234
 4. 4702 10. 5038 16. 5330
 5. 4715 11. 5060 17. 5390 TD
 6. 4760 12. 5080

Daily Dalg. Report

1. 3800	5:25 AM	9-29-2011
2. 3837	7:00 AM	9-29-2011
3. 4352	7:00 AM	9-30-2011
4. 4639	7:00 AM	10-1-2011
5. 4702	7:00 AM	10-2-2011
6. 4926	7:00 AM	10-3-2011
7. 5100	7:00 AM	10-4-2011
8. 5110	7:00 AM	10-5-2011
9. 5265	7:00 AM	10-6-2011
10. 5390	7:00 AM	10-7-2011

DST #1 Marmaton "B" 4627-4639
 10 Weak Surface Blow Died 30sec.
 FO No Blow

Rec 10 ft 100% Mud BHT 115.7°F
 IHP 2247
 IFP 19-27 in 15 min
 ISIP 215 in 30 min
 FFP 22-32 in 30 min
 FSIP 268 in 60 min
 FHP 2191

DST #2 MORROW Fm 5091-5110
 10 7/8 inch blow died 25min
 FO No Blow
 Rec 3 feet 100% Mud BHT 121°F

IHP 2506*
 IFP 25-24* in 30 min
 ISIP 157* in 60 min
 FFP 26-26* in 30 min
 FSIP 76* in 60 min
 FHP 2440*

Mud Info:

Date	9-28	9-29	9-30	10-1	10-2	10-3	10-4	10-5
	1:50P	1:15P	1:45P	1:50P	1:45P	1:55P	1:50P	1:00P
Depth	3446	4016	4580	4639	4760	5000	5110	5110

Mud Info:

Date	9-28 1:50P	9-29 1:15P	9-30 1:45P	10-1 1:50P	10-2 1:45P	10-3 1:55P	10-4 1:50P	10-5 2:00P
Depth	446	4016	4580	4639	4760	5000	5110	5171
WT.	9.3	9.25	9.2	9.15	9.1	9.15	9.15	9.2
Vis	33	43	49	40	49	50	54	51
PV	3	12	14	12	15	15	17	16
YP	3	12	16	14	11.5	16	18	16
GS	3/4	13/34	14/46	12/33	14/45	14/49	16/52	15/48
WL	N/C	14.0	9.6	9.2	8.0	7.6	7.6	8.0
cake	-	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	7.0	9.0	9.5	10.0	11.0	11.5	11.5	11.0
Chl	13000	4900	3200	2300	4000	3500	4000	5100
C2	444	160	20	20	20	20	20	20
LCM	2	4	4	2	4	5	3	3

Date	10-6 1:20P							
Depth	5175							
WT.	9.35							
Vis	51							
PV	16							
YP	18							
GS	15/47							
WL	8.8							
cake	1/32							
pH	11.0							
Chl	4000							
C2	20							
LCM	2							

OPERATOR BEREXCO LLC
 LEASE EARL "B" NO. 1-6
 ELEVATION 2959 RTD 5390

LOCATION 1980'FNL & 1980'FVL
 SEC. 6 TWP. 27S RANG. 33W
 COUNTY HASKELL STATE KANSAS

GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY BEREXCO LLC

ELEVATIONS

EASE EARL "B" NO. L-6

LOCATION 1980' FNL & 1980' FWL

KB 2959
DF 2956
GL 2946

SEC. 6 TWP. 27S RNG. 33W

COUNTY HASKELL STATE KANSAS

MEASUREMENTS ARE ALL FROM KB

FIELD WILDCAT

SCALING RECORD
8/8 dt 1810' w/ sx.

