

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1239836  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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
- Plug Back  Conv. to GSW  Conv. to Producer
- 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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical 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

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1239836

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Elsie 2-17
Doc ID	1239836

All Electric Logs Run

Compensated Neutron Lithology Density Gamma Ray X-Y Caliper Microlog
Microlog Gamma Ray X-Y Caliper
Full Waveform Sonic Gamma Ray X-Y Caliper
Dual Induction Laterolog - SP Gamma Ray

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Elsie 2-17
Doc ID	1239836

Tops

Name	Top	Datum
Heebner (base)	3936	-998
Toronto	3952	-1014
Lansing	3981	-1043
KS City (base)	4533	-1595
Marmaton	4554	-1616
Pawnee	4640	-1702
Ft. Scott	4677	-1739
Cherokee	4694	-1756
Morrow	4940	-2002
Chester	5074	-2136
St Genevieve	5122	-2184
St Louis	5170	-2232
RTD	5410	
LTD	5423	



# ALLIED OIL & GAS SERVICES, LLC

Federal Tax I.D. # 20-8651475

063947

**WELL FILL** SERVICE POINT: great Bend

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

DATE <u>11-9-14</u>	SEC. <u>17</u>	TWP. <u>26</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>7:30 pm</u>	JOB START <u>12:30 am</u>	JOB FINISH <u>1:30 am</u>
LEASE <u>elsie</u>	WELL # <u>2-17</u>		LOCATION <u>garden city tor rd 5w</u>			COUNTY <u>linney</u>	STATE <u>Ky</u>
OLD OR <input checked="" type="radio"/> NEW (Circle one)			N data				

CONTRACTOR <u>Braeco 1</u>	OWNER <u>None</u>
TYPE OF JOB <u>surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>1792</u>
CASING SIZE <u>8 5/8</u>	24# DEPTH <u>1792</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42</u>
CEMENT LEFT IN CSG. <u>42</u>	
PERFS.	
DISPLACEMENT <u>H2O 111.47 BBI</u>	
EQUIPMENT	

PUMP TRUCK # <u>519</u>	CEMENTER <u>Charles King</u>
BULK TRUCK # <u>859</u>	HELPER <u>anderson montemayor (TAS)</u>
BULK TRUCK # <u>609-239</u>	DRIVER <u>Kevin veigore</u>
	DRIVER <u>jose Iracheta (TAS)</u>

CEMENT			
AMOUNT ORDERED	<u>625 m 65/35 61-gel</u>		
	<u>31-cc 1/2 fln 150 m class A 31-cc</u>		
COMMON	<u>150 m</u>	@ <u>17.90</u>	<u>2685</u>
POZMIX		@	
GEL		@	
CHLORIDE	<u>2055 lb</u>	@ <u>1.10</u>	<u>2260.50</u>
ASC		@	
	<u>allied light weigh 625 m</u>	@ <u>19.88</u>	<u>12425</u>
	<u>fln seal 157 lb</u>	@ <u>2.97</u>	<u>466.29</u>
	<u>Materials Total</u>		<u>17836.79</u>
	<u>Disc 35%</u>		<u>6242.88</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>880.47</u>	@ <u>2.48</u>	<u>2183.57</u>
MILEAGE	<u>1848.70</u>	@ <u>2.75</u>	<u>5083.92</u>

REMARKS:

Rig Ran 1792' 8 5/8" csg broke circ 21'  
Rig mud deep ball pump through a  
psi pump 5 BBI H2O min 625 m lead  
min 150 m tail shut down Release  
plug displace 111.47 BBI H2O plug  
did sand float did hold  
cement did cementate

DEPTH OF JOB	<u>1792</u>		
PUMP TRUCK CHARGE			<u>2213.75</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>50</u>	@ <u>7.70</u>	<u>385</u>
MANIFOLD <u>+Head</u>		@ <u>275</u>	<u>N/C</u>
		@	
		@	

CHARGE TO: Receiva  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

TOTAL 9866.24  
Disc 35% 3453.18

PLUG & FLOAT EQUIPMENT

guide shoe			<u>460</u>
AFU float shoe valve	@		<u>447</u>
Rubber plug	@		<u>131</u>
3 centerlegs	@ <u>75</u>		<u>225</u>
	@		
	@		

TOTAL 1263.00  
Disc 30% 378.90

thank you!  
To: Allied Oil & Gas Services, 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.

SALES TAX (If Any) \_\_\_\_\_  
TOTAL CHARGES \$ 28,966.03  
DISCOUNT 10,074.90 IF PAID IN 30 DAYS  
\$ 18891.07

PRINTED NAME Gilbert David  
SIGNATURE [Signature]

## CEMENTING LOG

STAGE NO. \_\_\_\_\_

Date 11-7-14 District Grant Bend Ticket No. 63947  
 Company Bracker Rig Bracker 1  
 Lease elsie Well No. 2-17  
 County Penney State KS  
 Location quader city 4th Rd Field \_\_\_\_\_  
5th N chita

CEMENT DATA:

Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

LEAD: Pump Time \_\_\_\_\_ hrs. Type 65/35 61.9cl  
31.00 4.0lb Excess \_\_\_\_\_

Amt. 625 Sks Yield 1.97 ft<sup>3</sup>/sk Density 12.5 PPG  
 TAIL: Pump Time \_\_\_\_\_ hrs. Type class A 31.00  
 Excess \_\_\_\_\_

Amt. 150 Sks Yield 1.33 ft<sup>3</sup>/sk Density 15 PPG  
 WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbls.

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 8 5/8 Type \_\_\_\_\_ Weight 24 Collar \_\_\_\_\_

Pump Trucks Used 517 Candy man  
 Bulk Equip. 859 Kevin wright  
609-239 jore

Casing Depths: Top \_\_\_\_\_ Bottom 1792

Drill Pipe: Size \_\_\_\_\_ Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 12 1/4 T.D. 1792 ft. P.B. to \_\_\_\_\_ ft.

Float Equip: Manufacturer \_\_\_\_\_

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type H2O Amt. 111.49 Bbls. Weight \_\_\_\_\_ PPG  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PPG

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Charles King

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
<u>2:30</u>						<u>on location Rig up 5. m.</u>
						<u>Rig ran 1792 8 5/8 cas</u>
<u>11:16</u>						<u>Broke over 20 Rig mud</u>
						<u>deep ball pump through 21000 psi</u>
<u>11:50</u>			<u>5</u>		<u>5</u>	<u>pump 58B1 H2O</u>
<u>11:53</u>			<u>219.28</u>		<u>7</u>	<u>mix 625 or lead</u>
<u>12:41</u>			<u>35.53</u>		<u>6</u>	<u>mix 150 or tail</u>
						<u>shut down</u>
<u>12:55</u>						<u>Release plug</u>
<u>1:00</u>			<u>111.49</u>		<u>6</u>	<u>displace 111.49 BBL H2O</u>
<u>1:22</u>						<u>plug did sand</u>
<u>1:25</u>						<u>float did hold</u>
						<u>cement did cure</u>

# ALLIED OIL & GAS SERVICES, LLC 063790

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Quilley

DATE <u>11/20/14</u>	SEC. <u>17</u>	TWP. <u>25</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION	JOB START <u>7:00 AM</u>	JOB FINISH <u>9:30 AM</u>
LEASE <u>Elsie</u>	WELL # <u>2-17</u>	LOCATION <u>Carroll City 57th Ave S1/2W</u>	COUNTY <u>Ft. Worth</u>	STATE <u>TX</u>			
OLD OR NEW (Circle one) <u>NEW</u>			<u>Minto</u>				

CONTRACTOR <u>Baredo</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Prod.</u>	2-Stage
HOLE SIZE <u>7 7/8</u>	T.D.
CASING SIZE <u>5 1/2</u>	DEPTH <u>5422</u>
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH
TOOL <u>DO</u>	DEPTH <u>3011</u>
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT <u>42'</u>
CEMENT LEFT IN CSG.	
PERFS.	

