



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: _____



1056454

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 Bbbs.	Gas Mcf	Water Bbbs.	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	BEREXCO LLC
Well Name	Riney 1-21
Doc ID	1056454

All Electric Logs Run

Microresistivity Log
Compact Photo Density Compensated Neutron Log
Array Induction Shallow Focussed Electric Log
Compensated Sonic Log with Integrated Transit Time

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/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

May 24, 2011

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

Re: ACO1
API 15-171-20800-00-00
Riney 1-21
NE/4 Sec.21-18S-31W
Scott 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

ALLIED CEMENTING CO., LLC. 039918

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Oakley KS

DATE <u>4/21/11</u>	SEC. <u>21</u>	TWP. <u>18</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00</u>	JOB FINISH <u>1:30</u>
LEASE <u>Rivney</u>	WELL # <u>1-21</u>	LOCATION <u>Scott City E To Union</u>			COUNTY <u>Scott</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>50 W. 1st</u>			

CONTRACTOR Borexco #2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 498
 CASING SIZE 8 7/8 DEPTH 497 59
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM '
 MEAS. LINE SHOE JOINT 45'
 CEMENT LEFT IN CSG. 45'
 PERFS.
 DISPLACEMENT

OWNER Same

CEMENT
 AMOUNT ORDERED 340 SKS 60/40
370 cc 207 cc gel

COMMON	<u>204</u>	@ <u>16.25</u>	<u>3315.00</u>
POZMIX	<u>136</u>	@ <u>8.50</u>	<u>1156.00</u>
GEL	<u>6</u>	@ <u>21.25</u>	<u>127.50</u>
CHLORIDE	<u>11</u>	@ <u>58.00</u>	<u>640.00</u>
ASC		@	

EQUIPMENT

PUMP TRUCK CEMENTER Alex
 # 422 HELPER Wayne
 BULK TRUCK
 # 396 DRIVER Joey
 BULK TRUCK
 # DRIVER

HANDLING	<u>357</u>	@ <u>2.25</u>	<u>803.25</u>
MILEAGE	<u>14 SK/mile</u>		<u>2159.85</u>
TOTAL			<u>829.80</u>

REMARKS:

Drill Run 8 7/8" casing, Circumlets, Max cement
Displace Cement
Cement did Circumlets
Thank you Alex, Wayne, Joey

SERVICE

DEPTH OF JOB	<u>497'</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE	@ <u>0.95</u>		<u>187.15</u>
MILEAGE	<u>55 X 2</u>	@ <u>7.00</u>	<u>770.00</u>
MANIFOLD	<u>Head</u>	@ <u>200.00</u>	<u>200.00</u>
Lite Vehicle	<u>55 X 2</u>	@ <u>4.00</u>	<u>440.00</u>
Waiting Time	<u>1 hr</u>	@ <u>400</u>	<u>400.00</u>
TOTAL			<u>2122.15</u>

CHARGE TO: Borexco Inc
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

Wooden Plug	-1	@ <u>82.00</u>	<u>82.00</u>
Control valves	-2	@ <u>67.00</u>	<u>134.00</u>
Baffle Plate	-1	@ <u>101.00</u>	<u>101.00</u>
TOTAL			<u>317.00</u>

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.

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT ~~_____~~ IF PAID IN 30 DAYS

PRINTED NAME Gilbert Davila Jr
 SIGNATURE A. M. D. [Signature]

ALLIED CEMENTING CO., LLC. 039930

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Oakley KS

DATE <u>5/4/11</u>	SEC. <u>21</u>	TWP. <u>18</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>5:30 AM</u>	JOB FINISH <u>6:30 AM</u>
LEASE <u>Riney</u>	WELL # <u>1-21</u>	LOCATION <u>Scott City E to Union 50 W</u>			COUNTY <u>Scott</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)		INTO					

CONTRACTOR Beresco #2

TYPE OF JOB PTA

HOLE SIZE 7 7/8 T.D. _____

CASING SIZE 8 7/8 DEPTH 497'

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER Same

CEMENT

AMOUNT ORDERED 295 60/40 4 90 gal

114 Flo Seal

COMMON	<u>177</u>	@ <u>16.25</u>	<u>2896.25</u>
POZMIX	<u>118</u>	@ <u>8.25</u>	<u>1003.50</u>
GEL	<u>10</u>	@ <u>21.25</u>	<u>212.50</u>
CHLORIDE		@	
ASC		@	
		@	
<u>Flo Seal</u>	<u>7416</u>	@ <u>2.70</u>	<u>199.80</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>308 SKs</u>	@ <u>2.25</u>	<u>693.00</u>
MILEAGE	<u>119 SK/mile</u>		<u>1863.75</u>
			TOTAL <u>6847.75</u>

EQUIPMENT

PUMP TRUCK CEMENTER Alan

422 HELPER Wayne

BULK TRUCK

390 DRIVER Miky

BULK TRUCK

_____ DRIVER _____

REMARKS:

- 50 SKs @ 2220'
- 125 SKs @ 1500'
- 50 SKs @ 540'
- 20 SKs @ 60'
- 30 SKs Rat Hole
- 20 SKs Mouse Hole

SERVICE

DEPTH OF JOB 2220'

PUMP TRUCK CHARGE 2125.00

EXTRA FOOTAGE @ _____

MILEAGE 55 x 2 @ 7.00 770.00

MANIFOLD @ _____

Lite Vehicle 55 x 2 @ 4.00 440.00

@ _____

TOTAL 3335.00

CHARGE TO: Beresco Inc

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 Gilbert Davila Jr

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

Diamond Testing

General information Report

General Information

Company Name BEREXCO, LLC

Contact	PETE WILSON	Job Number	
Well Name	RINEY #1-21	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #1 LANSING 'J' 4,165' - 4,180'	Well Operator	BEREXCO, LLC
Surface Location	SEC 21-18S-31W SCOTT COUNTY, KS	Report Date	2011/04/29
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	EVA SOUTH		
Well Type	Vertical		

