



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1235353
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: _____

1235353

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> _____					
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	Dennis Unit 4-3
Doc ID	1235353

All Electric Logs Run

Compensated Neutron Sonic Porosity Overlay
Compact Density Compensated Neutron Microresistivity Log
Array Induction Shallow Focused Electric Log
Compensated Sonic with Integrated Transit Time
Microresistivity Log

Form	ACO1 - Well Completion
Operator	BEREXCO LLC
Well Name	Dennis Unit 4-3
Doc ID	1235353

Tops

Name	Top	Datum
Heebner (base)	4116	-1149
Toronto	4126	-1159
Lansing	4208	-1241
KS City	4626	-1659
KS City (base)	4764	-1797
Marmaton	4778	-1811
Pawnee	4891	-1924
Ft. Scott	4928	-1961
Cherokee	4944	-1977
Morrow	5273	-2306
Chester	5431	-2464
St. Genevieve	5496	-2529
St. Louis	Not Penetrated	
RTD	5600	
LTD	5600	

ALLIED OIL & GAS SERVICES, LLC 064140

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Oakley KS

DATE <u>8-26-14</u>	SEC. <u>3</u>	TWP. <u>29</u>	RANGE <u>3.3</u>	CALLED OUT	ON LOCATION <u>7:00 a.m.</u>	JOB START <u>11:00 a.m.</u>	JOB FINISH <u>17:00 p.m.</u>
LEASE <u>Dennis Unit</u>	WELL# <u>4-3</u>	LOCATION <u>Garden City S to Hwy 160</u>			COUNTY <u>Haskell</u>	STATE <u>KS</u>	
OLD OR <u>(NEW)</u> (Circle one)				<u>2 W 5 + Winto</u>			

CONTRACTOR Beredco I
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 TD. 1750'
 CASING SIZE 8 5/8 DEPTH 1750'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 42.24'
 CEMENT LEFT IN CSG. 42.24'
 PERFS.
 DISPLACEMENT 108,78 bbl water

OWNER Same
 CEMENT
 AMOUNT ORDERED 600 sks Class A lite
65/35 w/ gel 3' cc 1/4 # Flo-seal,
150 sks Com 3' cc
 COMMON 150 sks @ 17.90 2685.00
 POZMIX @
 GEL @
 CHLORIDE 1989 # @ 1.10 2187.90
 ASC @
 Lite 600 sks @ 19.88 11,928.00
 @
 Flo-seal 150 # @ 2.97 445.50
 @
Material total @ 77,216.40
(6026.24/135 @)
 @
 @
 HANDLING 851.59 # @ 2.48 2111.93
 MILEAGE 1431.32 Ton/mi @ 2.75 3936.41
 TOTAL _____

EQUIPMENT
 PUMP TRUCK CEMENTER Paul Beaver
 # 423/281 HELPER Brandon Wilkinson
 BULK TRUCK DRIVER George Grant
 # 566/595
 BULK TRUCK DRIVER Wayne Messalle
 # 891/310

REMARKS:

Break Circ, Drop bell, pump through
Float valve, Pump water spacer, mix
600 sks Lite, Tail w/ 150 sks Com,
Release plug Displace w/ water, plug
did land, Float did hold,
cement did circulate

Thank you!
Paul + crew

CHARGE TO: Beredco LLC
 STREET _____
 CITY _____ STATE _____ ZIP _____

BID

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 Davis Jr
 SIGNATURE [Signature]

SERVICE

DEPTH OF JOB 1750'
 PUMP TRUCK CHARGE 2213.75
 EXTRA FOOTAGE @
 MILEAGE m/TV 50 @ 7.70 385.00
 MANIFOLD Head @ 275.00 N/C
m/TV 50 @ 4.40 N/C
 @
(3026.48/35%)
 TOTAL 8,647.19

PLUG & FLOAT EQUIPMENT

Industrial Rubber (8 5/8)
 Guide shoe @ 460.00
 NEW Float valve @ 447.00
 Centralizers 3 @ 75.00 225.00
 For Rubber plug @ 131.00
 @
(878.90/30%)
 TOTAL 1,263.00

SALES TAX (if Any) _____
 TOTAL CHARGES 27,156.49
 DISCOUNT 9,441.62 (35%/30%) IF PAID IN 30 DAYS
 Bid 17,714.87 Net

Date 8-26-14 District Oakley KS Ticket No. 064140
 Company Beredas LLC Rig Beredas 1
 Lease Dennis Unit Well No. 4-3
 County Haskell State KS
 Location 3-29-33 Field _____

CEMENT DATA:

Spacer Type: 5 bbl water
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG _____

LEAD: Pump Time _____ hrs. Type 65/35/6
3% CC 1/4" Flo-seal Excess _____
 Amt. 600 Sks Yield 1.97 ft³/sk Density 12.50 PPG _____

TAIL: Pump Time _____ hrs. Type Com 3% CC
 Excess _____
 Amt. 150 Sks Yield 1.33 ft³/sk Density 14.90 PPG _____

WATER: Lead 10.9 gals/sk Tail 6.2 gals/sk Total 177.85 Bbls.

Pump Trucks Used 423/281 - Brandon W
 Bulk Equip. 516/595 - George G
891/310 - Wayne M.

Float Equip: Manufacturer Industrial Rubber
 Shoe: Type Guide shoe Depth 1750'
 Float: Type AFU Float Valve Depth 1707.76

Centralizers: Quantity 3 Plugs Top _____ Btm. _____

Stage Collars _____

Special Equip. _____

Disp. Fluid Type water Amt. 108.78 Bbls. Weight _____ PPG _____

Mud Type 60 vis Weight _____ PPG _____

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 5/8 Type New Weight 24# Collar _____

Casing Depths: Top KB Bottom 1750'

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 1750 ft. P.B. to _____ ft.

CAPACITY FACTORS:

Casing: Bbls/Lin. ft. .0637 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 Gilbert

CEMENTER Paul Beaver

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						Hold Safety meeting
						Run Pipe / Float equip
						Break circ / Drop ball
						Ball went through Float valve @ 400'
11:00 am	100		5.0	5.0	6	pump water spacer
	100		155.71	160.71	6	start cement
	200		22.14	182.85	6	Mix 600 sks Lite
						weigh cement 3 times @ 12.5#
						Mix 150 sks Com
						weigh cement @ 15#
						stop cement
						release plug
	0		5.0	187.85	2	wash-up pump & lines
	200		20.0	207.85	4	Displacement water
	300		20.0	227.85	4	
	200		20.0	247.85	4	
	200		10.0	257.85	4	
	300		10.0	267.85	4	
	400		10.0	277.85	4	
	500		10.0	287.85	4	
12:00 pm	600		3.78	291.63	4	plug did land
						Float did hold
						Cement did circulate

FINAL DISP. PRESS: 600 PSI BUMP PLUG TO 800 PSI BLEEDBACK 1 BBLs.