CEMENT		
AMOUNT ORDERED	<u>1254K ALW 14 FWD 2254K HCL 1070</u>	
	<u>500 gal 5" catalyst 74-170 F1160, 1416 9K Performer</u>	
	<u>50 ASL, 350 ALW 14 FWD Seal</u>	
COMMON ALW - 475 9K @ 19.88		<u>9443.00</u>
POZMIX @		
GEL @		
CHLORIDE @		
ASC 275 9K @ 23.50		<u>5287.50</u>
Gibsonite 1650 lb @ .98		<u>1623.00</u>
Fluorob 120 lb @ 2.91		<u>356.00</u>
F1160 130 lb @ 18.70		<u>2452.00</u>
Seamer 20 lb @ 3.50		<u>245.00</u>
Material Total @		<u>19,405.90</u>
(C 598.00 / 134.20 @)		
HANDLING 891 @ 2.48		<u>2211.12</u>
MILEAGE 225 tank mile 37 @ .50		<u>5170.00</u>
TOTAL		

DISPLACEMENT <u>both 420-50 bbl Bighead 78</u>	EQUIPMENT
<u>Top 1600000</u>	
PUMP TRUCK CEMENTER <u>Alan Ryan</u>	
# <u>423-281</u> HELPER <u>Kevin Ryan</u>	
BULK TRUCK	
# <u>706</u> DRIVER <u>George Grant</u>	
BULK TRUCK	
# <u>891</u> DRIVER <u>Wido / Ricardo</u>	
	<u>(TWS) (TWS)</u>

REMARKS:

Run Cement Circulate 100 ALW Tank of Asc Wash Tank Displace  
in 50 bbl to 2 78 bbl Big Head in 1200 set lift, and Plug @ 2000 SERVICE  
Open Tool @ 800 c.i. 4hr, run 2054K HCL 1070  
Run 3000 ALW down 5 1/2 Tail w/ 50 Asc, Wash Tank,  
Displace Plug w/ 28 bbl to 2000 set lift,  
and Plug @ 2000 Tool Closed  
Cement did Circulate  
Frank  
Alan Ryan  
Ki Ho, George, Martin

CHARGE TO: Baredo  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>3899.25</u>
EXTRA FOOTAGE @		
MILEAGE 50 miles @ 7.24		<u>365.00</u>
MANIFOLD attached @ 575.00		<u>n/c</u>
170 Vehicle miles @ 4.40		<u>n/c</u>
TOP STAGE @		<u>2406.25</u>
(4.51260 / 34.30) TOTAL		<u>13,212.38</u>

PLUG & FLOAT EQUIPMENT

5 1/2 Weatherford		
1 Catcher on Plug Head		<u>660.00</u>
1 # 1 1/2" Plug Head		<u>640.00</u>
1 Stage Collar @		<u>5,335.00</u>
2 Baskets @		<u>790.00</u>
16 Centralizers @ 44.50		<u>912.00</u>
(2,917.95 / 35.70) TOTAL		<u>8,337.00</u>

To: Allied Oil & Gas Services, 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 Gilbert Davila Jr  
 SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 41,015.28  
 DISCOUNT 14,028.55 (34.2%) IF PAID IN 30 DAYS  
26,986.73 Net



Date 11/20/11 District D. Kelly Ticket No. 063790  
 Company Burco Rig Burco 1  
 Lease Elsie Well No. 2-19  
 County Finney State KS  
 Location \_\_\_\_\_ Field \_\_\_\_\_

CEMENT DATA:

Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

CASING DATA: Conductor  PTA  Squeeze  Misc   
 Surface  Intermediate  Production  Liner   
 Size 5 1/2 Type Reg Weight 25.1 Collar \_\_\_\_\_

LEAD: Pump Time 151 142 - 62 hrs. Type ALW 14 PLG - 1253  
 Excess 12 102 - 1252

Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

TAIL: Pump Time 151 142 - 62 hrs. Type ALW - 150 SK  
 Excess 12 102 - 1252

Amt. \_\_\_\_\_ Skys Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

WATER: Lead 10.8 gals/sk Tail 642 gals/sk Total \_\_\_\_\_ Bbls.

Casing Depths: Top 410 Bottom 5402

Pump Trucks Used 402-281  
 Bulk Equip. 520  
891

Drill Pipe: Size 4 1/2 Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 5 7/8 T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. 0.238 Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_

Float Equip: Manufacturer \_\_\_\_\_

Shoe: Type PCN Depth \_\_\_\_\_  
 Float: Type \_\_\_\_\_ Depth \_\_\_\_\_  
 Centralizers: Quantity 16 Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_  
 Stage Collars 0V  
 Special Equip. 2 Benders  
 Disp. Fluid Type HTG Amt. 50 Bbls. Weight \_\_\_\_\_ PPG  
Big mud - 800 Weight \_\_\_\_\_ PPG

Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Calby

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
9:00 AM						On location, 5170 Mt., set up Ann Cas, Circulate Mix 125 ALW Mix 225 SK ALW Wash up Displace w/ H <sub>2</sub> O
				33.0	3.0	
				35.9	3.0	
				50.0	5.0	
	12.00			68.0	4.0	Big mud Open 7001 - Gr. 8 hrs Mix 205K MTH 30 SK ALW Mix 300 SK ALW Mix 50 SK ALW Wash up Displace w/ H <sub>2</sub> O Load Plug Tool closed Cement did simulate
	8.00			8.0	3.0	
				58.0	3.0	
				8.0	3.0	
	12.00			78.0	4.0	
	2.00					
9:30 AM						Job complete



**DIAMOND TESTING**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: Elsie 2-17 Dst 1

TIME ON: 04:14  
 TIME OFF: 17:47

Company Berexco LLL Lease & Well No. Elsie 2-17  
 Contractor Beredco Drilling Charge to Berexco LLC  
 Elevation 2926 Sur Formation Marmaton Effective Pay \_\_\_\_\_ Ft. Ticket No. RR119  
 Date 11/14/2014 Sec. 17 Twp. 26 S Range 33 W County Finney State KANSAS  
 Test Approved By Ed Grieves Diamond Representative RICKY RAY

Formation Test No. 1 Interval Tested from 4545 ft. to 4569 ft. Total Depth 4569 ft.  
 Packer Depth 4540 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 4545 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) 4527 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 4549 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 47 Drill Collar Length 622 ft. I.D. 2 1/4 in.  
 Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
 Chlorides 2100 P.P.M. Drill Pipe Length 3891 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 8 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NA Reversed Out NA Anchor Length 24 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB (Built to 3/4 inch in 30 mins) NOBB  
 2nd Open: WSB (Built to 1/4 inch in 60 mins) NOBB