Test Type	CONVENTIONAL DRILL-STEM TEST		
Formation	DST #1 LANSING 'J' 4,165' - 4,180'		
Well Fluid Type	06 Water	Start Test Time	09:00:00
		Final Test Time	20:17:00
Start Test Date	2011/04/29		
Final Test Date	2011/04/29		
Gauge Name	1150		
Gauge Serial Number			

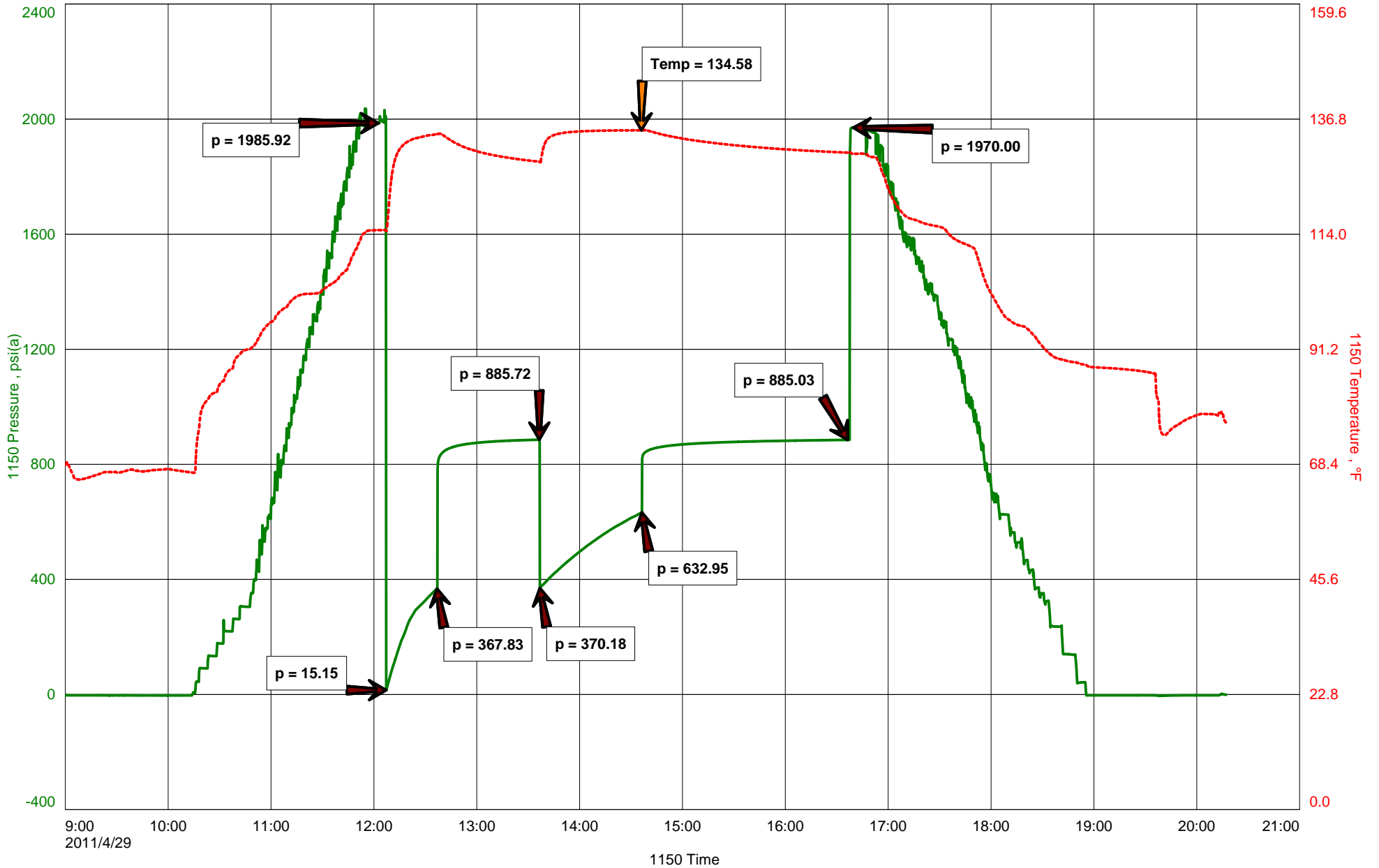
Test Results

RECOVERED: 10' CLEAN OIL 33 GRAVITY @ 60 deg.
50' SOCMW 2% OIL, 74% WTR, 24% MUD
744' SOCMW 2% OIL, 96% WTR, 2% MUD
640' SOCMW 2% OIL, 94% WTR, 4% MUD
1,444' TOTAL FLUID

TOOL SAMPLE: 4% OIL, 74% WTR, 18% MUD

CHLORIDES: 28,500 Ppm
PH: 8.0
RW: .18 @ 80 deg

RINEY #1-21





DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313

DRILL -STEM TEST TICKET

Company _____ Lease & Well No. _____
 Contractor _____ Charge to _____
 Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
 Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State KANSAS
 Test Approved By _____ Diamond Representative ROGER D. FRIEDLY

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
 Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
 Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
 2nd Open: _____

Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: _____ _____ _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
 Initial Hydrostatic Pressure (A) _____ P.S.I.
 Initial Flow Period Minutes (B) _____ P.S.I. to (C) _____ P.S.I.
 Initial Closed In Period Minutes (D) _____ P.S.I.
 Final Flow Period Minutes (E) _____ P.S.I. to (F) _____ P.S.I.
 Final Closed In Period Minutes (G) _____ P.S.I.
 Final Hydrostatic Pressure (H) _____ 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.

