



KANSAS CORPORATION COMMISSION 1067576  
OIL & GAS CONSERVATION DIVISION

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 # \_\_\_\_\_

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

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: \_\_\_\_\_



1067576

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Eakin Unit #2-7
Doc ID	1067576

All Electric Logs Run

Dual Induction
Compensated Neutron Density
Micro
Sonic
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Eakin Unit #2-7
Doc ID	1067576

Tops

Name	Top	Datum
Topeka	3079	-1061
Heebner	3444	-1426
Lansing	3566	-1548
Base KC	3796	-1778
Marmaton	3806	-1788
Simpson SS	3864	-1846
Arbuckle	3926	-1908
Total Depth	4025	-2007



CAPTIVA ENERGY, LLC

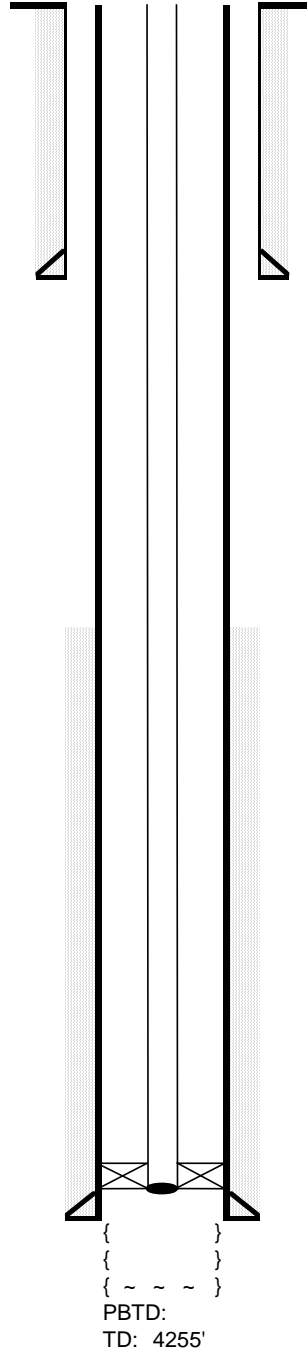
**Eakin #2-7 SWD**  
SE-NE-NW-SE  
2075' FSL & 1500' FEL  
Sec. 7, T22s-R16w  
Pawnee County, Kansas

Spud Date: 1/4/2011  
Completed: 7/19/2011  
  
API # 15-145-21626-0000  
  
Field:  
  
GL: 2007'  
KB: 2018'

**Surface Casing :**  
8-5/8" 23# set @ 1035'  
Cemented with 400 sx  
60/40 Poz-Mix

**Production Casing:**  
5-1/2", 15.5# set @ 4047'  
Cemented with 250 sx  
100 sx Servlite/150 sx AA2

Arrow Set -1 Packer set at 4013'



TOC: Surface

**Tubing:**  
125 joints 2-7/8" Seal-Tite

TOC: 3246' CBL

Arbuckle O.H. from 4047'-4255'

Scale 1:240 Imperial

Well Name: Captiva II #2-7 Eakin Unit  
Surface Location: 2051' FSL\_1500' FEL, Sec. 7, T22S, R16W  
Bottom Location:  
API: 15-145-21626-00-00  
License Number:  
Spud Date: 1/4/2011 Time: 8:42 AM  
Region: Pawnee County  
Drilling Completed: 1/11/2011 Time: 10:30 AM  
Surface Coordinates: x=1822061 & y=541046  
Bottom Hole Coordinates:  
Ground Elevation: 2007.00ft  
K.B. Elevation: 2018.00ft  
Logged Interval: 2950.00ft To: 4025.00ft  
Total Depth: 4025.00ft  
Formation: Arbuckle  
Drilling Fluid Type: Chemical

**OPERATOR**

Company: Captiva II  
Address: 445 Union Blvd., Suite 208  
Lakewood, CO 80228  
Contact Geologist: Janine Sturdavant  
Contact Phone Nbr: 303-907-2209  
Well Name: Captiva II #2-7 Eakin Unit  
Location: 2051' FSL\_1500' FEL, Sec. 7, T22S, R16W  
Pool: Wildcat  
State: Kansas Country: USA  
API: 15-145-21626-00-00

**LOGGED BY**



# Charlie Sturdavant Consulting

Company: Charlie Sturdavant Consulting  
Address: 920 12th Street  
Golden, CO 80401  
Phone Nbr: 303-907-2295  
Logged By: Geologist Name: Charlie Sturdavant

**Remarks and Recommendations**

After reaching TD and evaluating the open hole logs, the DST, sample shows, and the thin Simpson Sand, it was recommended to plug and abandon the Eakin Unit # 2-7.

The samples will be delivered to the KGS Sample Library in Wichita, KS, for future review.

Respectfully submitted,

Charlie Sturdavant

**Well Comparison Sheet**

DRILLING WELL					COMPARISON WELL			
Captiva II #2-7 Eakin Unit					Gulf Oil #1 Haege			
2051' FSL & 1500' FEL					NE-NE-NE			
Sec. 7, T22S R16W					Sec.13, T22S R17W			
					Structural Relationship			
	2018	KB			2022	KB		
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Anhydrite	1018	1000	1020	998	1070	952	48	46
Topeka	3079	-1061	3078	-1060	3126	-1104	43	44
Heebner	3444	-1426	3444	-1426	3488	-1466	40	40
Toronto	3466	-1448	3450	-1432	3508	-1486	38	54
Douglas	3480	-1462	3478	-1460	3523	-1501	39	41
Brown Lime	3556	-1538	3544	-1526	3591	-1569	31	43
Lansing	3566	-1548	3552	-1534	3598	-1576	28	42
Muncie Creek	3690	-1672	3676	-1658	3728	-1706	34	48
Stark Shale	3760	-1742			3800	-1778	36	
Base KC	3796	-1778	3776	-1758	3857	-1835	57	77
Marmaton	3806	-1788	3816	-1798	3869	-1847	59	49
Simpson SS	3864	-1846	3864	-1846	3998	-1976	130	130
Arbuckle	3926	-1908	3916	-1898	4100	-2078	170	180
Total Depth	4025	-2007	4025	-2007	4155	-2133	126	126

