

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1252633
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: _____

1252633

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 <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 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
<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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Troy 1-7
Doc ID	1252633

All Electric Logs Run

Compensated Sonic with Integrated Transfer Time
Compact Photo Density Compensated Neutron Microresistivity Log
Array Induction Shallow Focused Electric Log
Microresistivity Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Troy 1-7
Doc ID	1252633

Tops

Name	Top	Datum
Heebner	3729	-401
Heebner (base)	3738	-410
Toronto	3754	-426
Lansing	3798	-470
KS City	4222	-894
KS City (base)	4372	-1044
Marmaton	4400	-1072
Ft. Scott	4566	-1238
Morrow	5058	-1730
Chester	5518	-2200
St. Genevieve	5600	-2272
St. Louis	5670	-2342
RTD	5848	-2520
LTD	5884	-2556

ALLIED OIL & GAS SERVICES, LLC 064156

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Orkley KS

DATE <u>3-14-15</u>	SEC <u>7</u>	TWP <u>29</u>	RANGE <u>40</u>	CALLED OUT	ON LOCATION <u>1:50pm</u>	JOB START <u>5:30am</u>	JOB FINISH <u>6:30am</u>
LEASE <u>Troy</u>	WELL # <u>1-7</u>	LOCATION <u>Johnson City Hwy 160, E to Center Gas station 2 1/2 S E into</u>			COUNTY <u>Stanton</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Berenco 1 OWNER Same

TYPE OF JOB <u>Surface</u>	CEMENT		
HOLE SIZE <u>12 1/4</u>	TD. <u>1710'</u>	AMOUNT ORDERED <u>610 sks class A Lite, 1/4" Flo-seal, 31cc, 150 sks Com 31cc</u>	
CASING SIZE <u>8 5/8</u>	DEPTH <u>1710'</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>106.25 bbl H2O</u>			

EQUIPMENT			
PUMP TRUCK # <u>431</u>	CEMENTER <u>Paul Bearner</u>	COMMON <u>150 sks</u>	@ <u>17.90</u> <u>2685.00</u>
	HELPER <u>Brandon Wilkinson</u>	POZMIX	@
BULK TRUCK # <u>870/241</u>	DRIVER <u>W. Jayne Mcglighy</u>	GEL	@
BULK TRUCK # <u>706/841</u>	DRIVER <u>Ramon Liberal</u>	CHLORIDE <u>20 lb #</u>	@ <u>1.10</u> <u>2212.60</u>
	<u>Escort</u>	ASC	@
		<u>Lite (65/35/10) 610 sks</u>	@ <u>19.88</u> <u>12,126.80</u>
		<u>Flo-seal 156 #</u>	@ <u>2.99</u> <u>463.32</u>
		<u>Medonic 0 Tada 0</u>	@ <u>17,492.10</u>
		<u>(7871.23/452)</u>	@
		HANDLING <u>863.14 #13</u>	@ <u>2.48</u> <u>2140.59</u>
		MILEAGE <u>1087.83 hr/mi x</u>	@ <u>2.75</u> <u>2971.52</u>
		TOTAL	

REMARKS:

Run Pipe / Float equip / Drop ball, purged ball through float valve @ 250 # mix 610 sks lite, 1/4" flo-seal 150 sks Com. Release plug, Displace w/ water. Plug did land @ 200 #, lift 700 #. Float did hold, cement did cure, cement in cellar only.

Thank you Paul + Crew

CHARGE TO: Berenco llc

STREET _____

CITY _____ STATE _____ ZIP _____

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 Dave Chapman

SIGNATURE [Signature]

SERVICE			
DEPTH OF JOB	<u>1710'</u>		
PUMP TRUCK CHARGE	<u>2213.75</u>		
EXTRA FOOTAGE	@		
MILEAGE m/hv	<u>30</u>	@ <u>7.70</u>	<u>231.00</u>
MANIFOLD Head	@	<u>N/C</u>	
m/lv	<u>50</u>	@ <u>4.40</u>	<u>220.00</u>
	@		
		<u>(3508.58/155)</u>	
		TOTAL	<u>7,796.36</u>

PLUG & FLOAT EQUIPMENT			
<u>8 5/8 Weatherford</u>			
Guide Shoe	@	<u>460.00</u>	
AFV Float valve	@	<u>447.00</u>	
Centralizers	<u>3</u>	@ <u>95.00</u>	<u>285.00</u>
Top Rubber Plug	@	<u>131.00</u>	
	@		
		<u>(568.35/155)</u>	
		TOTAL	<u>1,263.00</u>

SALES TAX (if any) _____

TOTAL CHARGES 26,552.58

DISCOUNT 11,948.66 (45%) IF PAID IN 30 DAYS

14,603.91 Net.

Date 3-14-15 District Oakley, KS Ticket No. 6456
 Company Baruco Rig Baruco 1
 Lease Troy Well No. 1-7
 County Stanton State KS
 Location 7-29-40 Field _____

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8.578 Type New Weight 24# Collar _____

Casing Depths: Top KB Bottom 1710'

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 1710 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbbls/Lin. ft. 0.637 Lin. ft./Bbl. _____
 Open Holes: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type Line 6.5/35
6.1 gal 3/1 cc Excess _____

Amt. 6.10 Skys Yield 1.9 ft³/sk Density 12.5 PPG

TAIL: Pump Time _____ hrs. Type Com 3/1 cc
 Excess _____

Amt. 1.50 Skys Yield 1.36 ft³/sk Density 14.5 PPG

WATER: Lead 10.9 gals/sk Tail 6.5 gals/sk Total _____ Bbbls

Pump Trucks Used 431- Brandon

Bulk Equip. 890/241- Wayne
906/841- Roman (Liberal)

Float Equip: Manufacturer Weatherford

Shoe: Type Guide Shoe Depth 1710

Float: Type AFU Float valve Depth 1668

Centralizers: Quantity 3 Plugs Top Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type Water Amt. 10.625 Bbbls. Weight _____ PPG

Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER Paul Beaver

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbbls Min.	
			158	158		Hold Safety meeting Run pipe / float equip / drop ball pump ball through @ 300# Mix 6.10 sks line mix 1.50 sks com release plug Displace w/ water plug did land float did hold cement was in collar only
			23	181		
			20	201		
			20	221		
			20	241		
			20	261		
			10	271		
			10	281		
			6.25	287.25		

FINAL DISP. PRESS: 700 PSI BUMP PLUG TO 900 PSI BLEEDBACK 1 BBLs. THANK YOU



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: TRY1-7DST1

TIME ON: 1815 (3/23)
TIME OFF: 0450 (3/24)

Company BEREXCO LLC Lease & Well No. TROY #1-7
Contractor BEREDCO LLC RIG 2 Charge to BEREXCO LLC
Elevation 3316 GL Formation MORROW K SAND Effective Pay _____ Ft. Ticket No. M759
Date 3/23/2015 Sec. 07 Twp. _____ 29 S Range _____ 40 W County STANTON State KANSAS
Test Approved By EDWIN H. GRIEVES Diamond Representative MIKE COCHRAN

Formation Test No. 1 Interval Tested from 5347 ft. to 5420 ft. Total Depth 5420 ft.
Packer Depth 5342 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 5347 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5329 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 5349 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 68 Drill Collar Length 620 ft. I.D. 2 1/4 in.
Weight 9.3 Water Loss 7.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 700 P.P.M. Drill Pipe Length 4695 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 73 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. (62' DP) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB, BUILT TO 9" (NO BB)
2nd Open: VWSB, INCREASING TO 5" (NO BB)

Recovered ~90 ft. of GM 1% GAS, 99% MUD
Recovered ~90 ft. of TOTAL FLUID (90'DC)
Recovered _____ ft. of _____
Recovered _____ ft. of PH:

Recovered _____ ft. of <u>RW: . @ DEG</u>	Price Job
Recovered _____ ft. of <u>CHLOR: PPM</u>	Other Charges
Remarks: _____	Insurance
<u>TOOL SAMPLE: 4% GAS, 96% MUD</u>	Total

Time Set Packer(s) 9:30 P.M. A.M. P.M. Time Started Off Bottom 2:00 A.M. A.M. P.M. Maximum Temperature 124°F

Initial Hydrostatic Pressure..... (A) 2571 P.S.I.
Initial Flow Period..... Minutes 30 (B) 32 P.S.I. to (C) 41 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 451 P.S.I.
Final Flow Period..... Minutes 60 (E) 52 P.S.I. to (F) 62 P.S.I.
Final Closed In Period..... Minutes 120 (G) 445 P.S.I.
Final Hydrostatic Pressure..... (H) 2509 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

