FORM MUST BE TYPED

SIDE ONE

# ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

API NO. 15- 023-203610000

County Cheyenne

NE - NE - SE - SW Sec. 33 Twp. 1S Rge. 39 E X W

2510 Feet from S/N (circle one) Line of Section

2310 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Stevens Well # 1-33

Field Name Wildcat

Producing Formation None

Elevation: Ground 3227 KB 3232

Total Depth 4803 PBTD

Amount of Surface Pipe Set and Cemented at 245 Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from ____

feet depth to ____ w/ ____ sx cmt.

Drilling Fluid Management Plan P&A, 6-16-00 KC
(Data must be collected from the Reserve Pit)

Chloride content 1800 ppm Fluid volume 300 bbls

Dewatering method used Cut windows, let dry

Location of fluid disposal if hauled offsite:

Operator Name ____

Lease Name ____ License No. ____

____ Quarter Sec. ____ Twp. ____ S Rng. ____ E/W

County ____ Docket No. ____

Operator: License # 30425

Name: DNR Oil & Gas Inc.

Address 12741 E. Caley, Unit 142

City/State/Zip Englewood, CO80111

Purchaser: None

Operator Contact Person: Charles B. Davis

Phone (303) 825-8956

Contractor: Name: Murfin Drilling Company

License: 30606

Wellsite Geologist: Christopher P. Gough

RECEIVED
STATE CORPORATION COMMISSION
MAY 8 2000
CONSERVATION DIVISION
Wichita, Kansas

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
X Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Reentry: Old Well Info as follows:

Operator: ____

Well Name: ____

Comp. Date ____ Old Total Depth ____

____ Deepening ____ Re-perf. ____ Conv. to Inj/SWD
____ Plug Back ____ PBTD
____ Commingled Docket No. ____
____ Dual Completion Docket No. ____
____ Other (SWD or Inj?) Docket No. ____

11/22/99 Spud Date
12/2/99 Date Reached TD
12/3/99 Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature ____

Charles B. Davis

Title President Date 5/2/00

Subscribed and sworn to before me this 2nd day of May, 19XX2000

Notary Public Carrie L. Witzel

Date Commission Expires 4/22/03

K.C.C. OFFICE USE ONLY
F ____ Letter of Confidentiality Attached
C ✓ Wireline Log Received
C ✓ Geologist Report Received

Distribution
✓ KCC ____ SWD/Rep ____ NGPA
____ KGS ____ Plug ____ Other (Specify)

Form ACO-1 (7-91)

SIDE TWO

Operator Name DNR Oil & Gas Inc. Lease Name Stevens Well # 1-33

Sec. 33 Twp. 1S Rge. 39 ☐ East ☒ West County Cheyenne

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.) ☒ Yes ☐ No

Samples Sent to Geological Survey ☒ Yes ☐ No

Cores Taken ☐ Yes ☒ No

Electric Log Run (Submit Copy.) ☒ Yes ☐ No

List All E.Logs Run: DIL, CNL/CDL, Microlog

☒ Log Formation (Top), Depth and Datums ☐ Sample

| Name | Top | Datum |
|---|---|---|
| Stone Corral | 3200 | +32 |
| Base Stone Corral | 3235 | -3 |
| Heebner | 4166 | -932 |
| Lansing | 4202 | -970 |
| Base KC | 4472 | -1236 |
| Marmaton | 4498 | -1268 |
| Pawnee | 4590 | -1350 |
| Ft Scott | 4621 | -1388 |
| Cherokee | 4650 | -1421 |
| TD | 4803 | |

CASING RECORD ☒ New ☐ 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 | 12¼" | 8 5/8" | 23 | 2145 | 60/40 Poz | 180 | 4% CaCl, 2% Gel |
| | | | | | | | |
| | | | | | | | |

ADDITIONAL CEMENTING/SQUEEZE RECORD

| Purpose: ___ Perforate ___ Protect Casing ___ Plug Back TD ___ Plug Off Zone | Depth Top Bottom | Type of Cement | #Sacks Used | Type and Percent Additives |
|---|---|---|---|---|
| | | | | |
| | | | | |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) | Depth |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD Size Set At Packer At Liner Run ☐ Yes ☐ No

Date of First, Resumed Production, SWD or Inj. P&A Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|---|---|---|---|---|---|
| | | | | | |

Disposition of Gas: METHOD OF COMPLETION Production Interval

☐ Vented ☐ Sold ☐ Used on Lease (If vented, submit ACO-18.)

☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify)

ORIGINAL

# ALLIED CEMENTING CO., INC.

1547

Federal Tax I.D.#[redacted]

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

SERVICE POINT: Oakley

| DATE | SEC. | TWP. | RANGE | CALLED OUT | ON LOCATION | JOB START | JOB FINISH |
|---|---|---|---|---|---|---|---|
| 11-22-99 | 33 | 1s | 39w | | 10:30 PM | 11:10 PM | 11:30 PM |

| LEASE | WELL # | LOCATION | COUNTY | STATE |
|---|---|---|---|---|
| Stevens | 1-33 | Wheeler 9N 1/2 W 2k NE | Cheyenne | KS |

OLD OR NEW (Circle one)

CONTRACTOR Murfin Drlg Rig 3
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 245'
CASING SIZE 8 5/8 DEPTH 245'
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 15'
PERFS.
DISPLACEMENT

OWNER Same

**CEMENT**
AMOUNT ORDERED 180 sks 60/40 Poz 4% CC 2% Gel

**EQUIPMENT**

PUMP TRUCK # 300 CEMENTER Dean
HELPER Wayne
BULK TRUCK # 218 DRIVER Lonnie
BULK TRUCK # DRIVER

| | | | |
|---|---|---|---|
| COMMON | 108 sks | @ 7.55 | 815.40 |
| POZMIX | 72 sks | @ 3.25 | 234.00 |
| GEL | 3 sks | @ 9.50 | 28.50 |
| CHLORIDE | 8 sks | @ 28.00 | 224.00 |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | 180 sks | @ 1.05 | 189.00 |
| MILEAGE | 4¢ per sk/mile | | 648.00 |
| | | TOTAL | 2,138.90 |

**REMARKS:**

Cement did circulate

Thank you

**SERVICE**

| | | | |
|---|---|---|---|
| DEPTH OF JOB | | | 245' |
| PUMP TRUCK CHARGE | | | 470.00 |
| EXTRA FOOTAGE | | @ | |
| MILEAGE | 90 miles | @ 2.85 | INC |
| PLUG | 8 5/8 Surface | @ | 45.00 |
| | | @ | |
| | | @ | |
| | | TOTAL | 515.00 |

CHARGE TO: DNR Oil & Gas Inc
STREET
CITY STATE ZIP

**FLOAT EQUIPMENT**

| | | |
|---|---|---|
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | TOTAL | |

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX
TOTAL CHARGE
DISCOUNT IF PAID IN 30 DAYS

SIGNATURE Keith VanPelt

PRINTED NAME

ORIGINAL

# ALLIED CEMENTING CO., INC.

1720

Federal Tax I.D.# [redacted]