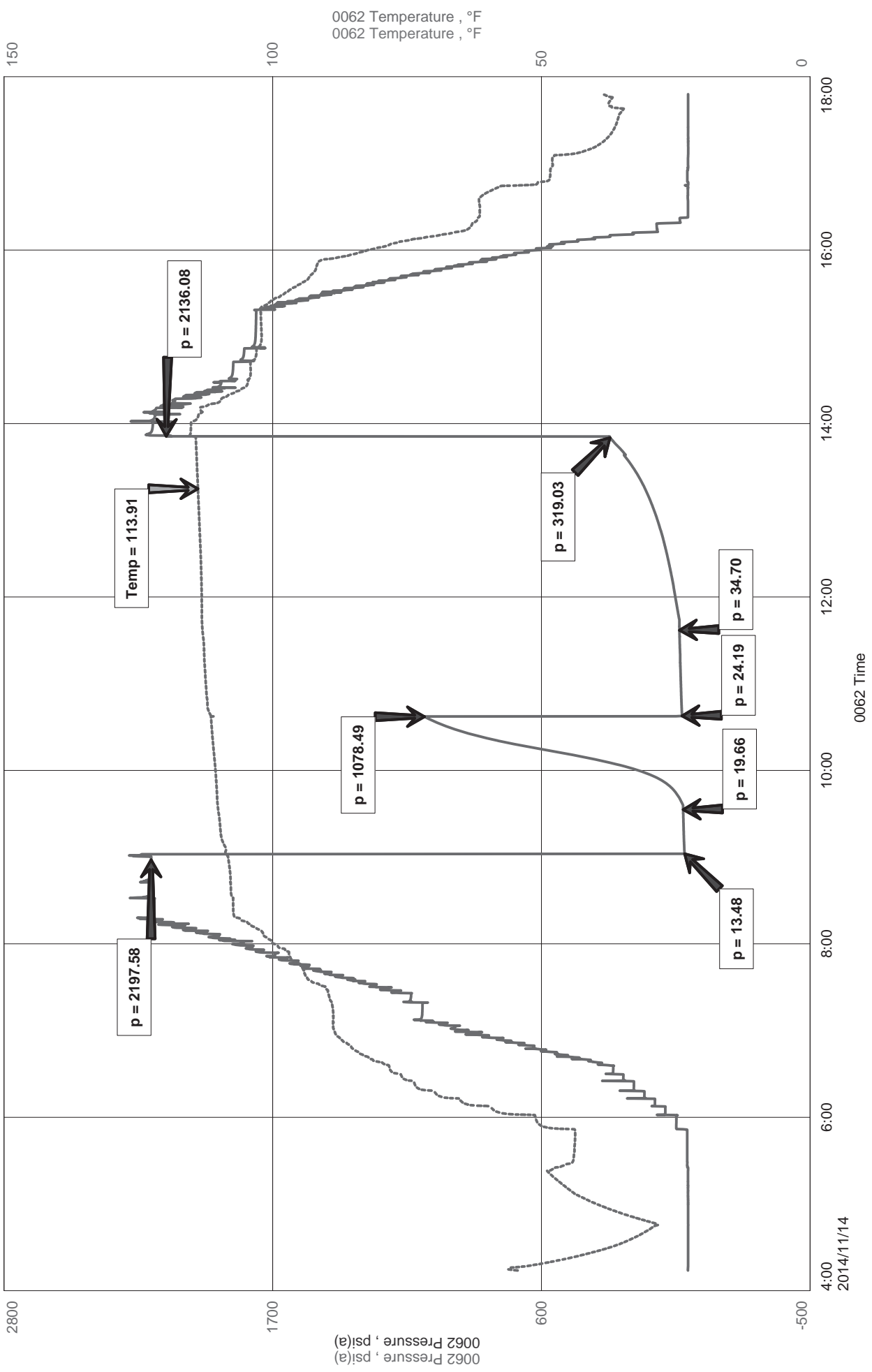
Recovered 15 ft. of SLOM 1% O 99% M  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Remarks: Tool Sample: 8% O 92% M  
 Diesel in Bucket \_\_\_\_\_

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 9:02 AM A.M. P.M. Time Started Off Bottom 1:32 PM A.M. P.M. Maximum Temperature 114  
 Initial Hydrostatic Pressure..... (A) 2198 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 20 P.S.I.  
 Initial Closed In Period..... Minutes 60 (D) 1078 P.S.I.  
 Final Flow Period..... Minutes 60 (E) 24 P.S.I. to (F) 35 P.S.I.  
 Final Closed In Period..... Minutes 120 (G) 319 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2136 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# Elsie 2-17





Diamond Testing LLC  
 P.O. Box 157  
 Hoisington KS 67544

Ricky Ray - Tester  
 (620) 617-7261

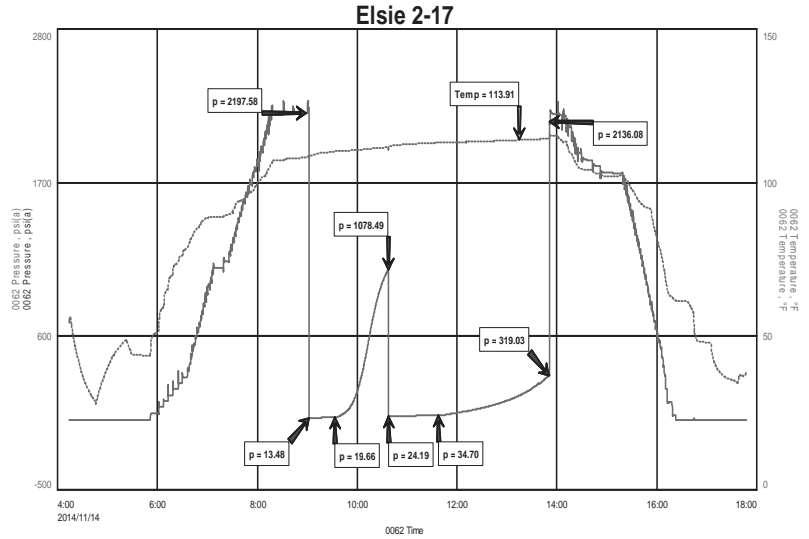
# Wellsite Report

## General Information

Company Name	Berexco LLC
Contact	Evan Mayhew
Well Operator	Berexco LLC
Well Name	Elsie 2-17
Surface Location	Sec: 17-26s-33w (Finney County)
Field	Ivanhoe
Well Type	Vertical
Pool	Pool Ext.
Test Purpose (AEUB)	Initial Test
Qualified By	Ed Grieves
Gauge Name	0062

## Test Information

Job Number	RR119
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 1 Marmaton (4545-4569)
Start Test Date	2014/11/14 YYYY/MM/DD
Start Test Time	04:14:00 HH:mm:ss
Final Test Date	2014/11/14 YYYY/MM/DD
Final Test Time	17:47:00 HH:mm:ss



## Test Results

Recovery:

15' SLOM 1% O 99% M

Tool Sample: 8 % O 92% M



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: Elsie 2-17 Dst 2

TIME ON: 22:54 Nov 16  
TIME OFF: 12:58 Nov 17

Company Berexco LLL Lease & Well No. Elsie 2-17  
Contractor Beredco Drilling Charge to Berexco LLC  
Elevation 2926 Sur Formation Morrow Sand Effective Pay \_\_\_\_\_ Ft. Ticket No. RR120  
Date 11/16/2014 Sec. 17 Twp. 26 S Range 33 W County Finney State KANSAS  
Test Approved By Ed Grieves Diamond Representative RICKY RAY