Pressure Survey Report

General Information

Company Name	BEREXCO LLC	Job Number	M759
Well Name	TROY #1-7	Representative	MIKE COCHRAN
Unique Well ID	DST#1 5347-5420 MORROW K SAND	Well Operator	BEREXCO LLC
Surface Location	SEC.07-29S-40W STANTON CO.KS.	Report Date	2015/03/24
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	EDWIN H. GRIEVES
		Test Unit	NO. 3

Test Information

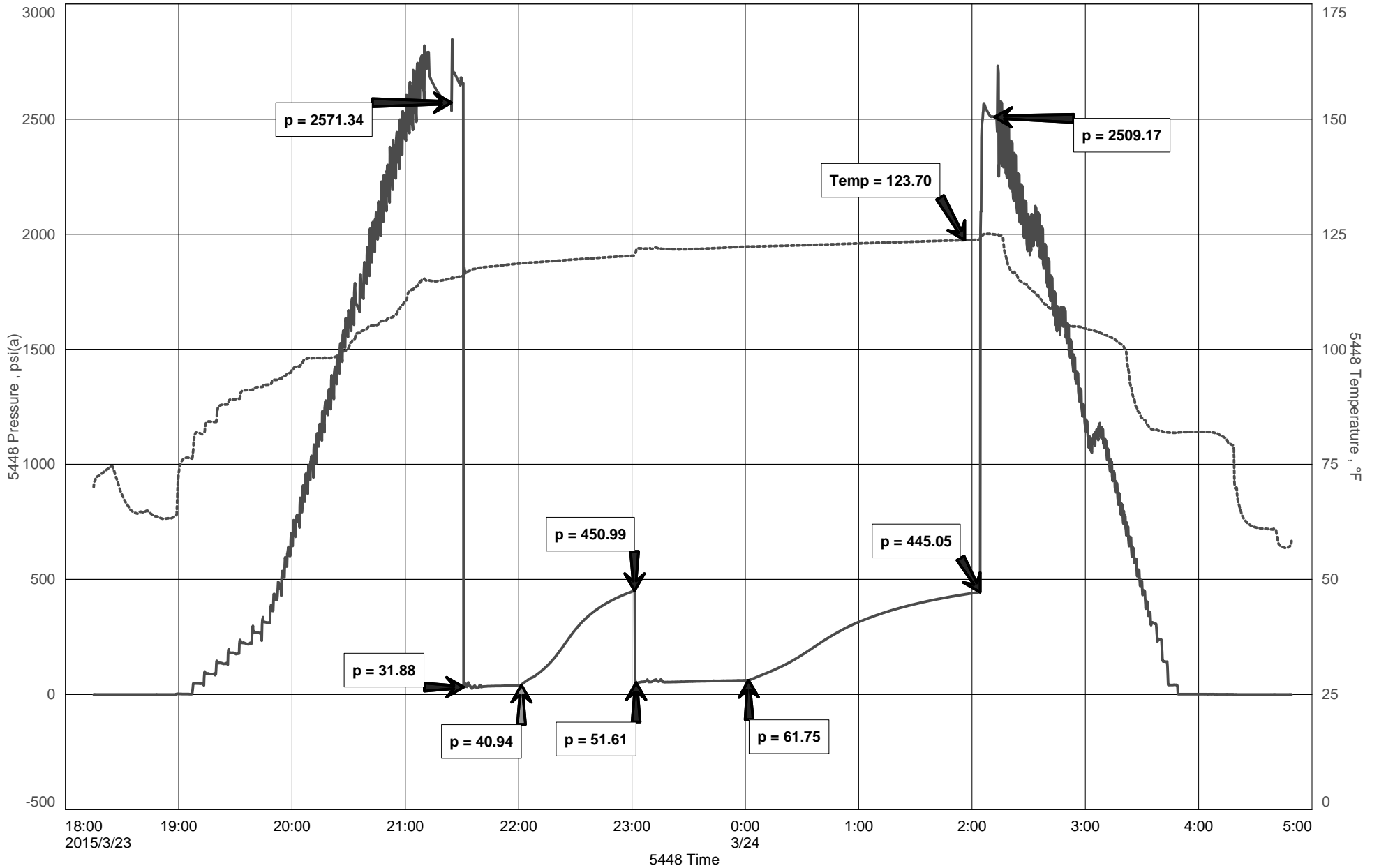
Test Type	CONVENTIONAL		
Formation	DST#1 5347-5420 MORROW K SAND		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/03/23	Start Test Time	18:15:00
Final Test Date	2015/03/24	Final Test Time	04:50:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
~90' GM 1% GAS, 99% MUD
~90' TOTAL FLUID

TOOL SAMPLE: 4% GAS, 96% MUD

TROY #1-7





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: TRY1-7DST2

TIME ON: 1700 (3/24)
TIME OFF: 0435 (3/25)

Company BEREXCO LLC Lease & Well No. TROY #1-7
Contractor BEREDCO LLC RIG 2 Charge to BEREXCO LLC
Elevation 3316 GL Formation MORROW K2 Effective Pay _____ Ft. Ticket No. M760
Date 3/24/2015 Sec. 07 Twp. _____ 29 S Range _____ 40 W County STANTON State KANSAS
Test Approved By EDWIN H. GRIEVES Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 5434 ft. to 5446 ft. Total Depth 5446 ft.
Packer Depth 5429 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 5434 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5416 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 5436 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEM Viscosity 57 Drill Collar Length 620 ft. I.D. 2 1/4 in.
Weight 0.4 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 700 P.P.M. Drill Pipe Length 4782 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 12 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: SSB, BOB 14 MIN (NO BB)
2nd Open: SSB, BOB 4 MIN (NO BB)

Recovered 1250 ft. of GIP (755 'DP,495'DC)
Recovered ~2 ft. of CO 100% OIL (2'DC)
Recovered ~123 ft. of GHOCM 10% GAS, 27% OIL, 63% MUD (123'DC)
Recovered ~125 ft. of TOTAL FLUID

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>GRAVITY: 43.8 @ 60°</u>	Insurance
TOOL SAMPLE: <u>2% GAS, 88% OIL, 10% MUD</u>	Total

Time Set Packer(s) 9:30 P.M. ^{A.M.} P.M. Time Started Off Bottom 2:00 A.M. ^{A.M.} P.M. Maximum Temperature 126°F

Initial Hydrostatic Pressure..... (A) 2592 P.S.I.
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 35 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 682 P.S.I.
Final Flow Period..... Minutes 60 (E) 37 P.S.I. to (F) 62 P.S.I.
Final Closed In Period..... Minutes 120 (G) 707 P.S.I.
Final Hydrostatic Pressure..... (H) 2542 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

Pressure Survey Report

General Information

Company Name	BEREXCO LLC	Job Number	M760
Well Name	TROY #1-7	Representative	MIKE COCHRAN
Unique Well ID	DST#2 5434-5446 MORROW K2	Well Operator	BEREXCO LLC
Surface Location	SEC.07-29S-40W STANTON CO.KS.	Report Date	2015/03/25
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	EDWIN H. GRIEVES
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 5434-5446 MORROW K2		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/03/24	Start Test Time	17:00:00
Final Test Date	2015/03/25	Final Test Time	04:35:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks RECOVERED:

1250' GIP (755' DP,495'DC)
~2' CO 100% OIL (2'DC)
~123' GHOCM 10% GAS, 27% OIL, 63% MUD (123'DC)
~125' TOTAL FLUID

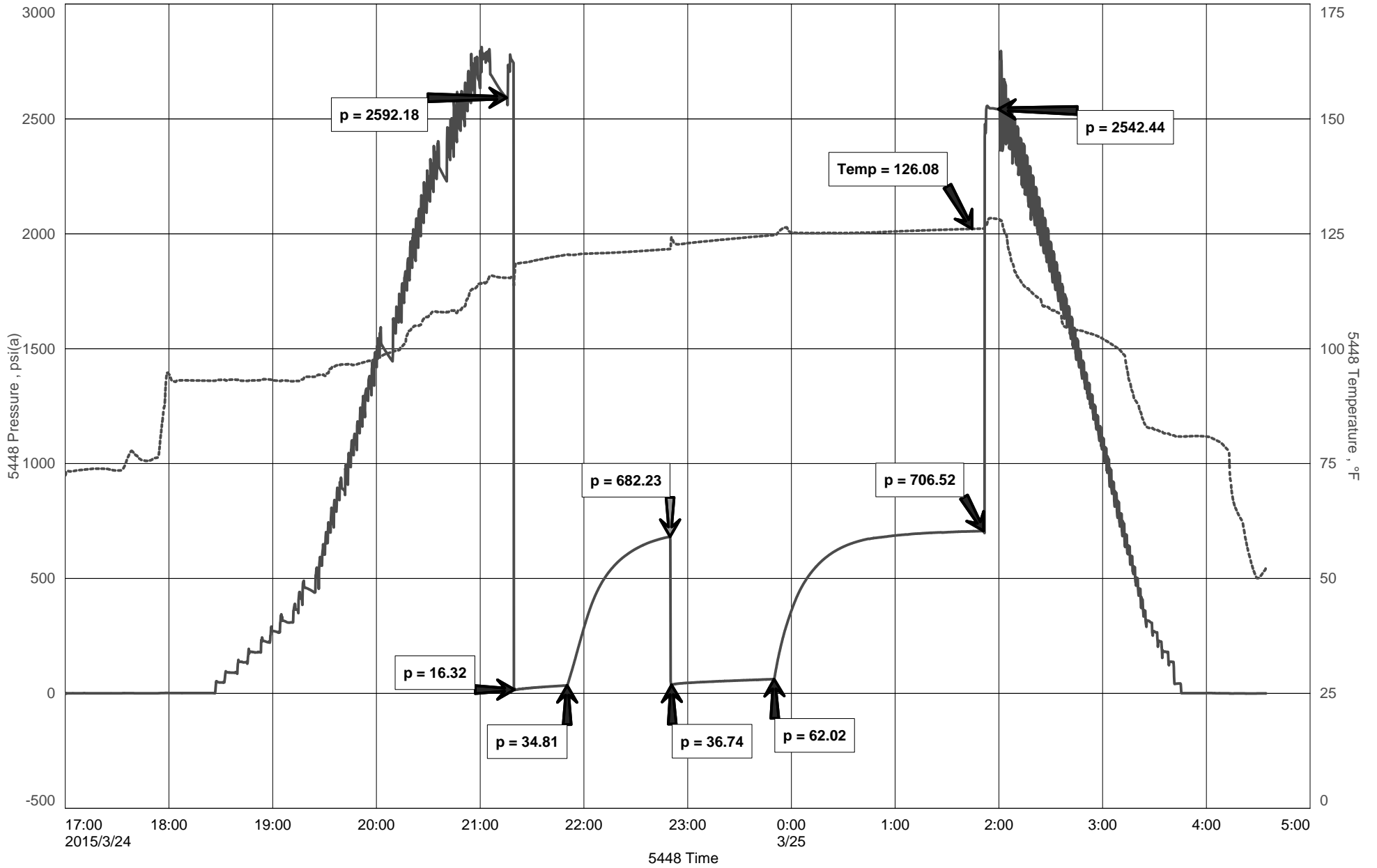
GRAVITY: 43.8 @ 60 DEG

TOOL SAMPLE: 2% GAS, 88% OIL, 10% MUD

BEREXCO LLC
DST#2 5434-5446 MORROW K2
Start Test Date: 2015/03/24
Final Test Date: 2015/03/25

TROY #1-7
Formation: DST#2 5434-5446 MORROW K2
Pool: WILDCAT
Job Number: M760

TROY #1-7





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: TRY1-7DST3

TIME ON: 1550 (3/25)
TIME OFF: 0420 (3/26)

Company BEREXCO LLC Lease & Well No. TROY #1-7
Contractor BEREDCO LLC RIG 2 Charge to BEREXCO LLC
Elevation 3316 GL Formation LOWER MORROW K2 Effective Pay _____ Ft. Ticket No. M761
Date 3/25/2015 Sec. 07 Twp. _____ 29 S Range _____ 40 W County STANTON State KANSAS
Test Approved By EDWIN H. GRIEVES Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 5449 ft. to 5460 ft. Total Depth 5460 ft.
Packer Depth 5444 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Packer Depth 5449 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 5431 ft. Recorder Number 5448 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 5451 ft. Recorder Number 0063 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Mud Type CHEM Viscosity 60 Drill Collar Length 620 ft. I.D. 2 1/4 in.
Weight 0.1 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 900 P.P.M. Drill Pipe Length 4783 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number 3 Test Tool Length 32 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 11 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: SSB, BOB 54 SECONDS (BOB BB)
2nd Open: VWSB, INC TO 1/2" THEN @ 35 MIN INCREASE TO BOB (BOB BB)

Recovered 1730 ft. of GIP
Recovered 1345 ft. of GMW 2% GAS, 97% WTR, 1% MUD (725'DP,620'DC)
Recovered 1345 ft. of TOTAL FLUID
Recovered _____ ft. of _____

Recovered _____ ft. of <u>CHLOR: 35,000 PPM</u>	Price Job
Recovered _____ ft. of <u>RW: .22 @ 60 DEG</u>	Other Charges
Remarks: <u>PH: 7.0</u>	Insurance
<u>PULLED 190,000 & JARRED SEVERAL TIMES TO BREAK FREE</u>	
<u>TOOL SAMPLE: 100% GASSY WATER</u>	Total

Time Set Packer(s) 8:20 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 1:00 A.M. ^{A.M.}/_{P.M.} Maximum Temperature 137°F

Initial Hydrostatic Pressure..... (A) 2580 P.S.I.
Initial Flow Period..... Minutes 30 (B) 274 P.S.I. to (C) 613 P.S.I.
Initial Closed In Period..... Minutes 60 (D) 680 P.S.I.
Final Flow Period..... Minutes 60 (E) 678 P.S.I. to (F) 692 P.S.I.
Final Closed In Period..... Minutes 120 (G) 703 P.S.I.
Final Hydrostatic Pressure..... (H) 2555 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

Pressure Survey Report

General Information

Company Name	BEREXCO LLC	Job Number	M761
Well Name	TROY #1-7	Representative	MIKE COCHRAN
Unique Well ID	DST#3 5449-5460 LOWER MORROW K2	Well Operator	BEREXCO LLC
Surface Location	SEC.07-29S-40W STANTON CO.KS.	Report Date	2014/03/26
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	EDWIN H. GRIEVES
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 5449-5460 LOWER MORROW K2		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2014/03/25	Start Test Time	15:50:00
Final Test Date	2014/03/26	Final Test Time	04:20:00
		Well Fluid Type	01 Oil
Gauge Name	5448		
Gauge Serial Number			

Test Results

Remarks RECOVERED:

1730' GIP
1345' GMW 2% GAS, 97% WTR, 1% MUD (725'DP,620'DC)
1345' TOTAL FLUID

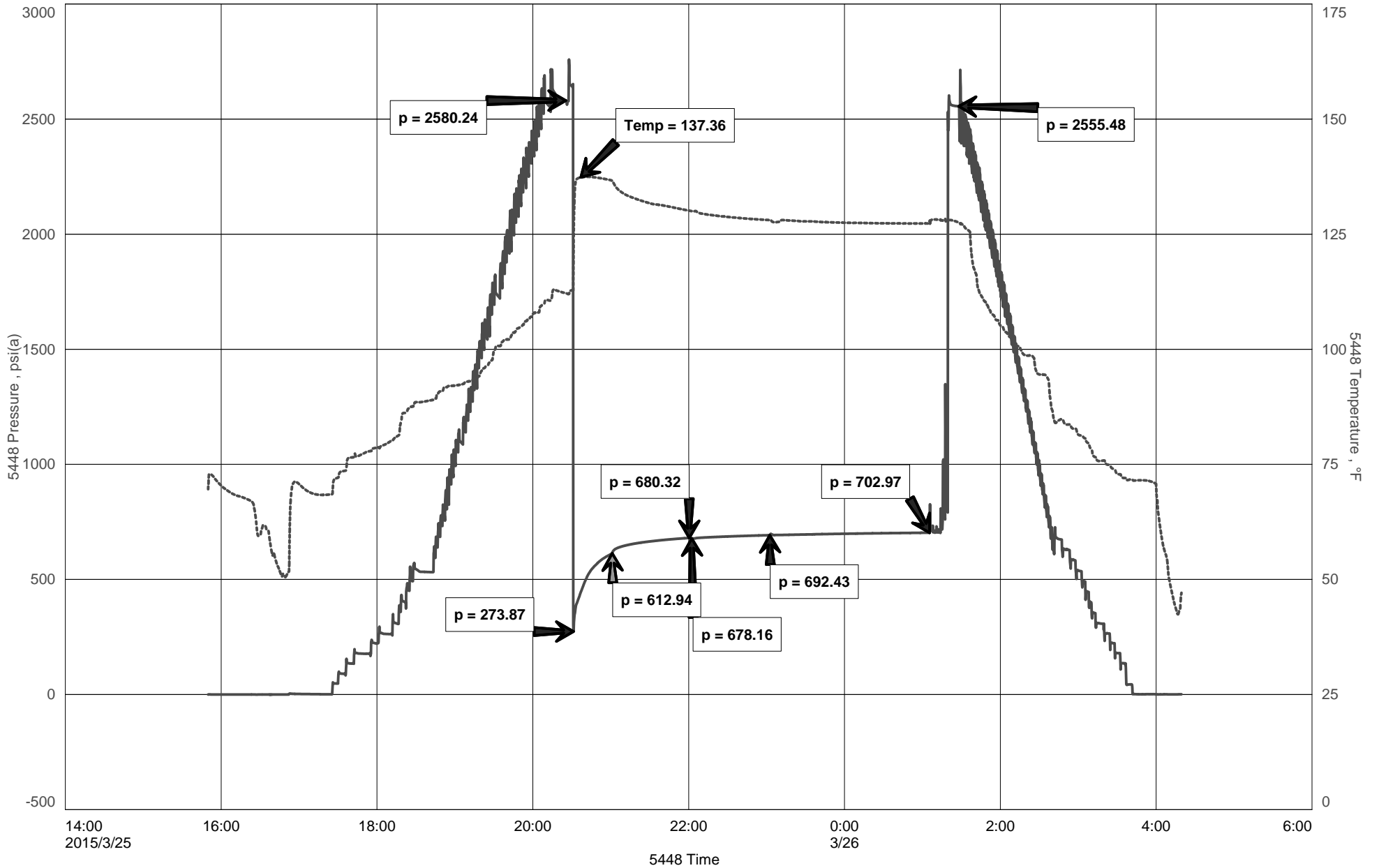
CHLOR: 35,000 PPM
PH:7.0
RW: .22 @ 60 DEG