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

SERVICE POINT:
OAKLEY

| DATE | SEC. | TWP. | RANGE | CALLED OUT | ON LOCATION | JOB START | JOB FINISH |
|---|---|---|---|---|---|---|---|
| 12-2-99 | 33 | 1S | 39W | | 9:30PM | 11:30PM | 3:30 AM |

| LEASE | WELL # | LOCATION | COUNTY | STATE |
|---|---|---|---|---|
| STEVENS | 1-33 | WHEELER 9N-½W-2½N | CHEYENNE | KS |

OLD OR (NEW) (Circle one)

CONTRACTOR MURFIN DRLG RIG #3
TYPE OF JOB PTA
HOLE SIZE 7⅞" T.D. 4800'
CASING SIZE DEPTH
TUBING SIZE DEPTH
DRILL PIPE 4½" DEPTH 2425'
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT

OWNER SAME

**CEMENT**

AMOUNT ORDERED
165 SKS 60/40 poz 6% GEL ¼# Flo-SEAL

**EQUIPMENT**

PUMP TRUCK # 300 CEMENTER TERRY
HELPER WAYNE
BULK TRUCK # 218 DRIVER ANDREW
BULK TRUCK # DRIVER

| | | | |
|---|---|---|---|
| COMMON | 99 SKS | @ 7.55 | 747.45 |
| POZMIX | 66 SKS | @ 3.25 | 214.50 |
| GEL | 9 SKS | @ 9.50 | 85.50 |
| CHLORIDE | | @ | |
| Flo-Seal | 41# | @ 1.15 | 47.15 |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | 165 SKS | @ 1.05 | 173.25 |
| MILEAGE | 4¢ per SK/mile | | 594.00 |
| | | TOTAL | 1,861.85 |

**REMARKS:**

100 SKS AT 2425'
40 SKS AT 300'
10 SKS AT 40'
15 SKS RAT HOLE

THANK YOU

**SERVICE**

| | | | |
|---|---|---|---|
| DEPTH OF JOB | 2425' | | |
| PUMP TRUCK CHARGE | | | 470.00 |
| EXTRA FOOTAGE | | @ | |
| MILEAGE | 90 miles | @ 2.85 | 256.50 |
| PLUG | 8⅝ DRY Hole | @ | 23.00 |
| | | @ | |
| | | @ | |
| | | TOTAL | 749.50 |

CHARGE TO: ONR OIL & GAS, INC.
STREET
CITY STATE ZIP

**FLOAT EQUIPMENT**

| | | |
|---|---|---|
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | TOTAL | |

To Allied Cementing Co., Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX
TOTAL CHARGE
DISCOUNT IF PAID IN 30 DAYS

SIGNATURE Tom Dickinson

PRINTED NAME

ORIGINAL

**Well Name:** Stevens #1-33
**Company:** DNR Oil & Gas Inc.
**Location:** 33-1s-39w
Cheyenne county Kansas
**Date:** 12-7-99

TRILOBITE TESTING L.L.C.

OPERATOR : DNR Oil & Gas Inc.
WELL NAME: Stevens #1-33
LOCATION : 33-1S-39W Cheyenne co KS
INTERVAL : 4670.00 To 4717.00 ft

DATE 12-2-99
KB 3232.00 ft
GR 3227.00 ft
TD 4803.00 ft
TICKET NO: 12000 DST #1
FORMATION: Cherokee
TEST TYPE: CONV STRADDLE

RECORDER DATA

| Mins | | Field | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|
| PF 15 | Rec. | 13339 | 13339 | 3024 | | 13309 |
| SI 30 | Range(Psi ) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 4700.0 |
| SF 45 | Clock(hrs) | 12 HR | 12 | ALP | | 12 HR |
| FS 120 | Depth(ft ) | 4674.0 | 4674.0 | 4707.0 | 0.0 | 4730.0 |

TIME DATA----------
PF Fr. 0435 to 0450 hr
IS Fr. 0450 to 0520 hr
SF Fr. 0520 to 0605 hr
FS Fr. 0605 to 0805 hr

| | Field | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| A. Init Hydro | 2583.0 | 2513.0 | 2468.0 | 0.0 | 2553.0 |
| B. First Flow | 62.0 | 99.0 | 24.0 | 0.0 | 0.0 |
| B1. Final Flow | 62.0 | 85.0 | 34.0 | 0.0 | 0.0 |
| C. In Shut-in | 1331.0 | 1342.0 | 1367.0 | 0.0 | 0.0 |
| D. Init Flow | 83.0 | 99.0 | 37.0 | 0.0 | 0.0 |
| E. Final Flow | 83.0 | 92.0 | 52.0 | 0.0 | 0.0 |
| F. Fl Shut-in | 1331.0 | 1355.0 | 1373.0 | 0.0 | 0.0 |
| G. Final Hydro | 2443.0 | 2431.0 | 2442.0 | 0.0 | 2417.0 |
| Inside/Outside | O | O | I | | S |

T STARTED 0235 hr
T ON BOTM 0433 hr
T OPEN 0435 hr
T PULLED 0805 hr
T OUT 1045 hr

RECOVERY
Tot Fluid 60.00 ft of 60.00 ft in DC and 0.00 ft in DP
60.00 ft of Drilling mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

TOOL DATA----------

| | |
|---|---|
| Tool Wt. | 2000.00 lbs |
| Wt Set On Packer | 30000.00 lbs |
| Wt Pulled Loose | 95000.00 lbs |
| Initial Str Wt | 58000.00 lbs |
| Unseated Str Wt | 58000.00 lbs |
| Bot Choke | 0.75 in |
| Hole Size | 8.88 in |
| D Col. ID | 2.25 in |
| D. Pipe ID | 3.80 in |
| D.C. Length | 532.00 ft |
| D.P. Length | 4132.00 ft |

BLOW DESCRIPTION
Initial Flow:
Weak steady 1/4" blow throughout
Final Flow:
Surge at open - no return blow

MUD DATA----------

| | |
|---|---|
| Mud Type | Chemical |
| Weight | 9.30 lb/ |
| Vis. | 55.00 S/L |
| W.L. | 8.00 in3 |
| F.C. | 0.00 in |
| Mud Drop N | |
| Amt. of fill | 0.00 ft |
| Btm. H. Temp. | 148.00 F |
| Hole Condition | Tight |
| % Porosity | 0.00 |
| Packer Size | 6.75 in |
| No. of Packers | 3 |
| Cushion Amt. | 0.00 |
| Cushion Type | |
| Reversed Out N | |
| Tool Chased N | |
| Tester | Rod Steinbrink |
| Co. Rep. | Kriss Goff |
| Contr. | Murfin |
| Rig # | 3 |
| Unit # | |
| Pump T. | |

SAMPLES:
SENT TO:

Test Successful: Y

*** TOOL DIAGRAM *** CONV STRADDLE

/ELL NAME: Stevens #1-33

.OCATION : 33-1S-39W Cheyenne co KS

'ICKET No. 12000 D.S.T. No. 1 DATE 12-2-99

:OTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

:NTERVAL TOOL ..... 16

3OTTOM PACKERS AND ANCHOR ..... 24

TOTAL TOOL ..... 67

)RILL COLLAR ANCHOR IN INTERVAL .....