CONTRACTOR BEREDCO DRUG RIG NO. 2

COMM. 9-21-2011 COMP. 10-8-2011

LTD 5390 LTD 5389

No. of DST'S 2 No. of CORES NONE

EL. LOG IND. SP. GR DENNEUT. GR. CALIPER ML

SAMPLES SAVED FROM 3800 TO TD

DRILLING TIME KEPT FROM 3800 TO TD

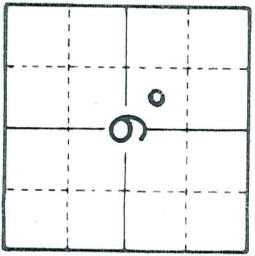
SAMPLES EXAMINED FROM 3800 TO TD

GEOLOGICAL SUPERVISION FROM 3800 TO TD

GEOLOGIST ON WELL EDWIN H. GRIEVES

FORMATION TOPS

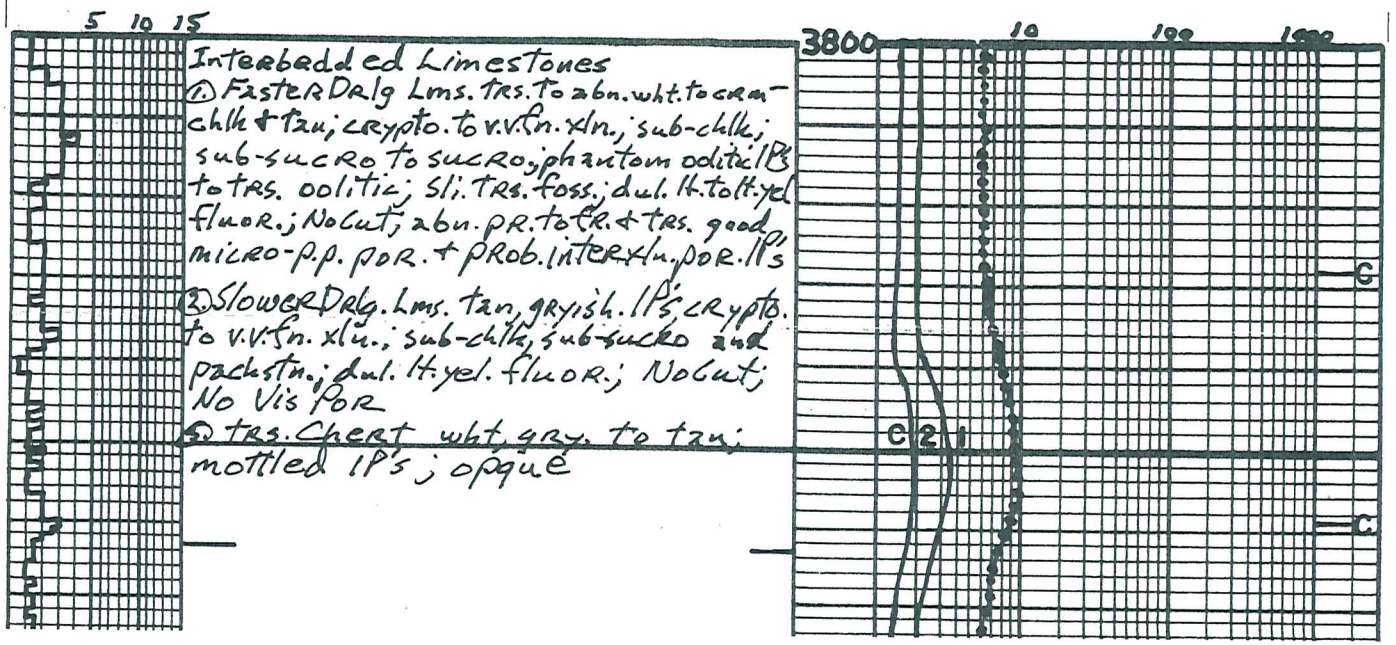
FORMATION	SAMPLE	LOG	SUBSEA
BASE HEEBNER	3983	3978	-1019
ORONTO	3943	3989	-1030
ANSING FM.	4022	4016	-1057
LARMATON	4600	4610	-1651
HEROKEE FM.	4751	4747	-1788
MORROW FM.	5020	5008	-2049
HESTER FM.	5142	5140	-2181
TIGENEVIEWE	5182	5180	-2221
T. LOUIS	5227	5225	-2266
D	5390	5389	



API NO. 15-081-21964

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3800 feet to total depth.

Thank you,
Edwin H. Grievess
Geologist



Lms. abn. to extrly abn. wht. to cream-chlk
& tan, grayish. IP's; crypto to v.v. fn. xlu;
sub-chlk, sub-sucro to v. sucro + traces
pachstn. IP's; phantom oolitic IP's to
trs. oolitic IP's; dul. H. to H. yel. fluor.;
No cut; hvy. trs. pr., trs. fr. + sli. trs. g.
micro-p.p. por + poss. interxlu. por. IP's
w/ sli. trs. chert wht, gry to tan, opaque

3900

Base Heebner
3983-1024
BLK SH. 20 U

Sh. black-carb.
Sh. H. gry., greenish IP's to trs olive green;
mush
Lms. hvy. trs. wht. to cream-chlk + tan
crypto. to v.v. fn. xlu; sub-chlk, sub-sucro.

4000

Toronto
3993-1034

to v. sucro; dul. H. to H. yel. fluor.; No cut
abn. pr. to trs. fr. to g. micro-p.p. + poss.
interxlu. por w/ trs chert cream, opaque
Lms. H. gry. to grayish. tan; crypto. to v.v. fn.
xlu; sli. IP's; sub-chlk or shly; sub-sucro
+ pachstn; dul. H. yel. fluor.; No cut; No vis por

Lansing Fm.
4022-1063

Lms. similar 3993-4011, phantom oolitic
IP's to trs. oolitic w/ abn. pr. to tr. and
trs. g. to excel. micro-p.p. + prob. interxlu
por.; No show

Lms. similar 4011-4022

C2 1

Lms. trs. to abn. wht. to cream-chlk and
H. tan to tan; sub-chlk, sub-sucro. to
trs. sucro + pachstn; abn. phantom oolitic
to abn. oolitic; dul. H. to H. yel. fluor.; No cut;
sli. trs. poor micro-p.p. por. IP's

Lms. tan, grayish. IP's; crypto. to v.v. fn. xlu
trs. sub-chlk; sub-sucro + pachstn; dul. H. yel.
fluor.; No cut; No vis por.

4100

Lms. hvy. trs. wht. to cream-chlk + tan; crypto. to
v.v. fn. xlu; sli. trs. sub-chlk, sub-sucro to sucro;
extrly oolitic + or sli. oolitic; dul. yel. to dul. g. yel.
+ trs. yel. fluor.; No cut; abn. excel. oolitic
por.; Prob. No Perm; sli. trs. chert H. to med gry, opp.