TOOL SAMPLE: 100% GASSY WATER

BEREXCO LLC
DST#3 5449-5460 LOWER MORROW K2
Start Test Date: 2014/03/25
Final Test Date: 2014/03/26

TROY #1-7
Formation: DST#3 5449-5460 LOWER MORROW K2
Pool: WILDCAT
Job Number: M761

TROY #1-7



ALLIED OIL & GAS SERVICES, LLC 064167

Federal Tax I.D. # 20-8651475

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

SERVICE POINT:

Botham 3:30pm 4:30am
Oakley KS

DATE <u>3-29-15</u>	SEC. <u>7</u>	TWP. <u>29S</u>	RANGE <u>40W</u>	CALLED OUT	ON LOCATION <u>5:30am</u>	JOB START <u>1:30pm</u>	JOB FINISH <u>8:30pm</u>
LEASE <u>Troy</u>		WELL# <u>1-7</u>	LOCATION <u>Johnson City Hayfield, 1E</u>			COUNTY <u>Stanton</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>			<u>3S, E into</u>				

CONTRACTOR Beredia
 TYPE OF JOB Production (2 stage)
 HOLE SIZE 7 1/8 T.D. 5848'
 CASING SIZE 5 1/2 (15.5") DEPTH 5840'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL DV TOOL DEPTH 3201'
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 43.69'
 CEMENT LEFT IN CSG. 43.69'
 PERFS. _____
 DISPLACEMENT 1000 H₂O 78 lb/mud, 76, 18 lb H₂O

OWNER Same
 CEMENT
 AMOUNT ORDERED Bottom stage - 150 sks class
A Lite, 265 sks ASC, Top stage 50 sks
Lite R.H. m.H. 375 sks class A Lite, 50 sks
 ASC
 COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 ASC 315 sks @ 23.50 7402.50
Lite (as/35/6) 575 sks @ 19.88 11,431.00
Flo-seal 226 # @ 2.97 671.22
Gilsonite 1890 # @ .98 1852.20
CFL-310 149 # @ 18.90 2816.10
Powdered Deflower 43 # @ 3.50 150.50
Material Total @ 24,823.52
(10,945.59/45%) @ _____
 HANDLING 1088.49 ft³ @ 2.48 2699.45
 MILEAGE 1361.23 ton/mi @ 2.75 3743.38

EQUIPMENT
 PUMP TRUCK CEMENTER Paul Beaver
 # 495/281 HELPER Branden Wilkinson
 BULK TRUCK
 # 890/241 DRIVER Lorene Wentz
 BULK TRUCK
 # 891/310 DRIVER Wojnie Meghghy

REMARKS:
Top stage -
Run Pipe / Drop ball, pumped ball through @ 500 #
Mix 150 sks Lite tail w/ 265 sks ASC
Release plug, Displace w/ water + mud, plug
did land @ 2300 # Lift 1800 #, opened DV
TOOL @ 900 #, circ 4-hrs Top stage -
Mix 30 sks in R.H., mix 20 sks in m.H.
Mix 375 sks Lite, tail w/ 50 sks ASC
Release plug, displace w/ water, plug did land
@ 2000 # Lift 1000 #, cement did set
(1000 lb top pit)

CHARGE TO: Beredia llc *Paul + Crew*
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB 5840' 3201'
 PUMP TRUCK CHARGE 3099.25, 2406.25
 EXTRA FOOTAGE _____ @ _____
 MILEAGE m 140 30 @ 7.70 231.00
 MANIFOLD Head @ _____
m 140 30 @ 4.40 132.00
 TOTAL 12,311.33

PLUG & FLOAT EQUIPMENT
Weatherford 5 1/2
AFU Float shoe @ 575.00
Latchdown Flop Assy @ 660.00
DV TOOL @ 335.00
Centralizers 14 @ 57.00 798.00
Baskets 3 @ 395.00 1185.00
(3,835.35/45%) TOTAL 8,523.00

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 _____
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES 45,157.85
 DISCOUNT 20,321.03 (45%) IF PAID IN 30 DAYS
Bid. 24,836.81 Net.

Date 3-29-15 District Oakley KS Ticket No. 64167
 Company Berexco Rig Beredra 1
 Lease Troy Well No. 1-7
 County Stanton State KS
 Location 7-29-40 Field _____

CEMENT DATA:
 Spacer Type: _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type New Weight 15.5 Collar _____

Bottom Stage 150 sks
 LEAD: Pump Time _____ hrs. Type CLASS A Lite
265 sks ASC Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 Tail Pump Time _____ hrs. Type 425 sks class
Alite, 50 sks ASE Excess _____
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Casing Depths: Top KB Bottom 5840'

Pump Trucks Used 495/281 - Brandon
 Bulk Equip. 890/241 - LaRene
891/310 - Wayne

Drill Pipe: Size 2 7/8 Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. 45848 ft. P.B. to _____ ft.

Float Equip: Manufacturer Weatherford
 Shoe: Type AFU Float shoe Depth 5840'
 Float: Type Latchdown Flex Assy Depth 5796'
 Centralizers: Quantity 17 Plugs Top BV Btm. Flex
 Stage Collars DUTON
 Special Equip. 3 baskets
 Disp. Fluid Type water/mud Amt. _____ Bbls. Weight _____ PPG
 Mud Type 40 vis Weight _____ PPG

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 10238 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. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE _____

CEMENTER Paul Beaver

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						<u>Bottom Stage</u>
						<u>Hold Safety meeting, Run Pipe / Float equip</u>
						<u>Dropped, wrapped through shoe @ 5000'</u>
3:30	500				4	
	200		38	38	6	
	200		44	82	6	<u>Mix 150 sks lite @ 12.5#</u>
	0		5	87	4	<u>Tail w/ 265 sks ASC @ 14.5#</u>
	200		60	147	6	<u>wash up to pit @ release plug</u>
	1800		78	225	6	<u>Displace w/ water</u>
4:30						<u>Displace w/ mud</u>
						<u>Plug did land @ 2300' Lift 1800'</u>
						<u>opened tool @ 900', circ.</u>
7:30						<u>Top Stage</u>
			7	7	4	<u>Mix 30 sks lite in R.H.</u>
			5	12	4	<u>Mix 20 sks lite in M.H.</u>
	200		95	107	6	<u>Mix 375 sks Lite @ 12.5#</u>
	200		8	115	6	<u>Test w/ 50 sks ASC @ 14.5#</u>
	0		5	120	4	<u>wash up to pit @ release plug</u>
	1000		76	196	6	<u>Displace w/ water</u>
8:30 pm						<u>plug did land @ 2000'</u>
						<u>Lift 1000'</u>
						<u>Tool did close</u>
						<u>Cement did circ</u>
						<u>10 bbl to pit</u>
						<u>Hold Safety meeting</u>
						<u>Thank you!</u>

WELL FILE

GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY Berexco LLC
 LEASE Troy NO. 1-7
 LOCATION 2296' FSL + 1090' FWL
 SEC. 7 TWP. 29S RNG. 40W
 COUNTY Stanton STATE Kansas
 FIELD Arroyo Northeast

ELEVATIONS
 KB 3328
 DF 3326
 GL 3316

MEASUREMENTS ARE ALL FROM KB

CONTRACTOR Beredco Dalg. Rig #1
 COMM. 3-12-2015 COMP. 3-29-2015
 RTD 5848 LTD 5884

CASING RECORD
8 7/8" at 1705 w/ SX.
 of w/ SX.
 of w/ SX.
 of w/ SX.