Diamond Testing

General information Report

General Information

Company Name BEREXCO, LLC

Contact

PETE WILSON

Well Name

RINEY #1-21

Unique Well ID

DST #2 KC 'B' 4,228' - 4,240'

Surface Location

SEC 21-18S-31W SCOTT COUNTY, KS

Well License Number

Field

EVA SOUTH

Well Type

Vertical

Job Number

Representative ROGER D. FRIEDLY

Well Operator

BEREXCO, LLC

Report Date

2011/05/01

Prepared By

ROGER D. FRIEDLY

Test Type

CONVENTIONAL DRILL-STEM TEST

Formation

DST #2 KC 'B' 4,228' - 4,240'

Well Fluid Type

01 Oil

Start Test Time

17:46:00

Final Test Time

02:17:00

Start Test Date

2011/04/30

Final Test Date

2011/05/01

Gauge Name

1150

Gauge Serial Number

Test Results

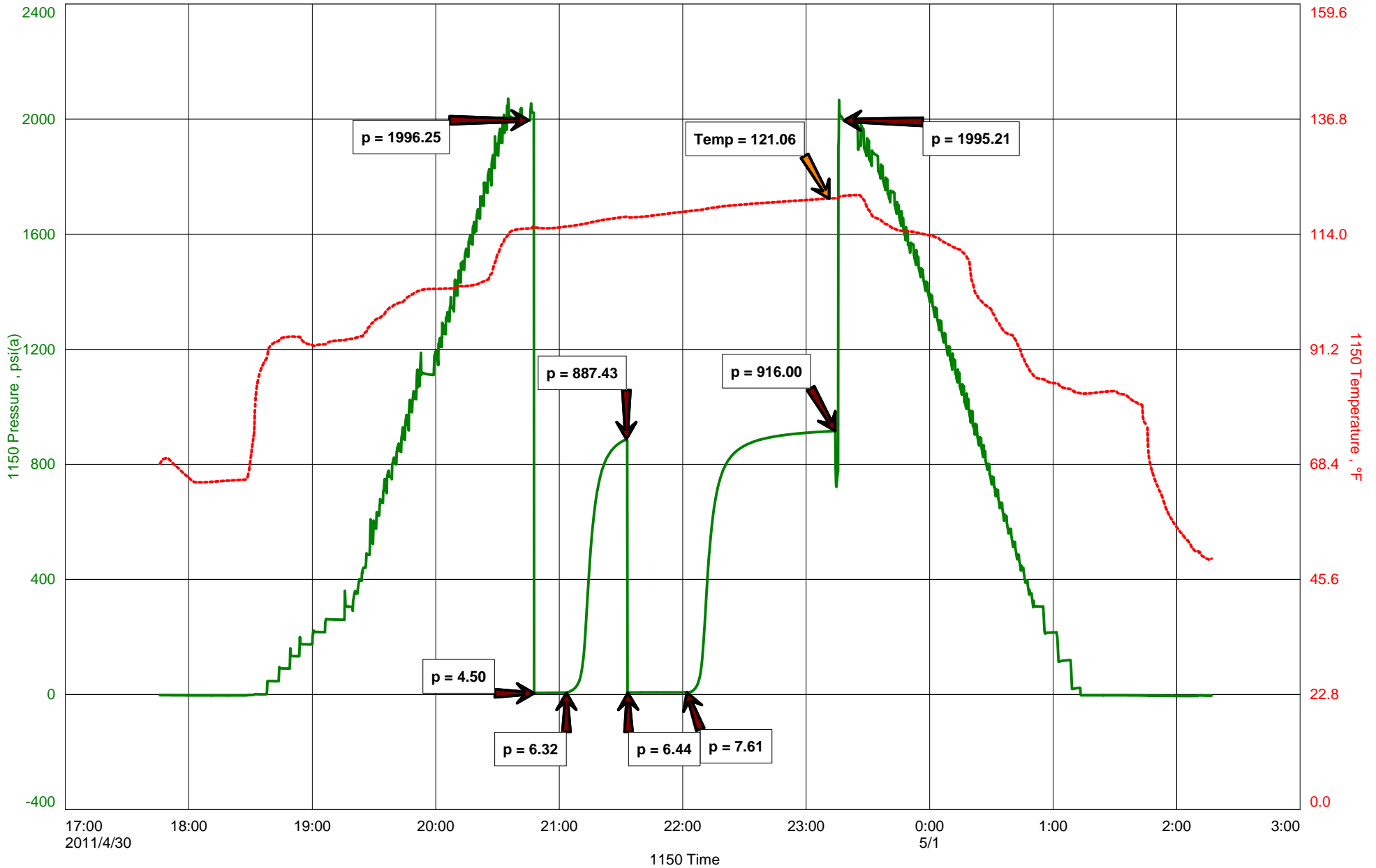
RECOVERED: 5' DM 100% MUD - FEW OIL SPECKS

TOOL SAMPLE: 1% OIL, 99% MUD

BEREXCO, LLC
DST #2 KC 'B' 4,228' - 4,240'
Start Test Date: 2011/04/30
Final Test Date: 2011/05/01

RINEY #1-21
Formation: DST #2 KC 'B' 4,228' - 4,240'
Pool: WILDCAT

RINEY #1-21





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

DRILL -STEM TEST TICKET

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State KANSAS
Test Approved By _____ Diamond Representative ROGER D. FRIEDLY

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: _____ _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure (A) _____ P.S.I.
Initial Flow Period Minutes (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period Minutes (D) _____ P.S.I.
Final Flow Period Minutes (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period Minutes (G) _____ P.S.I.
Final Hydrostatic Pressure (H) _____ 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.

GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY **BEREXCO LLC**

LEASE **RINEY** N. **L-21**

LOCATION **340FNL & 1650FEL**

SEC **21** TWP **18S** R1G **31W**

COUNTY **SCOTT** STATE **KANSAS**

FIELD **BECKLEY EAST**

ELEVATIONS
KB **2949**
OF **2947**
TO **2937**
WATER LEVELS ARE
FROM **KB**

CASING RECORD
8625' 491'

CONTRACTOR **BEREDCO DRLG, RIG NO. 1**

COMM **4-21-2011** DATE **5-4-2011**

RTD **4733** TD **4734**

No. of EST'S **2** No. of CORES **NONE**

SAMPLES SAVED FROM **3500** TD

DRILLING TIME KEPT FROM **3500** TD

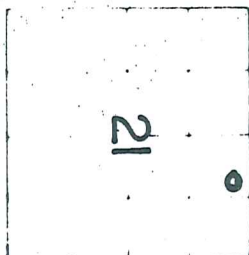
SAMPLES EXAMINED FROM **3500** TD

GEOLOGICAL SUPERVISION FROM **3500** TD

GEOLOGIST ON WELL **EDWIN H. GRIEVES**

FORMATION TOPS

FORMATION	SAMPLE	LOG	DEPTH
BASE HEEBNER	3868	3871	912
LANSING	3901	3911	962
MARMATON	4322	4329	1380
CHEROKEE	4446	4445	1476
MISSISSIPPI	4547	4533	1584
DOLOMITE	4634	4630	1681
TD	4733	4734	



LOG AR. IND. SP. GR.
DENNEUT. GR. CALIPER
MIL. SONIC

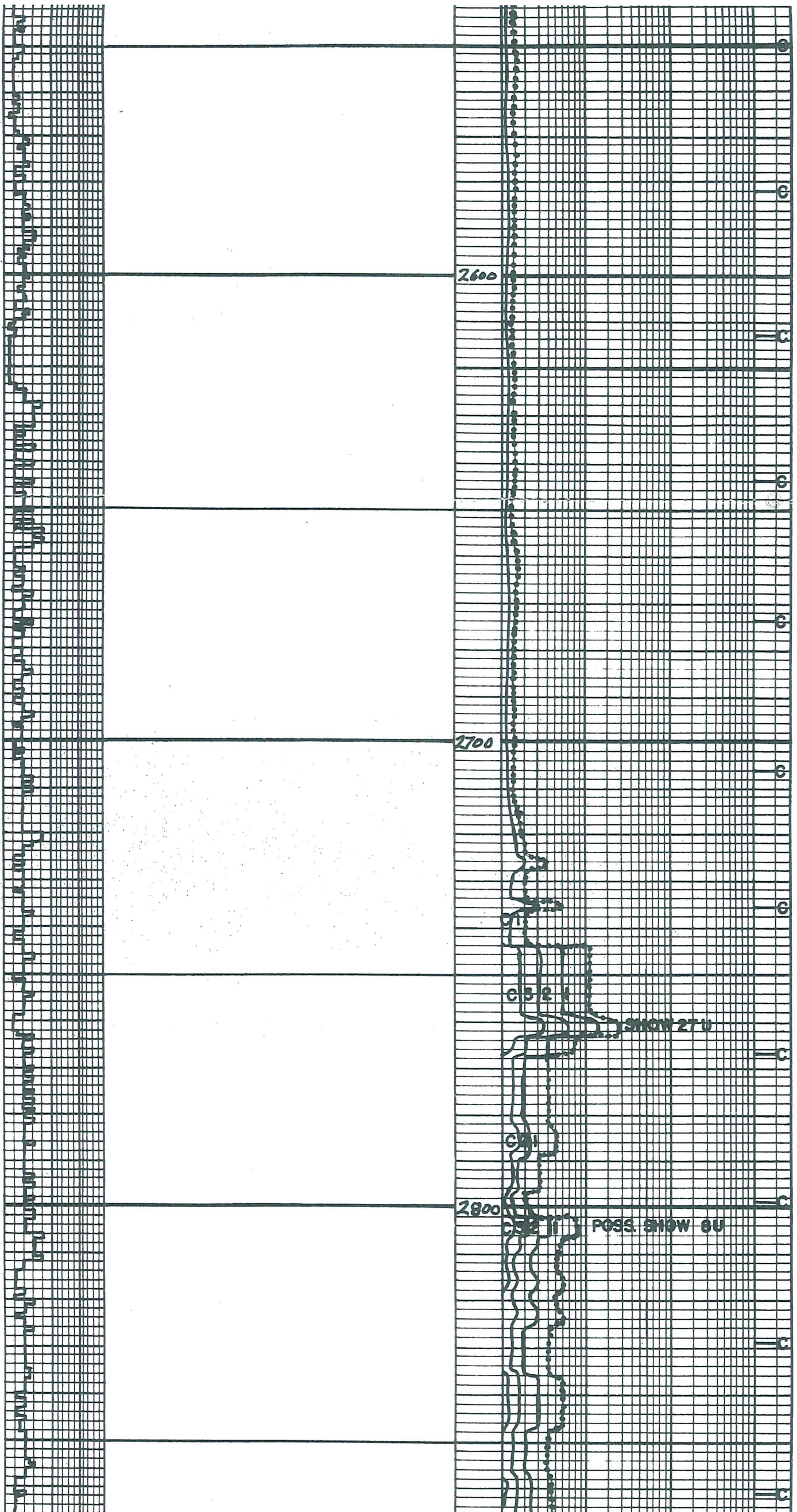
REMARK *Ezoth-Tech had an unmanned gas detection trailer on this well from 2500 feet to total depth.*

