



KANSAS CORPORATION COMMISSION 1104124
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 34589
Name: Miller-Becker Enterprises, LLC
Address 1: 100 S. MAIN ST.
Address 2: _____
City: RUSSELL State: KS Zip: 67665 + _____
Contact Person: Irvin D Miller
Phone: (785) 483-2880
CONTRACTOR: License # 33905
Name: Royal Drilling Inc
Wellsite Geologist: Ed Glassman
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 #: _____
11/17/2011 11/23/2011 3/3/2012
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-167-23750-00-00
Spot Description: _____
SW NW NW NE Sec. 22 Twp. 14 S. R. 15 East West
4941 Feet from North / South Line of Section
2584 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Russell
Lease Name: Jacob Corley Unit Well #: 1
Field Name: _____
Producing Formation: Arbuckle
Elevation: Ground: 1816 Kelly Bushing: 1822
Total Depth: 3252 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 223 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: 72000 ppm Fluid volume: 400 bbls
Dewatering method used: Evaporated
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: Deanna Carlsson Date: 12/14/2012



1104124

Operator Name: Miller-Becker Enterprises, LLC Lease Name: Jacob Corley Unit Well #: 1
 Sec. 22 Twp. 14 S. R. 15 East West County: Russell

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>868</td> <td>955</td> </tr> <tr> <td>B/Anhydrite</td> <td>905</td> <td>918</td> </tr> <tr> <td>Topeka</td> <td>2727</td> <td>-904</td> </tr> <tr> <td>Heebner</td> <td>2951</td> <td>-1127</td> </tr> <tr> <td>Toronto</td> <td>2967</td> <td>-1146</td> </tr> <tr> <td>B/Kansas</td> <td>3227</td> <td>-1406</td> </tr> <tr> <td>Arbuckle</td> <td>3244</td> <td>NA</td> </tr> </tbody> </table> | Name | Top | Datum | Anhydrite | 868 | 955 | B/Anhydrite | 905 | 918 | Topeka | 2727 | -904 | Heebner | 2951 | -1127 | Toronto | 2967 | -1146 | B/Kansas | 3227 | -1406 | Arbuckle | 3244 | NA |
|---|---|-------|-----|-------|-----------|-----|-----|-------------|-----|-----|--------|------|------|---------|------|-------|---------|------|-------|----------|------|-------|----------|------|----|
| Name | Top | Datum | | | | | | | | | | | | | | | | | | | | | | | |
| Anhydrite | 868 | 955 | | | | | | | | | | | | | | | | | | | | | | | |
| B/Anhydrite | 905 | 918 | | | | | | | | | | | | | | | | | | | | | | | |
| Topeka | 2727 | -904 | | | | | | | | | | | | | | | | | | | | | | | |
| Heebner | 2951 | -1127 | | | | | | | | | | | | | | | | | | | | | | | |
| Toronto | 2967 | -1146 | | | | | | | | | | | | | | | | | | | | | | | |
| B/Kansas | 3227 | -1406 | | | | | | | | | | | | | | | | | | | | | | | |
| Arbuckle | 3244 | NA | | | | | | | | | | | | | | | | | | | | | | | |

| CASING RECORD <input checked="" 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 |
| Surface | 12.2500 | 8.6250 | 23 | 223 | common | 150 | 5% cal 3%gel |
| Production | 7.8750 | 5.5000 | 14 | 3252 | common | 170 | com 10% salt |
| | | | | | | | |

| 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 | - | | | |
| | - | | | |

| 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 |
|----------------|---|--|-------|
| 4 | 3242-3249 3140-3145 3095-3098 | 500 gallons 15% acid all zones | |
| 4 | 3028-3032 3007-3012 2969-2975 | | |
| 3 | 2916-2820 | | |
| | | | |

| | | | | |
|--|-----------------------|--|---------------------------|--|
| TUBING RECORD: | Size: <u>2 7/8</u> | Set At: | Packer At: | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or ENHR. <u>3/3/2012</u> | | Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ | | |
| Estimated Production Per 24 Hours | Oil Bbls. <u>6</u> | Gas Mcf | Water Bbls. <u>220</u> | Gas-Oil Ratio <u>36</u> |

| | | |
|--|---|--|
| DISPOSITION OF GAS: <input checked="" 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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. (Submit ACO-5) <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____ | PRODUCTION INTERVAL: _____ _____ |
|--|---|--|

| | |
|-----------|--------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Miller-Becker Enterprises, LLC |
| Well Name | Jacob Corley Unit 1 |
| Doc ID | 1104124 |

All Electric Logs Run

| |
|------------------|
| |
| Dual induction |
| Sonic |
| Porosity |
| Microresistivity |

QUALITY OILWELL CEMENTING, INC.