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

EL. LOG Res. SP-GR
Den. Neut GR Caliper
ML. Sonic

SAMPLES SAVED FROM 3500 TO TD

DRILLING TIME KEPT FROM 3500 TO TD

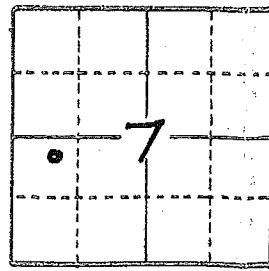
SAMPLES EXAMINED FROM 3500 TO TD

GEOLOGICAL SUPERVISION FROM 3500 TO TD

GEOLOGIST ON WELL Edwin H. GRIEVES

FORMATION TOPS

FORMATION	SAMPLE	LOG	SUBSEA
<u>Base Heebner</u>	<u>3710</u>	<u>3738</u>	<u>- 410</u>
<u>Toronto</u>	<u>3723</u>	<u>3754</u>	<u>- 426</u>
<u>Lansing Fm.</u>	<u>3768</u>	<u>3798</u>	<u>- 470</u>
<u>Kansas City Fm.</u>	<u>4191</u>	<u>4222</u>	<u>- 894</u>
<u>BKC</u>	<u>4334</u>	<u>4372</u>	<u>- 1044</u>
<u>Marmaton</u>	<u>4360</u>	<u>4400</u>	<u>- 1072</u>
<u>Ft. Scott</u>	<u>4534</u>	<u>4566</u>	<u>- 1238</u>
<u>Morrow Fm</u>	<u>5021</u>	<u>5058</u>	<u>- 1730</u>
<u>Chester Fm</u>	<u>5499</u>	<u>5518</u>	<u>- 2200</u>
<u>St. Genevieve</u>	<u>5571</u>	<u>5600</u>	<u>- 2272</u>
<u>St. Louis</u>	<u>5627</u>	<u>5670</u>	<u>- 2342</u>
<u>TD</u>	<u>5848</u>	<u>5884</u>	



API# 15-187-21319

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3500 feet to total depth.

Edwin H. Griev
Geologist
Geo

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

CHROMATOGRAPH
 HOT WIRE BY
 TOTAL GAS VOLUME

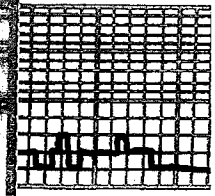
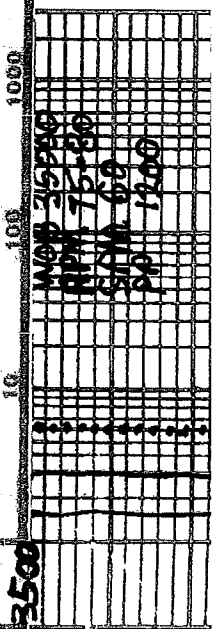
SANDSTONE
 LIMESTONE
 SHALE
 OTHER

LITHOLOGY

SAMPLE DESCRIPTION

DRILL TIME SCALE

GAS SCALE



DATE

WELL NO

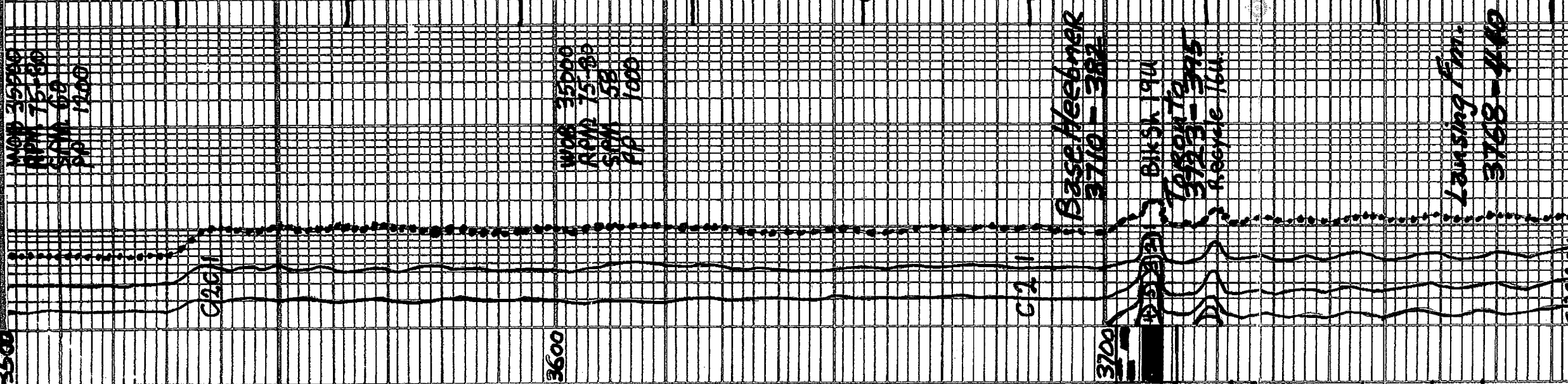
FLUORINE

DRILL TIME
SCALE

SAMPLE DESCRIPTION

GAS SCALE

3500 3600 3700



Interbedded Limestones w/ scattered trs. Chert

① Slower Dalg. lms. H. gray, grading to tan crypto to v. fn. xlm.; trs. sub-chalk, sub-sucro + packstn.; trs. to abn. w/phantom bolites to oolitic; dull. Yel. to dull. yel. fluor.; No Cut; No Vis Por.

② Faster Dalg. lms. trs. to abn. wht. to cream-chalk, + grayish-tan to tan crypto. to v. fn. xlm.; sub-chalk, sub-sucro to sucro; dull. yel. to dull. H. yel. fluor.; No Cut; abn. pr. to fr. + frag. to excel. micro-pp. to inter. xn. por.

③ scattered trs. Chert crm. to tan; opaque

Sh. v. drk. gray. to black carb.

— Lms. grayish-tan; crypto xlm packstn. to sub-ortho gr.; dull. yel. fluor.; No Vis Por

Sh. H. gray to lt. green; mushy + soft when wet; silty 1p's

— Lms. hyp. trs. wht. to cream-chalk + crm. to tan crypto. to v. fn. xlm.; sub-chalk, sub-sucro to trs. sucro; dull. yel. fluor.; No Cut; v. scattered trs. v. pr. micro ppae.

— Lms. grayish-tan to tan; crypto. to v. fn. xlm.; trs. sub-chalk, sub-sucro to packstn. + sub-lithogr.; dull. yel. fluor. No Cut; No Vis Por

Sh. H., med + trs. drk. gray-sh. to v. calc.

NOV 25 1960
RPM 75-80
SPM 60
PP 1200

NOV 25 1960
RPM 75-80
SPM 50
PP 1000

Base Heebner
3710 - 382

3700
BKS. 194
LAWSON T. 3715
3725 - 3745
recycle 164

Lawson Fm.
3768 - 410

Sh. H., med & trs. drk. gray-sh. to v. calc.

Interbedded Limestones

① Faster Delg. Lms. trs to hvy. trs. whit. to c.c.m. - chlk & grayish. tan to tan crypto. to v. v. fn. v. ln.; sub-chlk sub-sucro to sucro.; scattered trs. foss.; scattered trs. phantom oolitic to oolitic; dul. vel. to dul. H. vel. fluor.; No cut; scattered trs to hvy trs PR. to fr. micro pp por. & poss. inter xln. por.

② Slower. Delg. Lms. H. gray to tan; crypto. to v. v. fn. xln.; trs. sub-fine, sub-sucro.; packets & TRS sub-lithogr.; scattered trs. to trs. w/phantom oolitic to oolitic; dul. H. vel. to trs H. vel. fluor.; No cut; No Vis POR

Lms. trs. to abn. wht. to cream chlk & tan; crypto. to v. v. fn. xln. v. to extaly. oolitic; trs. sh. to v. oolitic; matrix trs. sub-chlk, sub-sucro to sucro. & trs. packets; mottled vel. to glan. vel. fluor.; No cut; abn. PR. fr. ad. to excel.; oolitic por. w/ trs PR. to gl. trs. fr. micro - pp. por.; Quest. Perm

Lms. similar 3954 - 4000 w/ less oolitic & more poritic w/ corresponding reduction in porosity

Lms. tan to lt. gray, mottled IP's, crypto to v. v. fn. xln.; oolitic IP's (tan to lt. gray) sub-chlk sub-sucro & packets; dul. vel. fluor. IP's; No cut; No Vis POR

Lms. similar 3954 - 4000 Lms. lt. gray to tan; crypto. to v. v. fn. xln. trs sub-fine; trs. sub-sucro & packets; dul. vel. fluor. IP's; No cut; No Vis POR

Lms. similar 4039 - 4051 w/ abn

Lansing Fm.
3768-4110

3979

3800

3900

392

BIT Trip 3932
EF5

401

4000

W28 95000
RPM 6570
58M
54
1000

Lms. similar to 3954 - 4000
Lms. H. gray, tan, crypt. to v. fine. tan
traces sub-chalk, traces sub-succro & packstn;
dul. yel. fluor. IP's; No cut; No Vis for

Lms. similar to 4039-4051 w/abn
sh med to dark gray - calc

Interbedded Lmsts.