).C. ANCHOR STND.Stands Single Total

).P. ANCHOR STND.Stands 1 Single 1 Total 93

TOTAL ASSEMBLY ..... 160

D.C. ABOVE TOOLS.Stands9 Single Total 532

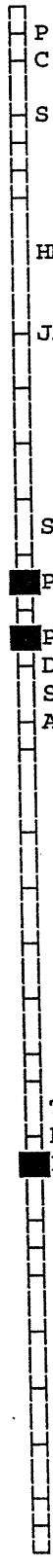
D.P. ABOVE TOOLS.Stands66 Single 1 Total 4132

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4824

TOTAL DEPTH ..... 4803

TOTAL DRILL PIPE ABOVE K.B. ..... 21

REMARKS:



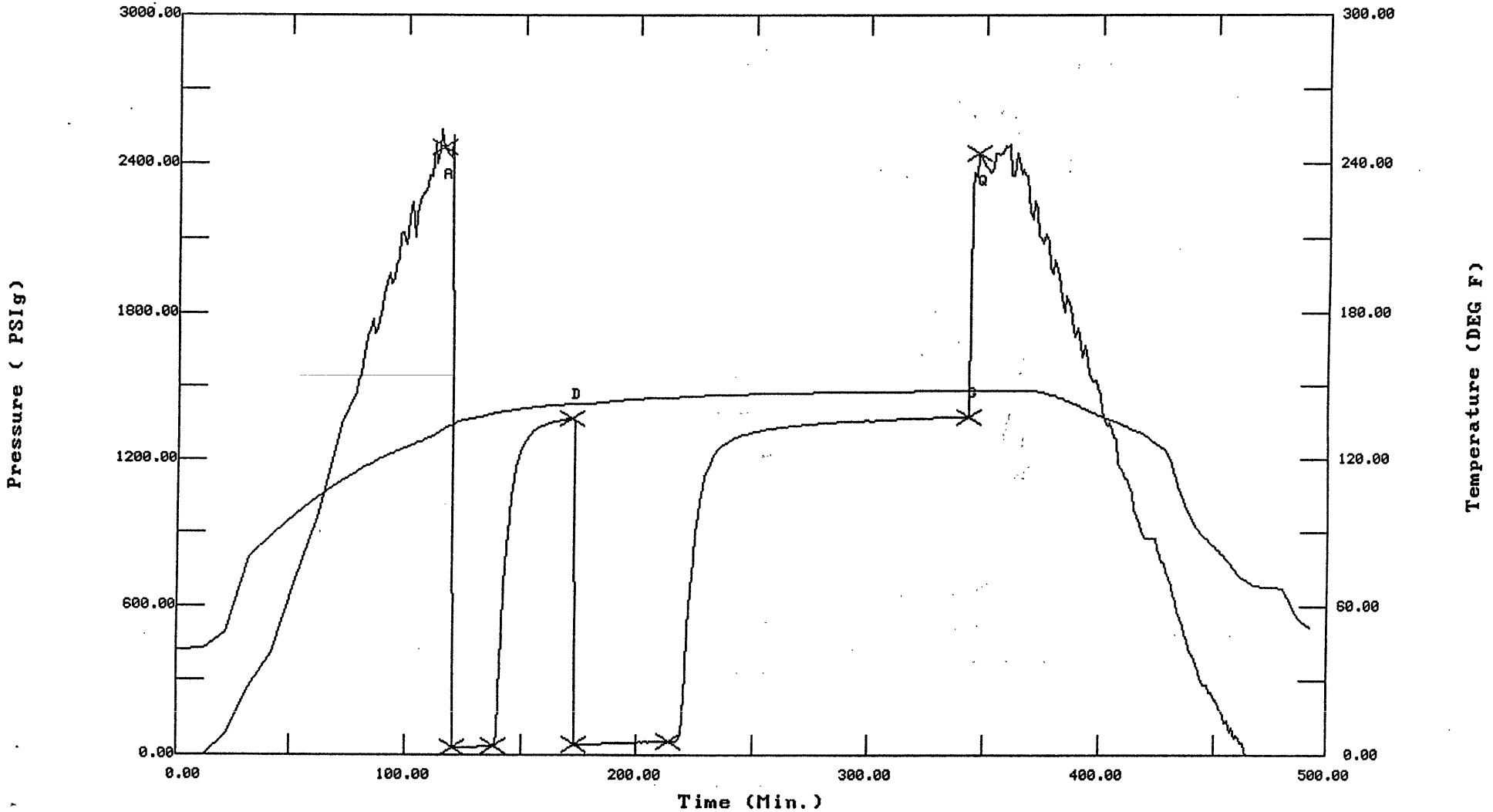
| | |
|---|---|
| P.O. SUB 1' Above 120' DC | 4523 |
| C.O. SUB 1' | 4643 |
| S.I. TOOL 5' | 4649 |
| HMV 5' | 4654 |
| JARS 5' | 4659 |
| SAFETY JOINT 2' | 4661 |
| PACKER 4' | 4665 |
| PACKER 5' | 4670 |
| DEPTH | |
| STUBB 1' | 4671 |
| ANCHOR | |
| ALP Rec. @ | 4674 |
| 3' Perf | 4674 |
| 1' c/o sub | 4675 |
| 31' DP | 4706 |
| AK-1 Rec. @ | 4707 |
| 1' c/o sub | 4707 |
| 5' Perf | 4712 |
| 1' Blank Off Sub | 4713 |
| T.C. 2' | 4715 |
| DEPTH | |
| PACKER 2' | 4717 |
| 1' Stubb | 4718 |
| AK-1 Rec. @ | 4730 |
| 16' Perf | 4734 |
| 1' c/o sub | 4735 |
| 62' DP | 4797 |
| 1' c/o sub | 4798 |
| BULLNOSE 5' | |
| T.D. | 4803 |

# TEST HISTORY

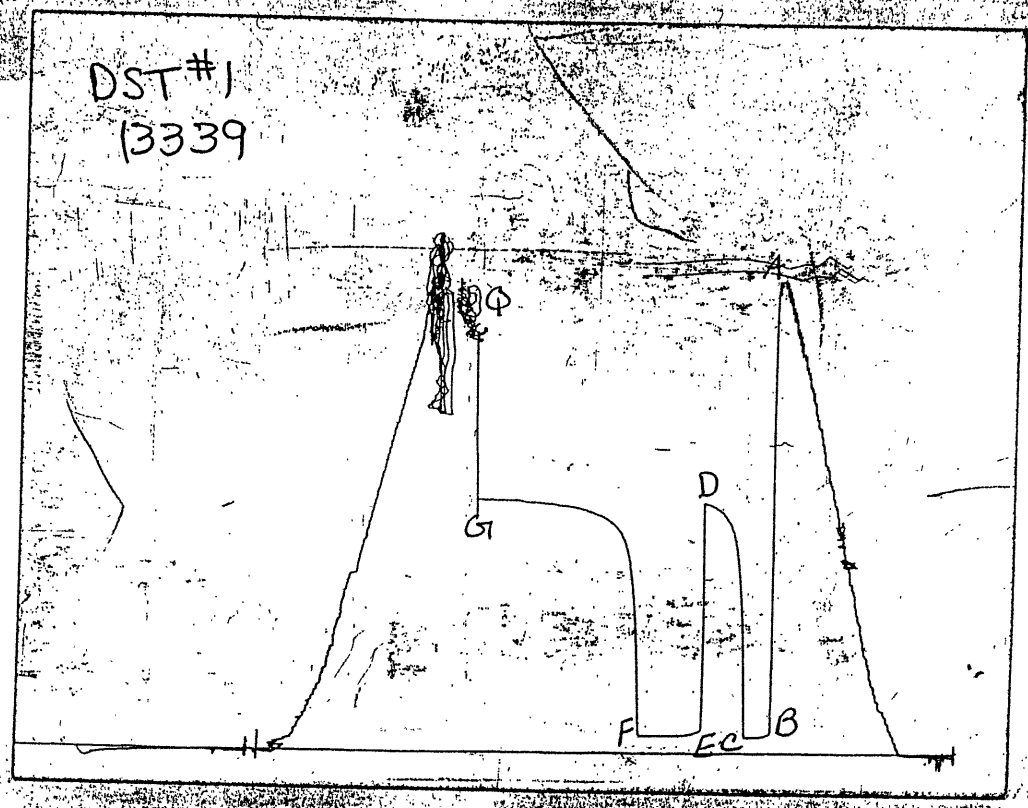
12000 DST #1 Stevens #1-33 DNR Oil & Gas