**Daily Drilling Report**

DATE	7:00 AM DEPTH	REMARKS
1/4/2011	0 ft.	Moving to location.
1/5/2011	631 ft.	Drilling ahead with a 12 1/4" long tooth bit.
1/6/2011	1040 ft.	WOC. Set surface csg. To 1035' KB.
1/7/2011	1334 ft.	Drilling ahead.
1/8/2011	2563 ft.	Drilling ahead. Geologist on location at 2200 hrs. Topeka top @ 3079'
1/9/2011	3284 ft.	Tripping for a new bit @ 3488 ft. Geologist is running samples.
1/10/2011	3604 ft.	Drilling ahead. Lansing encountered at 3566 ft.
1/11/2011	3925 ft.	Circulating for samples in the Arbuckle. Will drill to a TD of 4025'. Had shows of oil.
1/12/2011	4025 ft.	Reached TD of 4025 yesterday. Ran logs. Currently straddle testing the shows in the Arbuckle 3854'-3925'.

DST # 1



Shelby Resources L.L.C.  
 2717 Canal Blvd. Suite C  
 Hays, Kansas 67601  
 ATTN: Charlie Sturdavant

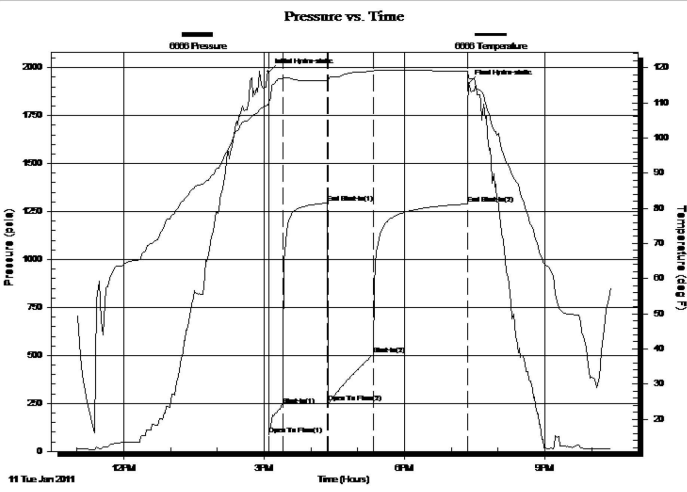
**Eakin Unit #2-1**  
**1-22s-16w Pawnee**  
 Job Ticket: 15759 **DST#: 1**  
 Test Start: 2011.01.12 @ 11:00:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3854.00 ft (KB) To 3925.00 ft (KB) (TVD)**  
 Total Depth: 4025.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Initial)  
 Tester: Gene Budig  
 Unit No: 3335-53  
 Reference Elevations: 2021.00 ft (KB)  
 2011.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 6666 Inside**  
 Press@RunDepth: 1289.21 psia @ 3922.43 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2011.01.11 End Date: 2011.01.11 Last Calib.: 2011.01.12  
 Start Time: 11:01:00 End Time: 22:26:00 Time On Btm: 2011.01.11 @ 15:05:30  
 Time Off Btm: 2011.01.11 @ 19:22:30

**TEST COMMENT:** 1st Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 6 minutes  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 12 minutes  
 2nd Shut-In 120 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1976.54	109.53	Initial Hydro-static
1	86.77	109.15	Open To Flow (1)
19	241.00	116.88	Shut-In(1)
76	1294.22	116.42	End Shut-In(1)
77	254.45	116.03	Open To Flow (2)
135	505.51	119.00	Shut-In(2)
256	1289.21	118.87	End Shut-In(2)
257	1916.50	117.42	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
90.00	Watery Mud 70% mud 30% water	0.44
180.00	Muddy Water 40% Mud 60% Water	1.43
180.00	Muddy Water 10% Mud 90% Water	2.52
180.00	Muddy Water 5% Mud 95% Water	2.52
300.00	Water 1% Mud 99% Water	4.21
0.00	Chlorides 24000	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

**SURFACE CO-ORDINATES**

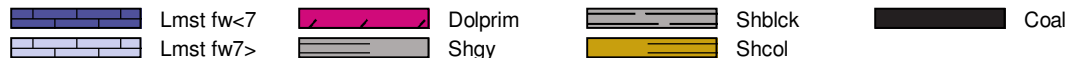
Well Type: Vertical  
 Longitude: -99.118786982 Latitude: 38.150956978  
 N/S Co-ord: x=1822061  
 E/W Co-ord: y=541046



**CONTRACTOR**

Contractor:	Sterling Drilling		
Rig #:	2		
Rig Type:			
Spud Date:	1/4/2011	Time:	8:42 AM
TD Date:	1/11/2011	Time:	10:30 AM
Rig Release:	1/13/2011	Time:	12:00 AM