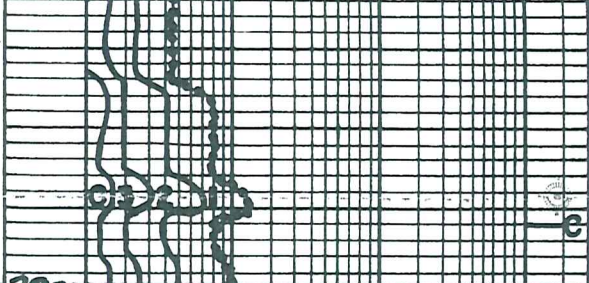
*Thank you,
Edwin H. Grievess
Geologist*

LITHOLOGY (CHROMATOGRAPH)

SANDSTONE	SILTSTONE	HOT WIRE BY TOTAL GAS VOLUME	C1 = METHANE
LIMESTONE	DOLOMITE		C2 = ETHANE
SHALE	GRANITE WASH		C3 = PROPANE
CHERT	ANHY & GYP		C4 = ISOBUTANE
			C5 = BUTANE
			C6 = ISOPENTANE
			C7 = PENTANE

DRILL TIME SCALE	SAMPLE DESCRIPTION	GAS SCALE
5 10 15		10 100 1000





2900

3500

3600

Interbedded Limestones and Shales
 ① Predominately Lms. lt. to med. gray, slt. to ext. Shly. gradng to ext. cal. Shs.; crypto. to v.v. fn. xln.; sub-chlk. for Shly, sub-sucro + packstn. No fluor.; No Cut; No Vis. Por.
 ② hvy. tes. Lms. H. gray. to tan; crypto. to v.v. fn. xln.; sub-chlk. sub-sucro. + packstn.; tes. politic (tan to H. gray) dul. H. to H. yel. fluor.; No Cut; No Vis. Por.
 ③ abn. scattered interbeds. Shales, med. gray; slt. to ext. calc. lps

C13 C12 C11

C13 C12 C11

DISPLACED MUD SYSTEM AT 3607

C11

TRAP CHECK

Lms. H. gray. to tan; crypto. to v.v. fn. xln. sub-chlk. sub-sucro. + packstn; dul. yel. fluor.; No Cut; No Vis Por. w/ v. slt. tes. Lms. H. tan w/ dark tan sp. to even oil stn; v.v. fn. to v. xln. sub-sucro to sucro. H. yel. fluor. w/ flush to gd. strng cut; j. tes. pr. to f.r. micro-pp por. lps

Interbedded Limestones w/ scattered Shs
 ① Faster Dalq. Lms. tes. to abn. wht.

to crm.-chlk and H. tan totan;
 crypto. to v.v. fn. xln; sub-chlk,
 sub-sucro to sli. trs. sucro. and
 packstn.; dul. H. totan. H. yel. fluor
 scattered trs. poor micro-pp
 por. and poss. interxln por IP's

① Slower Drlg. Lms. H. tan totan gray
 IP's; crypto. to v.v. fn. xln; trs. sub-chlk
 sub-sucro + packstn.; dul. H. yel.
 fluor.; No Cut; No Vis. Por.

② scattered Shales med. gray-
 calc IP's to drk + trs v. drk. gry.

3700

C1

3800

Limestones w/scattered thin Shales

① Lms. trs. to abn. wht. to crm.-chlk. and
 H. gray totan; crypto. to v.v. fn. xln;
 sub-chlk, sub-sucro, packstn + sub-lithogr.;
 dul. H. to H. yel. fluor.; No Cut; No Vis Por

② scattered thin shales med. gray.
 calc. IP's and drk to v. drk gray
 to trs black

C1

Sh. v. drk. gray to blk-carb
 Lms. gray totan; crypto. to v.v. fn. xln
 sub-chlk, packstn; dul. H. to H. yel. fluor
 No Cut; No Vis Por

Sh. H. gray. totan. H. green, s. Hy IP's

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

Base Heebner
 3868 - 919

TRAP CHECK

LAWSING
 3901 - 952

TRAP CHECK

3900

Lms. H. tan, v.v. fn. xln; sub-sucro to sucro.;
 H. yel. fluor.; No Cut; abn. pr. to trs
 micro-pp. to interxln por.

Lms. trs. wht. to crm.-chlk and H. tan
 to tan; crypto. to v.v. fn. xln; sub-chlk,
 sub-sucro, packstn + trs sub-lithogr.;
 trs to hvy. trs phantom oolitic to oolitic;
 dul. H. to trs. H. yel. fluor.; No Cut;
 No Vis Por

TRAP CHECK

Lms. H. tan; crypto. to v.v. fn. xln; chlk,
 sub-chlk, sub-sucro to sucro. and
 packstn.; abn. phantom oolitic to trs
 oolitic; dul. H. to H. yel. fluor.; No Cut
 hvy. trs. pr. to fr. micro-pp por. and
 poss. interxln por.