Flag Points

| | t(Min.) | P( PSIg) |
|---|---|---|
| A: | 0.00 | 2468.10 |
| B: | 0.00 | 24.70 |
| C: | 18.00 | 34.51 |
| D: | 33.00 | 1367.44 |
| E: | 0.00 | 37.09 |
| F: | 41.00 | 52.64 |
| G: | 129.00 | 1373.99 |
| Q: | 0.00 | 2442.55 |

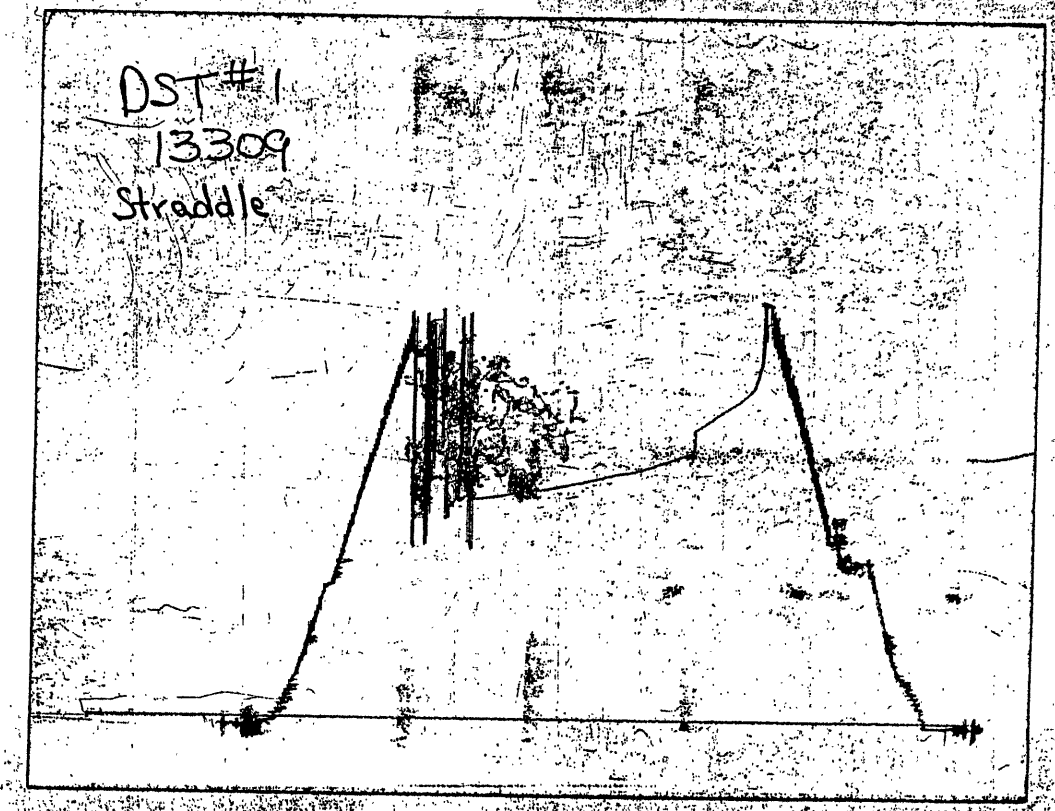


## CHART PAGE




This is a photocopy of the actual AK-1 recorder chart

CHART PAGE




This is a photocopy of the actual AK-1 recorder chart

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 Nº 12000

## Test Ticket

Well Name & No. Stevens #1-33 Test No. 1 Date 12-2-99

Company D N R Oil & Gas Inc. Zone Tested Cherokee

Address 655 Broadway Ste 525 Denver CO. 80203 Elevation 3232 KB 3227 GL

Co. Rep / Geo. Kriss Goff Cont. Murfin #3 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 33 Twp. 1S Rge. 39W Co. Cheyenne State KS.

No. of Copies ___ Distribution Sheet (Y, N) ___ Turnkey (Y, N) ___ Evaluation (Y, N) ___

Interval Tested 4670 - 4717

Anchor Length 47'

Top Packer Depth 4665 - 4670

Bottom Packer Depth 4717

Total Depth (LTD) 4803

Mud Wt. 9.3 LCM 1# Vis. 55 WL 8.0

Blow Description IF: Weak steady 1/4" blow throughout.

FF: Surge at open - no return blow

Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 58,000

Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 95,000

Tool Weight 2,000

Hole Size — 7 7/8" ___ Rubber Size — 6 3/4" ___

Wt. Pipe Run — Drill Collar Run 532' (9)

Drill Pipe Size 4 1/2" XH Ft. Run 4132' (66.1

Recovery — Total Feet 60' GIP — Ft. in DC 60' Ft. in DP —

| | | | | | | |
|---|---|---|---|---|---|---|
| Rec. ___ | Feet Of ___ | %gas | %oil | %water | %mud |
| Rec. ___ | Feet Of ___ | %gas | %oil | %water | %mud |
| Rec. 60' | Feet Of Drlg Mud | %gas | %oil | %water | %mud |
| Rec. ___ | Feet Of ___ | %gas | %oil | %water | %mud |
| Rec. ___ | Feet Of ___ | %gas | %oil | %water | %mud |

BHT 148° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

RW ___ @ ___ °F Chlorides ___ ppm Recovery Chlorides 600 ppm System

| | AK-1 | Alpine | | | | |
|---|---|---|---|---|---|---|
| (A) Initial Hydrostatic Mud | 2583 | 2468 | PSI | Recorder No. | 3024 IB | T-On Location 0001 |
| (B) First Initial Flow Pressure | 62 | 24 | PSI | (depth) | 4674 | T-Started 0235 |
| (C) First Final Flow Pressure | 62 | 34 | PSI | Recorder No. | 13339 O | T-Open 0435 |
| (D) Initial Shut-In Pressure | 1331 | 1367 | PSI | (depth) | 4707 | T-Pulled 0805 |
| (E) Second Initial Flow Pressure | 83 | 37 | PSI | Recorder No. | 13309 S | T-Out 1045 |
| (F) Second Final Flow Pressure | 83 | 52 | PSI | (depth) | 4730 | T-Off Location ___ |
| (G) Final Shut-in Pressure | 1331 | 1373 | PSI | Initial Opening | 15 | Test ___ |
| (Q) Final Hydrostatic Mud | 2443 | 2442 | PSI | Initial Shut-in | 30 | Jars X |
| | | | | Final Flow | 45 | Safety Joint X |
| | | | | Final Shut-in | 120 | Straddle X |
| | | | | | | Circ. Sub X N/C |
| | | | | mileage 145 | | Sampler ___ |
| | | | | | | Extra Packer X |
| | | | | | | Elec. Rec. X |
| | | | | | | Mileage ___ |
| | | | | | | Other ___ |
| | | | | | | TOTAL PRICE $ ___ |