Thank you!
 Paul & Crew
 THANK YOU



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

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

3-29s-33w-Haskell, CO KS

Dennis Uhit #4-3

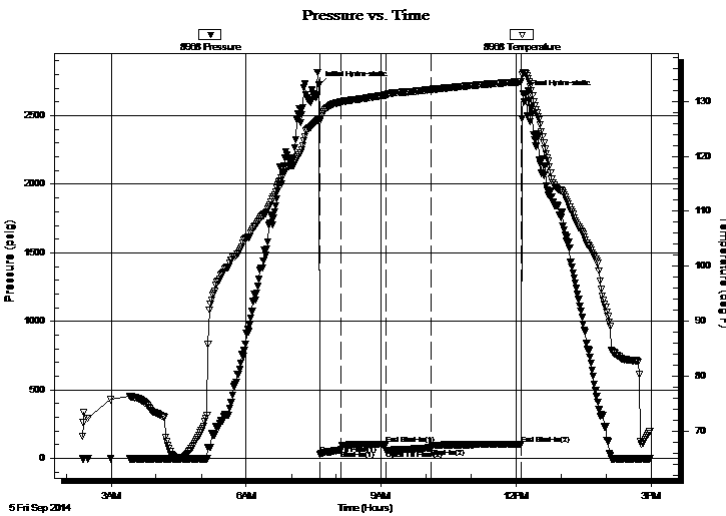
Job Ticket: 56565 **DST#: 1**
Test Start: 2014.09.05 @ 02:22:00

GENERAL INFORMATION:

Formation: **Morrow**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:37:45
Time Test Ended: 14:57:15
Interval: **5388.00 ft (KB) To 5432.00 ft (KB) (TVD)**
Total Depth: 5432.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition:
Test Type: Conventional Bottom Hole (Initial)
Tester: Cornelio Landa III
Unit No: 67
Reference Elevations: 2968.00 ft (KB)
2955.00 ft (CF)
KB to GR/CF: 13.00 ft

Serial #: 8968 Outside
Press@RunDepth: 77.83 psig @ 5391.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.09.05 End Date: 2014.09.05 Last Calib.: 2014.09.05
Start Time: 02:22:05 End Time: 14:57:15 Time On Btm: 2014.09.05 @ 07:36:15
Time Off Btm: 2014.09.05 @ 12:09:00

TEST COMMENT: IF: B.o.b. in 45 seconds-G.T.S. in 14 min.-Gauged gas-SEE GAS RATES
IS: Bled off in 6 min.-No return
FF: B.o.b. in 30 seconds & G.T.S.-Gauged gas-SEE GAS RATES
FS: Bled off in 7 min.-Weak surface blow back-Died 1 1/2 hrs. into shut-in



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2722.29	126.66	Initial Hydro-static
2	31.92	126.34	Open To Flow (1)
31	63.10	129.92	Shut-In(1)
90	103.16	131.15	End Shut-In(1)
91	57.04	131.12	Open To Flow (2)
151	77.83	132.17	Shut-In(2)
271	101.57	133.59	End Shut-In(2)
273	2657.70	135.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
94.00	Gm 5g 95m	0.46
0.00	G.T.S.	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	6.00	32.36
Last Gas Rate	0.25	16.00	48.23
Max. Gas Rate	0.25	16.00	48.23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Berexco LLC

3-29s-33w-Haskell, CO KS

2020 N. Bramblewood
Wichita, KS 67206

Dennis Uhit #4-3

Job Ticket: 56565

DST#: 1

ATTN: Ed Grieves

Test Start: 2014.09.05 @ 02:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
94.00	Gm 5g 95m	0.462
0.00	G.T.S.	0.000

Total Length: 94.00 ft Total Volume: 0.462 bbl

Num Fluid Samples: 0

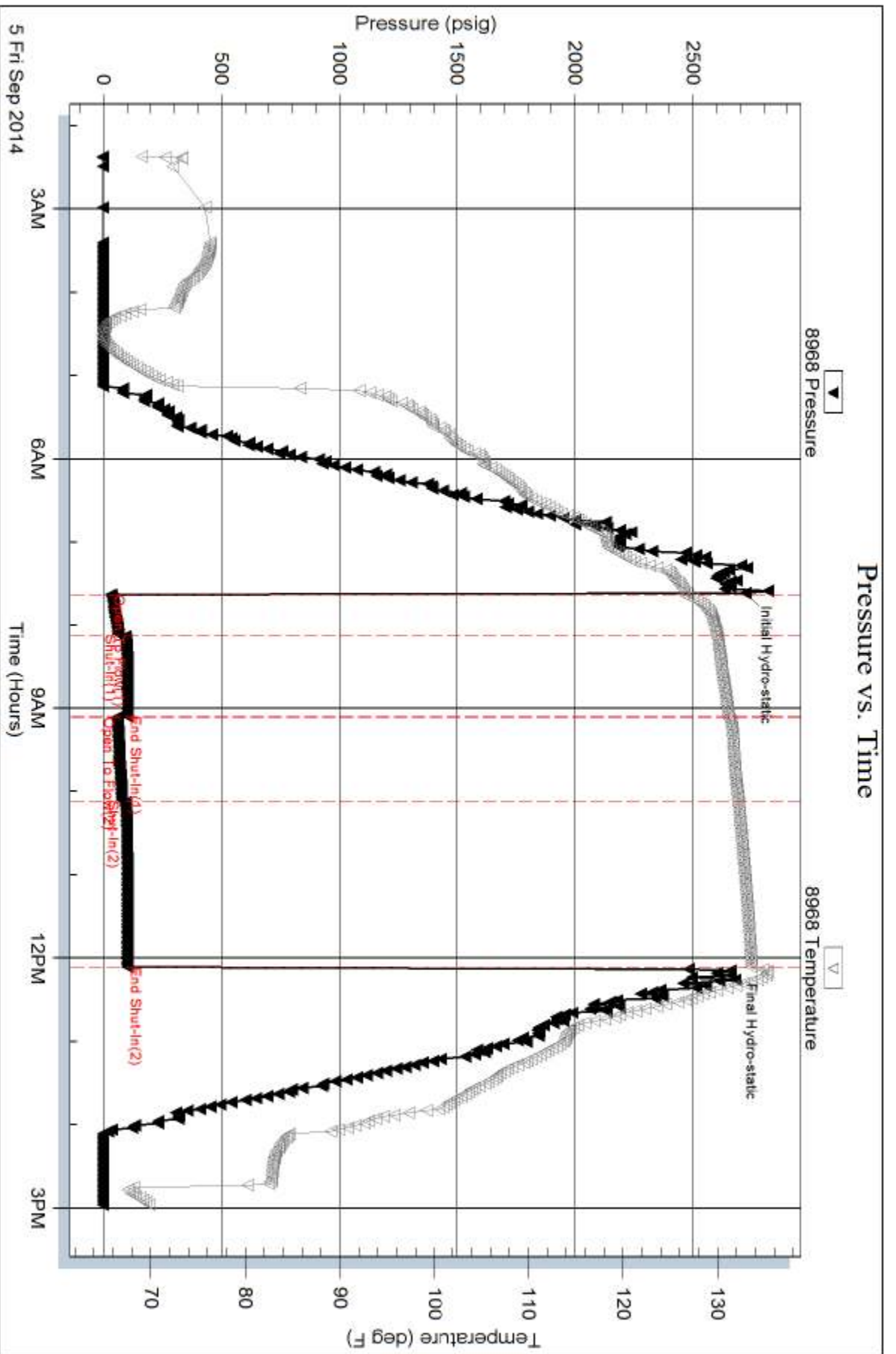
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



ALLIED OIL & GAS SERVICES, LLC 064094

Federal Tax I.D. # 20-8651475

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

SERVICE POINT: Dakley KS

DATE <u>9-8-14</u>	SEC. <u>3</u>	TWP. <u>27</u>	RANGE <u>33</u>	CALLED OUT	ON LOCATION <u>9:30 am</u>	JOB START <u>8:30 pm</u>	JOB FINISH <u>1:00 am</u>
LEASE <u>Unit</u>	WELL # <u>4-3</u>	LOCATION <u>Sublette to Kottky 2 W</u>			COUNTY <u>Haskell</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>54-Unit</u>					