Phone 785-823-2025
 Cell 785-324-1041

Home Office P.O. Box 32 Emporia KS 67665

No. 005

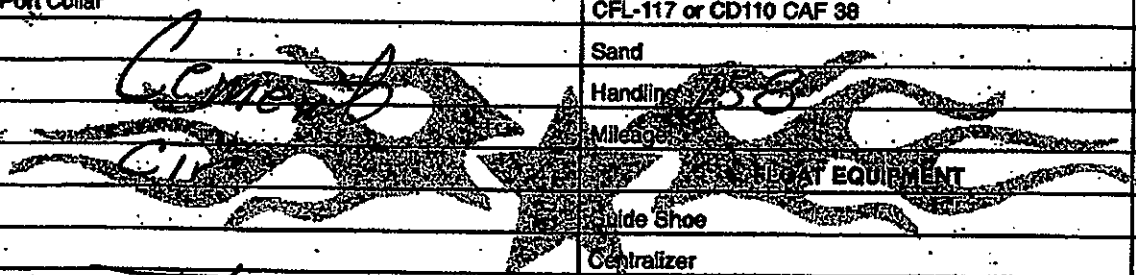
| | | | | | | | |
|------------------------------------|------|------------------------|-------------------|--|-------|-------------|-----------------------|
| Date 11-12-16 | Sec. | Twp. | Range | County | State | On Location | Finish 11:30PM |
| Lease Jacob Caskey UNIT | | | Well No. 1 | Location Balta old 40 45 2h.w | | | |
| Contractor Royal Doby Rug 2 | | | | Owner | | | |
| Type Job 12h | | | | To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed. | | | |
| Hole Size 8 1/2 | | T.D. 223 | | Charge To Miller-Becker Enterprises | | | |
| Csg. | | Depth 222 | | Street | | | |
| Tbg. Size | | Depth | | City | | | |
| Tool | | Depth | | State | | | |
| Cement Left in Csg. 10' 13 | | Shoe Joint | | The above was done to satisfaction and supervision of owner agent or contractor. | | | |
| Meas Line | | Displace 13 1/2 | | Cement Amount Ordered 150 3 2 | | | |

EQUIPMENT

| | | | | | |
|------------------|-----|-----------------|--------------|----------|------------|
| Pumptrk 5 | No. | Cementer/Helper | Davey | Common | 150 |
| Bulktrk 3 | No. | Driver | Gasar | Poz. Mix | |
| Bulktrk | No. | Driver | | Gel. | 3 |

JOB SERVICES & REMARKS

| | |
|--------------------|-------------------------|
| Remarks: | Hulls |
| Rat Hole | Self |
| Mouse Hole | Flowseal. |
| Centralizers | Kol-Seal |
| Baskets | Mud CLR 48 |
| D/V or Port Collar | CFL-117 or CD110 CAF 38 |



Quality Oilwell Cementing

| | |
|-------------------|--|
| EQUIPMENT | |
| Slide Shoe | |
| Centralizer | |
| Baskets | |
| AFU inserts | |
| Float Shoe | |
| Latch Down | |
| Pumptrk Charge | |
| Mileage 11 | |

RECEIVED
OCT 24 2012

Signature **Doby Budig**

Tax
 Discount
 Total Charge

QUALITY OILWELL CEMENTING, INC.