Approved By ___

Our Representative Rod Steinbrink

# TRILOBITE TESTING L.L.C.

OPERATOR : D N R Oil & Gas Inc. DATE 12-2-99
WELL NAME: Stevens #1-33 KB 3232.00 ft TICKET NO: 11601 DST #2
LOCATION : 33-1S-39W Cheyenne co KS GR 3227.00 ft FORMATION: Oread
INTERVAL : 4094.00 To 4136.00 ft TD 4803.00 ft TEST TYPE: CONV STRADDLE

RECORDER DATA

| | Mins | | Field | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|---|---|
| PF | 15 | Rec. | 13339 | 13339 | 3024 | | 13309 |
| SI | 30 | Range(Psi ) | 4025.0 | 4025.0 | 4995.0 | 0.0 | 4700.0 |
| SF | 15 | Clock(hrs) | 12 HR | 12 | ALP | | 12 Hr |
| FS | 30 | Depth(ft ) | 4125.0 | 4125.0 | 4100.0 | 0.0 | 4140.0 |

TIME DATA----------
PF Fr. 1325 to 1340 hr
IS Fr. 1340 to 1420 hr
SF Fr. 1420 to 1435 hr
FS Fr. 1435 to 1455 hr

| | Field | 1 | 2 | 3 | 4 |
|---|---|---|---|---|---|
| A. Init Hydro | 2223.0 | 2225.0 | 2262.0 | 0.0 | 2218.0 |
| B. First Flow | 729.0 | 751.0 | 659.0 | 0.0 | 0.0 |
| B1. Final Flow | 1000.0 | 991.0 | 1058.0 | 0.0 | 0.0 |
| C. In Shut-in | 1321.0 | 1330.0 | 1358.0 | 0.0 | 0.0 |
| D. Init Flow | 1170.0 | 1180.0 | 1090.0 | 0.0 | 0.0 |
| E. Final Flow | 1210.0 | 1220.0 | 1255.0 | 0.0 | 0.0 |
| F. Fl Shut-in | 1341.0 | 1333.0 | 1361.0 | 0.0 | 0.0 |
| G. Final Hydro | 2133.0 | 2130.0 | 2141.0 | 0.0 | 2171.0 |
| Inside/Outside | O | O | I | | S |

T STARTED 1125 hr
T ON BOTM 1323 hr
T OPEN 1325 hr
T PULLED 1455 hr
T OUT 1800 hr

TOOL DATA----------

| | |
|---|---|
| Tool Wt. | 3000.00 lbs |
| Wt Set On Packer | 30000.00 lbs |
| Wt Pulled Loose | 90000.00 lbs |
| Initial Str Wt | 58000.00 lbs |
| Unseated Str Wt | 76000.00 lbs |
| Bot Choke | 0.75 in |
| Hole Size | 8.88 in |
| D Col. ID | 2.25 in |
| D. Pipe ID | 3.80 in |
| D.C. Length | 532.00 ft |
| D.P. Length | 3547.00 ft |

RECOVERY
Tot Fluid 2580.00 ft of 532.00 ft in DC and 2048.00 ft in DP
2108.00 ft of Drilling mud
472.00 ft of Slight mud cut water 85% water 15%mud
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of
0.00 ft of RW .20 @ 65 deg =
SALINITY 40000.00 P.P.M. A.P.I. Gravity 0.00

MUD DATA----------

| | |
|---|---|
| Mud Type | Chemical |
| Weight | 9.30 lb/c |
| Vis. | 55.00 S/L |
| W.L. | 8.00 in3 |
| F.C. | 0.00 in |
| Mud Drop Y | 20.0 ft |
| Amt. of fill | 0.00 ft |
| Btm. H. Temp. | 0.00 F |
| Hole Condition | Fair |
| % Porosity | 0.00 |
| Packer Size | 6.75 in |
| No. of Packers | 3 |
| Cushion Amt. | 0.00 |
| Cushion Type | |
| Reversed Out | Y |
| Tool Chased | N |
| Tester | Rod Steinbrink |
| Co. Rep. | Kriss Goff |
| Contr. | Murfin |
| Rig # | 3 |
| Unit # | |
| Pump T. | |

BLOW DESCRIPTION
Initial Flow:
Strong blow off bottom in 1 min.
Initial Shut-in:
No return blow
Final Flow:
Fair to strong blow off bottom in 2 mins.
Final Shut-in:
No return blow

SAMPLES:
SENT TO:

Test Successful:

*** TOOL DIAGRAM *** CONV STRADDLE

WELL NAME: Stevens #1-33

LOCATION : 33-1S-39W Cheyenne co KS

TICKET No. 11601 D.S.T. No. 2 DATE 12-2-99

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 27

INTERVAL TOOL ..... 42

BOTTOM PACKERS AND ANCHOR ..... 16

TOTAL TOOL ..... 85

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands 10 Single 1 Total 651

TOTAL ASSEMBLY ..... 736

D.C. ABOVE TOOLS.Stands9 Single Total 532

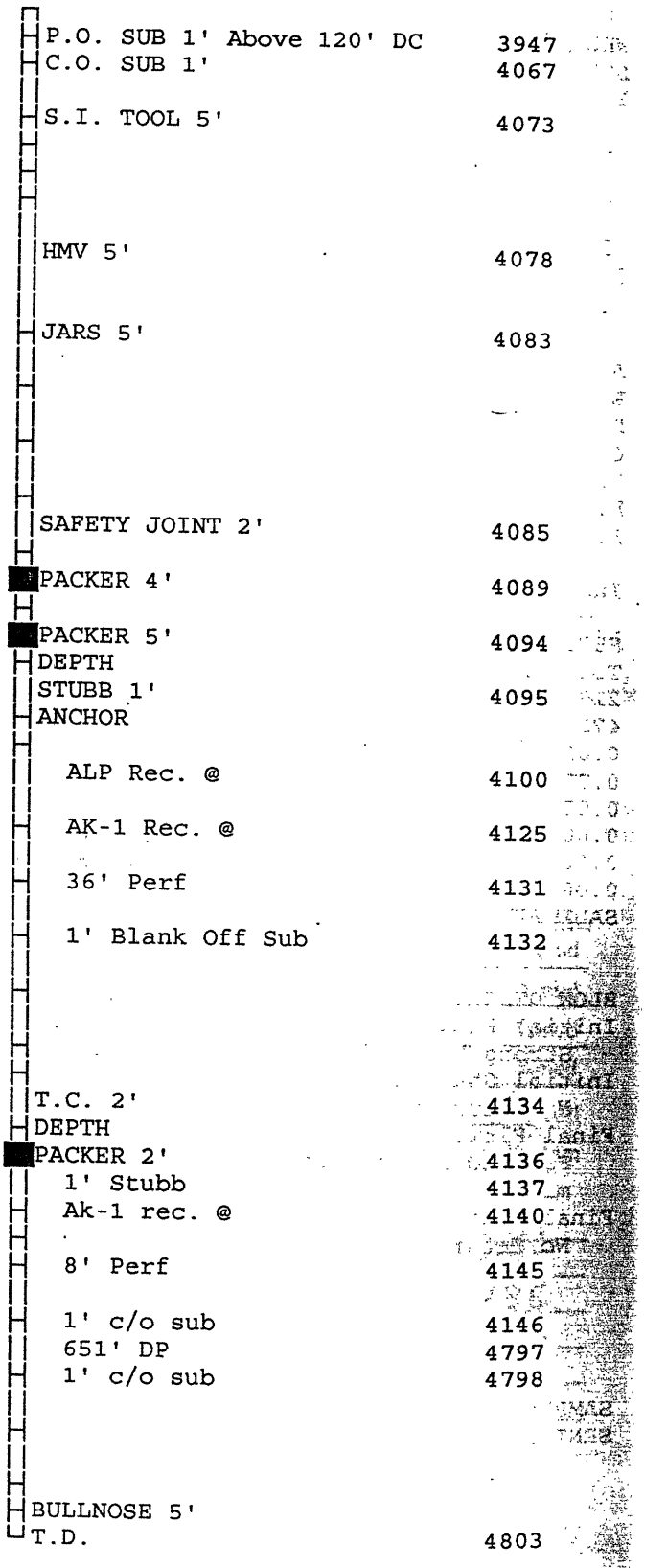
D.P. ABOVE TOOLS.Stands57 Single Total 3547