CONTRACTOR Basedon 1
 TYPE OF JOB Production 2 stage
 HOLE SIZE 2 7/8 T.D. 5600'
 CASING SIZE 5 1/2 DEPTH 5593'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DD Tool DEPTH 3191'
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 440'
 CEMENT LEFT IN CSG. 440'
 PERFS.
 DISPLACEMENT 132,076 bbl

OWNER same
 CEMENT
 AMOUNT ORDERED 2355 kg ASC 16% - 1129 gal
6% gils-sulf, 5% FL-160, 15% Detonator
525 5 kg 65/35 6% gel 1/4" #10 seal

EQUIPMENT
 PUMP TRUCK CEMENTER Lakona 6' wide
 # 431 HELPER Wayne McElghy
 BULK TRUCK
 # 566/595 DRIVER Esteban Alcalá (TWS)
 BULK TRUCK
 # 890/241 DRIVER Chris Medrano (TWS)

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC		<u>2355 kg @ 23.56</u>	<u>5522.68</u>
ALL Type 1 Class 52552	@	<u>19.86</u>	<u>10432.00</u>
Plu seal		<u>119 # @ 2.97</u>	<u>353.43</u>
Kel seal		<u>1410 # @ .98</u>	<u>1381.80</u>
FL-160		<u>111 # @ 18.76</u>	<u>2072.96</u>
Detonator		<u>60 # @ 3.50</u>	<u>210.00</u>
Material total			<u>19997.63</u>
		<u>(16799.19 / 38%)</u>	
HANDLING		<u>892.52 @ 2.48</u>	<u>2213.46</u>
MILEAGE		<u>1831.76 @ 2.75</u>	<u>5174.83</u>
TOTAL			

REMARKS:

Pump ball through, Circ 30 min, Mix
175 5 kg 65/35, Mix 185 5 kg ASC. Displac
with water & mud. Expand plug 24000', hold
Open DD Tool, Circ 4 hrs. Plug R 130 5 kg
Plug M. R. 20 5 kg, Mix 300 5 kg 65/35, Mix
50 5 kg ASC. Displac with water & mud
Plug 1800', Cement did not circulate
Frank

SERVICE

DEPTH OF JOB	<u>5593</u>
PUMP TRUCK CHARGE	<u>2899.25</u>
EXTRA FOOTAGE	<u>2406.85</u>
MILEAGE	<u>50 @ 270 = 13500</u>
MANIFOLD	<u>275.00 NC</u>
	<u>4140 NC</u>

CHARGE TO: Berexco
 STREET _____
 CITY _____ STATE _____ ZIP _____

(4514.78 / 34%) TOTAL 13,276.71

PLUG & FLOAT EQUIPMENT

<u>5/8" shotel down plug</u>		<u>660.00</u>
<u>DD Tool</u>	@	<u>5335.00</u>
<u>AFU Float slide</u>	@	<u>640.00</u>
<u>Centrizers</u>	<u>16 @ 59.00</u>	<u>944.00</u>
<u>Baskets</u>	<u>4 @ 395.00</u>	<u>1580.00</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.

BID (319445/58) TOTAL 9,127.00

PRINTED NAME Gilbert Davila
 SIGNATURE [Signature]

SALES TAX (if Any) _____
 TOTAL CHARGES 42,403.42
 DISCOUNT 14,507.42 (34/35%) IF PAID IN 30 DAYS
27,895.00 Net.

Date 9-8-14 District Daklapp Ticket No. 69094
 Company Berexco Rig Benedso 1
 Lease Dennis Unit Well No. 4-3
 County Haskell State KS
 Location 3-29-33 Field Jaclette N to Hwy 160, 200, 540 east
 CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 5 1/2 Type New Weight 15.5 Collar

Casing Depths: Top K-0 Bottom 5599'

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 7 7/8 T.D. 5600 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0238 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 _____

CEMENT DATA:
 Spacer Type: 65/35 6 2/3 gel 1/4 # flo-seal
 Amt. 175 Skys Yield 1.61 ft³/sk Density 13.5 PPG

LEAD: Pump Time Bottom stage hrs. Type ASC 109 seal 2 1/2
6 1/2 gals/sk 520 PL 160 .15% Deforma
 Amt. 180 Skys Yield 1.56 ft³/sk Density 14.66 PPG
 TAIL: Pump Time Top stage hrs. Type 65/35 6 2/3 gel
Yeff flo-seal / ASC Excess _____
 Amt. 350 Skys Yield 1.61 ft³/sk Density 13.5 PPG
50 sks 1.56 gals/sk Tail _____ gals/sk Total 14.66 Bbls.

Pump Trucks Used 431-Wayne
 Bulk Equip. 566/595-Esteban
894 291-Chris

Float Equip: Manufacturer Weatherford / Industrial Rubber
 Shoe Type AFU Depth _____
 Plug Type Latchdown plug Depth _____
 Centralizers: Quantity 16 Plugs Top _____ Btm. _____
 Collars DOT 201
 Special Equip. Baskets (4) Bottom 170'
 Disp. Fluid Type Water/mud Amt. 132.87 Bbls. Weight 75.95 PPG
 Mud Type 60/72.07 Weight _____ PPG

CEMENTER Lakona

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
8:15				5.0		Hold Safety Meeting
						Pump ball through w/ rig pump
						Start water spacer
						Start cement 175 sks 65/35
						weigh cement 75.95 # 13.5 #
						Start cement 180 sks ASC
						weigh cement 14.66 #
						Stop cement
				30.0		Washup pump & lines / Release plug
				30.0		Start water Displacement
				20.0		Stop water
				20.0		Start mud Displacement
				20.0))))))
				12.07		Stop mud, land plug - hold.
						Plug in 20 sks
						plug R if - 30 sks
						Start cement 350 sks 65/35
						Start cement 50 sks ASC
						Stop cement
				20.0		Washup pump & lines
				20.0		Start water Displacement
				20.0))))))
10:00				13.97		Stop water, land plug / hold.
						Cement did - 6.8 barrels

WPC GEOLOGIST'S REPORT

DRILLING TIME & SAMPLE LOG

COMPANY Berexco LLC
 LEASE Dennis Unit NO. 4-3
 LOCATION 541' FNL + 233' FEL
 SEC. 3 TWP. 29S RNG. 33W
 COUNTY Haskell, STATE Kansas
 FIELD US 83 Northwest

CONTRACTOR Beredco Dalg Rig #1
 COMM. 8-22-2014 COMP. 9-7-2014
 RTD 5600 LTD 5600
 No. of DST'S One No. of CORES None

SAMPLES SAVED FROM 3900 TO TD
 DRILLING TIME KEPT FROM 3900 TO TD
 SAMPLES EXAMINED FROM 3900 TO TD
 GEOLOGICAL SUPERVISION FROM 3900 TO TD
 GEOLOGIST ON WELL Edwin H. Grieves

FORMATION TOPS

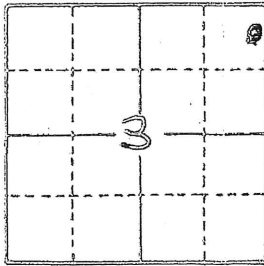
FORMATION	SAMPLE	LOG	SUBSEA
Base Heebner	4114	4116	-1149
Toronto	4126	4126	-1159
Lansing Fm.	4201	4208	-1241
Kansas City Fm	4626	4626	-1659
BKC	4765	4764	-1797
Marmaton	4785	4778	-1811
Pawnee	4895	4891	-1924
Ft Scott	4930	4928	-1961
Cherokee	4946	4944	-1977
Morrow	5271	5273	-2306
Chester	5436	5431	-2464
St Genevieve	5486	5496	-2529
St Louis	5567	No Pen.	=====
TD	5600	5600	=====

ELEVATIONS
 KB 2967
 DF 2965
 GL 2955

MEASUREMENTS ARE ALL FROM KB

CASING RECORD
8 5/8" of 1750 w/ sx.
 of w/ sx.
 of w/ sx.
 of w/ sx.