① Slower Dalg. Lms. H. gray, tanish IP's
crypto. to v. fine. tan; traces sub-chalk,
traces sub-succro & packstn; scattered
traces phar. tom. oolitic to oolitic (gray);
dul. yel. fluor.; No cut; No Vis for

② Faster Dalg. Lms. traces to heavy, tan
whit. cream to gray-chalk & grayish-tan
to tan; crypto. to v. fine. tan.
sub-chalk, sub-succro, traces fossil.
dul. H. yel. to owl. yel. fluor.
No cut; No Vis for

Lms. abn. whit. to cream-chalk & tan;
crypto. to v. fine. tan; to extremely oolitic
matrix sub-chalk, sub-succro & packstn;
dul. yel. fluor.; No cut; No Vis for

Lms. H. gray to grayish-tan; crypto. to v. fine.
tan; traces sub-succro, packstn & sub-
lith ool.; v. v. dul. yel. fluor. IP's
No cut; No Vis for

Lms. traces whit. to cream-chalk & tan; v. v. fine. tan;
to traces crypto. tan; v. to extremely oolitic

for sli. to fine oolitic matrix
sub-succro. to v. succro & traces packstn
faint hydrocarbon odor, yel. to light
yel. fluor.; No cut; abn. fine. tan; to
excl. oolitic por. w/ heavy traces. Poor
to fair traces to sli. traces excel.
IP; micro-p. to inter. por.; Prob. to
Quest. Perm.

Interbedded Limestones

③ Lms. tan, grayish, IP's, crypto to
v. fine. tan; sub-chalk, sub-succro &
packstn; dul. H. yel. fluor. IP's; No cut
No Vis for

④ Lms. H. to med. gray, tanish IP's;
sli. to very shly; crypto xln.;
sub-chalk to ore shly & packstn;
No fluor.; No cut; No Vis for

WDB 95000
RAM 65-70
SUM 54
AP 1000

TRAP CHECK

C21

C21

C2
C3

GFS

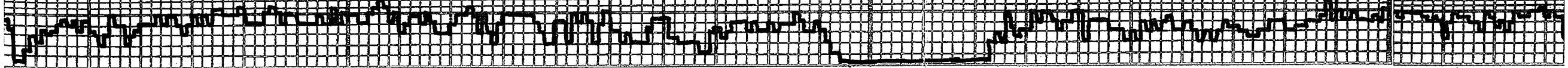
WDB 58000
RAM 65
SUM 54
AP 1000

Kansas C. M. F. M.
4197-888

WDB 96000
RAM 65-70
SUM 54
AP 1000

Gas Show
33 to 35 W

WDB 98500
RAM 65
SUM 54
AP 1000



Lms. H. to med. gray - sl. to estly shly. gray. to estly calc. Shs. crypto. xln. sub-shly. No cut. No Vis. Por.

Lms. lt. gray. to tan. crypto. xln. P&Ckstr. + sub-lithogr. ; dul. yel-fluor. No cut; No Vis. Por.

Lms. abn. cream chalk & tan. crypto. to w. tan. xln. sl. to fair. oolitic. IP's; sub-shly. sub-succr. ; dul. yel-fluor. ; No cut; No Vis. Por.

Lms. similar 4360-4368

Pass Sh. v. drk. gray to black. Lms. similar 4370-4368. Lms. to tan. to whit. to cream. chile. yel. gray. to shly. to v. oolitic. in a tan. sub-succr. to succr. & pack str. ; yel. to dul. yel. fluor. No cut. 30% OR. FR. to 100% oolitic & trs. OR. to tan. P.R. microsp. & poss. trs. in OR. xln. por.

Interbedded Lmsts w/ trs Chert thin Shales

① Lms. trs. to hor. trs. whit. to cream. chlk. & grayish. Tan. to tan. crypto. to v. tan. xln. sub-shly. sub-succr. & pack str. trs. sub-lithogr. ; scattered trs. Phantom oolitic. to oolitic. ; dul. yel. fluor. IP's; No cut; No Vis. Por.

② Lms. H. to med. gray - sl. to v. Shly. ; crypto. to trs. v. y. xln. sub-chlk. for shly. trs. succr. ; pack str. to sub-lithogr. ; scattered trs. dul. yel. fluor. No cut; No Vis. Por.

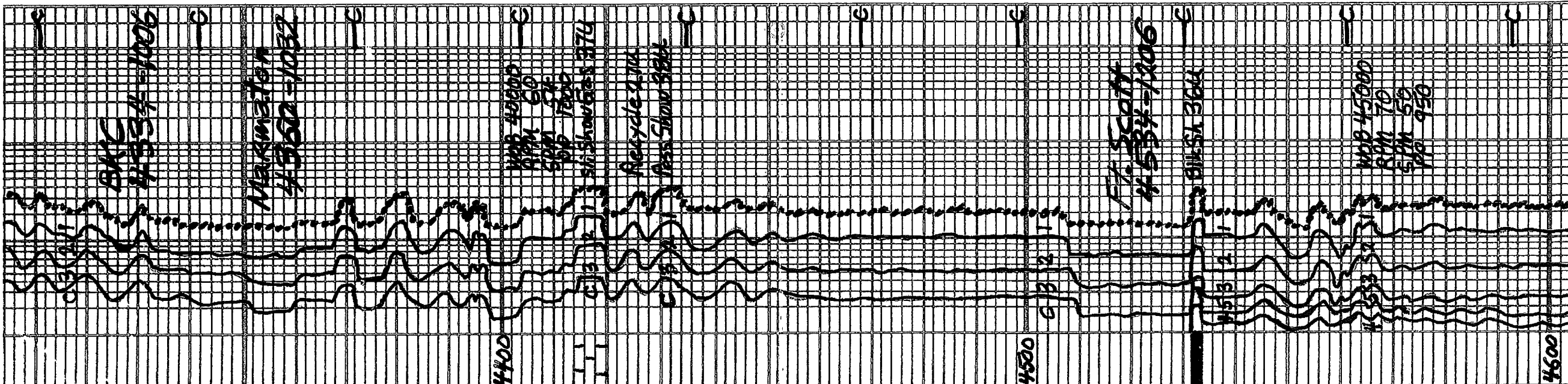
③ Trs. to hor. trs. Chert H. to drk. gray. & trs. Tan. ; opaque

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

4534-4974

Interbedded Limestones and Shales

Lms. to sub-tan. cream - lithogr.



AKS #554-1206

MARKIMETON #550-1082

W.B. #5000
8 AM 70
5 PM 70
100

Recycle Unit
Pass Show 9900

Ft. Scott #554-1206

W.B. #5000
8 AM 70
5 PM 70
100

4500

4534-4924

Interbedded Limestones and Shales

① Lms. fms. wht. to crem. chalky tan, graysh. IP's; crypto. to v. v. fine. xln; sub-chalk, 5% b-sucero, packstn and fms. sub-1. thogrid. yel. to tessel. fluor.; No cont.; No Vis POR.

② Lmst. H. med to tes. dk. gray - sh. to extr. sh. Shly. s. r. y. to f. v. with xln.; sub-chalk w/ok. Shly.; fms sub-succ. packstn. to sub-lithog. k. idul. yel. fluor. IP's; No cont.; No Vis POR.