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4815

TOTAL DEPTH ..... 4803

TOTAL DRILL PIPE ABOVE K.B. ..... 12

REMARKS:

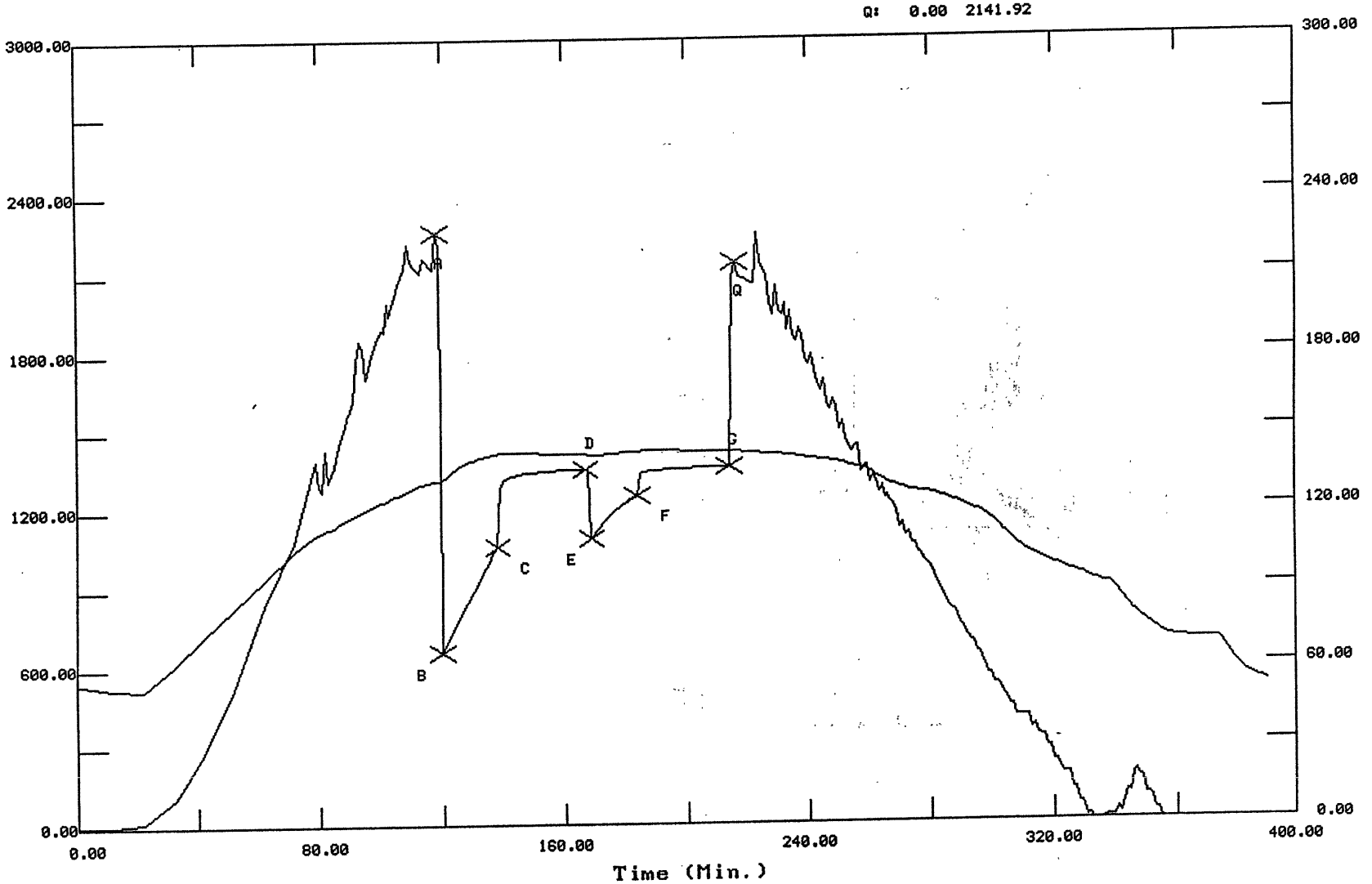


# TEST HISTORY

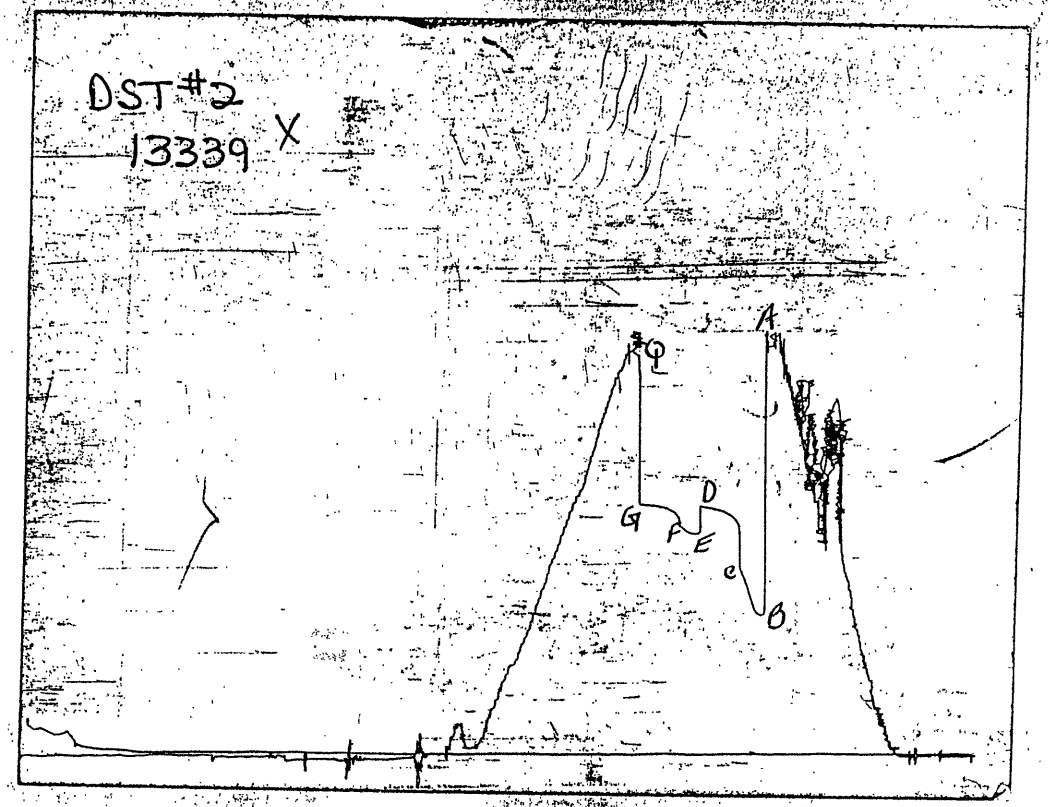
11601 DST #2 Stevens #1-33 DNR Oil & Gas Inc.