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

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

No. 536

| Date | Sec | Twp | Range | County | State | On Location | Finish |
|-----------------------------------|---------------------------------|----------------------|-------|--|-------|-------------|----------|
| 11/23/11 | | | | Russell | KS | | 10:15 PM |
| Lease Sub: Carley Unit Well No. 1 | | | | Location Hwy 40 + Balla Rd, 4S, 2 1/2 W, S into | | | |
| Contractor Royal Drilling Rig #1 | | | | Owner To Quality Oilwell Cementing, Inc. | | | |
| Type Job Production String | | | | You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. | | | |
| Hole Size 7 7/8" | | T.D. 3252' | | Charge To Miller - Becker | | | |
| Csg. 14# 5 1/2" | | Depth 3251' | | Street | | | |
| Tbg. Size | | Depth | | City | | State | |
| Tool Port Collar | | Depth 886' Jt # 58 | | | | | |
| Cement Left in Csg. 42' | | Shoe Joint 42' | | The above was done to satisfaction and supervision of owner agent or contractor. | | | |
| Meas Line | | Displace 78 1/4 Pbls | | Cement Amount Ordered 170 sx Com 10% Salt | | | |
| EQUIPMENT | | | | 5% Gilsonite 1/4# Flocefl | | | |
| Pumptrk 9 | No. Cementer Helper Paul | | | Common 170 | | | |
| Bulktrk 3 | No. Driver Paul Dave | | | Poz. Mix | | | |
| Bulktrk AV | No. Driver Brett | | | Gel. | | | |
| JOB SERVICES & REMARKS | | | | Calcium | | | |
| Remarks: | | | | Hulls | | | |
| Rat Hole 30 sx | | | | Salt 15 | | | |
| Mouse Hole 20 sx | | | | Flowseal 42# | | | |
| Centralizers 1, 4, 7, 11, 15 | | | | Kol-Seal 850# | | | |
| Baskets 2, 57 | | | | Mud CLR 48 500 gal. | | | |
| D/V or Port Collar 886' Jt # 58 | | | | CFL-117 or CD110 CAF 38 | | | |
| Est Circ - 20 min | | | | Sand | | | |
| Pump 500 gal Mud CLR 48 | | | | Handling 25 | | | |
| Plug Port Collar | | | | Mileage | | | |
| Misc 100 sx | | | | 5 | | | |
| Displace | | | | FLOAT EQUIPMENT | | | |
| Lead Plug | | | | Guide Shoe 1 | | | |
| Float Head | | | | Centralizer 5 - Turbos | | | |
| | | | | Baskets 2 | | | |
| | | | | AFU Inserts | | | |
| | | | | Float Shoe | | | |
| | | | | Latch Down | | | |
| | | | | Rubber Plug / Port Collar | | | |
| | | | | Rotating Head | | | |
| | | | | Pumptrk Charge Pro. Drilling Firm | | | |
| | | | | Mileage 11 | | | |
| Signature <i>[Signature]</i> | | | | Tax | | | |
| | | | | Discount | | | |
| | | | | Total Charge | | | |

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OCT 24 2012
KCC WICHITA

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OCT 24 2012
KCC WICHITA

RECEIVED
OCT 24 2012
KCC WICHITA

GEOLOGIC
REPORT
LOG

COMPANY MILLER-BECKER ENTERPRISES
RUSSELL, KANSAS LLC

WELL JACOBS-LORLEY UNIT #1

FIELD GORHAM

LOCATION 4941' FSL & 2584' FEL

SEC. 22 TWP. 14S RGE. 15W

COUNTY RUSSELL

STATE KANSAS

API # 15-167-23750-00-00

OPERATOR MILLER-BECKER ENTERPRISES

CONTRACTOR ROYAL DRILLING INC.

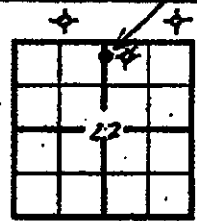
CON: 11-17-2011 COMP: 11-23-2011

CASING RECORD

SURF: 8 3/8" @ 223' PROD: 5 1/2" @ 3251

TOTAL DEPTH DRILLERS: 3252

TOTAL DEPTH LOG: 3252



PRODUCTION

ELEVATION KB 1822

DF

GL 1816

Drilling Measured From: KELLY DASHING

Samples Saved From: 2700 To: T.D.

Drilling Time From: 2600 To: T.D.

Samples Examined From: 2700 To: T.D.

Geological Supervision From: 2700 To Total Dept

Wellsite Geologist: ED GLASEMAN

Electrical Surveys: DUAL INDUCTION

DENSITY-NEUTRON

MICRO. SONIC

FORMATION TOPS AND STRUCTURAL POSITION

| FORMATION | SAMPLE TOP | ELECTRIC LOG TOP | SUB-SEA DATUM | STRUCTURAL POSITION |
|-------------|--------------|------------------|---------------|---------------------|
| ANHYDRITE | 768 (954) | 867 | 955 | +2 |
| B/ANHYDRITE | 905 (917) | 904 | 918 | -1 |
| TOPEKA | 2727 (-906) | 2726 | -904 | +1 |
| HEBNER | 2951 (-1029) | 2949 | -1127 | +3 |
| TORONTO | 2967 (-1143) | 2968 | -1146 | +3 |
| LANSING | 3007 (-1183) | 3006 | -1184 | +1 |
| B/KANSAS | 3227 (-1403) | 3228 | -1406 | +1 |
| ARBUCKLE | 3244 (-1422) | NA | NA | NA |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

DRILL STEM TESTS

| No. | Interval | IFP/Time | ISIP/Time | FFP/Time | FSIP/Time | GHI-TIME | RECOVERY |
|-----|---------------|-----------|------------|-----------|------------|---------------|--|
| 1 | 2982- 3065 | 28/ 15 | 712/ 60 | 48/ 45 | 693/ 60 | 1449- 1405 | 75' 5li Oil Cut Mud |
| 2 | 3059- 3088 | 14/ 15 | 24/ 30 | 15/ 15 | 22/ 30 | 1503- 1454 | 1' MUD |
| 3 | 3219- 3252 | 17/ 15 | 982/ 60 | 25/ 45 | 838/ 60 | 1597- 1534 | 30' G.I.P. 10' Clean Gassy L 20' Gassy Oil Cut n |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