Formation Test No. 2 Interval Tested from 4997 ft. to 5040 ft. Total Depth 5040 ft.  
Packer Depth 4992 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4997 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4979 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 5001 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 50 Drill Collar Length 622 ft. I.D. 2 1/4 in.  
Weight 9.3 Water Loss 6.4 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides 3000 P.P.M. Drill Pipe Length 4343 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 8/SP Test Tool Length 32 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 43 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB (Built to 3/4 inch in 30 mins) (NOBB)  
2nd Open: No Blow (Built to WSB in 60 mins) NOBB

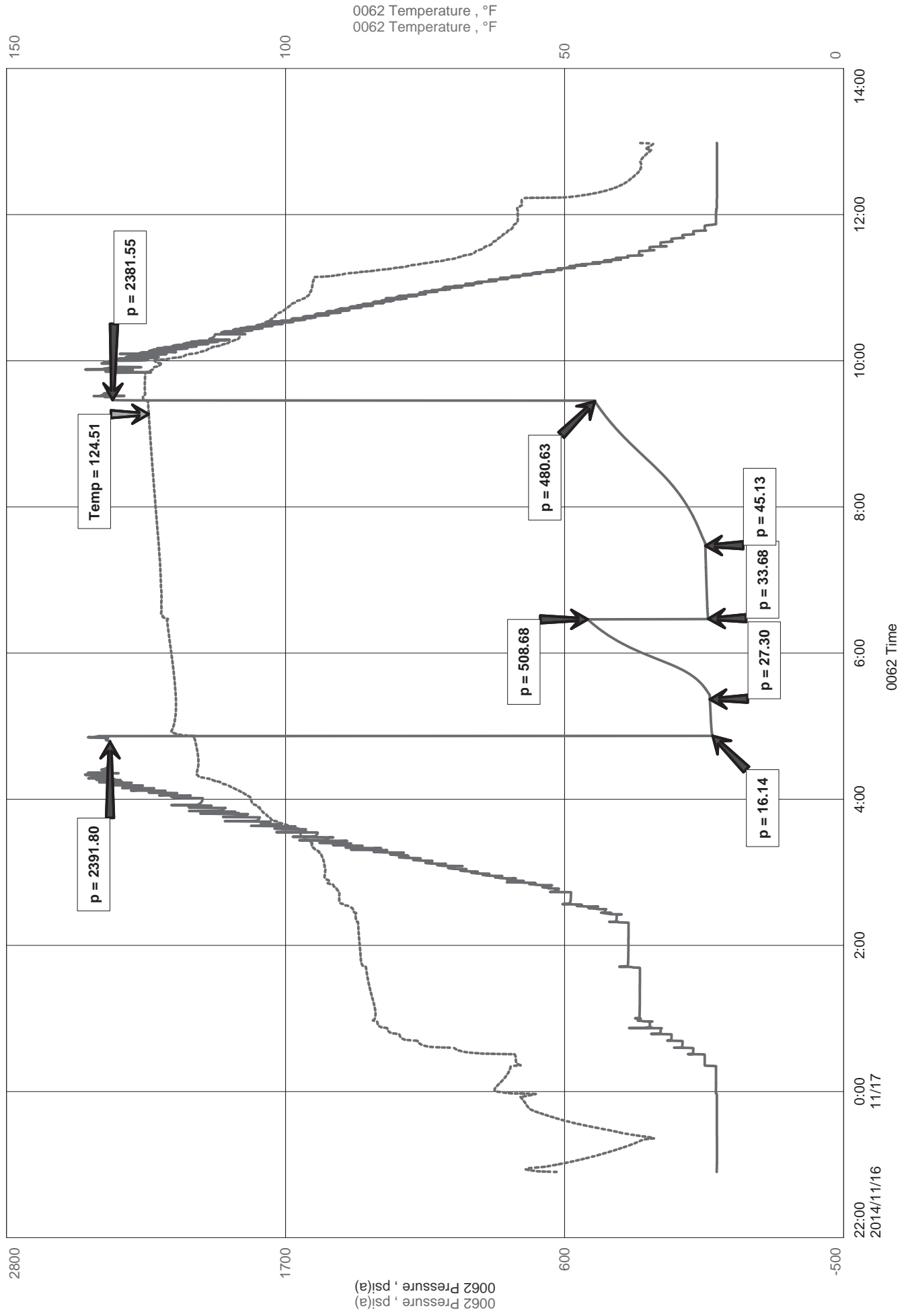
Recovered <u>78</u> ft. of SLOG w/ M	1% G	1% O	98 % M	
Recovered _____ ft. of _____				
Recovered _____ ft. of _____				
Recovered _____ ft. of _____				
Recovered _____ ft. of _____				Price Job
Recovered _____ ft. of _____				Other Charges
Remarks: Tool Sample: <u>2% G</u> <u>30% O</u> <u>68% M</u>				Insurance
Diesel in Bucket _____				Total

Time Set Packer(s) 4:51 AM Nov 17 A.M. P.M. Time Started Off Bottom 9:21 AM Nov 17 A.M. P.M. Maximum Temperature 125

Initial Hydrostatic Pressure..... (A) 2392 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 27 P.S.I.  
Initial Closed In Period..... Minutes 60 (D) 509 P.S.I.  
Final Flow Period..... Minutes 60 (E) 34 P.S.I. to (F) 45 P.S.I.  
Final Closed In Period..... Minutes 120 (G) 481 P.S.I.  
Final Hydrostatic Pressure..... (H) 2382 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# Elsie 2-17





Diamond Testing LLC  
P.O. Box 157  
HoisingtonKS 67544

Ricky Ray - Tester  
(620) 617-7261

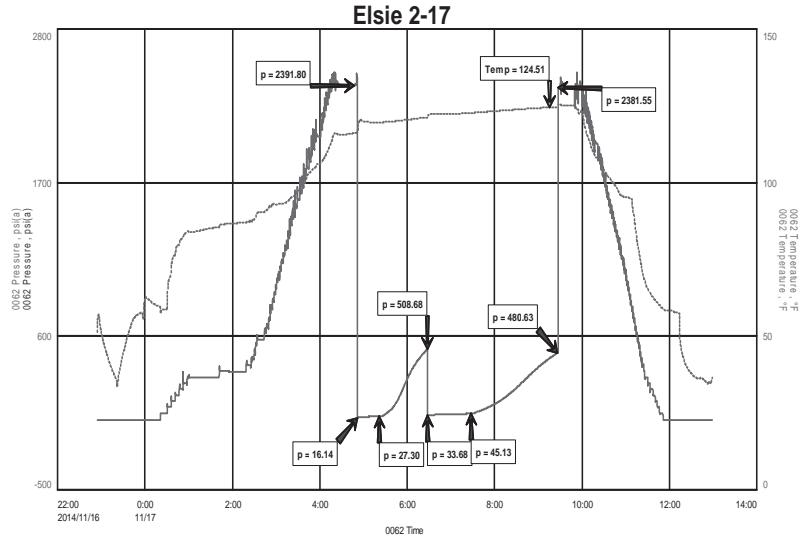
# Wellsite Report

## General Information

Company Name	Berexco LLC
Contact	Evan Mayhew
Well Operator	Berexco LLC
Well Name	Elsie 2-17
Surface Location	Sec: 17-26s-33w (Finney County)
Field	Ivan Hoe
Well Type	Vertical
Pool	Pool Ext
Test Purpose (AEUB)	Initial Test
Qualified By	Ed Grieves
Gauge Name	0062