Flag Points

| | t(Min.) | P( PSIg) |
|---|---|---|
| A: | 0.00 | 2262.88 |
| B: | 0.00 | 659.02 |
| C: | 18.00 | 1058.32 |
| D: | 29.00 | 1358.05 |
| E: | 0.00 | 1090.53 |
| F: | 15.00 | 1255.43 |
| G: | 30.00 | 1361.90 |
| Q: | 0.00 | 2141.92 |

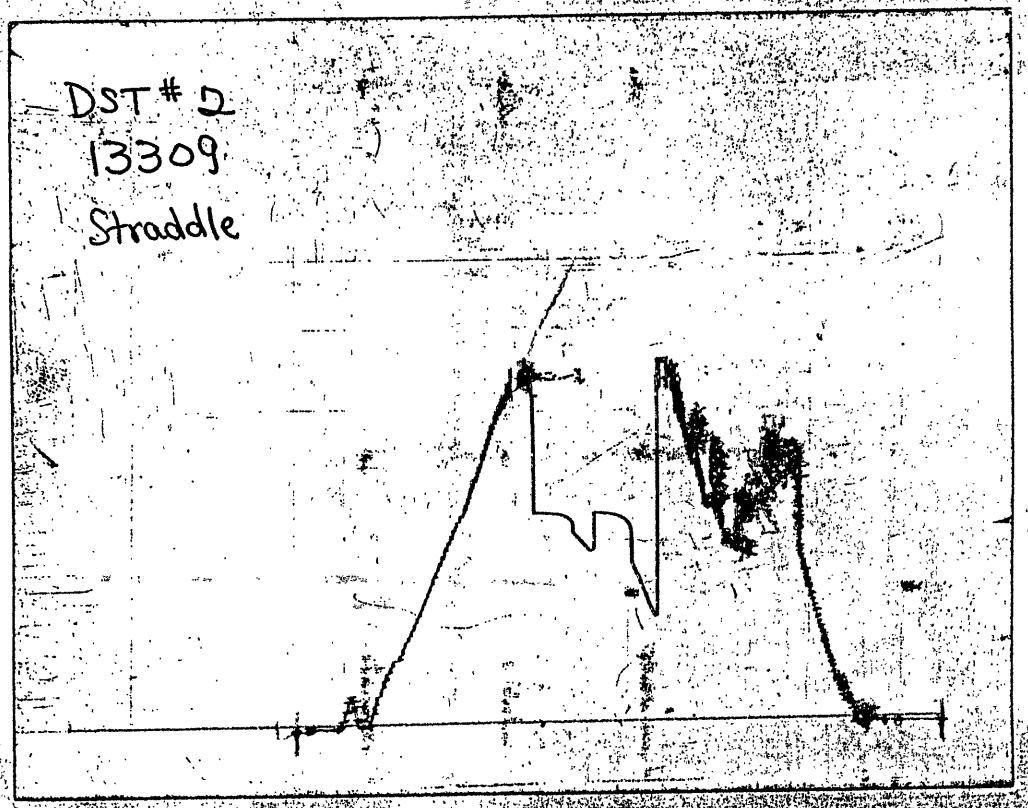


## CHART PAGE




This is a photocopy of the actual AK-1 recorder chart

CHART PAGE




This is a photocopy of the actual AK-1 recorder chart

# TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

## Test Ticket

№ 11601

Well Name & No. Stevens #1-33 Test No. 2 Date 12-2-99

Company D N R Oil & Gas Inc. Zone Tested Dread

Address 655 Broadway Ste. 525 Denver CO. 80203 Elevation 3232 KB 3227 GL

Co. Rep / Geo. Kriss Goff Cont. Murfin #3 Est. Ft. of Pay ___ Por. ___ %

Location: Sec. 33 Twp. 1S Rge. 39W Co. Cheyenne State KS

No. of Copies 8 Distribution Sheet (Y, N) Y Turnkey (Y, N) N Evaluation (Y, N) ___

Interval Tested 4094 - 4136

Anchor Length ___

Top Packer Depth 4089 - 4094

Bottom Packer Depth 4136

Total Depth (LTD) 4803

Mud Wt. 9.3 LCM 1# Vis. 55 WL 8.0

Initial Str Wt./Lbs. 58,000 Unseated Str Wt./Lbs. 76,000

Wt. Set Lbs. 30,000 Wt. Pulled Loose/Lbs. 90,000

Tool Weight 3,000

Hole Size — 7 7/8" ___ Rubber Size — 6 3/4" ___

Wt. Pipe Run — Drill Collar Run 532' (9

Drill Pipe Size 4 1/2" XH Ft. Run 3547' (5

Blow Description IF: Strong blow off bttm in 1 min.

ISI: No return blow

FF: Fair to strong blow off bttm in 2 mins.

FSI: No return blow.

Recovery — Total Feet 2580' GIP — Ft. in DC 532' Ft. in DP 2048

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Rec. ___ | Feet Of ___ | %gas | %oil | %water | %mud |
| Rec. 2108' | Feet Of Mud | %gas | %oil | %water | %mud |
| Rec. ___ | Feet Of ___ | %gas | %oil | %water | %mud |
| Rec. 472' | Feet Of SMCW | %gas | %oil | 85 %water | 15 %mud |
| Rec. ___ | Feet Of ___ | %gas | %oil | %water | %mud |