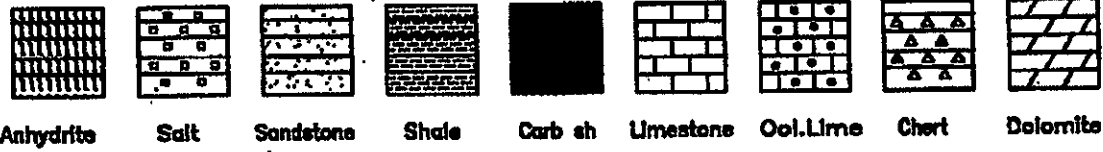
REMARKS AND RECOMMENDATIONS

Based on DST #3 and log analysis
it was decided to run 5 1/2" casing
to further test Arbuckle and
LKC zones.

Respectfully

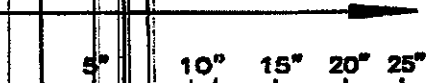
[Signature]

LEGEND



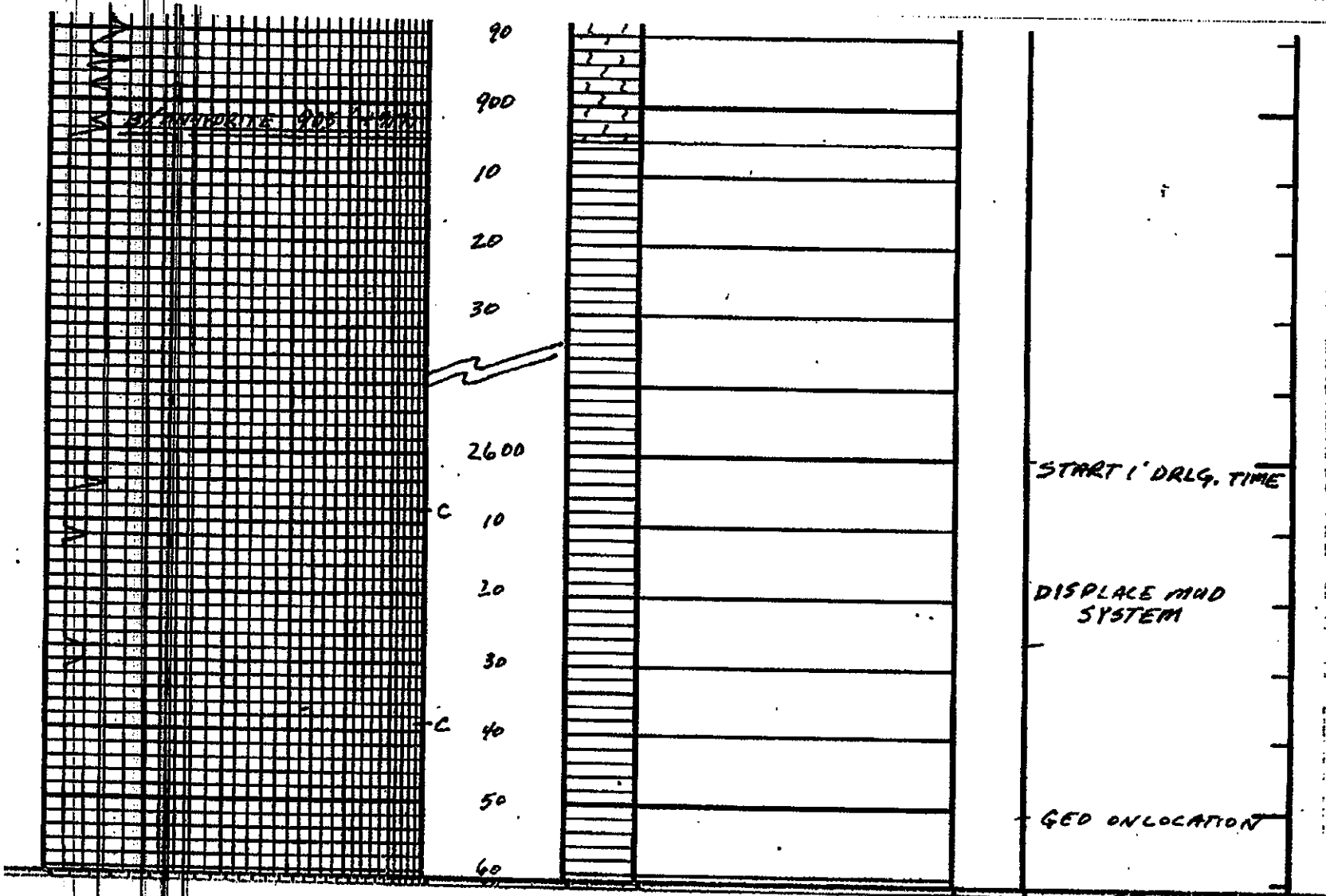
LOG 7710

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Decreases

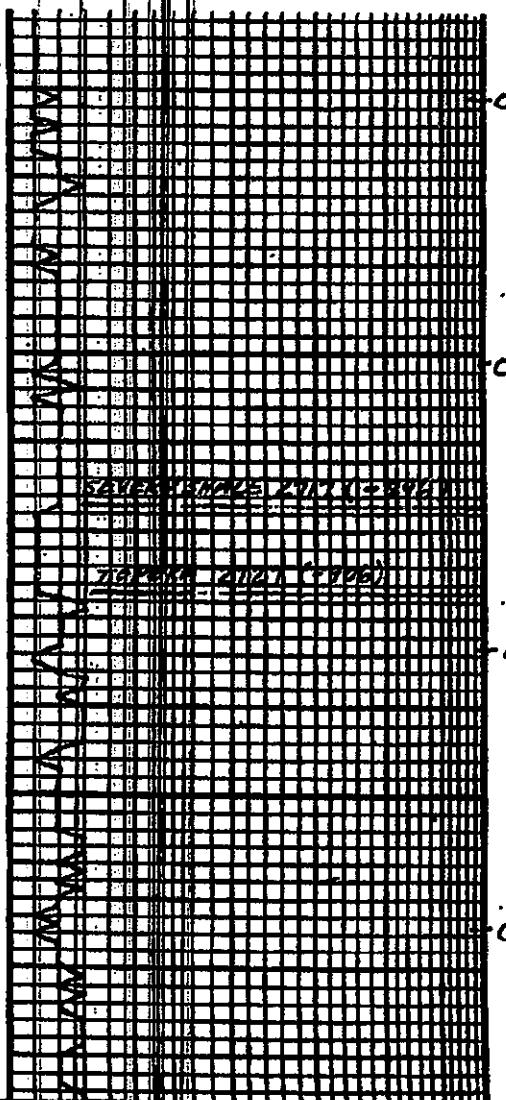