## Test Information

Job Number	RR120
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 1 Marrow Sand (4997-5040)
Start Test Date	2014/11/16 YYYY/MM/DD
Start Test Time	22:54:00 HH:mm:ss
Final Test Date	2014/11/17 YYYY/MM/DD
Final Test Time	12:58:00 HH:mm:ss



## Test Results

### Recovery:

78'                      SLGO w/ M                      1% G                      1% O                      98% M

Tool Sample:                      2% G                      30% O                      68% M



# GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY Berexco LLC  
 LEASE Elsie NO. 2-17  
 LOCATION 700' FSL & 1665' FWL  
 SEC. 17 TWP. 26S RNG. 33 W  
 COUNTY Finney, STATE Kansas  
 FIELD Ivanhoe

### ELEVATIONS

KB 2938  
 DF 2936  
 GL 2926

MEASUREMENTS ARE  
 ALL FROM KB

CONTRACTOR Beredco Drlg. Rig #1  
 COMM. 11-05-2014 COMP. 11-20-2014  
 RTD 5410 LTD 5423

CASING RECORD  
8 3/8" of 1792 w/ 715 SX.  
 \_\_\_ of \_\_\_ w/ \_\_\_ SX.  
 \_\_\_ of \_\_\_ w/ \_\_\_ SX.  
 \_\_\_ of \_\_\_ w/ \_\_\_ SX.

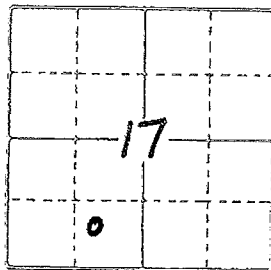
No. of DST'S Two No. of CORES None

EL. LOG Res. SP. GR  
Den. Neut. GR. Caliper  
M.L. Sonic Dipmeter

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 Heabnea	3934	3936	- 998
To Ronto	3949	3952	- 1014
Lansing Fm.	??	3981	- 1043
BKC	4519	4533	- 1595
Marmaton Fm	4540	4554	- 1616
Pawnee	4633	4640	- 1702
Ft. Scott	4670	4677	- 1739
Cherokee	4689	4694	- 1756
Morrow	4934	4940	- 2002
Chester	5076	5074	- 2136
St. Genevieve	5104	5122	- 2184
St. Louis	5154	5170	- 2232
TD	5410	5423	



API# 15-055-22356

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

Note: Geolograph had a problem.

*Edwin H. Grieves*  
 Geologist  
 Berexco  
 151 W. 1st St.  
 Topeka, KS 66606  
 Phone: 785-233-1111

### LITHOLOGY

	SANDSTONE
	LIMESTONE
	SHALE
	CHERT
	SILTSTONE
	DOLOMITE
	GRANITE WASH
	BARITE & GYP

### CHROMATOGRAPH

HOT WIRE BY  
 TOTAL GAS VOLUME

C1 = METHANE  
 C2 = ETHANE  
 C3 = PROPANE  
 C4 = ISOBUTANE  
 C5 = BUTANE  
 C6 = ISOPENTANE  
 C7 = PENTANE

DRILL TIME  
 SCALE

SAMPLE DESCRIPTION

GAS SCALE



LITHOLOGY



CHROMATOGRAPH

HOT WIRE BY TOTAL GAS VOLUME

C1 = METHANE  
C2 = ETHANE  
C3 = PROPANE  
C4 = ISOBUTANE  
C5 = BUTANE  
C6 = ISOPENTANE  
C7 = PENTANE

DRILL TIME SCALE  
5 10 15

SAMPLE DESCRIPTION

3800-3828 Lms. tan. H. gray. shaly & tan; crypto to v. fine sh.; tan sub-chk. trs. sub-sucro. packstn. + sub-lithog. dual. vel. fluor.; No cut; No vis. por.

3828-3920 Lms. h. gray. tan. to brown. wh. to cr. m. chlk. & tan; crypto. to v. fine sh. sub-chk. sub-sucro. to suc. po. and trs. packstn. dual. vel. to dual. H. vel. fluor. No cut; scattered trs. pr. micro. por.; w/ poss. inter. sh. por. IP's.

Lms. H. gray. shly. to grayish. bit. gray. to v. v. fine sh.; sub-chk. to fine sh. No fluor.; No cut; No vis. por.  
Sh. v. dark. gray to black-carb. Lms. grayish. tan; crypto. to v. fine sh. & sub-lithog. dual. vel. fluor. No cut; No vis. por.

Sh. H. gray to H. green, silty IP's

3949 - ? Lms. H. gray; tanish gray. to grayish. tan; crypto. to v. fine sh.; sub-chk. to fine sh.; trs. sub-sucro. & packstn.; dual. vel. fluor. IP's; No cut; No vis. por.  
P-3988 Lms. abn. wh. to cr. m. chlk. & tan crypto. to v. fine sh.; sub-chk. sub-sucro. to sucro. & trs. packstn.; dual. vel. to H. vel. fluor. No cut; h. y. trs. to abn. pr. to trs. fl. micro. por.

3988 - 4018

Interbedded Lmsts & Shs  
A) Lmsts. similar 3949-?  
B) Sh med to dk. gray; v. to ext. pale.

4018 - ? Lms. abn. wh. to cr. m. chlk. & H. gray. to tan; crypto. to v. fine sh.; sub-chk. sub-sucro. to sucro. & trs. packstn.; dual. vel. to H. vel. fluor. No cut; abn. pr. to fr. micro. por. & prob. inter. sh. por.

?-4055 Lms. similar 3949-?

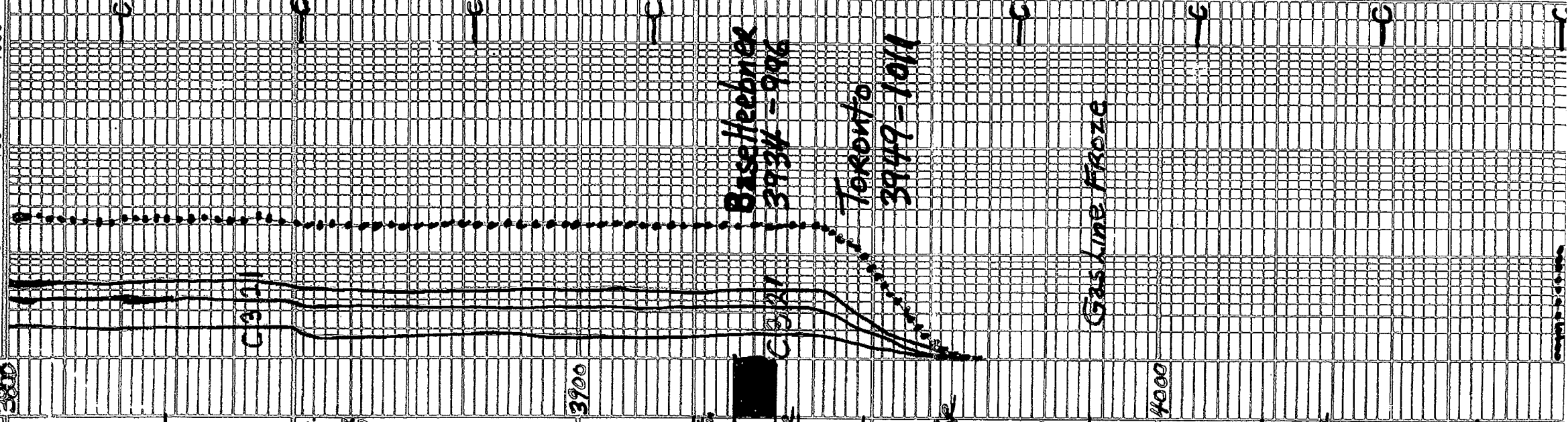
3800

3900

4000

GAS SCALE

10 100 1000



!-4055 Lms. Similar 3949-5

No Drilling

4055-? Lms. abn. wht. to cream-alk & tan; v. u. fn. clay; sub-sucro to silt. succo.; yel. fluor. No cut abn. pr. fr. to g. micro-pp per & prob. interstr. per.