Lms. similar 4100-4116 becoming
less oolitic + more oolitic

Lms. H. gry. to tan; crypto. to v.v. fn. xlu; trs. sub-chlk,
sub-sucro + pachstn; dul. yel. fluor. IP's;
No cut; No vis por

Lms. tan, trs. grayish; crypto. to v.v. fn. xlu; trs.
sub-chlk, sub-sucro to v. sucro; dul. H. to H. yel. fluor.
No cut; abn. pr. to trs. fr. to g. micro-p.p. + prob. interxlu
por. w/ sli. trs. chert gry - opaque

Interbedded Limestones
① Foster Dalg. Lms. wht., cream. to H. tan-chlk
& tan, grayish. IP's; crypto. to v.v. fn. xlu;
sub-chlk, sub-sucro to sli. trs. sucro +
pachstn; trs. phantom oolitic to trs. oolitic

sub-crim, sub-sucro to v.v. xln, sucro, packstn; trs. phantom oolitic to trs. oolitic
dul. lt. to lt. yel. fluor; No Cut; hvy. trs. pr.
to trs. fr. micro-p.p. por + poss. inter xln
por. IP's

4200

② Slower Delg. Lms. trs. med. gray + lt. gray
to tan; crypto. to v.v. fn. xln; sub-chlk, sub-sucro,
+ packstn; (IP's phantom oolitic to oolitic);
dul. yel. fluor; No Cut
No Vis. Por.

Lms. hvy. trs. to abn. wht. to crm-chlk + tan, grayish
IP's; crypto. to v.v. fn. xln; sub-chlk, sub-sucro.
to sucro. + packstn; phantom oolitic to
extly oolitic; for phantom oolitic to extly
oolitic; dul. yel. to dul. lt. yel + trs. yel. fluor
No Cut; abn. pr. to fr + trs. gd. oolitic
pin point + micro-pin point por / w
poss. inter xln. por. IP's.

Lms. grayish. tan to tan; crypto. to v.v. fn. xln;
trs. sub-chlk, sub-sucro + packstn; trs
phantom oolitic to trs. oolitic; dul. yel. to
dul. lt. yel. fluor; No Cut; No Vis Por

4300

Lms. similar 4291-4309 w/ abn wht to crm-chlk

Lms. similar 4291-4309

Sh black - carb.

BLK. SH. 6 U

Interbedded Limestones

① Faster Delg. Lms. trs. to abn. wht. to crm
chlk + tan, grayish. IP's; crypto. to v.v. fn. xln;
sub-chlk, sub-sucro. to trs. sucro + packstn;
IP's trs. phantom oolitic to trs. oolitic
and/or IP's trs. phantom oolitic to trs.
oolitic; dul. lt. to trs. lt. yel. fluor; No Cut;
abn. pr. to fr + trs. gd. oolitic pin point,
micro-pin point + prob. inter xln. por.

② Slower Delg. Lms. lt. to med. gray - shly
to tan; crypto. to v.v. fn. xln; sub-chlk
and/or shly. gr. ang. to extly. calc
shs. to sub-sucro + packstn;
dul. yel. fluor. IP's; No Cut; No Vis Por

Lms. hvy. trs. wht to crm chlk + tan, grayish
IP's; crypto. to v.v. fn. xln; sub-chlk, sub-sucro
to sucro; phantom oolitic IP's to hvy. trs
oolitic; dul. lt. to lt. yel. fluor; No Cut; abn
pr. to fr + trs. gd. micro; p.p. poss. inter xln por

4400

Lms. lt. gray. to tan; crypto. to v.v. fn. xln; sub-chlk
sub-sucro, packstn + trs. sub-lithogr; trs. phantom
oolitic to trs. oolitic; dul. lt. to trs. lt. yel. fluor;
No Cut; No Vis. Por.

Lms. hvy. trs. wht. to crm-chlk + tan, grayish, IP's.
crypto. to v.v. fn. xln; sub-chlk, sub-sucro. to sucro +
packstn; trs. phantom oolitic to trs. oolitic
for trs. phantom oolitic to trs. oolitic;
dul. lt. yel. fluor; No Cut; abn. pr. to fr +
trs. gd. oolitic, pin point, micro pin point
+ prob. inter xln. por.

Lms. similar 4404 - 4421

Sh black - carb

Lms. lt. to med. gray - shly. to tan; crypto. to
v.v. fn. xln; sub-sucro, packstn + trs. sub-lithogr
dul. yel. fluor. IP's; No Cut; No Vis Por

Interbedded Limestones

① Faster Delg. Lms. wht. to lt. gray - chlk + tan
grayish, IP's; crypto. to v.v. fn. xln; sub-chlk,
sub-sucro. to sucro; trs. phantom oolitic
to trs. oolitic; dul. yel. fluor; No Cut;
No Vis Por; trs. v. poor to poor micro-p.p
por. IP's

② Slower Delg. Lms. lt. gray. to tan; crypto. to
v.v. fn. xln; trs. sub-chlk, sub-sucro, packstn
+ sub-lithogr; dul. yel. fluor; No Cut; No Vis Por

4500

Sh. black - carb

BLK. SH. 23 U

4459-1500

RECYCLE 14 U

BLK. SH. 16 U

Lms. H. gray, tanish IP's; crypto. to v.v. xln
 sub-chlk, sub-sucro, packstn + trs.
 sub-lithogr.; abn. phantom oolitic to
 hv. trs. oolitic; dul. yel. to dul. lt. yel.
 fluor.; No Cut; No Vis Por.