| | DEPTH | LITHOLOGY | SAMPLE DESCRIPTIONS | OIL SHOWS | REMARKS |
|--|-------|-----------|---------------------|-----------|---------|
| | 60 | | | | |
| | 70 | | | | |
| | 80 | | | | |

ANHYDRITE (60-80 FT)



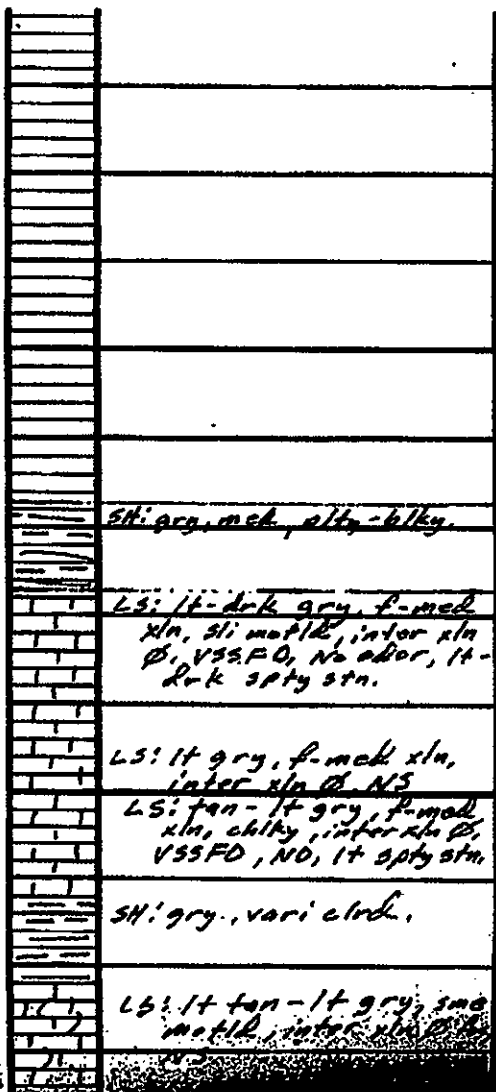
8



SEVERAL SAMPLES 2017 (10-19-17)

786000 (2012) (1-10-12)

70
80
90
2700
10
20
30
40
50
60
70
80



SH: gry, med, alt, blk.