**ROCK TYPES**



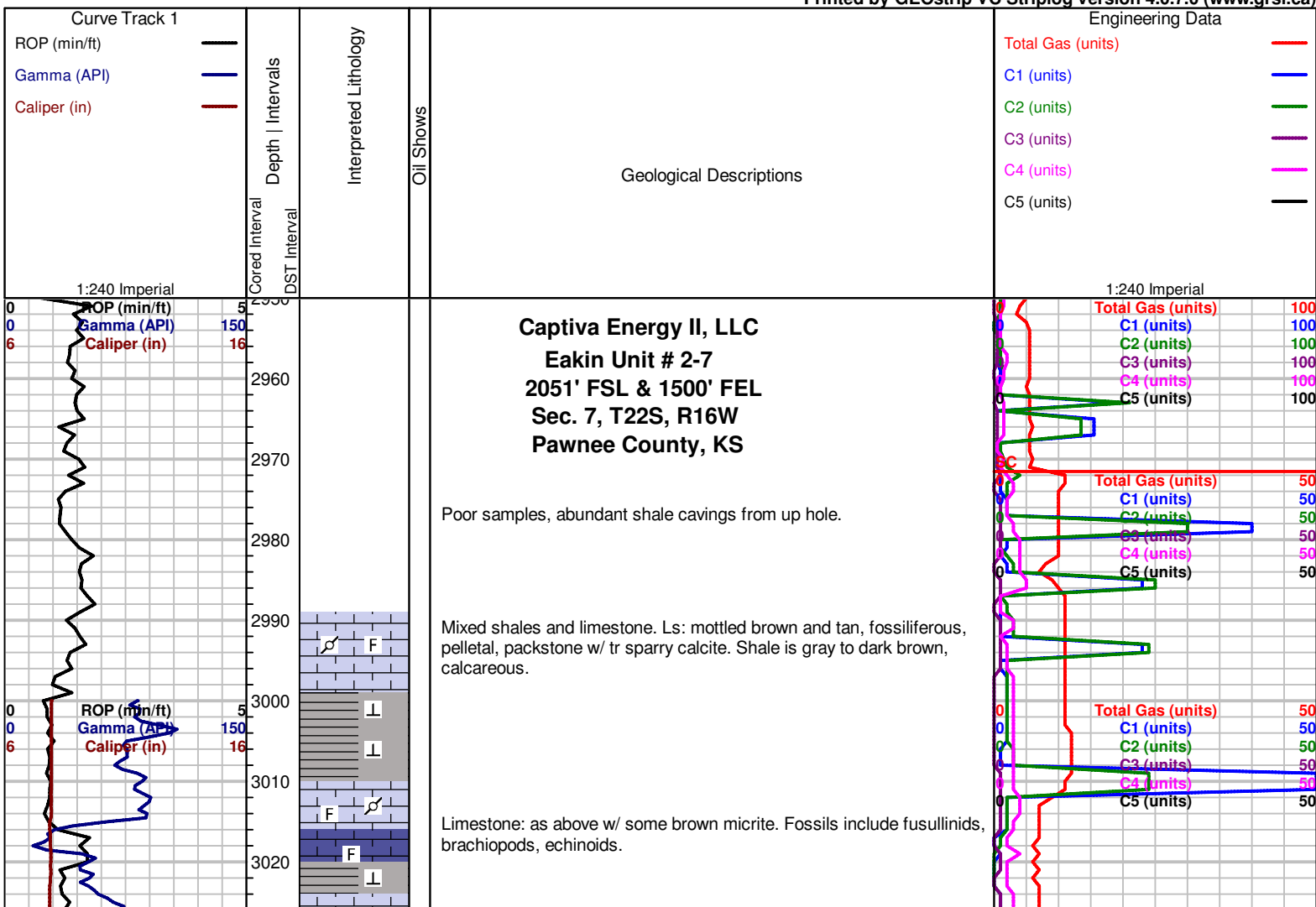
**ACCESSORIES**

- |                |                            |                            |                 |                |
|----------------|----------------------------|----------------------------|-----------------|----------------|
| <b>MINERAL</b> | <b>FOSSIL</b>              | <b>STRAT./SED. STRUCTS</b> | <b>STRINGER</b> | <b>TEXTURE</b> |
| ⊥ Calcareous   | ∩ Bioclastic or Fragmental | ~ Stylolite                | --- Siltstone   | C Chalky       |
| ▲ Chert, dark  | ◇ Brachiopod               |                            |                 | L Lithogr      |
| ↘ Dolomitic    | ⋈ Bryozoa                  |                            |                 |                |
| P Pyrite       | ○ Crinoids                 |                            |                 |                |
| △ Chert White  | F Fossils < 20%            |                            |                 |                |
|                | ⊙ Gastropod                |                            |                 |                |
|                | ⊘ Oolite                   |                            |                 |                |
|                | ⊙ Pellets                  |                            |                 |                |
|                | ○ Oolites                  |                            |                 |                |
|                | ▲ Spicules                 |                            |                 |                |

**OTHER SYMBOLS**

- |                         |                  |
|-------------------------|------------------|
| <b>OIL SHOWS</b>        | <b>INTERVALS</b> |
| ● Even Stn              | ■ Core           |
| ● Spotted Stn 50 - 75 % | · DST            |
| ● Spotted Stn 25 - 50 % |                  |
| ○ Spotted Stn 1 - 25 %  |                  |
| ○ Questionable Stn      |                  |
| D Dead Oil Stn          |                  |
| ■ Fluorescence          |                  |

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

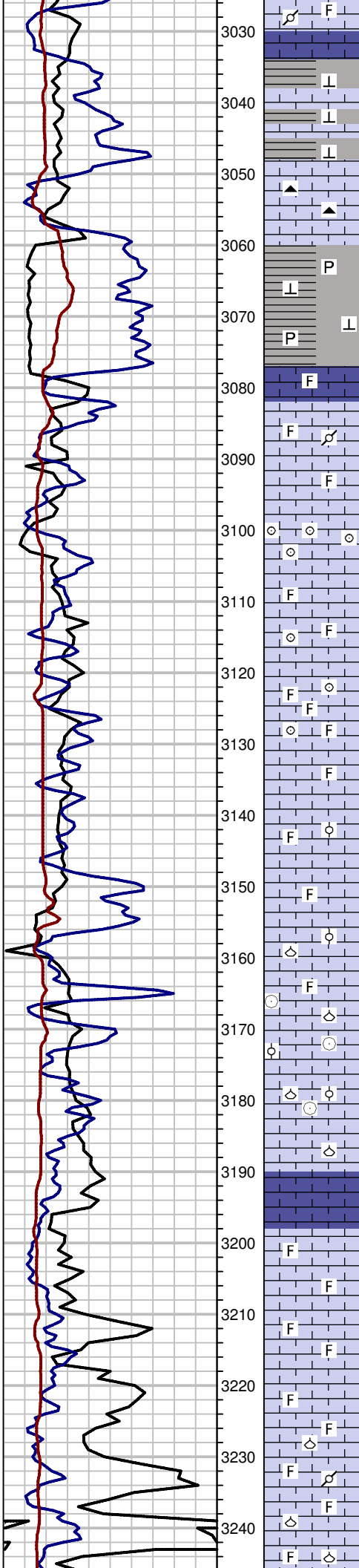


**Captiva Energy II, LLC**  
**Eakin Unit # 2-7**  
**2051' FSL & 1500' FEL**  
**Sec. 7, T22S, R16W**  
**Pawnee County, KS**

Poor samples, abundant shale cavings from up hole.