③ Sh. med. dk. to v. dk. gray - sh. to extr. sh. scale. IP's, grading to shly. lmst's

④ Scattered Shs v. dk. gray to black carb., increasing with depth

4600

4570

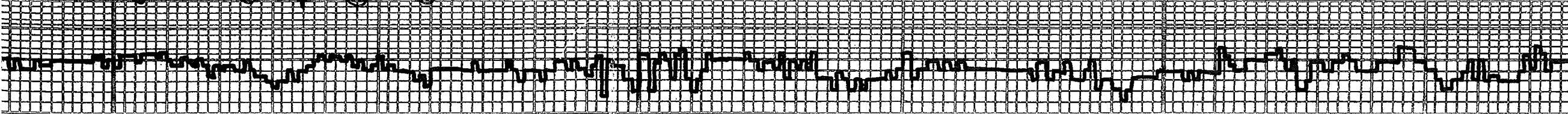
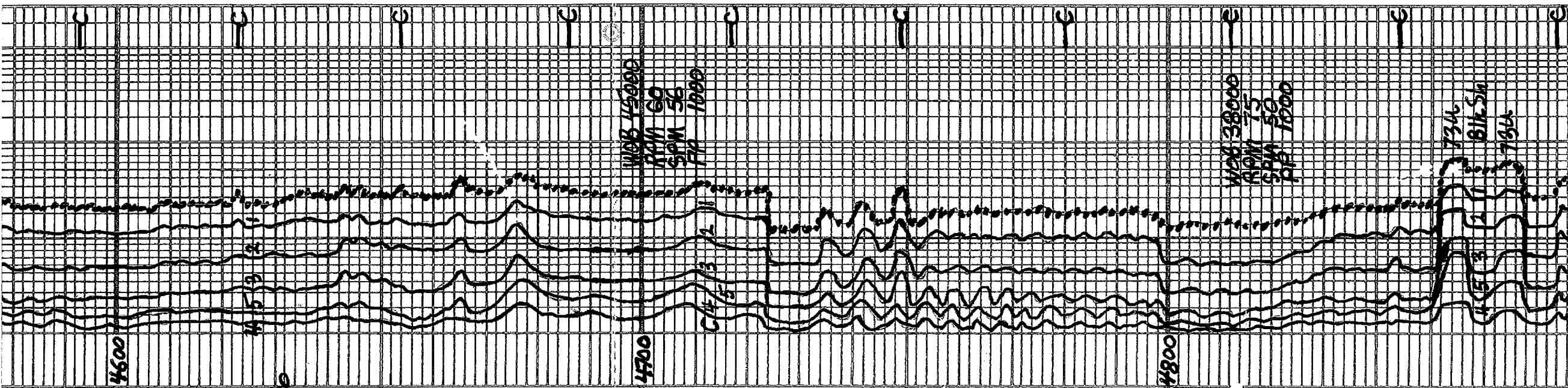
4700

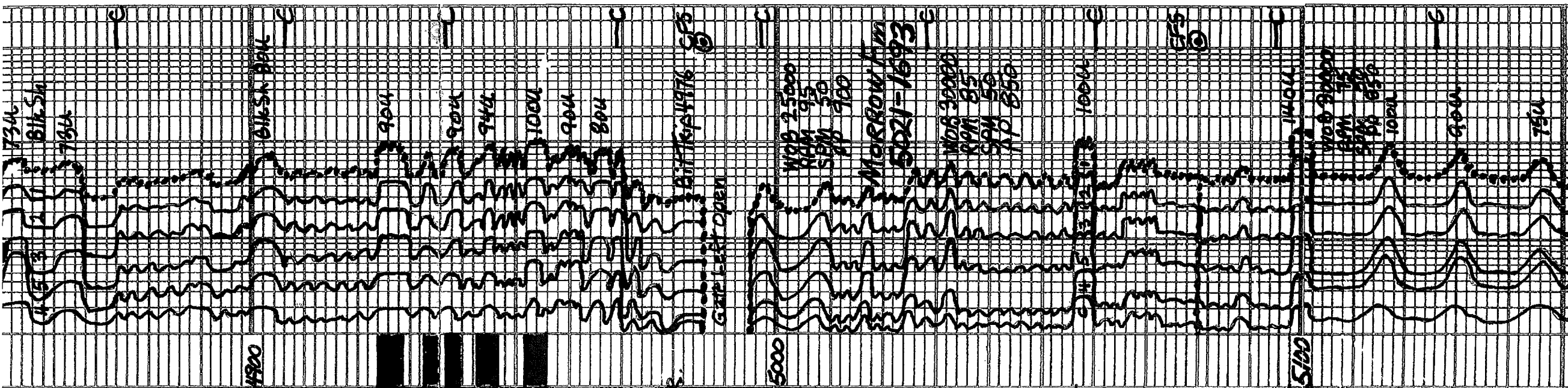
4800

WOB 15000
RPM 60
SPM 56
FIP 1000

WOB 38000
RPM 75
SPM 50
RIP 1000

734
614.5h
734





1900

Interbedded Lmsts + Shs similar
4534 - 4924 predominantly
black - carb. shales

Lmsts w/ thin interbeds Shales

① Lm. H. to med. gray - sl. to extly
shly. grading to ool. m. bedded with
tan. crpt. to. to v. v. fine. l. in
sub-succ. cracks to sub-lithogr.
TRs. v. dwl. H. floors. No cont. No v. for.

② scattered thin interbeds Sh
med. to v. dek. gray - sl. to extly.
calc.

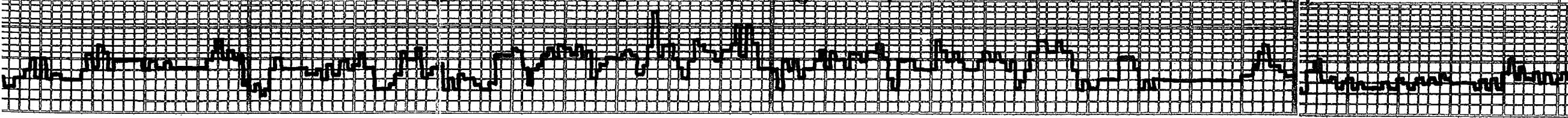
③ scattered thin interbeds Shs
v. dek. gray to black - carb.

Sh. med. dek. to v. dek. gray and
black w/ interbeds Lmsts
similar 4956 - 5021

Sh. med. gray - soft w/ silky luster
IP's and dek. to v. dek. gray to
TRs. black w/ v. sl. tes. olive green.

Poss. Qtz Sbst found a few grs of

SA med. to coarse grs - ang
w/ poss brn. oil str. on one or two



5102-5337 Sh. Tns. med. gray w/silky luster, predominately dark to v. dark gray - splintery lps Tns. Pyrite w/scattered Tns Lms H. to med. gray, tanish lps (crypto to v. u. fin. xln); Tns oolitic (gray); Tns. foss. i sub-bas. o. o. p. 2.65 in. to sub-1.7 thogr. dark H. yel. fluor. lps; No Cut No vis. por.

5200

CH 512

750

6

6

Dev. Survey 1077

WGS 22000
RFM 1000
SPM 50
AP 900

5800

H 5 3 2 1

6

Lms SdSt H. gray, tanish lps to med. gas (gas. crypto to v. u. fin. xln); composed Lm. gas + Tns. oolites gray to tan scattered Tns glauc. + v. chlorite; scattered Tns. Sil. silty v. or sil. Qtz Sdy - v. tu. ang. i. dul. H. yel. fluor.; No Cut No vis. por.

5362-5403 Sh med. gray, w/silky luster lps to dark gray - splintery lps, Tns pyrite w/Tns lms. Similar 5337-5362 interbeds or stringing in samples from above

A. 5403-5417 Qtz SdSt H. gray to tanish lps, Tns Lm. gas. lps v. v. tan. to v. fin. gr. w/Tns to med. gas. ang. Tns. sub-rept. (P. 1.5-2.5) sil. calc. or dolomite, v. to y. glauc.

7.0K. chlorite; sil. Tns finely disseminated. A Pyrite, a bn. w/silky to dul. yel. fluor. w/Tns. to med. gas. to med. gas. No vis. por. Tns to hor. to large Qtz gas. w. f. ang. redd. to med. gr.

B. 5417-5428 Sh. med. to dark gray. Tns. pyr. + sil. Tns Sh. dark red to br. C. 5428-5444 Qtz. gas clear, with hurtles. H. vel. tan to coarse ang.

5100

H 5 3 2 1

SHOW 504

6

6

6

6

6

6

Lms. a bn. wht. to cream chlk w/ chlk. oolites
 1/8" - 1/4" cm to 1/2" crypto to 1/2" in. x 1/2"
 v. to ext. lly. oolitic (med to lg. N. T. as. Som.)
 matrix chlk. sub-chlk. sub-sucro-
 tes. patches of sub. yel. to tes. yel. fluor
 No. 10. No. 10. No. 10. No. 10. No. 10. No. 10.
 oolites; w/tes chert gray to tan, oolite

5728 - 5768
 Interbedded Limestones w/tes chert
 (1) Slower Dr. lgs Lms. similar 5627-5708
 (2) Faster Dr. lgs Lms. similar 5708-5728

5768 - 5798
 Interbedded Limestones w/tes chert
 (1) Slower Dr. lgs Lms. similar 5627-5708
 (2) Faster Dr. lgs Lms. similar 5708-5728
 (3) Slower Dr. lgs Lms. H. gray to tan, crypto
 to 1/2" v. wh. in. tes. sub-sucro.
 patches of sub. yel. to tes. yel. fluor
 dolomitic sub. yel. to tes. yel. fluor
 No. 10. No. 10. No. 10. No. 10. No. 10. No. 10.