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



API# 15-081-22074

REMARKS Earth-Tech had an unmanned gas detection trailer on this well from 3900 feet to total depth.

Edwin H. Grieves
 Geologist
 WPC
 10101
 10101
 10101

CHROMATOGRAPH

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

SANDSTONE
 LIMESTONE
 SHALE
 CHERT

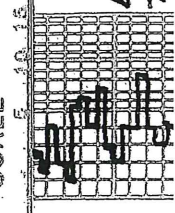
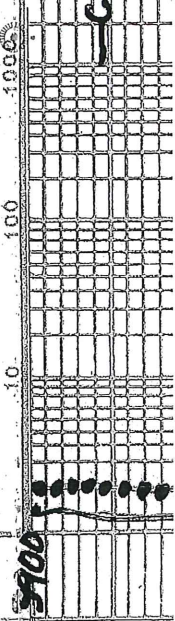
GRANITE WASH
 SANDSTONE
 LIMESTONE
 SHALE
 CHERT

HOT WIRE BY TOTAL GAS VOLUME

SAMPLE DESCRIPTION

DRILL TIME SCALE

GAS SCALE



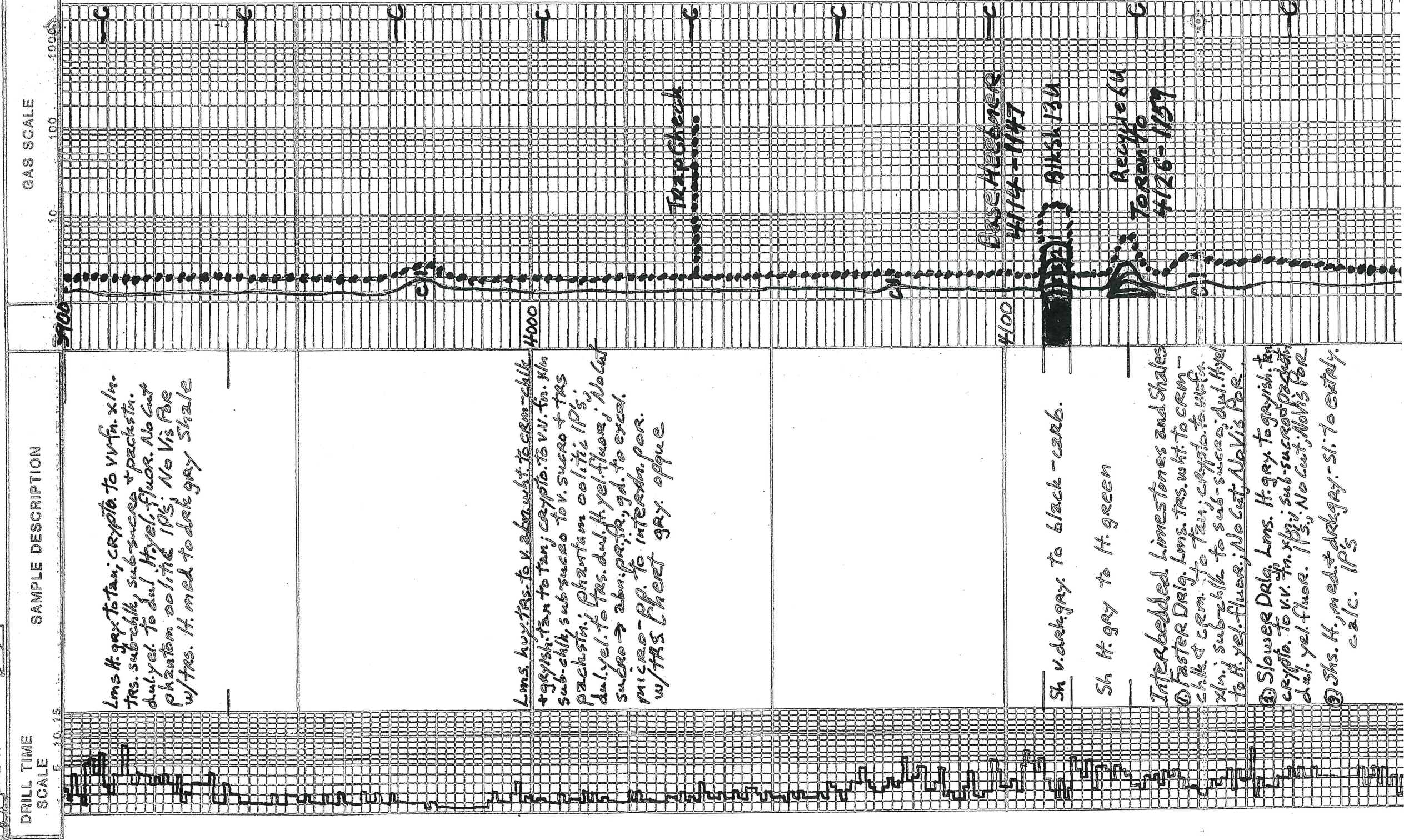
Lms H. gray to tan, cryptic to v. fm. x. in. trs. sub-chalk, sub-sand, & packstr.

LIMESTONE
SHALE
CHERT

DILOMITE
GRANITE WASH
ANAT B GP

MI WITE BI
TOTAL GAS VOLUME

CS = BUTANE
C6 = ISOPENTANE
C7 = PENTANE



SAMPLE DESCRIPTION

Lms. H. gray to tan, crypto to v.v. fn. xln. trs. sub-chlk, sub-sucro + packsth. dul. yel. to dul. H. yel. fluor. No cut phantom oolitic IPS; No Vis POR w/trs. H. med to dark gray shale

Lms. hvy. trs. to v. abn. wht. to CRM-chlk + grayish. tan to tan; crypto. to v.v. fn. xln. sub-chlk, sub-sucro to v. sucro + trs. packsth.; phantom oolitic IPS; dul. yel. to trs. dul. H. yel. fluor; No cut sucro → abn. pr. fr., gd. to excel. micro-PP. to interm. por. w/trs. chert gray. opaque

Sh v. dark gray to black-carb.

Sh H. gray to H. green

Interbedded Limestones and Shales

- ① Faster Drig. Lms. trs. wht. to CRM-chlk + CRM. to tan; crypto. to v.v. fn. xln.; sub-chlk to sub-sucro; dul. H. yel. to H. yel. fluor.; No cut; No Vis POR.
- ② Slower Drig. Lms. H. gray to grayish. tan crypto. to v.v. fn. xln.; sub-sucro packsth. dul. yel. fluor. IPS; No cut; No Vis POR.
- ③ Shs. H., med. + dark gray. - sl. to extaly. c.a/c. IPS

Trapcheck

BASE HERBERNER
4114-1117

4100

Acrylate 64
Torson 4126-1157

Xln. sub-chlk. to sub-sucro; dul. H. yel to H. yel. fluor.; No Cut; No Vis. For.