Mixed shales and limestone. Ls: mottled brown and tan, fossiliferous, pelletal, packstone w/ tr sparry calcite. Shale is gray to dark brown, calcareous.

Limestone: as above w/ some brown micrite. Fossils include fusullinids, brachiopods, echinoids.



Shale: gray to lt gray w/ dark specks of organic matter. Also brownish, calcareous, fossiliferous shale.

Limestone as above w/ brown, vitreous chert.

Shale, gray to lt gray, organic spots, calcareous, soft. Tr. pyrite.

### Topeka 3079 (-1061)

Limestone, tan to cream, micrite to lithographic, to sli fossiliferous wackestone. Fussulinids, pellets

Limestone: tan, more fossiliferous than above, Packstone.

Limestone: tan to lt brown, fossiliferous packstone to oolitic grainstone. Dense, no porosity.

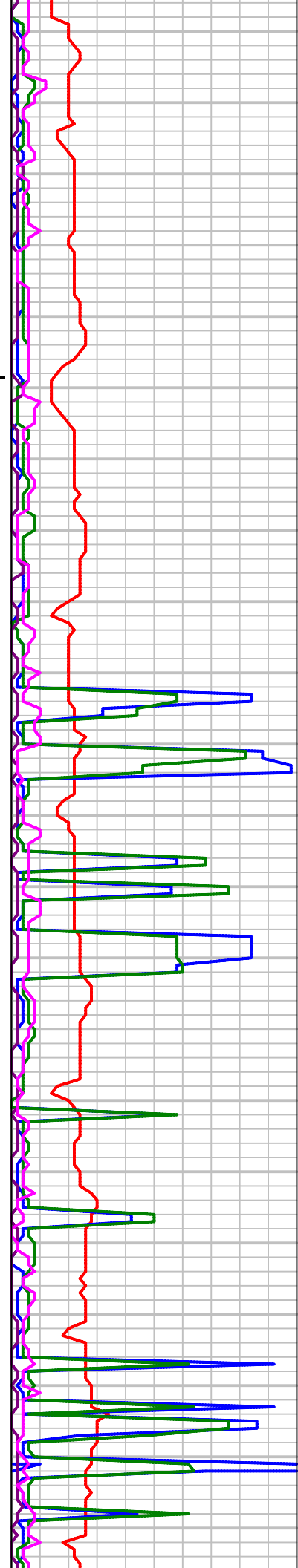
Limestone: tan to lt tan, fossiliferous, pelletal, oolitic, sparry, fair inter-xln porosity, packstone.

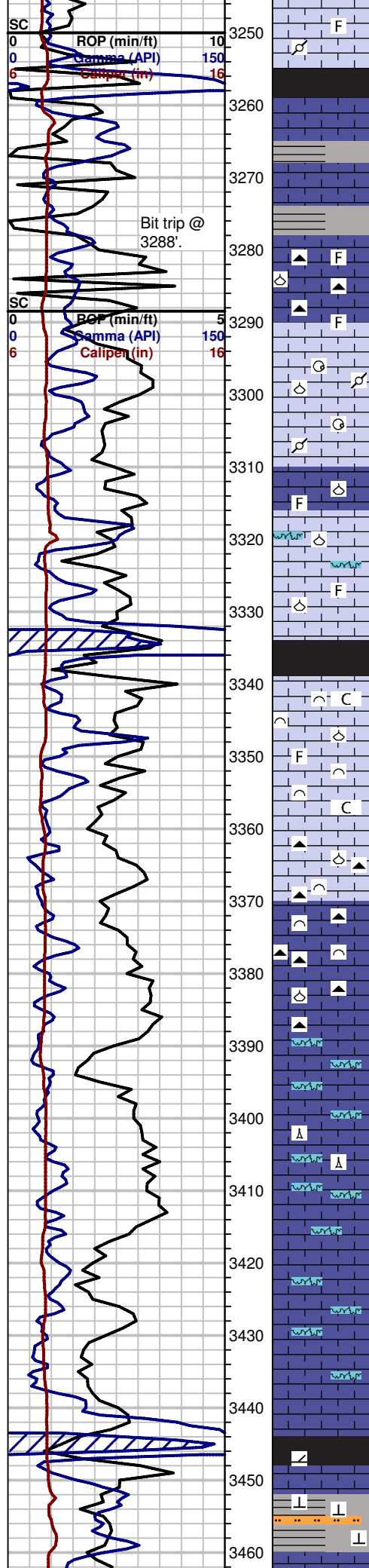
Limestone: tan to lt brown, fossiliferous, fassulinids, brachiopods, crinoids, packstone, w/ tr micrite, lithographic, sparry spots w/ fair porosity.

Limestone: tan to lt brown, more micrite than fossils, wackestone to mudstone, tight, dense no porosity.

Limestone, w/ porosity, packstone, tan, fossiliferous.

Limestone: cream to tan, more fossiliferous, fassulinids, brachiopods, pellets, packstone.





### King Hill Shale 3255 (-1237)

Shale, black, organic, dolomitic.

Limestone as above w/ some micrite and interlayered with argillaceous ls and calcareous brownish-gray shale.

Limestone: tan, fossiliferous packstone to cream micrite, to lt brown, fossiliferous, succrosic wackestone. Also black chert w/ white fussulinids.Brachiopods.

#### Begin 10' samples @ 3300'.

Limestone: cream, weakly to moderately fossiliferous, succrosic wackestone to packstone w/ fair micro-porosity.

Fussulinids, brachiopods, packstone as above. Some thin streaks of organic matter (stylolites?). Tr of black shale.

### Queen Hill Shale 3332 (-1314)

Black shale: dolomitic, carbonaceous

Limestone: cream to lt tan, chalky, broken fossil fragments, some granular/succrosic, some with thin organic laminations, packstone.