5798 - 5848
 Interbedded Limestones w/tes chert
 similar 5768-5798 w/tes
 becoming fr. ly dolomitic and
 sl. to a wht. gummy anhydrite

TD 5848

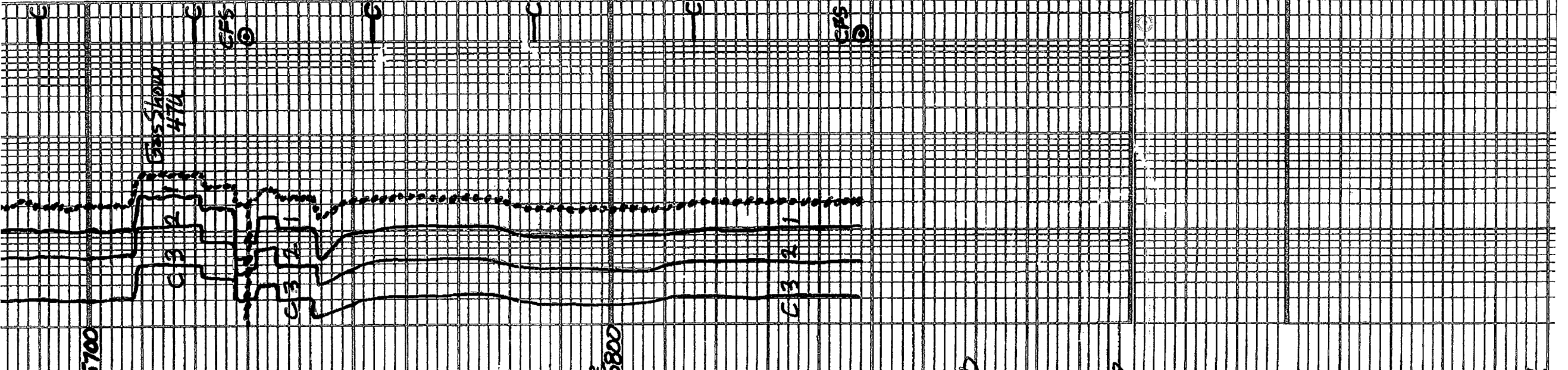
7/8 inch Bit Info: in out
 #1 New Smith TC FH: 23 1710 3932
 #2 New Smith TC F27I 3932 4967
 #3 New Rock bit 6725YG 4967 5848 TD
 Core Points

1. 3932
 2. 4248
 3. 4976
 4. 5080
 5. 5410
 6. 5420
 7. 5430
 8. 5446
 9. 5460
 10. 5484
 11. 5730
 12. 5848 TD
- Dev: SUGU. 4. 3932 3/4" 7. 5420 1/4"
 1. 511 3/4" 2. 4976 1/2" 3. 5460 1/4"
 3. 110 3/4" 5. 5252 2" 9. 5848 3/4" TD

Daily Prog. Progress:

- 1 3662 AT 7:00 AM 3 -16-15
- 2 3500 AT 12:10 PM 3 -16-15
- 3 3914 AT 7:00 AM 3 -17-15
- 4 4068 AT 7:00 AM 3 -18-15
- 5 4395 AT 7:00 AM 3 -19-15
- 6 4701 AT 7:00 AM 3 -20-15
- 7 4976 AT 7:00 AM 3 -21-15
- 8 5189 AT 7:00 AM 3 -22-15
- 9 5410 AT 7:00 AM 3 -23-15
- 10 5420 AT 7:00 AM 3 -24-15
- 11 5446 AT 7:00 AM 3 -25-15
- 12 5460 AT 7:00 AM 3 -26-15
- 13 5632 AT 7:00 AM 3 -27-15
- 14 5848 AT 7:00 AM 3 -28-15
- 15 5848 AT 7:00 AM 3 -29-15

DST #1 MORROW K. S. L. 5947 - 5420
 20 weak surf. Blow Built to 9 inches
 FID weak surf. Blow Built to 5 inches
 Rec 90 ft. Gassy Mud, 12,925 99% Mud



14 5848 3-28-15
 15 5848 3-29-15

DST#1 Morrow K1 SA 5847-5420
 Ia. Weak surf. Blow Built to 9 inches
 Fd. Weak surf. Blow Built to 5 inches
 Rec 90 ft. Gassy Mud 1% gas 99% Mud
 Tool Sample 429es 96% mud
 Max Temp 124°F
 IHP 2571#
 IFF 32704 in 30 min
 IPIP 457# in 60 min
 FFP 52-62# in 60 min
 FSP 445# in 120 min
 FMP 2590#

DST#2 Morrow K2 5434-5446

Ia. Sl. surf. Blow BOB 14 min
 Fd. Sl. surf. Blow BOB 4 min
 A.C. 1250 ft. 92% in pipe
 2. Clean oil. 100% oil
 12.3% water in 100% oil
 Total Fluid 125 fsc

Grav. of oil 43.8. Max Temp 126°F
 Tool Sample 28gas 88% oil 10% mud

IHP 2592# in 30 min.
 IFF 16-35# in 60 min.
 IPIP 687# in 60 min.
 FFP 37-62# in 60 min.
 FSP 707# in 120 min.
 FMP 2542#

DST#3 Morrow Lower K2

5449 to 5460

Ia. Sl. surf. Blow BOB 54 sec.
 Fd. Weak surf. Blow in 2 1/2 min
 in 23 min then @ 35 min in 60 sec.

Rec 1730 ft Gas In Pipe Max Temp 137°F
 Rec Total Fluid 1345 feet gassy water

2% gas 97% wtk. 1% Mud

chl 3500ppm pH 7.0 Rw .22 @ 60°F

Rec 10+ ft loose Qtz gas

took 1500 psi to blow collars

clean Pull 190000# + Jar Several

times to get loose

top Sample 100% gassy wtk

IHP 2580# FFP 678-692 in 60 min.

IFF 274-513# in 30 min. FSP 703# in 120 min.

IPIP 680# in 60 min. FMP 2555#

Mud Info:

Date	3-15	3-16	3-17	3-18	3-19	3-20	3-21	3-22
Depth	1515	1520	1510	1495	1475	1455	1435	1415
Wt.	9.2	9.2	9.1	9.2	9.15	9.15	9.3	9.8
Vis	29	32	46	47	48	53	67	58
PV	-	-	14	15	15	18	20	17
YP	-	-	15	16	16	18	22	21
GS	-	-	17/32	19/32	17/32	17/45	17/45	18/45
WL	N/C	N/C	7.2	6.8	6.8	7.5	8.0	8.0
Cake	-	-	1/32	1/32	1/32	1/32	1/32	1/32
pH	7.0	7.0	10.5	9.0	10.5	9.5	9.5	9.5
Chl	600	400	700	400	200	700	700	400
Ca	hvy	hvy	20	20	20	20	120	60
LCM	1.0	2.0	4.0	5.5	5.0	6.0	8.0	8.0

Date	3-23	3-24	3-25	3-26	3-27	3-28
Depth	1515	1515	1515	1515	1515	1515
Wt.	9.35	10.4	9.4	9.3	9.3	9.3

Depth	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
WT	9.2	9.2	9.1	9.1	9.2	9.2	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Vis	29	32	46	47	48	53	67	58										
PV	-	-	14	15	15	18	20	17										
YP	-	-	15	16	16	18	22	21										
GS	-	-	17/35	19/32	19/32	17/45	19/45	18/45										
NL	N/C	N/C	7.2	6.8	6.8	7.5	8.0	8.0										
cake	-	-	1/32	1/32	1/32	1/32	1/32	1/32										
pH	7.0	7.0	10.5	9.0	10.5	9.5	9.5	9.5										
chl	600	400	700	400	200	200	700	700										
ca	hvy	hvy	20	20	20	20	120	60										
LCM	1.0	2.0	4.0	5.5	5.0	6.0	8.0	8.0										

Date	3-23	3-24	3-25	3-26	3-27	3-28
Depth	5120	5120	5146	5160	5590	5818
WT	9.35	9.4	9.4	9.3	9.2	9.2
Vis	68	57	60	65	62	67
PV	21	17	18	18	18	19
YP	24	21	22	22	22	22
GS	17/49	14/49	15/45	16/47	16/46	17/49
NL	7.6	8.0	8.0	7.2	7.2	8.0
cake	1/32	1/32	1/32	1/32	1/32	1/32
pH	9.5	9.5	9.5	10.2	10.0	10.0
chl	700	700	700	1100	900	700
ca	40	40	40	20	40	40
LCM	9.0	9.0	9.0	8.8	9.0	8.0

OPERATOR Berexco LLC LOCATION 2296' FSL + 1090' FWL
 LEASE TROY NO. 1-7 SEC 7 TWP. 29 S ANG. 40 W
 ELEVATION 3328 KB RTD 5848 COUNTY Stanton STATE Kansas