② Slower Drlg. Lms. H. gray to grayish. tan crypto. to v.v. tan. xln. sub-sucro & packstr. dul. yel. fluor. IP's; No Cut; No Vis. For.

③ Shs. H. med. & dark gray. sl. to ext. yel. calc. IP's

Lms. trs. whit. to carn. chlk. tan; crypto to v.v. tan. sub-chlk. sub-sucro to sucro. dul. yel. fluor.; No Cut; wxtes poor micro-pp. for IP's

Lms. H. gray; grayish. tan to tan; crypto to v.v. tan. xln.; sub-chlk. sub-sucro & packstr.; trs. phantom oolitic; dul. yel. to yel. fluor.; No Cut; No Vis. For.

Lms. hxt. trs. to abn. wht. to carn. chlk. & grayish. tan to tan; crypto. to v.v. tan; sub-chlk. sub-sucro to sl. trs. sucro & packstr. abn. sl. to voolitic & trs. sl. to fair oolitic. dul. H. to H. yel. fluor.; No Cut; hxt. trs. PR. to fair. & sl. trs. gd. oolitic for. and abn. pp. to fr. micro pp. for.

Lms. H. gray to tan; crypto. to v.v. tan; sub-chlk. sub-sucro & packstr.; sl. trs. sub-lithog. R.; dul. H. yel. fluor. IP's; No Cut; No Vis. For.

Lms. H. gray; tan to dark tan; crypto. to v.v. tan; trs. sub-chlk. sub-sucro; packstr. & trs. sub-lithog. R.; dul. yel. fluor. IP's; No Cut; No Vis. For.

Lms. tan, grayish. IP's; crypto. to v.v. tan; matrix oolitic for sl. oolitic IP's sub-sucro, sucro & packstr.; dul. H. yel. fluor.; No Cut; abn. pp. gd. to ext. oolitic for.; v. Quest. PERAL

Lms. similar 4366-4386 with much less oolitic & much more oolitic

Lms. H. gray; grayish. tan to tan; crypto. to v.v. tan; sub-sucro; packstr. & sub-lithog. R.; dul. H. to H. yel. fluor.; No Cut; No Vis. For.

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

4443-4458 Lms. similar 4416-4438

Lansing Fm
4201-4234
MD 8 3000-3800
RPM 65-70
SPM 52
PPM 1100

4200

4300

4400

Blk-sk 534

much less oolitic & much more oolitic

Lms. H. gray, grayish tan to tan; crypto. to v. sh. xln. sub-sucro. packets & sub-litho. R.; dul. H. to H. yel. fluor.; No Cut; No Vis. Por.

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

4443-4458 Lms. similar 4416-4438

4458-4463 Lms. 2bn. wht. to cream. chlk. to grayish tan to tan; crypto. to v. v. fa. xln; IP's. v. to extly. oolitic for sil. to 4 oolitic; matrix sub-sucro. & packets and IP's. sub-gr. sh. sub-sucro. to sucro. dul. H. to H. yel. fluor.; No Cut; 2bn. R. P. to excel. oolitic for. Quest. Perm. v. abn. w/ps. to be micro. pp. & pass.

4463-4478 Lms. similar 4416-4438

4478-4480 Sh. v. dk. gray to blk. carb. Lms. similar 4416-4438 Lms. has wht. to cream. chlk. & tan; grayish IP's. crypto. to v. v. fa. xln; v. to extly. oolitic for sil. to v. oolitic. matrix sub-sucro. & packets dul. H. yel. fluor. IP's; No Cut; abn. p. to excel. oolitic for. Quest. Perm.

Lms. grayish tan. to tan; crypto. to v. sh. xln; has sub-chlk. sub-sucro. & packets; dul. H. yel. fluor. IP's; No Cut; No Vis. Por.

Lms. v. 2bn. wht. to cream. chlk. & tan; crypto. to v. v. fa. xln; IP's. sil. to v. oolitic for sil. to v. oolitic; matrix sub-sucro. & packets; dul. H. yel. fluor. IP's; No Cut; 2bn. R. P. to excel. oolitic for. IP's; No Cut; Perm.

Lms. H. gray, grayish tan to tan; crypto. to v. sh. xln; sub-chlk. sub-sucro. & packets; dul. yel. fluor.; No Cut; No Vis. Por.

Lms. similar 4533-4544 w/less chlk.

Lms. H. gray to tanish. gray; crypto. to v. v. fa. xln; sub-chlk. sub-sucro. & packets; dul. yel. fluor. IP's. No Cut; No Vis. Por.

Sh. v. dk. gray to black - carb. Lms. H. to med. gray. Sh. xln; crypto. to v. sh. packets; v. dul. yel. fluor. IP's; No Cut; No Vis. Por. Lms. extra. abn. with cream. chlk. & tan to tan; crypto. to v. v. fa. xln; v. to extly. oolitic for sil. to v. oolitic; matrix sub-sucro. to tan. sucro. & packets; dul. yel. fluor.; No Cut; abn. R. P. to excel. oolitic for. Quest. Perm.

Lms. has wht. to cream. chlk. & H. tan to tan; grayish IP's; crypto. to v. v. fa. xln; sub-chlk. sub-sucro. & packets; dul. yel. fluor.; No Cut; No Vis. Por.

Sh. v. dk. gray to black - carb. Lms. med. to dk. gray. v. to extly. Sh. sub-chlk. for sil. to v. oolitic; matrix sub-sucro. & packets; dul. yel. fluor. IP's; No Cut; No Vis. Por. 4658-4704 Lms. 2bn. wht. to cream. chlk. has wht. to tan. grayish tan to tan; crypto. to v. v. fa. xln; sub-chlk. sub-sucro. & packets; dul. yel. fluor. IP's; No Cut; No Vis. Por.

Perm. v. to extly. oolitic for. Quest. Perm. 4704-4750 Lms. similar 4416-4438 Lms. has wht. to cream. chlk. & H. tan to tan; grayish IP's; crypto. to v. v. fa. xln; sub-chlk. sub-sucro. & packets; dul. yel. fluor. IP's; No Cut; No Vis. Por.

621

621

621

621

621

4818-SK-534

Recycle

Recy
4818-SK-244

Recycle
4818-SK-164

Trap Check

WPS 9100-38000
RPM 65-70
SPM 52
HP 1100

4818-SK-690
Kansas City MO
4626-1659
Recy

4818-SK-1034
Kansas City MO
4681-1714
Recy

4700

625

sub-sacros. + packets in dul. yellow
No Cut; No Vis For

Sh. v. drk. gry. to black-carb.
Lms. med. to drk. gry. v. to extly. Shy
grdng to extly. calc. Shs. crypto. xln.
Sub- chlk. for Shly and packets;
No Fluor. No Cut; No Vis For

4698-4704 Lms. abn. whit. to crm. chlk.
Tres. w/ chlk. oolitic. grayish. tan. tan.
crypto. for. v. drk. gray. sl. to calc. calcite.

4708-24 Lms. lt. gry. to tanish. gry. crypto. xln.
Sub- chlk. packets. sub- litho. xln. for
Sh. v. drk. gry. to black-carb

Lms. grading to Sh. similar to 4681-4698
Lms. huy. tres. wht. to crm. - chlk. + grayish. tan
tanish. crypto. to v. v. tan. xln. extly.
oolitic w/ tres. sl. oolitic.

oolitic layered system to altan
Tres. fess. fragm. matrix sub- chlk.
sub-sacros + packets; dul. gray. v. l.
to sl. tres. gl. w/ sl. fluor. No Cut
huy. tres. for to sl. tres. fr. bol. calcite
for. Prob. No Fern

4740-65 Lms. lt. gry. to tanish. gry
crypto. to tres. v. v. tan. xln. tres
sub- chlk. tres. sub-sacros. packets
sl. tres. sub- litho. xln. dul. yellow. blue
IPs; No Cut; No Vis For.