Limestone: cream to lt tan, succrosic to fossiliferous w/ broken fossil frags., some chalky. White to lt gray, mottled, pitted chert.

Limestone as above with lt brown, fossiliferous, mud-supported wackestone. More chert as above. Micro-xln.

Some ls is chalky.

Limestone: cream to tan, micritic to micro-xln, stylolitic, partly chalky, silty fossiliferous.

Limestone: cream to tan, crypto- to macro-xln, micritic, tr fossiliferous, spicules, stylolites.

Limestone as above.

### Heebner Shale 3444 (-1426)

Shale: black, carbonaceous, dolomitic.

Shale: gray, calcareous, tr. fossil fragments, with silty streaks.

### Toronto 3460 (-1442)

Total Gas (units)	50
C1 (units)	50
C2 (units)	50
C3 (units)	50
C4 (units)	50
C5 (units)	50

Mud-Co mud check  
@3286'  
0755 hrs, 1/09/2011  
Vis 46, Wt 9.1  
PV 13, YP 10  
WL 10.2  
Cake 1/32, pH 8.5  
CHL 64000 ppm  
Ca 40 ppm  
Sol 5.4, LCM 4  
DMC \$1460.65  
CMC \$7999.60

Limestone: lt brown to tan, micro- to crypto-xln, micrite, tr well-cemented oolites, tr sparry calcite, lithographic. No shows.

### Douglas 3480 (-1462)

Shale: gray to brown, calcareous, brittle.

Still an abundance of limestone, (probably cavings, including Heebner shale).  
Shale as above with some lt greenish-gray, and streaks of brown siltstone.

Shale as above. Noted one small (4mm) brachiopod. Still flooded with limestone.

Sample is dominated by limestone cavings, and we still have black shale from the Heebner.

As above, tr reddish-brown shale and siltstone.

Mixed, varicolored shales, siltstone and vf-gr sandstone.

### Brown Lime 3544 (-1526)

### Lansing 3552 (-1534)

Limestone: lt brown micrite, no porosity.

Limestone: cream to lt tan, lithographic micrite to sli fossiliferous wackestone. Tr intercrystalline porosity in the sparry portions of the lithographic ls. Tr. sli fossiliferous wackestone.

NOTE: The samples are carrying an abundance of shales, caving from the overlying Douglas interval.

Limestone: white to cream, micro-xln, tr fossiliferous, wackestone, weak porosity. No shows.

Limestone as above.

Limestone: brown, agrillic, pelletal, tr fossiliferous, wackestone. Tr spiculated chert, vitreous, lt gray.

Limestone: Brown, sli fossiliferous, tight, mudstone. No shows. Trace amounts of lt gray, fossiliferous packstone.

**NOTE:** the sample catcher discarded the proper samples and saved those that he should have discarded, ie poor samples from 3640'-3700'

This type of drilling break is usually associated with porosity, generally oolitic in the L/KC, but the samples only show mud-supported fossils and pellets...no oolites.

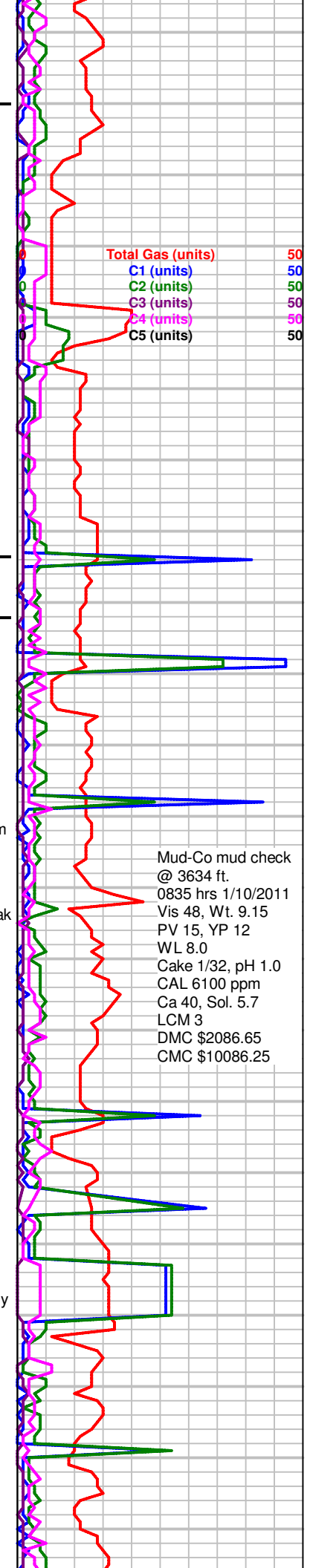
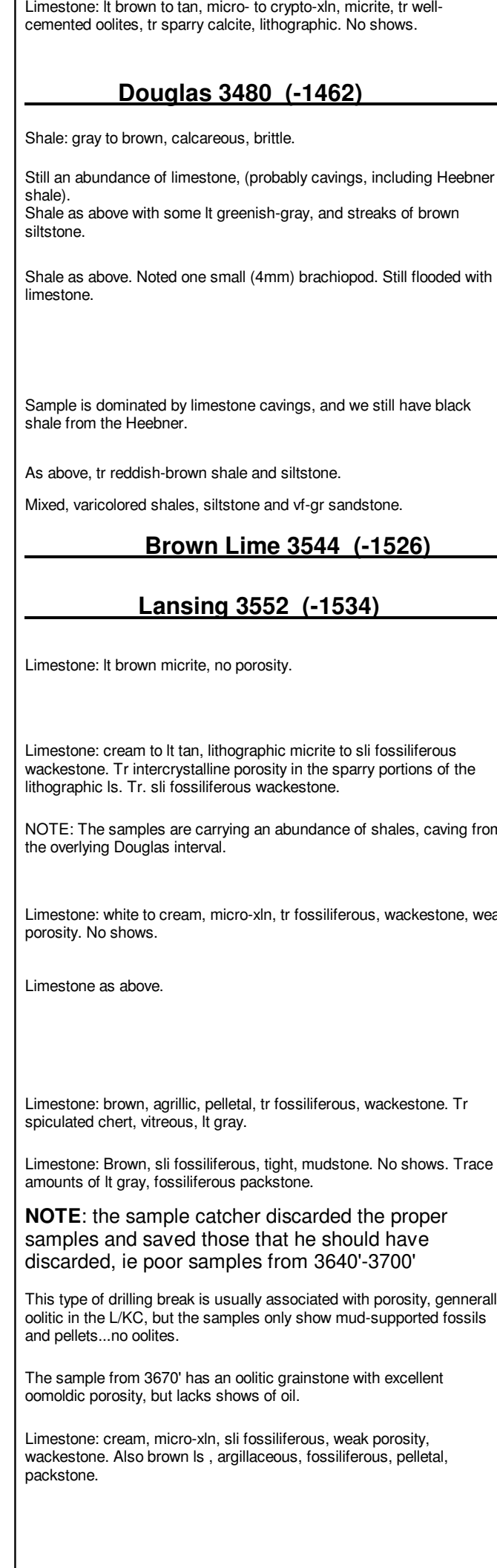
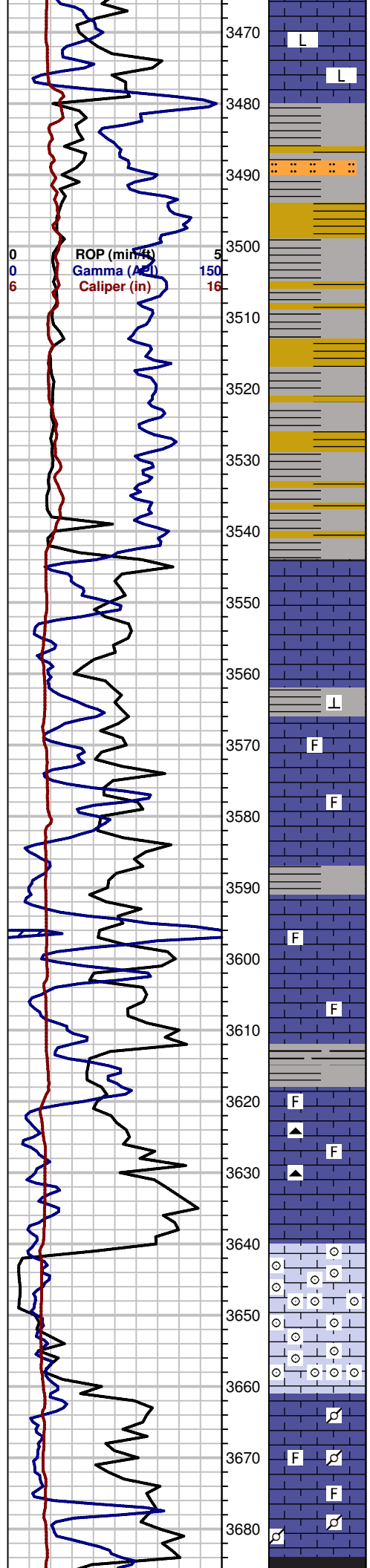
The sample from 3670' has an oolitic grainstone with excellent oomoldic porosity, but lacks shows of oil.