Lms. lt. to med. gray - sl. to extly shly
 w/trs grading to extly calc. Shs. to tan;
 crypto. to v.v. xln; trs. sub-chlk, shly
 trs. sub-sucro, packstn + sub-lithogr.;
 dul. lt. to lt. yel. fluor. IP's; No Cut;
 No Vis Por. w/trs. Chert gray to tan;
 opque

Lms. lt. to med. gray, tanish IP's to grayish tan
 crypto. to v.v. xln; sub-sucro, packstn + sub-lithogr.
 dul. lt. yel. fluor. IP's; No Cut; No Vis Por. w/trs chert gray to
 tan, opque

4609-31 Lms. tanish gray to grayish tan, crypto. to
 v.v. xln; trs. sub-chlk, sub-sucro + packstn
 dul. lt. yel. fluor. IP's; No Cut; No Vis Por.

4631-33 Lms. tan; crypto. to v.v. xln.
 Trs. sub-chlk, sub-sucro to sucro; sl. trs
 faly, oolitic to v. oolitic IP's;
 sp. brn. oil str. w/brt. yel. fluor. w/flux
 to qd. stream cuts; abn. pr. to fine oolitic
 por. + abn. pr. to qd. + trs. excl. micro pp
 to inter. sh. por.

4633-63 Lms. similar 4609-4631 w/
 phantom oolitic IP's to trs oolitic

Lms. v. to extly abn. wht. to crm. - chlk w/trs
 chlk. oolites + crm. to lt. tan; crypto. to v.v. xln;
 sub-chlk, sub-sucro to sucro + trs. packstn; v.v.
 to extly oolitic to phantom oolitic; dul. lt. to
 dul. yel. fluor.; No Cut; trs. pr. micro pp por.
 Lms. lt. to med. gray to tan; crypto. to v.v. xln
 xln; trs. sub-chlk, sub-sucro + packstn;
 dul. lt. yel. fluor. IP's; No Cut; No Vis Por

Shale Black - carb.

Lms. Similar 4674-4696
 Lms. trs. wht. to crm. - chlk + tan, grayish. IP's
 crypto. to v.v. xln; sub-chlk, sub-sucro + trs
 packstn; dul. lt. yel. fluor.; No Cut; No Vis Por
 w/trs. chert tan; opque

Lms. similar 4674-4696 w/trs Chert
 tan, opque to tan l.

Shale Black - carb.

Lms. abn. wht. to crm. - chlk + lt. tan to tan, grayish IP's
 crypto. to v.v. xln; sub-chlk, sub-sucro to sucro
 + packstn; trs. IP's; oolitic IP's; dul. lt. to trs. lt. yel.
 fluor.; No Cut; No Vis Por. w/v. abn. chert wht; crm; gray
 to tan; opque

Shale Black - carb

Lms. w/Chert Similar 4736-4748

Interbedded Limestones and Shales
 ① Lms. grayish tan to tan; crypto. to v.v. xln;
 sub-chlk, sub-sucro + packstn; dul. lt. to trs. lt.
 yel. fluor.; No Cut; No Vis Por.

② Lms. lt. med to tan dark gray - sl. to extly.
 Shly. grading to v. calc. Shs; crypto. to v.v. xln
 sub-chlk for shly; trs. sub-sucro + packstn. No fluor
 No Cut; No Vis Por

③ Sh. med. to dark gray - sl. to extly
 Calc grading to extly. shly. Lms.
 ④ trs. Chert gray to tan, opque

WOB 38000
 RPM 76
 SPN 54
 PP 1000

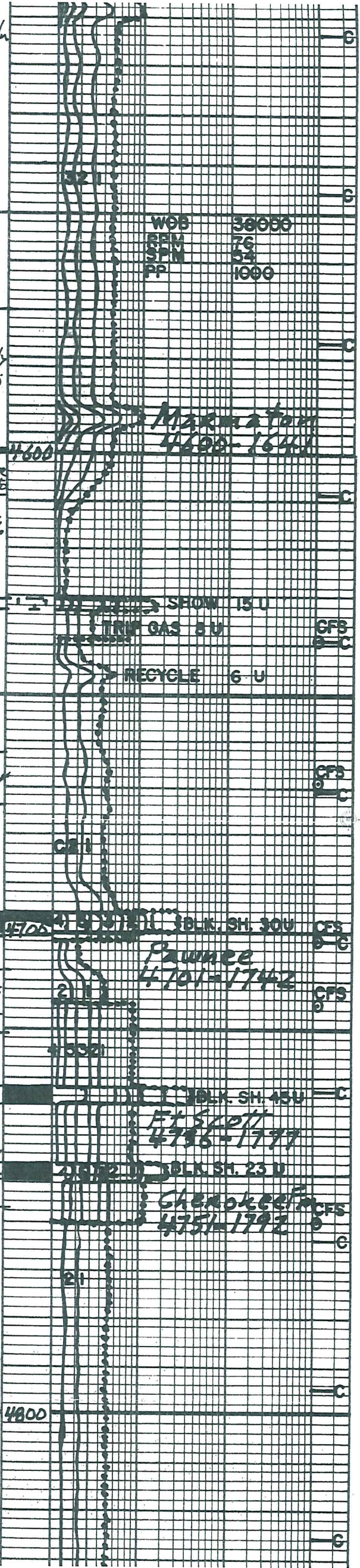
Marmaton
 4600-4640

SHOW 15 U
 TRIP GAS 8 U
 RECYCLE 6 U

PAWNEE
 4701-4742

FT SPOTT
 4736-4777

CHEROKEE
 4751-4792



Sh. v. drk. gry. to black-carb.