4665-88 Sh. med. to drk. gry. sl. to extly
calc. grading to Shly. Lmsts. IPs

4788 - 4890 Lmsts w/ scattered thin Shs 4800

1 Lms. lt. gry. grayish. tan to tan. crypto. to
v. v. tan. xln. tres. sub- chlk. sub-sacros.
packets. v. tres. sub- litho. xln.
v. dul. to dul. yellow. fluor. IPs; No Cut
No Vis For

2 scattered thin Shs med. to drk
gry. - sl. to extly calc

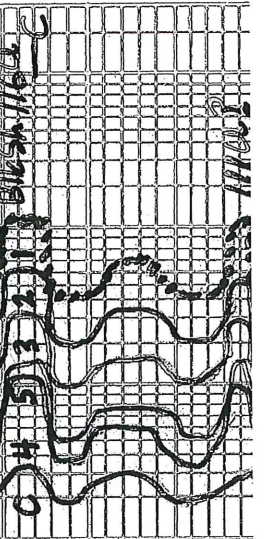
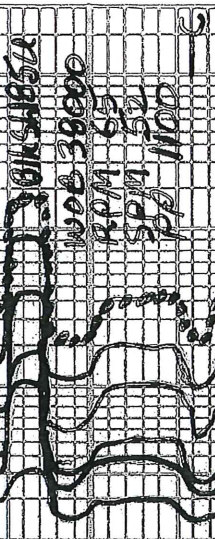
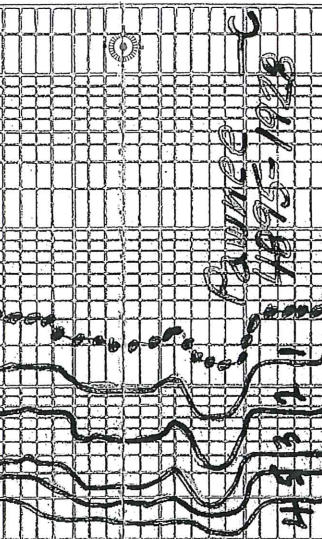
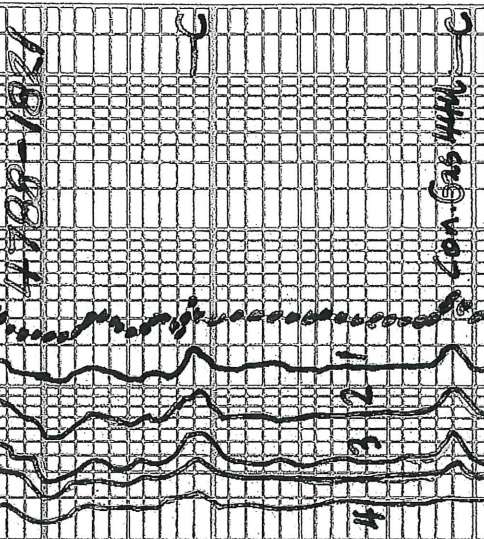
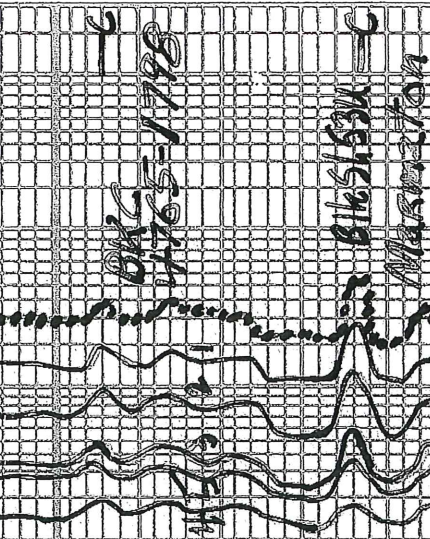
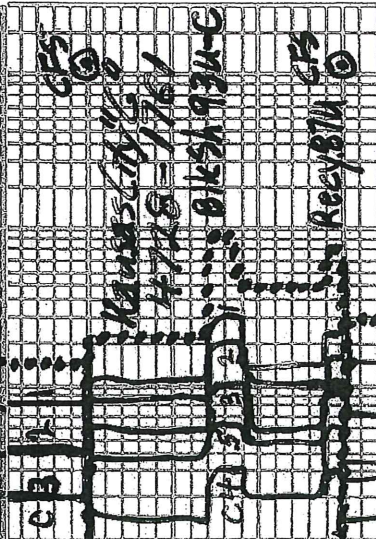
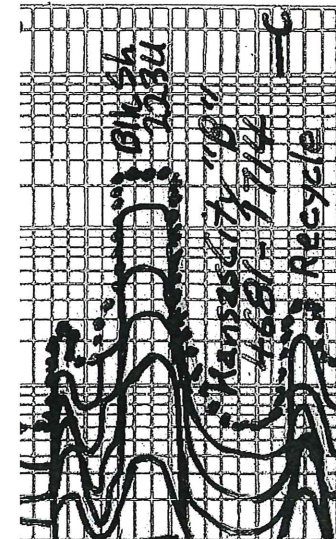
Sh. v. drk. gry to black-carb
Lms. lt. gry. crypto. xln. packets. IP
sub- litho. xln. dul. yellow. fluor. No Cut; No Vis For

Lms. tan. grayish. IPs; crypto. xln. tres. chlk.
sub- chlk. dul. yellow. fluor. No Cut; No Vis For
4908-27 Lms. grayish. tan to tan. crypto. to
v. v. tan. xln. tres. sub- chlk. sub-sacros. +
packets. oolitic. IPs; tres. to tan. fess.
No Vis For. sl. to dul. yellow. fluor. No Cut
Sh. v. drk. gry. to black-carb

Lms. w/ sl. tres. chert similar 4908-4927

Sh. v. drk. gry to black-carb
Lms. w/ sl. tres. chert similar 4908-27

4954-5271 Interbedded Lmsts + Shs
1. Lms. lt. gry. to tan. crypto. to v. v. tan. xln.
tres. chlk. tres. sub- chlk. sub-sacros.



Lms. w/ sl. trs. chert similar 4908-4927

Sh v. drk. gray to black - carb
Lms. w/ sl. trs. chert similar 4908-27

4954-5271 Interbedded Lmsts + Shs
1. Lms. H. gray to tan; crypto. to v. fin. xlb
trs. chlk; trs. sub-chlk.; sub-sucrad;
packstn. + sub-lithogr.; scattered
IPs; No cut; v. dul. to dul. yel. fluor
2. Lms. lt., med to drk. gray - sh. to
extraly. Shly. grdg. to calc. Shs;
crypto. xln.; sub-chlk for Shly; +
packstn.; No fluor; No cut;
No Vis for.