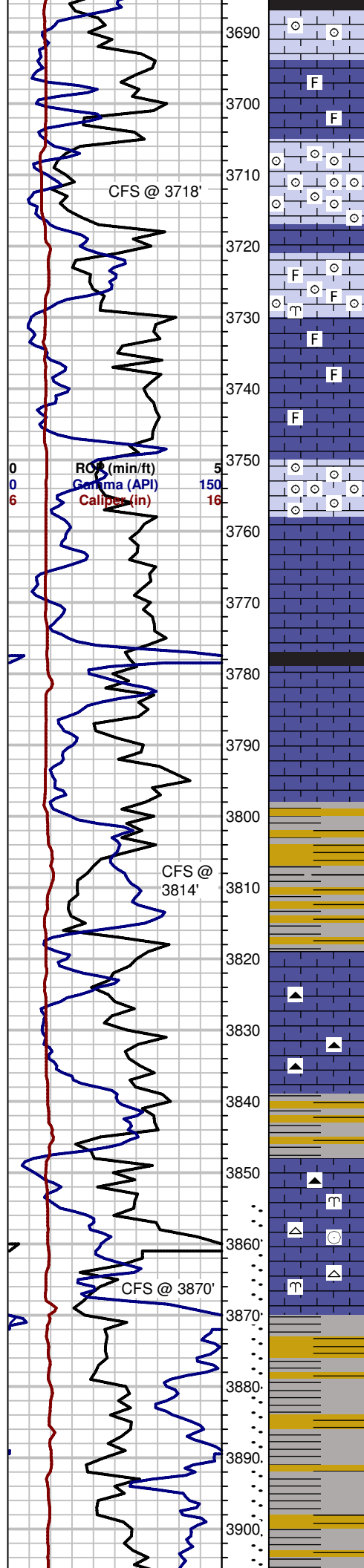
Limestone: cream, micro-xln, sli fossiliferous, weak porosity, wackestone. Also brown ls, argillaceous, fossiliferous, pelletal, packstone.

ROP (min/ft) 5  
Gamma (API) 150  
Caliper (in) 16

Total Gas (units) 50  
C1 (units) 50  
C2 (units) 50  
C3 (units) 50  
C4 (units) 50  
C5 (units) 50

Mud-Co mud check  
@ 3634 ft.  
0835 hrs 1/10/2011  
Vis 48, Wt. 9.15  
PV 15, YP 12  
WL 8.0  
Cake 1/32, pH 1.0  
CAL 6100 ppm  
Ca 40, Sol. 5.7  
LCM 3  
DMC \$2086.65  
CMC \$10086.25





Limestone: cream, oolitic grainstone w/ oomoldic porosity, no shows.

Limestone: cream to lt tan, micro-xln w/ limited porosity, tr fossiliferous, wackestone, tr sparry calcite.

Limestone: cream, oolitic grainstone w/ oomoldic porosity, no shows. Tr rhombopora.

Limestone: cream to lt tan, fossiliferous, micro-xln, weak porosity, packstone to wackestone. Tr oolitic grainstone, spicules, fossil debris, micro-xln w/ fair inter-xln porosity.