Lms. crm. abn. wht. crm. totan-chlk + H. tan
 crypto. to v.v. fn. xln; hvy. trs. phantom
 oolitic for hvy. trs. oolitic; sub-chlk,
 sub-sucro, to sucro + packstn. dul. H.
 to trs. brt. H. yel. fluor.; No Cut; hvy. trs. pr.
 to gd. p.p., micro-pp. and prob.
 interxln por. IP's

4000

C1

Lms. grayish. tan totan; crypto. to v.v. fn. xln;
 sub-chlk, sub-sucro. to trs. sucro +
 packstn.; trs. phantom oolitic, IP's

dul. lt. to res. lt. yel. + fluor.; No cut; No Vis Por. w/ prob scattered thin sh. med to v. drk. gray - calc to res. black

Lms. tan to hv. tan. wht. to cream chalk and lt. tan to tan, crypto to v. v. fl. xln.; sub-chlk sub-sucro. to sucro. + pachstu; abu phantom oolitic + oolitic; dul. lt. to lt. yel. fluor. No cut; res. poor micro-pp por + poss interbed por

Lms. grayish. tan to tan; crypto. to v. v. fl. xln.; sub-chlk, sub-sucro + pachstu; dul. lt. yel. to lt. yel. fluor.; No cut; No Vis Por

Lms. similar 4025-4056

Lms. similar 4056-4065
Sh. med to v. drk. gray calc to black-carb
Interbedded lms + scattered thin sh

① Lms. tan to abu. wht. to cream-chalk + lt. tan to tan; crypto. to v. v. fl. xln.; sub-chlk, sub-sucro + pachstu; tan to abu. phantom oolitic; oolitic; dul. lt. to lt. yel. fluor.; No cut; res. pa. micro-pp. por. IP's

② Lms. lt. gray, grayish to tan; crypto to v. v. fl. xln.; sub-chlk, sub-sucro, and pachstu; phantom oolitic IP's; dul. lt. to lt. yel. fluor.; No cut; No Vis Por

③ Sh. med to v. drk. gray - calc. to v. drk. gray to black-carb

4166-4178 Lms. tan. wht. to cream-chalk + lt. tan to tan w/ hv. tan sli. drk. tan oil str to res. live brn. oil.; crypto. to v. v. fl. xln.; sl. tan oolitic IP's; for sl. to tan oolitic IP's; matrix sub-sucro. to sucro + abu. pachstu; strong oil odor w/ sl. sulfur overtones; dul. gl. to gl. yel. fluor w/ flush to gl. strong cuts, abu. pr. fia

gd to excel. oolitic sparse hv. tan parts fa. micro-pp. and poss. interbed. por. Quest. Perm IP's

4178-85 Lms. lt. gray, grayish to tan; crypto to v. v. fl. xln.; sub-chlk, sub-sucro + pachstu; dul. yel. fluor. No cut; No Vis Por; res. chert

Sh. med to v. drk. gray - calc to v. drk. gray to blk carb
Lms w/ chert. similar 4178-4185

4194-97 Lms. tan, v. v. fl. xln.; sub-sucro to sucro + pachstu; phantom oolitic; fe. oil odor; spiderweb to lt. brn oil sl. gl. yel. fluor. flush to gl. strong cuts; res. pr. to tr. micro-pp + poss. interbed. por

Interbedded Limestones

① Fossiliferous Lms. tan. wht. to cream-chalk + lt. tan to tan; crypto. to v. v. fl. xln.; phantom oolitic IP's to oolitic IP's; dul. lt. to yel. fluor.; No cut; res. pa. micro-pp. por. IP's

② Slower Dalg. Lms. lt. gray to tan; crypto. to v. v. fl. xln.; sub-chlk, sub-sucro, pachstu + res. sub-lithog. dul. lt. yel. to yel. fluor. IP's; No cut; No Vis Por

Sh. drk. gray. to black-carb
4234-39 Lms. tan. wht. to cream-chalk + tan; crypto. to v. v. fl. xln.; sub-chlk, sub-sucro, pachstu; phantom oolitic; hv. tan sli. drk. tan oil str; faint oil odor; scattered res. sli. to even brn. oil str. y. gl. yel. fluor. flush to gl. strong cuts; scattered res. pa. micro-pp. por + poss. interbed. por IP's; v. lust. tan; sl. drk. gray to tan, qg

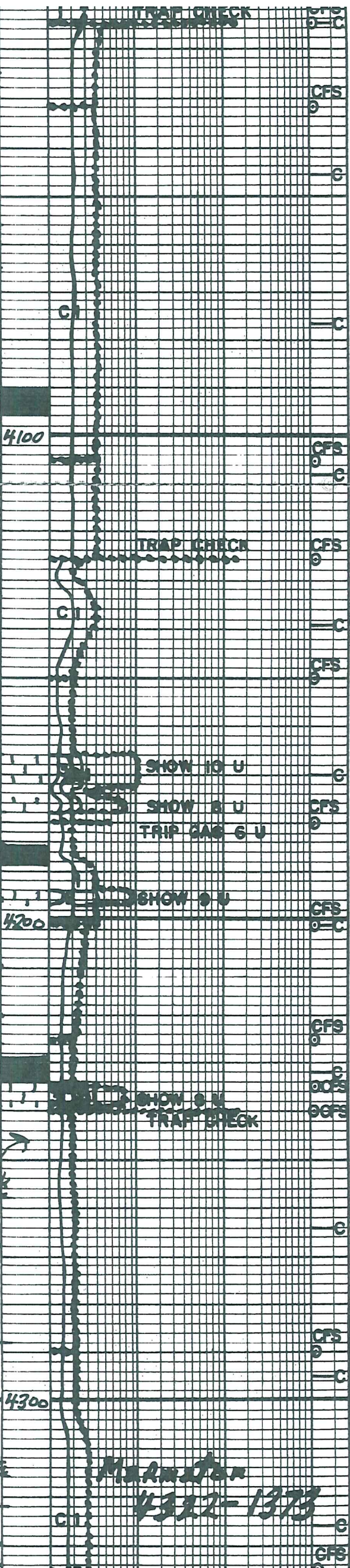
4239-4258 Lms. tan. wht. to cream-chalk + tan, grayish. IP's; crypto. to v. v. fl. xln.; sub-chlk, sub-sucro + pachstu; tan to abu. phantom oolitic; dul. yel. fluor.; No cut; No Vis Por

4258-88 Lms. lt. gray to tanish gray; crypto. to v. v. fl. xln.; sub-chlk, sub-sucro + pachstu; dul. yel. fluor.; No cut; No Vis Por. w/ prob thin interbeds
Shs. med to drk. gray - calc