4100

?-4180 Inteebedded lms w/ scattered thin shales  
① Faster. D. lg. similar 4055-?  
② Slower. D. lg. similar 3949-?  
③ Sh. med. to v. dek. gray calc & tan. v. dek. gray. to black

No Drilling

4180-4202 Lms. tan. wht. to cream-alk & lt. gray. to grayish. Fr. v. calc. to v. wht. v. to grayish. oolitic. No v. to ext. oolitic; matrix sub-sucro to tan. succo. & packed. to d. lt. yel. fluor.; No cut. abn. pr. to fr. to g. oolitic per. v. prob. interstr. per. 1 P.

4200

4202-4230 Lms. similar 4180-4202 w/ much less oolitic & much more oolitic; without abn. pr. to tan. fr. oolitic per

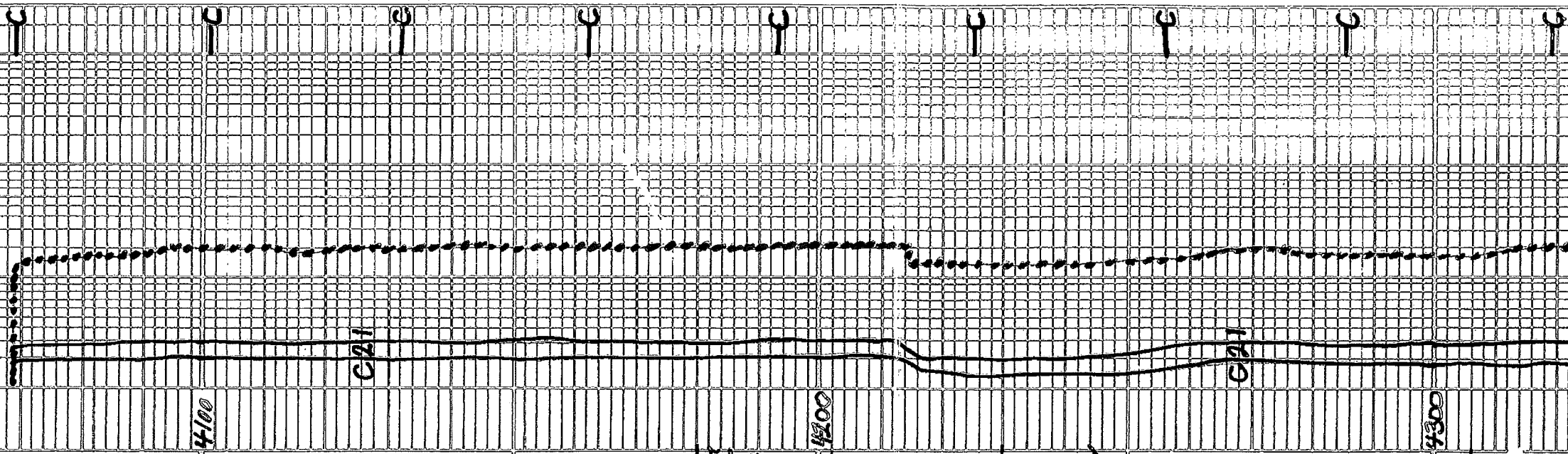
No Drilling

4230-4306 Interbedded lms & scattered thin shales  
① Lms. tan. to wht. tan. wht. to cream-alk & lt. gray. to tan - Sh. 1 P. sub-alk. wht. sub-sucro & pr. calc. to yel. to d. lt. yel. fluor. 1 P. No cut. No v. fr.

② Sh. med. to v. dk. gray. - calc to v. dek. gray. to black

4300

4306 - ? Lms. tan. to abn. wht to cream-alk & lt. gray. tanish gray. to grayish. tan. calc. to v. u. tan. wht. to v. micro-oolitic & tan. to v. micro-oolitic; matrix sub-sucro. to tan. succo. & packed. to d. yel. to d. lt. yel. fluor. i. No cut; abn. pr. fr. to g. d. micro-oolitic; No



teq. to v. micro-oolitic, var  
fely. to v. micro-oolitic; matrix  
sub. succro. to tas succro. and  
packs tajidul. yel. to dul. H. yel  
fluor. j. Nolect; abu. pr. ta. to  
gd. micro-oolitic por

? - ? Sh. v. dek. grey to black-crab

? - 4579

Interbedded lamsts & shs  
Faster Delg. lms. tes. wht. to cream-  
chlk & H. grey. to tan, crypto. to  
v.u. to xln. j. tes. sub-chlk, sub-succro  
to succro. i. dul. yel. to dul. H. yel  
fluor. j. Nolect; tes. pr. to sil. tes. & r.  
micro-pp. por. 1P2

3) Slance Delg. lms. H. to med. grey.  
sl. to fely. shly 1P2; crypto. to v. u.  
xln. j. sub-chlk & r. shly. sub-succro.  
& P2 chks taj. No fluor. Abct  
No Vis. for.

3) Sh. med to v. dk. grey; sl. to  
very calc. 1P2

4579 - 4540 Sh. med. to dek. grey.  
v. to extal. calc. grading to  
v. shly lamsts

4540 - 4548 Lms. tes. wht. to cream-  
chlk & tan to H. grey; crypto. to  
v.u. En. xln. j. sub-succro, packst  
& sub-lithog. j. dul. H. yel. fluor  
Nolect; No Vis. for

4548 - 55 Lms. tan w/ med. to dek  
tan sp. oil stain; v. u. f. xln. j.  
sub-succro to r. succro. i. dul  
gd. yel. fluor w/ flust to ed  
streaming cuts; abu. pa. to fely  
tes. gd. micro-pp. por. & porab  
not exln. por. w/ ta. to h. yel. tes  
Choret; wht. grey to tan; tears to  
op. 48

4555 - 4598 Lms. H. grey, tanish grey to  
greyish. tan. crypto. to v. u. f. xln. j.  
sub-chlk & r. shly sub-succro,  
pa. chks taj. tes. sub-lithog. dul.  
H. yel. fluor. 1P2 Nolect. No Vis. for

4598 - 4608 Lms. h. yel. to abu. wht  
to cream-chlk greyish tan to tan;

CRYP to to v. u. f. xln. j. sil. to v. u. oolitic  
matrix sub-chlk, j. sub-succro. to succro  
& packst taj. dul. yel. to yel. fluor  
Nolect; h. y. tes. pr. to r. micro-pp  
por. 1P2 No Show

4608 - 4626 Lms. similar 4555 - 4598

4400

21

4500

21

4600

by Repam 45

BKC 4579  
- 1581

MARMA TARE  
4540 - 1602

Shore 64 U

May 31 U  
TAPAS 3100 U

PAWNER  
4608 - 1695

to cream - chalk grayish tan to tan;  
CRYP TO. TO V. V. F. X. L. J. SLIT TO UNCOATED;  
MATERIALS SUB CHALK, SUB SUCCO TO SUCCO  
+ PRACTICALLY AW. YEL. TO YEL. FLUOR  
NO COCT. BY TRES. PR. TO PR. MICRO APP  
POR. IPS NO SHOW

4608-4626 Lms. similar 4555-4598

Sh v. drk gray. to black - carb.