Limestone: lt tan, fossiliferous to micritic-lithographic, wackestone, weak inter-xln porosity.

Limestone: cream, oolitic grainstone w/ oomoldic porosity, no shows.

Limestone: white to cream, lithographic micrite, with inter-xln por in the sparry portions. No shows. Tr black shale.

**Base KC 3776 (-1761)**

Limestone: lt brown, fossiliferous, pelletal, micro-xln wackestone to dense crypto-xln micrite.

Shale: vari-colored, reddish, brown, and gray. Mixed with limestone, tan, tr fossiliferous, micro-xln, wackestone.

Shale as above with black also.

Vari-colored shale, red, brown, gray.

Shale: multi-colored as above, with lt greenish-aqua.

Limestone: tan, micro-xln, tr fossiliferous, mostly micritic w/ sparry calcite, lt orange, vitreous chert. I also see individual, vf-gr, sub-rounded qtz sand grains in the bottom of the tray.

Limestone: as above w/ red to orange, vitreous to tripolitic chert. Fenestrate bryozoans and crinoids in ls.

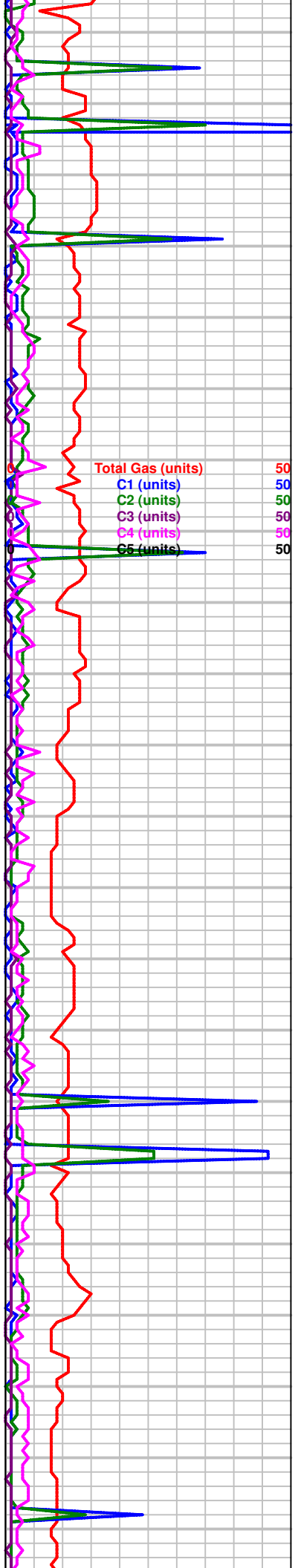
Mixed vari-colored shales and chert, with limestone: micro-xln to micritic, brown to tan. No shows. Tr pyrite, pyritized brachiopods 5mm in dia.

First sample after circulation shows everything that washed out from up the hole, mixed limestones, chert, and shales, including the greenish-aqua, waxy shale. Crinoids, bryozoans, pyritized gastropods, fussulinids.

As above: mixture of ls, shale and chert.

As above w/ a few fragments of f-gr, brown, qtzose ss.

As above: more ss fragments, layered w/ greenish-aqua shale. Much of the ls is micritic to micro-xln, cream to lt tan. Oolitic ls is present



(cavings from L/KC?). Greenish-aqua shale has rather sharp, fresh, angular breaks and is more abundant here.

### Arbuckle 3916 (-1898)

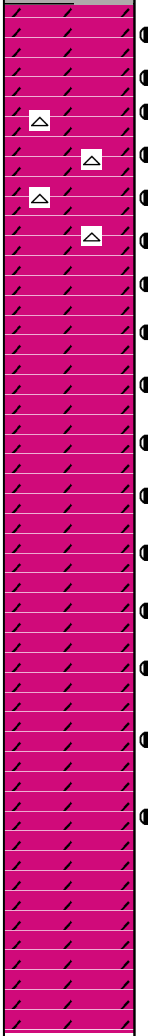
DST #1,  
3854'-  
3925', rec:  
90' WM,  
840' MW.

CFS @ 3936'

CFS @ 3982'

ROP (min/ft)  
Gamma (API)  
Caliper (in)

5  
150  
16



Dolomite: white to cream, good inter-xln porosity, spotty, streaky oil show, strong aroma, weak cut, looks rather heavy. When dissolved in acid, the dolo yields fine, black particulates of heavy to dead oil. Chert: white, included in the dolomite, also has a spotty oil show.

Dolomite: as above with succrosic texture and fair inter-xln porosity. The oil can be made to cut more easily with acid.

Dolomite rhombs as large as 0.3mm, with good inter-xln porosity, and oil staining, causing a brown color.

Dolomite as above, with odor, staining and cut. Also the same succrosic dolo is present without oil staining. Could the stained fragments be caving from above?

Dolomite: both succrosic w/ spotty staining, and w/o staining. Also micritic dolo, hard tight, no por., tan in color. Sample cup has odor.

Dolomite: cream to tan, micritic and tight to succrosic and porous. Some of the succrosic dolo has spotty oil staining. Cup has strong odor.

Dolomite: cream, micro- to crypto-xln, micritic, tight. Still some succrosic dolo w/ inter-xln porosity and spotty dark oil staining. Cup has strong oil aroma.