4863-4968 Interbedded Limestones & Shales
 ① Lms. lt. gry. to tan; crypto. to v. v. fin. xln; sub-chlk, sub-succo, pachs. + sublithographic phantom oolitic to oolitic IP's; scattered trs. yel. fluor w/ faint to sl. tas fr. Ring cuts; No Vis Por.; Poss fracturing.

② Lms. lt. to med. + trs. drk. gry. - sl. to extly. Shly. gradng. IP's to v. calc. Shs.; crypto. to v. xln; sub-chlk for Shly., trs. sub-succo. and pachs.; No fluor, No Cut, No Vis Por.

③ Sh. med to drk. gry. - v. to extly calc IP's to v. drk. gry to black-carb. looking IP's

A 4968-4997 Lms. w/ scattered thin Shs
 ① Lms. lt. to med. gry. - sl. to extly. Shly to tan + lt. brn.; crypto. to v. v. fin. xln sl. trs. sub-succo. j pachs. + sublith. phantom oolitic IP's; v. dul. yel. fluor IP's; No Cut; No Vis Por

② w/ scattered thin interbeds Shs med. to v. drk. gry. to blk. sl. to extly calc. IP's; gradng. to extly Shly Lms. + sl. tas. lt. gradng. to lt. gry.

③ sl. tas. Chert gray to tan, oppo

B 4997-5020 Lms. w/ scattered thin interbeds. Shs. similar 4968-4997 w/ v. sl. trs. lt. to med gry, mushy shale

C 5020-5026 Sh. v. drk. gry to blk-carb. looking

D 5026-5042 Sh. med. to drk. gry. w/ foss frags. IP's; trs. grayish green to lt. green to olive green w/ lms similar 4968-4997 w/ trs. foss. + v. sl. trs. siltstn, lt. green + trs. lt. gry calc

E 5042-5053 Lms. drk. lt. gry. to tan, mottled IP's; v. fin. to coarse gr. crypto. to v. v. fin. xln; composed of lms. + foss frags + trs. oolitic lt. gry. + tan; matrix sub-chlk, sub-succo + pachs. scattered trs. glauc. or chlorite; dul. yel. to yel. fluor; w/ grading cuts No Vis Por. w/ trs. Sh. lt. green to olive green

F 5053-5078 Sh. med. to drk. gry; v. calc. IP's gradng. to extly. Shly Lms. + interbedded Lms. drk. similar 5042-5053

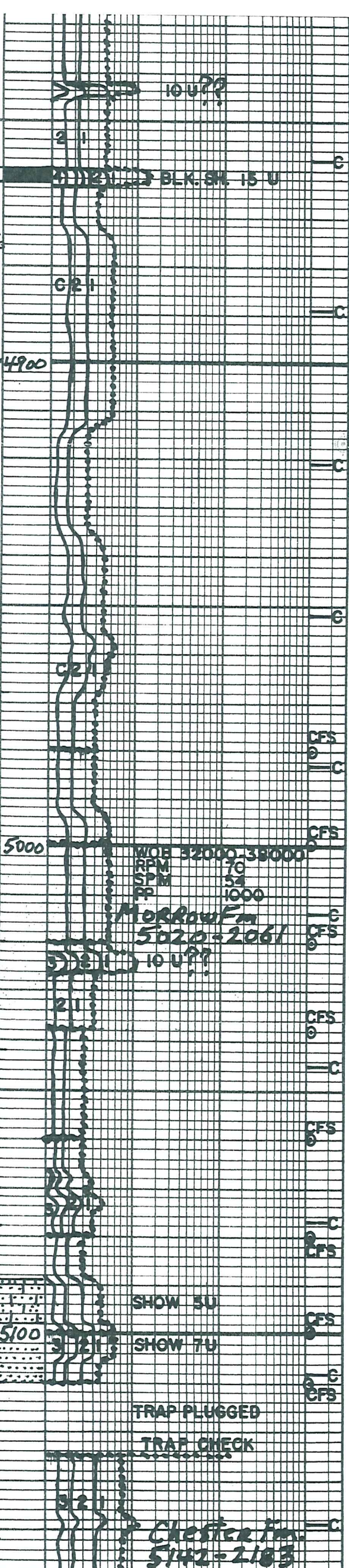
G 5078-5089 Sh. med. to drk. gry w/ hvy trs. lt. green, grayish green + olive green

H 5089-98 Qtz. sdst grayish brn to tan from oil stn; v. v. fin. to v. fin. gr.; aug. + pr. to gd sort; foss frag. + lms. inclusions gradng. to lms. drk. tan to brn. from oil stn; fin. to coarse gr. (composed foss frag. + lms. grs.; matrix v. v. fin. gr. Qtz. sdst as above, tr. chlk, sub-succo to succo. + pachs. tu; both sl. glauc. + chloritic; trs. finely disseminated pyrite clay filled IP's; even tan to brn. oil stn; w/ dul. glauc. yel. to glauc. yel. fluor on dried samp. w/ flush to gd steming cuts trs. pr. to sl. tas. fr. mize opp. to intergr. por. in small pieces

I 5098-5110 Qtz. sdst similar to 5089 to 5098 Qtz. sdst w/ pos interbeds Shs

J 5110-5142 Shs. med to drk. gry. w/ v. 2bn Lms. + Qtz. sdst w/ shows similar 5089-5110

5142-5182 Lms. lt. to med. gry. v. to extly. Shly. gradng. to extly. calc. Shs. cr. + sto. xln.