Lms. similar 4258-88 w/ abu Lms tan, crypto. xln.; sub-lithographic brn. yel. fluor.; No cut; No Vis Por. w/ prob scattered thin interbeds
Shs. med to drk. gray - calc

Lms + Shs.; Lms. lt. to med. gray; v. to extaly. Shly; crypto. to v. v. fl. xln.; sub-chlk + for Shly; sub-sucro + pachstu; j. dul. yel. fluor. IP's; No cut; No Vis Por + Shs med to drk. gray. - sl. to v. calc

4322-4374 Lms. lt. gray. to tan; crypto. to v. v. fl. xln.; sub-chlk, sub-sucro to v. v. fl. res. IP's



4322-1373

widely scattered trs. to brn. oil stn; w/ brt. yel. fluor. w/ flush to gd strung cuts; v. sl. trs. poor + v. v. sl. trs. fine micro-por. + poss. interxln. por.

4374-76 Lms. tan w/ spid. to even drk. tan to brn. oil stn; v. u. xln. sub-sucro. to sucro; trs. foss.; brt. yel. fluor. w/ flush to good strung cuts; scattered trs. very poor. micro-por. + prob. interxln. por.

Lms. H. gray to tan; crypto. to v. u. xln. sub-chlk. sub-sucro. + pachstn. + sub-lithog. raphic dul. yel. fluor.; No cut; No Vis Por. w/ v. v. sl. trs. Show similar 4374-4376 Probly stringing in samp. from above

Sh. med to dk. gray calc to v. dk. gray to black-carb

Lms. w/ scattered trs. show prob. from above similar 4376-4376

Lms. H. gray to tanish H. gray; crypto to v. u. xln.; sub-chlk. sub-sucro. + pachstn. trs. to abu. ph. to form oolitic; v. dul. yel. fluor.; No cut; No Vis Por. w/ trs. chert H. gray to tan opaque

Sh. med to v. dk. gray calc to v. dk. gray to black-carb

Lms. similar 4408-4425 w/ No Chert

Sh. Black-carb

Lms. similar 4408-4425 w/ No Chert

Interbedded Limestones + Shales
Lms. H. to med. gray, tanish IP; crypto to v. u. xln.; sl. to early sh; ph. to form oolitic IP; sub-chlk. sub-sucro. pachstn. trs. sub-lithog. v. v. dul. yel. fluor. IP; No cut; No Vis Por. Sh. med to v. dk. gray-carb

Sh. med to v. dk. gray calc to black-carb

Interbedded Limestones and Shales
Similar 4450-4470 and

Lms. H. gray to tan; crypto to v. u. xln.; extely. oolitic (tan + gray) matrix sub-chlk. sub-sucro. + pachstn.; dul. H. yel. fluor. IP; No cut; No Vis Por

Sh. v. dk. gray to black-carb

trs. chert. tan, transl. to opaque

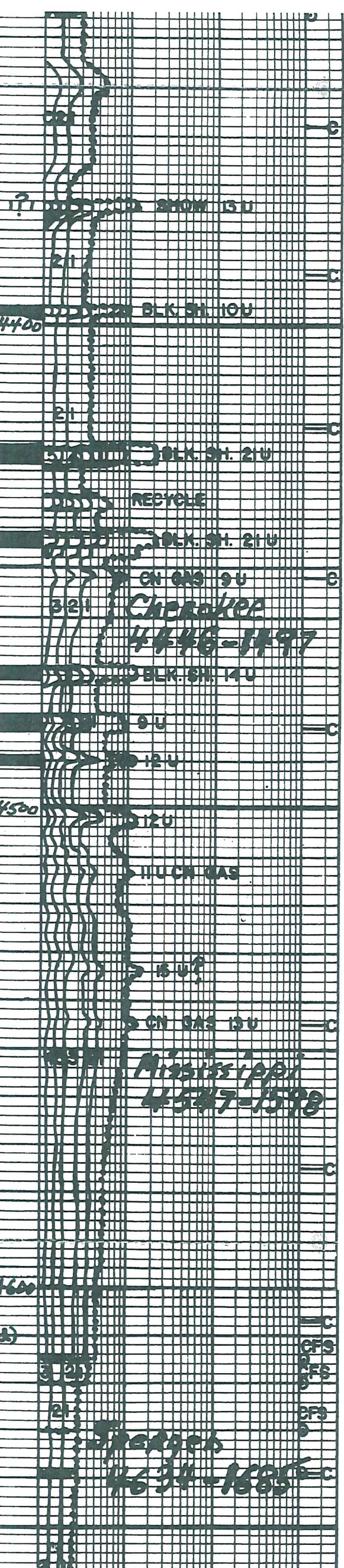
Lms. H. gray, tan to dk. tan; crypto to v. u. xln.; sub-chlk. sub-sucro. pachstn. + trs. sub-lithog. trs. to hoy. trs. oolitic (sm med + trs. lg) (tan); trs. tan. oil stn. w/ yel. fluor. + flush to gd strung cuts; No Vis Por.; show poss along fracture w/ trs. chert gray to tan; opp. to transl.

Lms. dk. tan; crypto xln; pachstn. to sub-lithographic; No fluor; No cut; No Vis Por w/ hoy. trs. chert wht. opaque to trs. + transl.

Lms. hvy. trs. wht. to cam. - chlk w/ chlk. oolites + tan, grayish. IP; crypto to v. u. xln.; v. to extely. oolitic (sm + med) matrix chlk. sub-chlk. sub-sucro. + pachstn. v. dul. yel. fluor.; No cut; No Vis Por. trs. to abu. chert gray, opp. to wht. sl. totally weak. ltr. w/ trs. dead black oil stn.