Gas check

Mud-Co mud check  
@ 4009 ft.  
0915 hrs, 1/11/2011  
Vis 62, Wt. 9.4  
PV 21, YP 22  
WL 8.0  
Cake 1/32, pH 9.5  
CHL 6000 ppm  
Ca 40 ppm  
Sol 7.5, LCM 2  
DMC \$2122.15  
CMC \$12208.40  
C5 (units)

### Rotary TD 4025' (-2007)

**Rotary TD @ 4025', 1030 hrs, 1/11/2011**  
**Superior Well Services Logging TD 4026'**  
**Complete logging operations 2020 hrs 1/11/2011**  
**Geologist Charlie Sturdavant off location**  
**@ 1200 hrs, 1/12/2011**

4060





## *CAPTIVA II, LLC*

### **Eakin Unit # 2-7 OWWO/Casing Report**

**API# 15-145-21626-0000**

SE-NE-NW-SE

2075' FSL & 1500' FEL

Sec. 7, T22s-R16w

Pawnee County, Kansas

**GL: 2007'**

**KB: 2018'**

#### 1/05/2011 **Surface Casing**

Spud at 9:00 p.m. on 1/04/11. Drill 12¼" hole to 1040'. Ran 23 joints of new 8.5/8"-23# casing, tallied 1021.98' and set at 1035' KB. Cemented by Quality Cementing with 400 sx 60/40 Poz 2% gel, 3% CC. cement did circulate. Plug down at 9:30 p.m. a.m. welded straps on the bottom 3 joints and welded straps on the top 5 joints.

#### 6/24/2011 **Production Casing**

On location @ 5:00 p.m. RIH with drill pipe and condition the hole. Laying down drill pipe and collars, Begin running 99 joints 5 ½" (15.5#) J-55 new casing. Shoe joint was 21.12'. Insert @ 4025.94'. Marker joint was 5 joints off bottom and measured 21.49'. Set casing @ 4047.06' KB. Landed casing 207.94' off RTD 4255'. Ran a Tri-Plex Shoe on bottom, a basket and insert on top of #1 and centralizers on #3, #5, #7, #9, #11, #13 and #15. Landed casing @ 11:30 p.m. (6/23/11) Circulate hole for 60 minutes to lower viscosity in mud. RU Basic Services, plug RH with 30 sx. and MH with 20 sx. Mix and pump 100 sx A-Servlite followed by 150 sx AA-2 cement down casing. Had good circulation throughout the job. Plug down @ 1:00 a.m. and held 1500#. Release pressure and float held. Release Sterling Rig #4 @ 4:00 p.m.

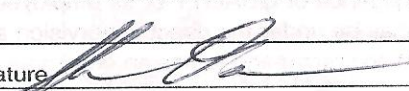
# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 5082

Date	1-5-11	Sec.	7	Twp.	22	Range	16	County	Pawnee	State	Ks	On Location		Finish	9:30 PM
Lease	Eakin unit			Well No.	#2-7			Location	Larned Ks - w on 56 Hwy to mm18						
Contractor	Sterling			Rig #	#2			Owner	J.S.						
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.	1040'			Charge To	Shelby Resources / Captiva						
Csg.	8 5/8"			Depth	1036'			Street							
Tbg. Size				Depth				City	State						
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	42.00'			Shoe Joint	42.00'			Cement Amount Ordered	400 5x 60/40 3% CL 2% CL						
Meas Line				Displace	6 3/4 BLS										
<b>EQUIPMENT</b>															
Pumptrk	1	No.	Cement Helper	Dente			Common	240							
Bulktrk	12	No.	Driver	Cory			Poz. Mix	160							
Bulktrk	pur	No.	Driver	Rick			Gel.	8							
<b>JOB SERVICES &amp; REMARKS</b>								Calcium 15							
Remarks:	Cement did Circulate														
Rat Hole															
Mouse Hole															
Centralizers															
Baskets															
D/V or Port Collar															
	Sand														
	Handling 423														
	Mileage														
<b>FLOAT EQUIPMENT</b>															
	Guide Shoe														
	Centralizer														
	Baskets														
	AFU Inserts														
	Float Shoe														
	Latch Down														
	1 - Baffle plate														
	1 - Rubber plug														
	Pumptrk Charge Long Surface														
	Mileage 31														
												Tax			
												Discount			
												Total Charge			
X Signature															



Customer: <u>Shelby Resources</u>		Lease No.		Date: <u>6-23-11</u>	
Lease: <u>Eakin</u>		Well #: <u>2-7</u>			
Field Order #: <u>H913</u>	Station: <u>Pratt</u>	Casing: <u>5 1/2</u>	Depth: <u>4047</u>	County: <u>Pawnee</u>	State: <u>KS</u>
Type Job: <u>CNW - 5 1/2 L.S.</u>			Formation:	Legal Description: <u>7-22-16</u>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<u>5 1/2</u>	<u>4 1/2</u>		<u>10050</u>	<u>AS-10-L-10</u>			<u>5 Min.</u>	
Depth	Depth	From	To	Pre Pad	Max			
<u>4047</u>	<u>4047</u>		<u>15050</u>	<u>AA2</u>				
Volume	Volume	From	To	Pad	Min		<u>10 Min.</u>	
<u>96.3</u>	<u>96.3</u>		<u>5050</u>	<u>AS-10-L-10</u>				
Max Press	Max Press	From	To	Frac	Avg		<u>15 Min.</u>	
<u>3000</u>	<u>3000</u>			<u>KH/mu</u>				
Well Connection	Annulus Vol.	From	To		HHP Used		<u>Annulus Pressure</u>	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		<u>Total Load</u>	
<u>4047</u>	<u>4047</u>			<u>95.8</u>				

Customer Representative: <u>Chris Bottschalk</u>	Station Manager: <u>Dave Scott</u>	Treater: <u>Steve Wilcox</u>
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Service Units	<u>27283</u>	<u>27463</u>	<u>19832</u>	<u>17862</u>					
Driver Names	<u>Dale J. Wiser</u>	<u>Hunter</u>							

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					On location Safety meeting
					Run 99 lbs 5 1/2 15.5" CG
					Centralize 3-5-7-9-14-15
					Basket Stop @ Bottom
					Marker JT # 5 = 21.49 Show to 21.10
					Casing on bottom
					5-1 Basket Stop with Pig
					Centralize, Bottom with Pig
10:40	250		29	5	Mix 100 lbs AS-10-L-10
10:45	250		36	5	Mix 150 lbs AA2 cement
					Shut Down - Clear Pump + Line
					Release plug
10:56	0	0	0	6	Shut 112 lbs Displacement
1:06	300		50	5	Lift Pressure
1:13	500		86	4	Slow Rate
1:5A	1500		96	4	plug Down - Hold
					Job Complete
					Thanks, Steve
					Pump KH/mu 10/500 AA2