TRs sub-chlk +/or shly., pachs +
 TRs sub-lithogr.; No Fluor; No cuts
 No Vis POR

5182-5218 Lms. GRM to tan, grayish. IP's
 crypto to v. v. fn. xln.; extaly micro-oolitic
 w/ TRs sm. oolites +/or sl. to frly Qtz Sh
 v. u. fgr. aug.; matrix sub-chlk, sub-sucro
 to sucro; dul. H. yel. fluor; No cut; No Vis POR

5218-27 Lms. similar 5182-5218 w/ abn
 Lms. TRs. wht to crm. - chlk w/ chlk oolites
 IP's + crm to H. tan; crypto. to v. u. xln
 v. oolitic (sm, med + lg.) matrix chlk, sub-chlk
 sub-sucro + pachs; dul. yel. fluor; No cut
 No Vis POR w/ abn chert gray to orange; opaque
 Lms. abn. wht to crm - chlk w/ chlk oolites IP's + tan
 crypto. to v. u. xln. v. to extaly oolitic (med - lg
 + TRs sm) matrix TRs chlk; sub-chlk; sub-sucro
 to sucro; dul. yel. to yel. fluor; No cut
 No Vis POR; w/ TRs chert gray, tan to orange
 opaque

5236-5312 Lms. TRs. wht to crm - chlk + tan;
 crypto. to v. v. fn. xln.; v. oolitic (sm, med +
 lg); matrix TRs sub-chlk, sub-sucro. +
 pachs; dul. H. yel. to dul yel. fluor.
 No cut; No Vis POR.

5312-25 Lms similar 5236-5312
 w/ huy TRs wht to crm. chlk w/ chlk
 oolites IP's + huy TRs chlk + sub-chlk matrix
 along with sub-sucro + pachs; No show

5325-5332 Lms. TRs. wht to crm -
 chlk + tan; crypto to v. v. fn. xln; extaly
 oolitic med, lg + TRs sm) matrix
 sub-chlk, sub-sucro to sucro. ; scattered
 TRs pin point size pieces w/ brn oil stain;
 yel. fluor; good staining cuts; No Vis
 POR pieces so small; abn loose oolites
 huy TRs chert gray, tan to orange
 tan to opaque

5332-5344 Lms similar 5312-5325
 Dolo grayish tan; v. u. fn. xln; sub-sucro to sucro
 sl. Calc IP's; dul yel to yel fluor; No cut; No Vis POR

Interbedded Limestones
 (1) Oolitic Lms similar 5236-5312
 (2) Lms. grayish tan to tan; crypto to v. u. xln
 sub-chlk; TRs sub-sucro + pachs; dul. yel. to dul H. yel. fluor.; No cut;
 No Vis POR

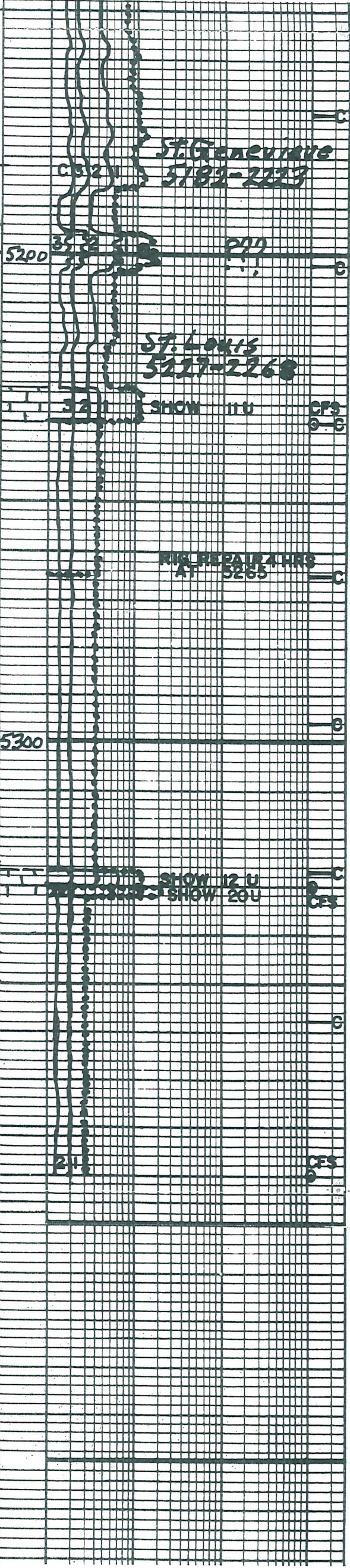
Dolo. similar 5344-5350
 TD 5390

77/8 inch Bit Info:
 Bit #1 New Smith F27I
 in 1812 out 5110
 Bit #2 Rerun Smith F12YI
 in 5110 out 5390 TD

Dev. Surv
 1. 1120 3/4° 4. 4639 3/4°
 2. 1812 2 1/4° 5. 5110 1°
 3. 2398 3/4° 6. 5390 1/2° TD

Cir. Points
 1. 4114 7. 4780 13. 5100
 2. 4639 8. 5000 14. 5110
 3. 4669 9. 5020 15. 5234
 4. 4702 10. 5038 16. 5330
 5. 4715 11. 5060 17. 5390 TD
 6. 4760 12. 5080