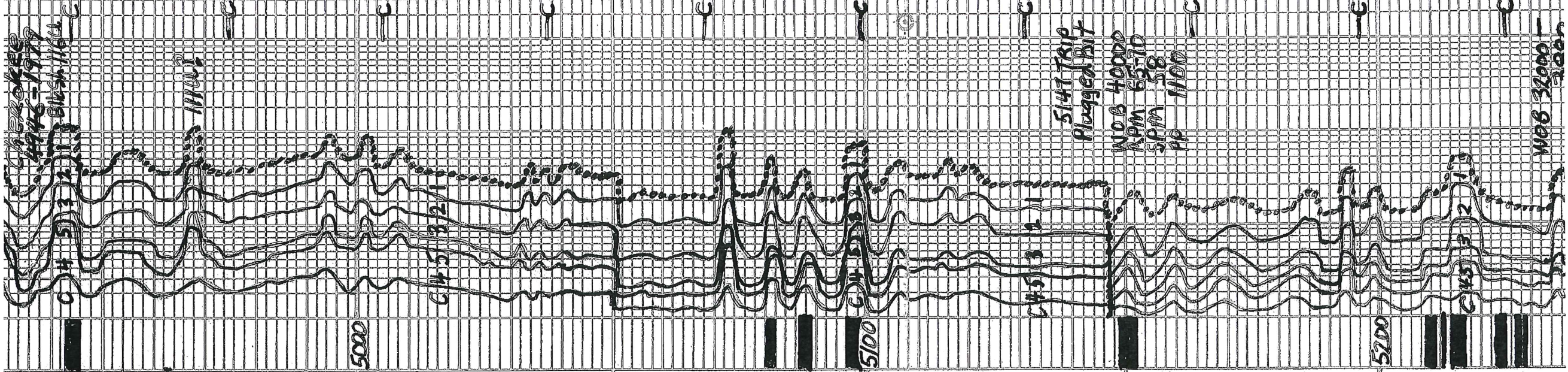
3. Sh med to drk. gray to v. to
extraly. calc. IPs.
4. Shs. v. drk. gray to black - carb.

A 5271-5302 Sh med. gray
w/ silky luster + drk. gray.
splintery IP w/ trs to hyp. trs
pyrite

B 5302-5364 Interbedded
Shs + Lmsts
5271-5302 w/ trs greenish
to trs H. green
C Lms. H. gray to tan; crypto. to
v. fin. xln.; trs. sub-chlk. sub-sucra.
+ packstn.; trs v. dul. H. yel. fluor.
No cut; No Vis. for.

C 5364-5385 Sh med. to drk.
gray; a bn. v. to extraly. calc
grdg. to shly. Lms. i
granular looking IPs
No. foss.; trs. marl mixture
of shs + thusts, trs crypto. v. m
sub-sucrad + packstn. foss.
IPs, trs. v. dul. yel. fluor.
No cut; No Vis. for.

D 5385-5390 1. 3/4 Qtz Sds
Tan to brn. from oil stain, v. w/ sh
to fin. gr. - ang. - pr. to f. sort.;
slit fac. finely disseminated
Pys; faint oil odee; gldn. yel
fluor. flush to g. s. stem. glats
pr. to tr. microp. to intergr
por.
2. 1/3 Lm. Sd Tan w/ drk. tan to brn
oil stain; crypto. to v. fin. xln
sub-sucrad to sucrad + packstn
Trs. foss. fragm. IP; faint
oil odee; gldn. yel. fluor.
flush to g. stem. glats; por. to f.
+ trs g. d. microp. to intergr
por.
E 5390-5393 Sh v. or. Dense Lms.



5. 1/3 Lms. Tan w/dk tan to dk oil stn; crypto. to w/fin xln sub-succo to succo + plecth trng. foss fragm. IP; faint oil adere; glin. yel. fluor; flush to gd. stn; cuts; plectr + trng. gd. micro-pp + interly por

E 5490-5493 Sh to Dense Lms.
F 5493-5401 1.852 Qtz sd similar 5385-90 gd oil order w/PR. Ta. to 1/2 in. 9d. to excel mixing pp to intergr. por

2. 15 Lms. sd similar 5385-90 w/huy tes w/u. fa to coarse Lmples. + foss. fragm. w/ sub succo to succo + plecth. w/ trng. w/ spid. tan oil stn. glin. yel. fluor flush to gd. stn; cuts; tes PR micro-pp por. IP.

A
G 5401-5404 Sh to Dense Lms
H 5404-5408 Qtz Sdst.
Tan, dk. tan brown, dk. brown to black from oil stn; v.v. fa. to frag. - ang. - fr. to gd. soret good oil order

Rainbow of oil on wash water; dk. glin. yel. fluor. with flush to gd. stn; cuts abn. PR. to be micro-pp. to intergr. por

B
I 5408-5431 Qtz Sdst
whit. to grayish wht w/huy tes to abn. w/sptd tan, brn to blk oil stn; w/dk gddnt to glin yel. fluor; w/ flush to gd. stn; cuts; dense tife + haze. No Vis PR

w/poss interbeds Qtz Sdsts similar 5404-5408

J 5431-5436 Sh med. gray w/silky luster to dk. gray splintery

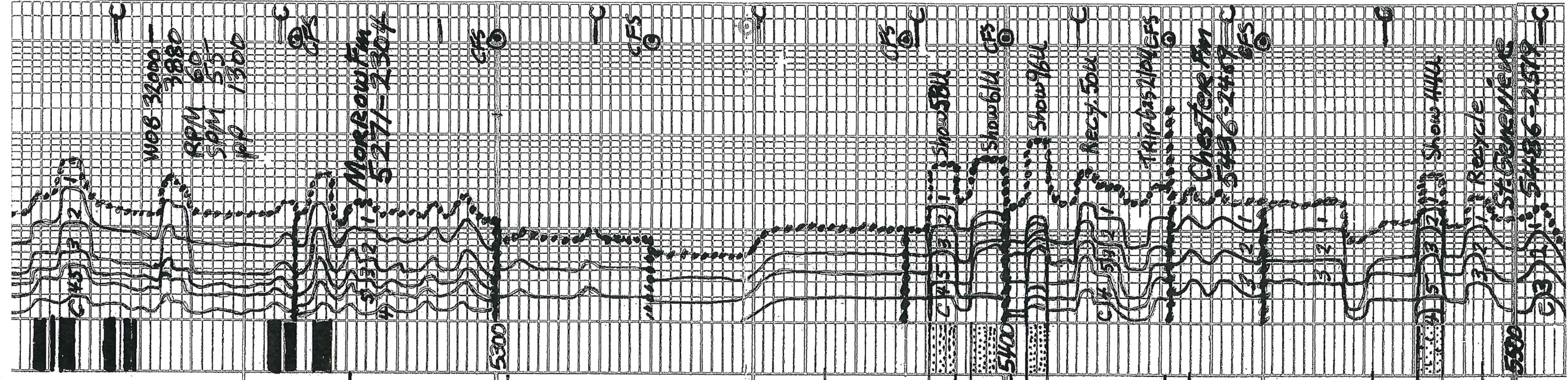
C
K 5436-5472 Lms. trng.
whit. to cream - chlk + H. gray to tan; crypto to tov. v. fin xln; sub-blk; sub-succo + plecth; trng. yel. fluor; No Vis PR

D
L 5472-5481 Lms
similar 5436-5472 w/abn Lms. H. gray; crypto. to v. fin xln; v. Qtz sd. - w. trng. - ang. on micro-oolitic No fl. w. No Vis PR w/tes. Sh med to dk gray and tes green

E
M 5481-5486
Qtz Sdst. H. gray + H. green w/abn. dk. tan to brn foam oil stn; v.v. to ang. - ang. good soret; completely

F
N. Lms. similar 5494-5567 weathered looking IP. S abn. w/black-dead oil stn. No fluor; Slow good stn; cuts