LS: lt-drk gry, f-med
xln, sh matlk, inter xln
phi, VSSFD, No odor, lt-
drk spty stn.

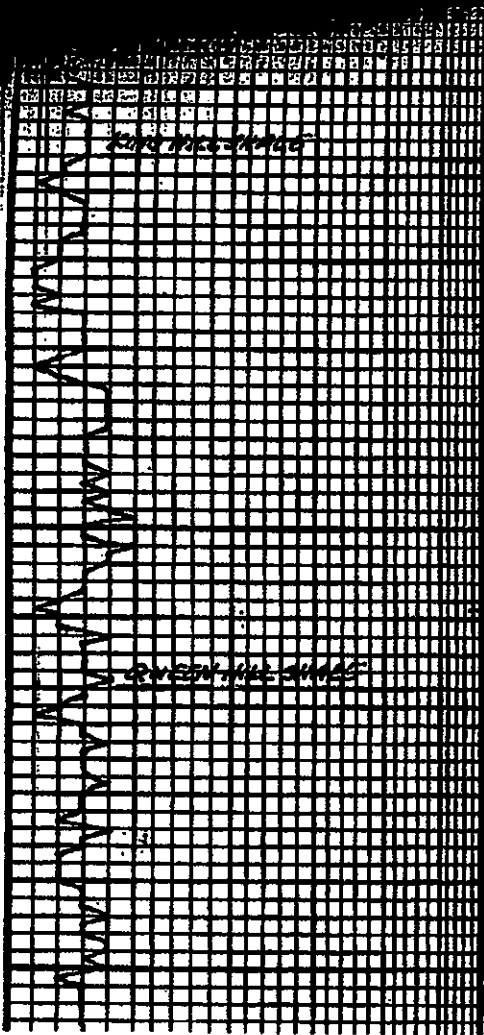
LS: lt gry, f-med xln,
inter xln phi, NS
LS: tan-lt gry, f-med
xln, chky, inter xln phi,
VSSFD, NO, lt spty stn.

SH: gry, vari clrd.