Daily Drilg. Report



1. 3800 5:25AM 9-29-2011
 2. 3837 7:00AM 9-29-2011
 3. 4352 7:00AM 9-30-2011
 4. 4639 7:00AM 10-1-2011
 5. 4702 7:00AM 10-2-2011
 6. 4926 7:00AM 10-3-2011
 7. 5100 7:00AM 10-4-2011
 8. 5110 7:00AM 10-5-2011
 9. 5265 7:00AM 10-6-2011
 10. 5390 7:00AM 10-7-2011

DST #1 Marmaton "B" 4627-4639
 10 Weak Surface Blow Died 30sec.
 FO No Blow
 Rec 10ft 100% Mud BHT 115.7°F
 IHP 2247
 IFP 19-27 in 15 min
 ISIP 215 in 30 min
 FFP 22-32 in 30 min
 FSIP 268 in 60 min
 FHP 2191

DST #2 Morrow Fm 5091-5110
 10 1/8 inch blow died 25min
 FO No Blow
 Rec 3 feet 100% Mud BHT 121°F
 IHP 2506 #
 IFP 25-24 # in 30 min
 ISIP 157 # in 60 min
 FFP 26-26 # in 30 min
 FSIP 76 # in 60 min
 FHP 2440 #

Mud Info:

Date	9-28 9:15P	9-29 4:45P	10-1 4:50P	10-2 1:45P	10-3 1:55P	10-4 1:50P	10-5 2:00P
Depth	3446	4016	4580	4639	4760	5000	5110
Wt.	9.3	9.25	9.2	9.15	9.1	9.15	9.15
Vis	33	43	49	40	49	50	54
PV	3	12	14	12	15	15	17
YP	3	12	16	14	11.5	16	18
GS	3/4	13/34	14/46	12/33	14/45	14/49	16/52
WL	N/C	14.0	9.6	9.2	8.0	7.6	7.6
Cake	-	1/32	1/32	1/32	1/32	1/32	1/32
pH	7.0	9.0	9.5	10.0	11.0	11.5	11.0
Chl	13000	4900	3200	2300	4000	3500	4000
Ca	4V4	160	20	20	20	20	20
LCM	2	4	4	2	4	5	3

Date	10-6 1:30P
Depth	5295
Wt.	9.35
Vis	51
PV	16
YP	18
GS	15/47
WL	8.8
Cake	1/32
pH	11.0
Chl	4000
Ca	20

157 25-24 in 50 min
 151P 157# in 60 min
 FFP 26-26# in 30 min
 FSIP 76# in 60 min
 FHP 2440#

Mud Info:

Date	9-28 1:50P	9-29 1:15P	9-30 4:45P	10-1 4:50P	10-2 1:45P	10-3 1:55P	10-4 1:50P	10-5 2:00P
Depth	3446	4016	4580	4639	4760	5000	5110	5171
Wt.	9.3	9.25	9.2	9.15	9.1	9.15	9.15	9.2
Vis	33	43	49	40	49	50	54	51
PV	3	12	14	12	15	15	17	16
YP	3	12	16	14	11.5	16	18	16
GS	3/4	13/34	14/46	12/33	14/45	14/49	14/52	15/48
WL	N/C	14.0	9.6	9.2	8.0	7.6	7.6	8.0
Cake	-	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	7.0	9.0	9.5	10.0	11.0	11.5	11.5	11.0
Chl	13000	4900	3200	2300	4000	3500	4000	5100
Ca	HVV	160	20	20	20	20	20	20
LCM	2	4	4	2	4	5	3	3

Date	10-6 1:00P							
Depth	5295							
Wt.	9.35							
Vis	51							
PV	16							
YP	18							
GS	15/47							
WL	8.8							
Cake	1/32							
pH	11.0							
Chl	4000							
Ca	20							
LCM	2							

OPERATOR BEREXCO LLC LOCATION 1980'FNL & 1980'FWL
 LEASE EARL "B" NO. 1-6 SEC. 6 TWP. 27S Rng. 33W
 ELEVATION 2959 RTD 5390 COUNTY HASKELL STATE KANSAS

OCT 17 2011

Koda Services, Inc.

CC **INVOICE**

Conductor and Rat Hole Drilling, Landfill Gas Drilling and Well Construction Nationwide

Date	Invoice #
9/23/2011	9402

Bill To
Berexco, Inc. P O Box 20380 Wichita, KS 67208

Well 7 all

Ordered By	Terms	Field Tkt	Legal Description	Lease Name	Drill Rig
	Net 30	6720	Sec. 6-27S-33W	Earl B 1-6	

Item	Quantity	Description
Conductor	132	Drilled 132' of 32" hole for conductor
20" Pipe	132	Furnished 132' of 20" conductor pipe
Ream Hole		Ream Hole
60" X 5'	1	Furnished 5' X 5' tinhorn
Dirt Removal		Provided Labor and Equipment for dirt removal and cleanup
Mud/Water		Freight/Trucking charge for mud/water
Welder		Welder
Grout		Furnished grout
Deliver Grout		Deliver grout to location
Cover Plate		Cover Plate
Permits		Permits

Subtotal	\$23,665.00
Sales Tax (6.8%)	\$591.60

Thank you for your business.	Total	\$24,256.60
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ALLIED CEMENTING CO., LLC. 037743