Lms similar 4555-4598

Lms. H. grey. crypto. to v. sh. x. l. m  
v. sm to miliao-bolisticity or v. sm to  
miao-oolitic. materialy sub-succo to  
succo + patches. ind. yel. fluo. j. Noct  
2m. pr. pr. to g d. bolistic por

4656-68 Lms similar 4555-4598

Sh v. drk gray. to black - carb.

4670-86 Lms similar 4555-4598

Sh v. drk gray to black - carb

4689-4774 Interbedded Lmsts + Shs  
D Lms H. to med. grey - slit to v. shly  
and H. grey. to greyish tan. crypto  
to v. v. shly. Sub chalk to a shly ip. j.  
sub-succo pp. coherent sl. ties.  
sub-t. lithogr. q. l. it. yel. fluo. j.  
Noct. No Vis por.

2) Shs med. to v. drk. gray. - sl.  
to extaly calc. ip. s. grading to  
extaly. Shly. Lmsts

Sh v. drk gray to black - carb.

4778-4804 Interbedded Lmsts + Shs  
similar 4689-4774 w/ ties  
oolitic and an increase in  
Sub-lithogr.

4804-4880 Interbedded Lmsts  
+ scattered thin Shs

1) Lms. grayish tan to tan. crypto. to  
v. v. shly. Sub chalk, sub-succo.  
Patches. ind. yel. fluo. j. lithogr.  
Med. H. to ties. H. yel. Fluor. Noct.  
No Vis por.

2) Lms. H. to med. grey - slit to v. shly.  
crypto. x. l. j. sub-lithogr. shly. j.  
Patches + sub-lithogr. it. yel. v. drk.  
yel. fluo. j. Noct. No Vis por

3) scattered thin Shs med. to  
v. drk. gray. j. abn - slit to v. calc.

4800-4934 Tan to black Lmsts + Shs

FAVINEE  
4693-1695  
Blk. Sh. 4694

Recycled

FITSCOTT  
4670-1925

Blk. Sh. 7400

Recycled

CHEBROK 88

4689-1751

Blk. Sh. 7000

Recycled

NOB 3000-4000

NOB 60-85

NOB 850

Blk. Sh. 4000

2377

2397

4800

Sh 4

GASHING FLOOR OFF

Gas line floor off

4880-4934 Interbedded lms & Shs  
similar 4804-4880 w/ abn  
additional interbeds Shs. v. deb  
gray to black-carb

4934-55 Sh. med. to dk. gray  
extremely calc. lms grading to ext. shly  
shly lms

4955-4961 Lms. slt. lt. gray to tan  
# w/ sh. deker. tan spots oil stain  
u. v. to large qz. (composed  
largely of fossiliferous lms)  
found in v. thin matrix sub-surface  
paleo-stn. w/ sh. tan sub-chalk dolom.  
to gray. yellow. w/ flash to pale sheny  
ch. sh. scattered res. permico. appear  
west. Perm

4961-64 similar sim. to 4955  
No stn. No cut. No oil stain. w/ tan to w/ tan  
tan gray to white

4970-4978 Sh. med. to dk. gray w/ res. lms  
lt. gray - shly to tan; crypt. sh. No floor  
5-6 ch. w/ res. sh. to calc. tan. No floor  
No cut. No oil stain

4978-5018 Interbedded Qtz. Sd. & shales  
Q. on sd. tan to ben. from oil stain, faint to  
faint oil stain; v. tan. gray. to tan. v. fine; ang.;  
fate of silt. scattered to sh. to sh. to sh.  
glau. to chlorite; dk. green to gray. to  
clay. w/ flash to green sh. to sh. to sh.  
p. to tan. to dk. mica. to sh. to sh. to sh.  
in tan. to gray. to sh. to sh. to sh.  
Sh. similar 4964-4978

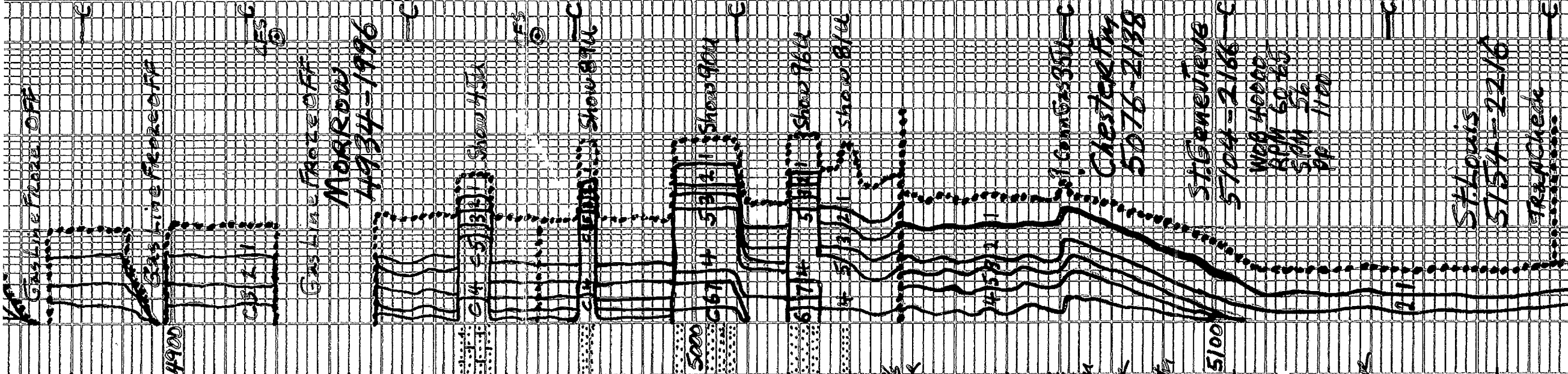
5018-30 Interbedded Qtz. Sd. & Shs  
similar 4978-5018 w/ Qtz. Sd. & Shs  
having ben. to blk oil stain w/ hysteres. p. to  
the micro-pp. for v. res. intergr. por. lms  
has abn. clay filling

5030-53 Sh. med. gray-silty luster lms to  
dk. gray - splinter lms. slt. to ext. shly lms  
grading to shly to tan. gray; Qtz. Sd. lms. w/ weak  
ang. lms. tan to brown. to brown. lms. to sh.  
yellow. w/ g. lms. to sh. to sh. to sh. to sh.  
med. gray. to sh. to sh. to sh. to sh.

Sh. & shly. similar 5030-5053 w/ abn  
frag. lms; highly weathered gray to tan  
v. tan. to calc. sh. to calc. sh. to calc. sh.  
foss. bearing calc. to v. sh. to sh. to sh. to sh.  
ch. sub-ch. sub-m. to sh. to sh. to sh. to sh.  
lms. scattered tan to sh. to sh. to sh. to sh.  
scattered tan to sh. to sh. to sh. to sh.  
dk. yellow. to sh. to sh. to sh. to sh.  
sh. to sh. to sh. to sh. to sh. to sh.