LS: lt tan-lt gry, smc
matlk, inter xln phi,
NS

START 10' W & 0 SAMPLE

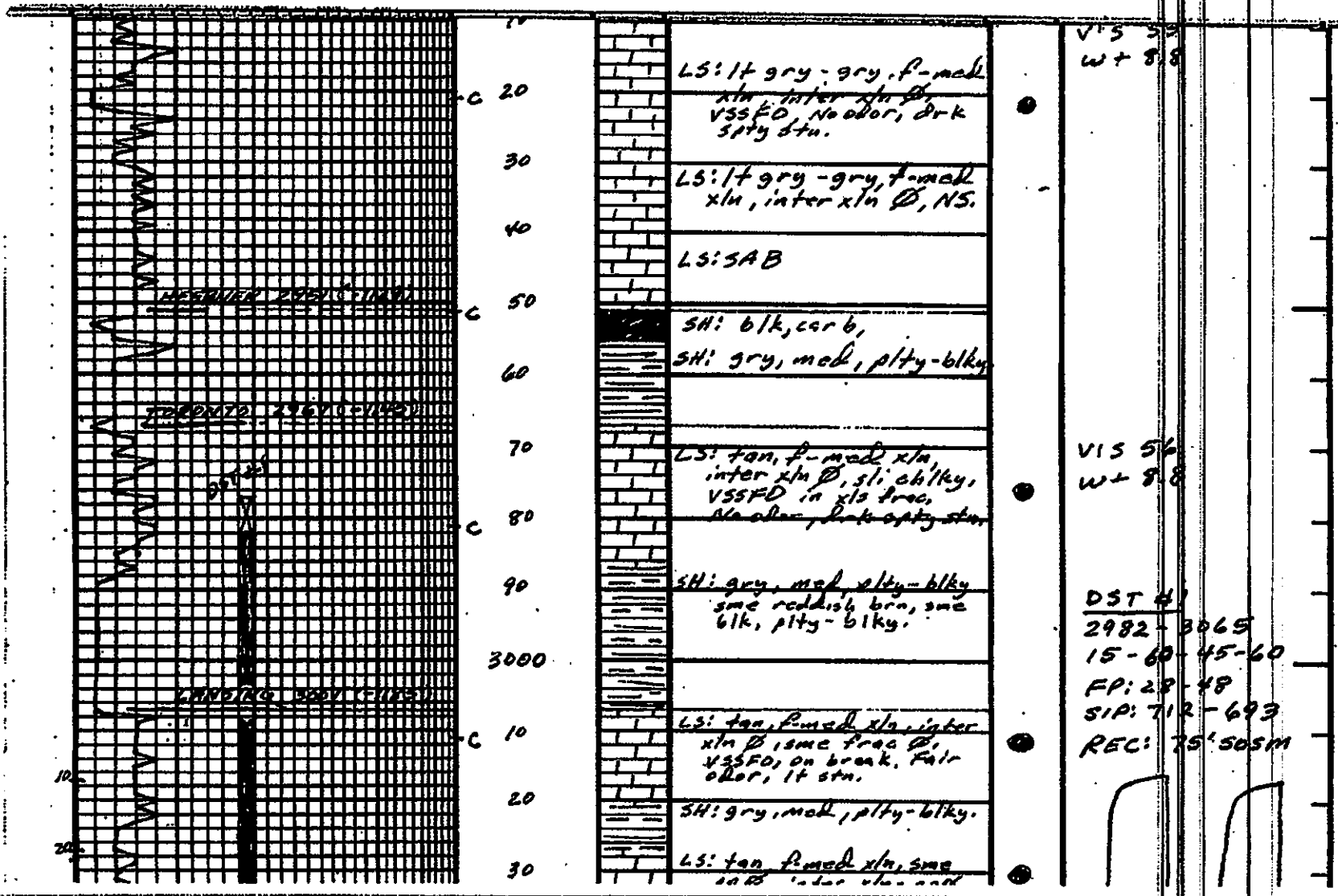


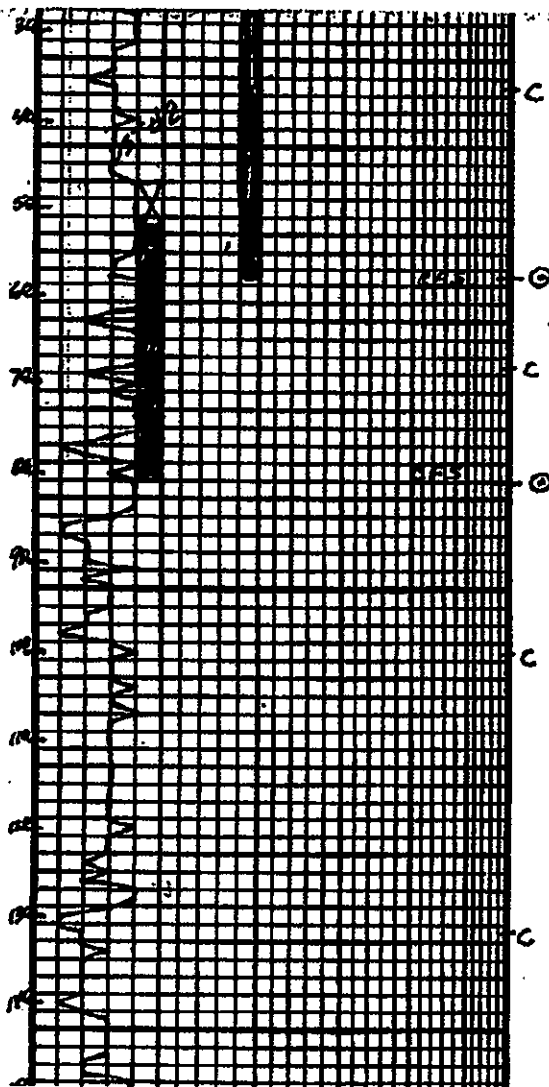


2800
10
20
30
40
50
60
70
80
90
2900

| |
|---|
| LS: tan, f-med xln, sme lt gry, inter xln Ø, NS. |
| SH: blk, carb. |
| SH: gry, med, blk, blk |
| SH: lt gry - gry, f-med, blk. |
| LS: tan, sme lt tan, f-med xln, inter xln of SSPD, sli abor, lt-dok saty sta. |
| LS: lt gry, fos, inter xln frag Ø, NS. |
| SH: blk, carb |
| SH: gry, med, blk. |
| LS: tan - lt gry, fos, inter xln - frag Ø, NS. |
| LS: SAB |
| LS: tan, f-med xln, inter xln Ø, NS. |