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: med. Lodge

DATE <u>10-8-11</u>	SEC <u>6</u>	TWP. <u>27S</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00 pm</u>	JOB FINISH <u>10:00 pm</u>
LEASE <u>Earl</u>	WELL # <u>B 1-6</u>	LOCATION <u>North of Sublette on 83 to CR #50</u>			COUNTY <u>Finley</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>Twist to R&FF, 2 1/2 N, 1/2 E, 1 N, 1 E, 1 N, 1 E</u>					

CONTRACTOR Berrow's #2
 TYPE OF JOB Rotary plug
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE 8 5/8 DEPTH
 TUBING SIZE DEPTH
DRILL PIPE 4 1/2 DEPTH 1850'
 TOOL DEPTH
 PRES. MAX 400 psi MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT

OWNER Berrow's
 CEMENT
 AMOUNT ORDERED 155.00 60:40:9% gel + 1/4" Flo Seal
 COMMON A 93 SK @ 16.25 1511.25
 POZMIX 62 SK @ 8.50 527.00
 GEL 6 SK @ 21.25 127.50
 CHLORIDE @
 ASC @
Flo Seal 38.75 @ 2.70 104.62
 @
 @
 @
 @
 @
 @
 @
 @
 HANDLING 163 @ 2.25 366.75
 MILEAGE 163/11/50 896.50
 TOTAL 3533.62

EQUIPMENT

PUMP TRUCK CEMENTER Matthew Mesch
 # 360/265 HELPER Jason Thomasch
 BULK TRUCK
 # 421/252 DRIVER Adam Miller
 BULK TRUCK
 # DRIVER

REMARKS:

1st plug
Run pipe to 1850' pump 20 bbls H₂O ahead
mix 50 SK disp 11 bbls cement at 9 bbls H₂O
2nd plug pipe at 1050' pump 25 bbls H₂O ahead
mix 50 SK disp 10 bbls H₂O
3rd plug pipe at 60' mix 20 SK cement
plug Rot hole with 20 SK cement
plug misc hole with 15 SK cement

SERVICE

DEPTH OF JOB 1850'
 PUMP TRUCK CHARGE 1250.00
 EXTRA FOOTAGE @
 MILEAGE 50 @ 7.00 350.00
 MANIFOLD @
Light Vehicle 50 @ 4.00 N/C
 @
 TOTAL 1600.00

CHARGE TO: Berrow's
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

 @ _____
 @ _____
 @ _____
 @ _____
 @ _____
 TOTAL _____

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Dennis Wilson
 SIGNATURE Dennis Wilson

SALES TAX (If Any) _____
 TOTAL CHARGES 5133.62
 DISCOUNT 24% IF PAID IN 30 DAYS
NET 3901.55

OCT 11 2011

ALLIED CEMENTING CO., LLC. 036540

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
LIBERAL KS

DATE <u>9-25-11</u>	SEC. <u>10</u>	TWP. <u>27S</u>	RANGE <u>33W</u>	CALLED OUT	ON LOCATION	JOB START <u>9:15 AM</u>	JOB FINISH <u>10:30 AM</u>
LEASE <u>Earl B</u>	WELL # <u>1-6</u>	LOCATION <u>SUBLETTEK N to R150</u>		COUNTY <u>HASKEL</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)		<u>Ext. R150 FF 2 1/4 N + E to Loc</u>					

CONTRACTOR BAWECO #2
 TYPE OF JOB 8 1/2" SURFACE
 HOLE SIZE 12 1/2" T.D. 1810
 CASING SIZE 8 1/2" DEPTH 1792
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 1000 PSI MINIMUM 0
 MEAS. LINE SHOE JOINT 42.72'
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT 114.5 BBL
 EQUIPMENT
 PUMP TRUCK CEMENTER Bob
 # 372 HELPER LEASAR
 BULK TRUCK
 # DRIVER PUBIN
 BULK TRUCK
 # DRIVER

OWNER SAME
 CEMENT
 AMOUNT ORDERED 600 SK 60/40
8% GEL 3% CC 1/4 # RO SEAL
150 A 3% CC
 COMMON 150 A @ 16.25 2437.50
 POZMIX @
 GEL @
 CHLORIDE 26 SK CC @ 58.20 1513.20
 ASC @
600 LITE TYPE II @ 14.50 8700.00
FLOSEAL 150 LB @ 2.70 405.00
 HANDLING 782 @ 2.25 1759.50
 MILEAGE SK/mi x 11 4301.00
 TOTAL 19116.20

REMARKS:

Thank you
Circ cut to
SURFACE

CHARGE TO: BEREX CO
 STREET
 CITY STATE ZIP

SERVICE

DEPTH OF JOB 1810'
 PUMP TRUCK CHARGE 1925.00
 EXTRA FOOTAGE @
 MILEAGE 100/50 mi @ 7.00 350.00
 MANIFOLD LVM @ NC
 TOTAL \$ 2275.00

PLUG & FLOAT EQUIPMENT

8 1/2"
 1- AFW @ 156.00
 1- GUIDE SHOE @ 254.00
 3- CENTRALIZERS @ 50.00 150.00
 2- BASKET @ 243.00 486.00
 1- Plug @ 54
 TOTAL \$ 1130.00

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Myle Salinas
 SIGNATURE [Signature]

SALES TAX (If Any)
 TOTAL CHARGES 22521.20
 DISCOUNT 24% 5419.58 IF PAID IN 30 DAYS
\$ 17,341.32