5076-5104 Lms. H. to med. gray. v. to ext. shly  
shly calc. sh. to sh. to sh. to sh. to sh.  
No floor; No cut. No oil stain.

5104-5154 Lms. tan. whit. to calc. shale  
(w/ mica. ch. oolites lms) to tan to  
lt. gray; greenish lms; crypt. to v. sh.  
shly. v. to ext. mica. calc. and  
slt. to v. Qtz. Sd. - v. sh. to sh. to sh.  
matrix tan. ch. to sh. to sh. to sh.  
sub-surface to sh. to sh. to sh. to sh.  
No cut. No oil stain.



Geologic Section  
11/11/77

DTL 5154-2216

Track Check

5154-5279 Lms. tes to hvy tes wht to  
CRM - Chlk w/ chlkoolites lps & tan  
grayish. lps. crypto. to v.v. tan. xla.  
v. to extra. oolitic. med. to lg.  
matric. chlk, sub-chlk, sub-succo  
palest. d. w/ vel. to d. w. H. vel. Fluor  
Noct. Noct. Noct. w/ sl. tes to tes  
Chert gray. tan to orange; gray  
to trans.

5100

Dolomite. H. gray. w. tan. d. w. d. w. l. vel. to d. w. l. vel.  
glau. vel. chert. Noct. Noct. Noct.

5300

5284 - 5344 Lms. tes. wht to CRM  
Chlk + tan, crypto. to tan. xla. y. l. y.  
sub-chlk, sub-succo. lps. tes to  
sub-lithog. tes to x. l. y. sl. tes to  
hvy. tes. sl. to f. l. y. dolomitic. tes to  
dul. vel. Fluor. Noct. Noct. Noct. Noct.  
w/ tes. Chert. gray to tan, trans. to  
opaque

5344-5410 Lms. sl. tes. wht to CRM  
Chlk; tes sl. to f. l. y. dolomitic lps  
tan to grayish. tan, crypto. to sl. tes  
v.v. tan. sl. tes sub-succo,  
Pack. stu + sub-lithographic.  
tes v. dul. vel. to sl. tes dul. vel.  
Fluor. Noct. Noct. Noct. Noct.  
w/ tes chert wht, gray to tan  
transl to opaque

5400

# TD 5410

- 7 7/8 inch Bit Info:  
 #1 New Smith FH: 184  
 #2 ReRun Smith F27I  
 in 5040 out 5410 TD  
 Dev. Sure  
 1. 1787 10  
 2. 1792 10  
 3. 2327 10  
 4. 4569 3/40  
 5. 5040

1. 787 1°
2. 1792 1°
3. 2327 1°
4. 4569 3/4°
5. 5040 1°

6 5410 1 1/2° TD

Circ Points:

1. 4506
  2. 4569
  3. 4920
  4. 4970
5. 5040  
6. 5285  
7. 5410 TD

DST #1 Maxmaton 4545-4569

10 weak surf. blow built to 3/4 inch

FD weak surf. blow built to 1/2 inch

Rec 15 ft 51.0 oil Col Mud 120 oil 99% Mud

Tool Sample 8 oil 92% mud

IHP 2198 # 14 30 min  
IFP 13-20 # 14 60 min  
ISIP 1078 # 14 60 min  
FFP 24-35 # 14 60 min  
FSIP 319 # 14 120 min  
FHP 2136 # 14 120 min

DST #2 Morrow 4997-5040

10 weak surf. blow built to 3/4 inch

FD No blow built to weak surf. blow

Rec 78 ft 1395 12 oil 98% Mud

Tool Sample 20 gas 30 oil 68% Mud

IHP 2392 # 14 30 min  
IFP 16-27 # 14 30 min  
ISIP 509 # 14 60 min  
FFP 34-45 # 14 60 min  
FSIP 481 # 14 120 min  
FHP 2382 # 14 120 min

Daily Prod Progress:

1	3800	11:02 PM	11-11-14
2	3995	7:00 AM	11-12-14
3	4476	7:00 AM	11-13-14
4	4569	7:00 AM	11-14-14
5	4659	7:00 AM	11-15-14
6	4920	7:00 AM	11-16-14
7	5040	7:00 AM	11-17-14
8	5151	7:00 AM	11-18-14
9	5335	7:00 AM	11-19-14
10	5410 TD	7:00 AM	11-20-14

Mud Info:

DATE	11-11	11-11	11-12	11-13	11-14	11-15	11-16	11-17
Wt	9.5	8.6	9.15	9.2	9.3	9.2	9.2	9.2
Vis	29	48	45	47	47	40	44	50
PV	2	15	13	14	10	15	14	16
YP	2	16	14	15	12	10	16	18
GS	3/3	1448	1440	1445	1456	1932	1940	1942
WL	M/C	8.4	8.4	8.8	8.0	8.0	6.4	6.4
Cake	-	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	7.0	11.0	10.5	11.0	10.0	10.5	11.0	10.5
Chl	9300	2600	2700	2100	1300	2500	3200	3000
Ca	MVY	20	20	20	40	40	40	60
LCM	1/2	2	1	1 1/2	1	1	1	1 1/2

Date 11-18 11-19

Depth 5109 5389

Wt. 9.25 9.2

1 3800 11:02 PM 11-11-14  
 2 3995 7:00 AM 11-12-14  
 3 4476 7:00 AM 11-13-14  
 4 4569 7:00 AM 11-14-14  
 5 4659 7:00 AM 11-15-14  
 6 4920 7:00 AM 11-16-14  
 7 5040 7:00 AM 11-17-14  
 8 5151 7:00 AM 11-18-14  
 9 5335 7:00 AM 11-19-14  
 10 5410 TD 7:00 AM 11-20-14

Mud Info:

Date	11-11	11-12	11-13	11-14	11-15	11-16	11-17
Date	11-11	11-12	11-13	11-14	11-15	11-16	11-17
Depth	3568	3577	4086	4506	4569	4920	5040
WT	9.2	8.6	9.15	9.2	9.3	9.2	9.3
Vis	29	48	45	47	42	44	50
PV	2	15	13	14	10	14	16
YP	2	16	14	15	12	10	18
GS	33	1448	1940	1945	1936	1932	1940
WL	N/C	8.4	8.4	8.8	8.0	6.4	6.4
Cake	-	1/32	1/32	1/32	1/32	1/32	1/32
pH	7.2	11.0	10.5	11.0	10.0	11.0	10.5
Chl	3300	1600	2700	2100	1300	2500	3000
Ca	AVY	20	20	20	40	40	60
LCM	1/2	2	1	1 1/2	1	1	1 1/2

Date 11-18 11-19

Depth	5109	5389					
WT	9.25	9.2					
Vis	50	60					
PV	16	22					
YP	18	20					
GS	15/47	18/55					
WL	8.8	7.6					
Cake	1/32	1/32					
pH	10.5	10.5					
Chl	2700	1900					
Ca	20	20					
LCM	2	2					

OPERATOR Berexco LLC LOCATION 700' FSL + 1665' FWL  
 LEASE Elsie NO. 2-17 TWP. 26S RANG. 33W  
 ELEVATION 2938 KB ATD 5410 COUNTY Finney STATE Kansas