VIS 56
wt 8.8



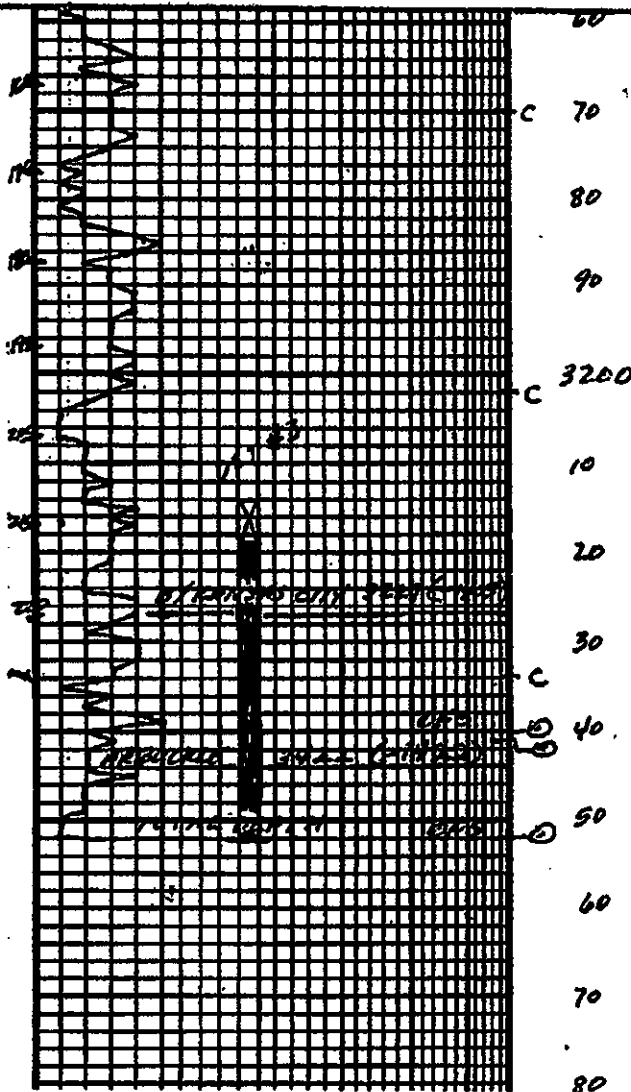


| | |
|------|--|
| 40 | SH: gry, med blun-gen, med ply. |
| 50 | LS: tan, f-med xln, ool, inter xln-ool β , SSFD, sli odor, lt uneven str. |
| 60 | SH: gry, med, ply- blk |
| 70 | LS: tan, f-med xln, sli ool, inter xln β , SSFD, sli odor, lt uneven str. |
| 80 | SH: gry, med, ply. |
| 90 | LS: tan, f-med xln, ool, chrt, inter xln-ool β , SSFD, sli odor, lt uneven str. |
| 3100 | SH: gry. |
| 10 | LS: lt tan-tan, f-med xln, ool, inter xln-ool, β , vuggy, show boy oil, fair odor, dark str. |
| 20 | LS: wt-lt tan-lt gry, f-med xln, inter xln β , SSFD, 6 or inches, NS. |
| 30 | LS: SAB |
| 40 | SH: gry-drk gry, sm vari blk, ply- blk. |
| 50 | LS: tan, f-med xln, sli chky, inter xln β , NS. |
| | SH: gry, med, ply. |

VIS 5'
WT 3.8
LCM 3d

DST #2
3059 - 3088
15-30-15-30
FP: 14-15
SIP: 24-22
REC: MUD

VIS 5D
WT 3.8
LCM 2d




| | |
|------|--|
| 60 | |
| 70 | LS: lt tan, tan, f. med xln, sme pp @, sli vussy, inter xln-pp-vussy @, FSD, @d other, lt even str, dull yel flow. |
| 80 | SH: gry med, plty-blky, sme reddish brn. |
| 90 | LS: lt tan-tan, f. med xln, inter pp @, gas bubbles on lt even str, dull yel flow, calcitic - co med. @. |
| 3200 | SH: gry. med, plty-blky. |
| 10 | SH: SAB |
| 20 | LS: tan - lt gry, f. med xln, inter pp @, NS. |
| 30 | SH: gry, vari cld, plty-blky. |
| 40 | |
| 50 | DOLS: lt tan-tan, sdy, f. C xln, sme-whab @, sli vussy, @d other, FSD, strong other, lt even str. |
| 60 | |
| 70 | |
| 80 | |

VIS 50
WT 8.8
LCM 34

VIS 49
WT 8.9
LCM 34

VST 43
3219-3252
15-60-45-60
FP: 17-25
SIP: 982-838
REC: 30' GIP
10' C90
20' 500M
CL 7000
SYSTEM 2600
34° API.

| DRILLING TIME Minutes/Foot | DEPTH | LOG | SAMPLE DESCRIPTIONS | SMOOTH | REMARKS |
|--|-------|-----|--|--------|---------|
|  Rate of Penetration Decreases | | | | | |
| CONTRACTOR <u>ROYAL DRILLING INC.</u> LEASE <u>JACOBS CORLEY UNIT IP NA</u> ELEVATION <u>1822 KB</u> RTD <u>3252</u> | | | LOCATION <u>4941' FSL & 2584 FEL</u> SEC <u>22</u> TWP <u>14S</u> RNG <u>15W</u> COUNTY <u>RUSSELL</u> STATE <u>KANSAS</u> | | |