Lms. trs. wht. to cam. - chlk to gray. to tan; crypto. to v. u. xln.; sl. to extely. oolitic (sm, med + lg) (tan some gray) matrix sub-chlk. sub-sucro. + pachstn. No fluor. No cut; No Vis Por w/ trs. chert H. gray, beach, transl. to opaque

Dol. tan, v. u. xln; v. sucro.; v. sl. trs. dul. yel. fluor.; No cut; abngd. to excel. micro-por. to interxln. por.



MISSISSIPPI
4547-1598

CHEROKEE
4446-1497

SARGE
4634-1685

Dolomites + Limestones
 ① Faster Dalg. Dolo. tan to H. gray;
 v.v. fu. xln.; sub-sucro to v. sucro. j
 sli. to faly. calc. iPs; v. dul. yel. fluor
 No Cut; abu. pr. fr. to gd. micro-pp
 + prob. interxln. por.
 ② Slower Dalg. Lmsts. sli to v. dolomitic
 iPs; gray to tan; cryp. to v. ufu. xln
 track, sub-chlk, sub-sucro + padestis;
 2bu. p. antea oolitic to abu. oolitic
 (gray + tan) (sug. nat + gyp) v. dul. yel.
 fluor. j No Cut; No Vis for
 ③ scattered frag. chert wht. to GRM
 + H. gray; opaque to transl.

4700

CFS
9

TD 4733

7 7/8 inch Bit Info: in out TD
 #New HTC GX22S 491

Cir Points

- | | |
|---------|----------|
| 1. 3900 | 11. 4225 |
| 2. 3910 | 12. 4235 |
| 3. 3950 | 13. 4240 |
| 4. 4015 | 14. 4290 |
| 5. 4032 | 15. 4335 |
| 6. 4105 | 16. 4615 |
| 7. 4126 | 17. 4620 |
| 8. 4150 | 18. 4630 |

- | | |
|----------|-------------|
| 9. 4180 | 19. 4639 |
| 10. 4201 | 20. 4733 TD |

Dev. SURV

- | | |
|---------|---------|
| 1. 504 | 1/2° |
| 2. 1522 | 1 1/2° |
| 3. 2519 | 1° |
| 4. 4180 | 3/4° |
| 5. 4733 | 1/4° TD |

Daily Dalg Progress:

- | | | |
|-------|-------------|---------|
| .3500 | At 11:58 PM | 4-26-11 |
| 3614 | At 7:00 AM | 4-27-11 |
| 4013 | At 7:00 AM | 4-28-11 |
| 4180 | At 7:00 AM | 4-29-11 |
| 4225 | At 7:00 AM | 4-30-11 |
| 4240 | At 7:00 AM | 5-1-11 |
| 4489 | At 7:00 AM | 5-2-11 |
| 4733 | At 6:05 AM | 5-3-11 |
| 4733 | At 7:00 AM | 5-3-11 |

DST #1 Lansing "J" 4165-4180

10 weak to good BOB 6 1/2 min
 FO weak to good BOB 8 1/2 min
 Rec 1444 Total fluid BHT 135°F
 10ft Clean Oil 33 Gravel @ 60°F
 50ft SOCMW 22074%W 242M
 744ft SOCMW 22096%W 22M
 640ft SOCMW 22094%W 42M
 Chl 28500ppm Pit 1800ppm
 pH 8.10
 Rw .18 @ 80°
 Tool Samp 4% oil 74% water 18% mud
 IHP 1986 #
 IEP 15-368 # in 30 min.
 ISIP 886 # in 60 min.
 FFP 370-633 # in 60 min.
 FSIP 885 # in 120 min.
 FHP 1970 #

DST #2 Kansas City "B" 4228-4240

10 Weak surface Blow died 7 min
 FO No Blow
 Rec 5 Mud w/few speck oil
 Tool sample 1% oil 69% mud

DST #2 Kansas City "B" 4228-4240
 10 Weak surface Blow died 7 min
 FO No Blow
 Rec 5 Mud w/few speck oil
 Tool sample 1% oil 99% Mud
 Max Temp 121°F
 IHP 1996#
 IFF 5-6# in 15 min.
 ISIP 887# in 30 min.
 FFP 6-8# in 30 min.
 FSIP 916# in 60 min.
 FHP 1995#

Mud Info:

Date	4-25	4-26	4-27	4-28	4-29	4-30	5-1	5-2	5-3
Time	10:30A	7:05P	11:10A	12:45P	7:10A	7:40A	7:30A	7:10A	7:10A
Depth	2734	3296	3698	4062	4180	4229	4245	4509	4733
WT.	9.3	9.3	8.9	9.2	9.1	9.2	9.2	9.1	9.2
Vis	30	32	44	39	55	45	55	49	57
PV	-	-	11	7	16	15	16	15	17
YP	-	-	12	12	20	17	21	19	21
GS	-	-	10/32	7/22	14/40	13/32	14/40	15/35	14/40
WL	N/C	N/C	9.6	11.2	8.0	8.0	8.0	8.0	7.6
cake	-	-	1/32	1/32	1/32	1/32	1/32	1/32	1/32
pH	7.0	7.0	10.5	10.0	11.0	10.5	10.0	10.5	10.0
Chl	54000	32000	3500	2200	1800	1600	1800	400	1200
Ca	Huy	Huy	20	20	40	40	40	40	40
LCM	1	2	TR.	TR.	TR.	0	1/2	3	5

OPERATOR BEREXCO LLC LOCATION 340FNL 8 1650FEL
 LEASE RINEY NO. 1-21 SEC. 21 TWP. 18S Rng. 31W
 ELEVATION 2949 KB RTD 4733 COUNTY SCOTT STATE KANSAS