G
O 5494-5567 Lms. H. gray to tanish



WOB 3200
RPM 3880
SPM 60
PP 53
1300

Morrow FM
5271-2304

show 5811

show 6114

show 9611

Recy. 5011

TRIP BUS 2100

Chester FM
5436-2419

show 1111

Recycle

54486-2579

5300

5100

5000

L WEATHERED LAMING "1"
 abn. w/black-dead oil
 stn. No fluor; Slow
 good STRONG Cut
 No Vis POR.
 ←

5494-5567 Lms. H. grx. to tanish
 H. grx - top half zone extra
 abn. H. green + trs v. H. Red
 bottom half of zone extra. abn
 v. H. Red + trs. H. green.
 extra micro-oolitic or Qtz sd
 v. v. fn. gr. - ang; matrix trs
 sub-thk + sub-sucro; v. du. H.
 yel fluor. 1P; No cut; No visior

Lms. tan to grayish. tan. crypto to
 v. v. fn. x. in. v. to extely oolitic (some to med)
 matrix trs. sub-thk sub-sucro +
 pedest; in. du. H. yel fluor. 1P; No cut
 No Vis por w/ trs. chert tan to orange
 opaque to Trans
 Lms. v. abn. wh. to orange blk w/ blk oolites
 1P; + Trans crypto to v. v. fn. x. in. v. to extely
 oolitic; mp. to 1P trs. sub-sucro + pedest; in.
 sub-thk; sub-sucro + pedest; in.
 H. yel. fluor; No cut; No Vis por; hy. to
 to v. abn loose oolites; trs chert tan
 to orange; Trans to opaque

TD 5600

7 7/8" Bit Info:
 #1 New Smith FHI 18 YVFS
 In 1750 Out 5600 TD
 Cir. Points:

1. 4644 5. 5300 9. 5432
2. 4710 6. 5330 10. 5450
3. 4740 7. 5380 11. 5600
4. 5260 8. 5400

Dev. Surev.

1. 1129 3/4° 4. 5147 3/4°
2. 1450 1/4° 5. 5432 1 1/2°
3. 3848 1° 6. 5600 3/4° TD

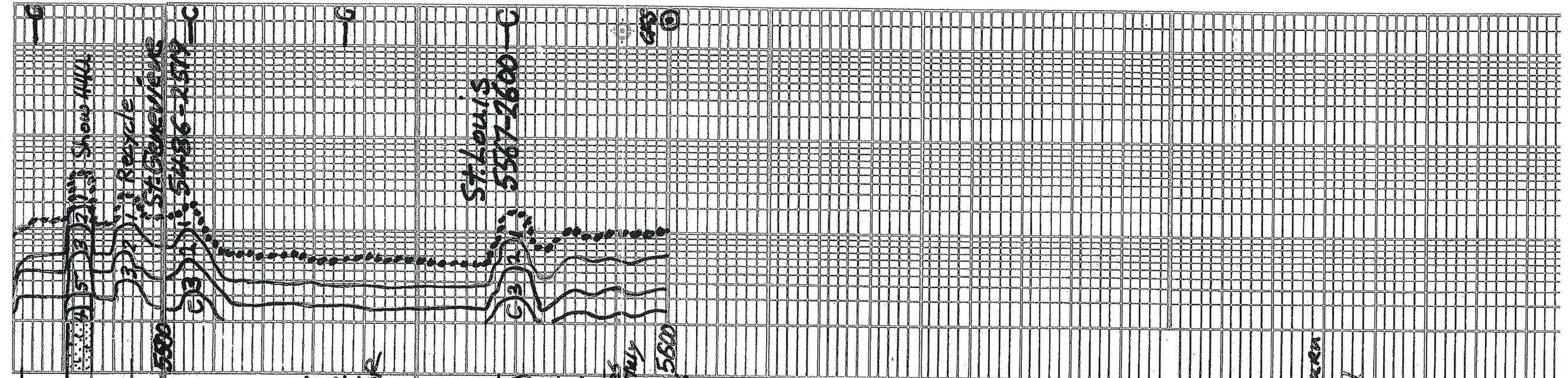
Daily Drig. Progress

1. 3743 AT 7:00 AM 8-30-2014
2. 3900 AT 12:14 PM 8-30-2014
3. 4311 AT 7:00 AM 8-31-2014
4. 4670 AT 7:00 AM 9-1-2014
5. 4943 AT 7:00 AM 9-2-2014
6. 5147 AT 7:00 AM 9-3-2014
7. 5317 AT 7:00 AM 9-4-2014
8. 5432 AT 7:00 AM 9-5-2014
9. 5506 AT 7:00 AM 9-6-2014
10. 5600 AT 7:00 AM 9-7-2014

DST #1 Morrow Sd 5388-5432
 IO BOB 45 Sec. GTS 14 min will be
 FO BOB 30 Sec Flowing Gas
 Rec 94 ft GCM 52 gals 95 S Mud
 BHT 135°

IHP 2722 #
 IFP 32-63 # in 30 min
 /SIP 103 # in 60 min
 FFP 57-78 # in 60 min
 FSIP 102 # in 120 min
 FHP 2658 #

Flow Info IO FO
 Time PSI ck MCFD Time PSI ck MCFD
 15 6 4 32.763 5 6 3/8 74.790



7. 5317
 8. 5432
 9. 5506
 10. 5600

A7:00 AM
 A7:00 AM
 A7:00 AM
 A7:00 AM

9-4-2014
 9-5-2014
 9-6-2014
 9-7-2014

DST #1 Morrow Sd 5388-5432
 IO 808 45Sec GTS 14 min will burn
 FO 808 30Sec Flowing Gas
 Rec 94ft GCM 52gds 95 Mud
 BHT 1350

IHP 2722#
 IFP 32-63# in 30 min
 ISIP 103# in 60 min
 FFP 57-78# in 60 min
 FSIP 102# in 120 min
 FHP 2658#

Flow time	PSI	ck	MCAPP	FO Time	PSI	ck	MGFD
15	6	4	32.363	5	6	3/8	74.790
20	9	4	37.122	10	6 1/2	3/8	76.562
25	12	4	41.881	20	7	3/8	78.393
30	15	4	46.640	30	7	3/8	78.393
				40	12	1/4	41.881
				50	14	1/4	45.054
				60	16	1/4	48.227

Mud Info:

Date	Time	Depth	WT	Vis	PV	YP	GS	NL	Cake	pH	CH	Ca	DM
8-29	8:30 AM	8-91	8.9	47	14	16	17	17	1/32	10.5	2900	40	0
9-1	8:55 AM	9-91	9.2	50	16	17	17	17	1/32	9.5	2100	20	2
9-2	9:00 AM	9-92	9.25	49	16	17	17	17	1/32	10.0	1400	20	4
9-3	9:10 AM	9-93	9.2	49	16	16	16	16	1/32	10.5	1000	20	2.5
9-4	11:00 AM	9-94	9.25	49	16	16	16	16	1/32	10.5	1100	20	4
9-5	8:40 AM	9-95	9.4	49	16	16	16	16	1/32	10.5	1700	20	3
9-6	11:15 AM	9-96	9.15	51	16	16	16	16	1/32	10.5	1700	20	3

OPERATOR Berexco LLC
 LEASE Dennis Unit
 ELEVATION 2967KB RTD 5600

LOCATION 541' ENL + 233' FEL
 SEC. 3 TWP. 29S RANG. 33W
 COUNTY Haskell STATE Kansas