BHT 142° °F Gravity ___ °API D@ ___ °F Corrected Gravity ___ °API

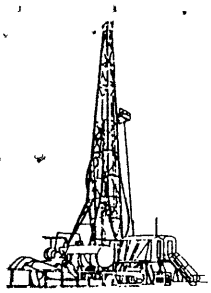
RW .20 @ 65° °F Chlorides 40,000 ppm Recovery Chlorides 600 ppm System

| | AK-1 | Alpine | | | | | |
|---|---|---|---|---|---|---|---|
| (A) Initital Hydrostatic Mud | 2223 | 2262 | PSI | Recorder No. | 3024 | T-On Location | ___ |
| (B) First Initial Flow Pressure | 729 | 659 | PSI | (depth) | 4100 | T-Started | 1125 |
| (C) First Final Flow Pressure | 1000 | 1058 | PSI | Recorder No. | 13339 | T-Open | 1325 |
| (D) Initial Shut-In Pressure | 1321 | 1358 | PSI | (depth) | 4125 | T-Pulled | 1455 |
| (E) Second Initial Flow Pressure | 1170 | 1090 | PSI | Recorder No. | 13309 | T-Out | 1800 |
| (F) Second Final Flow Pressure | 1210 | 1255 | PSI | (depth) | 4140 | T-Off Location | 1930 |
| (G) Final Shut-in Pressure | 1341 | 1361 | PSI | Initial Opening | 15 | Test | ___ |
| (Q) Final Hydrostatic Mud | 2133 | 2141 | PSI | Initial Shut-in | 30 | Jars | X |
| | | | | Final Flow | 15 | Safety Joint | X |
| | | | | Final Shut-in | 30 | Straddle | X |
| | | | | | | Circ. Sub | X N/C |
| | | | | | | Sampler | ___ |
| | | | | | | Extra Packer | X |
| | | | | | | Elec. Rec. | X |
| | | | | | | Mileage | ___ |
| | | | | | | Other | ___ |
| | | | | | | TOTAL PRICE $ | ___ |



Approved By ___

Our Representative Rod Steinbrink



ORIGINAL

**Christopher P. Gough**
*Petroleum Geologist*

**Wellsite Geological Consulting & Well Logging**

**Geological Well Report**

# DNR OIL & GAS COMPANY

# STEVENS #1-33

**2,510' FSL 2310' FWL**
**APPROX. NE NE SW**
**Section 33 - Township 1 South - Range 39 West**

**Cheyenne County, Kansas**

**December 8th, 1999**

**Christopher P. Gough**
**Geologist**

1645 Court Place
Suite 235
Denver, Colorado 80202

Office: (303) 893-9020 • Fax: (303) 893-9020

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ORIGINAL

**RESUME**

| | |
|---|---|
| OPERATOR: | DNR Oil & Gas Company |
| WELL NAME: | Stevens #1-33 |
| LOCATION: | 2510' FSL, 2310' FWL<br>Section 33-1s-39w<br>Cheyenne County, Kansas. |
| CONTRACTOR:<br>COMPANY PERSONNEL: | Murfin Drilling Co. Rig #3<br>Charles B. Davis - DNR |
| SPUD DATE:<br>COMPLETION DATE: | 11-22-99 @ 5:45 PM<br>12-3-99 |
| WELLSITE GEOLOGIST:<br>L.T.D. / RTD | Chris Gough<br>4803' / 4800' |
| TESTING: | Two Tests taken |
| DRILLING FLUID/ ENGINEER: | Morgan Mud Inc./ Dave Lines |
| SURFACE CASING: | 8 5/8" Set @ 238.34' |
| ELECTRIC LOGS: | ELI WIRELINE SERVICES<br>Dual Induction guard log,<br>Compensated Neutron/Density Log<br>Micro Log |
| TOTAL DEPTH FORMATION:<br>SAMPLES SAVED:<br>SAMPLES EXAMINED:<br>SAMPLES: | "Cherokee"<br>3800'- 4800'<br>3900' - 4800'<br>Stored @ KGS |
| ELEVATIONS: | G.L. 3227' K.B. 3232' |
| API # | 15-02361-0000 |
| WELL STATUS: | Dry and Abandoned. |

## DAILY DRILLING CHRONOLOGY

11-22-99 Spud well 5:45 pm and drilled 12-1/4" hole to 245' and ran 6 jts 23# 8 5/8" surf. csg. set at 238.34' and cemented with 180 sxs, 60/40 Poz. lead cement. Cir. cement and plug down @ 11:30 pm. Ran dev. survey @ 245', 1/2 deg.

11-23-99 WOC 245'

11-24-99 7:00 am drilling at 1835', made 1590'. in 24 hrs. Drill out plug @ 11:00am WOB 25K, RPM 120, PP 800#, SPM 64

11-25-99 7:00 am Wait on holiday at 2005', made 170' in 3 hrs. TOOH @ 10:30 am on 11-24-99, Mw 8.7, Vis. 28, LCM 2# Ran surv. at 2005', 1/2 deg.

11-26-99 Shut down for the holiday.

11-27-99 7:00 am drilling. at 3010', made 1050' in 201\4 hrs. MW 8.7 VIS 38, LCM 4# Geologist on location 3680'. Sample tops: Anhydrite 3200' +32, B/Anhy 3235' -3

11-28-99 7:00 am drilling at 3770' made 760' in 24/hrs. Mw 8.8, Vis 38, LCM 2#,

11-29-99 7:00 am drilling at 4170' made 400' in 21 1/2/hrs. Mw 9.3, Vis51, WL 8.0, Chlor 600 ppm, Lcm 3#. Sample tops: Howard 4038' -806, Topeka 4076' -844, Heebner 4166' -934. Sli. sample show 4120-30'.

11-30-99 7:00 am 4485', Made 315' in 20/hrs. Mw 9.2, Vis 52, Chlor. 600 ppm,WL 8.4, LCM 2#, Sample tops: Lansing 4202' -970, B/KC 4472' -1240

12-1-99 7:00 am 4755' Made 270' in 20/hrs. Mw 9.2, Vis 52, WL 8.4, Chlor. 600 ppm. LCM 2#, Sample Tops: Marm. 4498' -1266, Pawnee 4579' -1347, Ft. Scott 4621' -1389, Cherokee 4650' -1418. Drill to T.D. @ 4800', Cir. hole, Short trip to clean hole, Call E.L.I. logging.

12-2-99 RTD 4800', LTD 4803' Ran Electric logs DIL,CNL/CDL, MIROLOG. Review logs w/ company personal and decide to test Cherokee lime. Call in Trilobite Testing. Run straddle test, DST #1 4670'-4717' Recovered 60' drilling mud. ( See Drill Stem Test for details). Run DST #2 From 4094'-4136' (OREAD) Lower packer failed. Recovered 2108' mud, 472' smcw.( See Drill Stem Test for details). Contact operator with test results. Operator elects to P&A. Give plugging orders to drilling contractor.

12-3-99 P&A well w/ 100 sax. @ 2425', 40 sax. @ 300', 10 sax @ 40' and 15 sax. in rathole. Finish P&A @3:30 am 12-3-99. Orders from Herb Deines, KCC, Hays Kansas.

**FORMATION TOPS:**

| FORMATION | SAMPLE TOP | DNR Stevens #1-33 KB. 3232' E-LOG TOP | E-LOG DATUM | "A" Kern #1 Galvin / Vess Gorthy owwo KB. 3204' DIFF. TO REF.WELL "A" |
|---|---|---|---|---|
| STONE CORRAL | 3200' | 3200' | +32 | -7 |
| B/ STONE CORRAL | 3235' | 3235' | -3 | -7 |
| HOWARD | 4038' | 4035' | -803 | -5 |
| TOPEKA | 4076' | 4076' | -844 | -4 |
| OREAD | 4119' | 4121' | -889 | -7 |
| HEEBNER | 4166' | 4164' | -932 | -6 |
| LANSING | 4202' | 4202' | -970 | -6 |
| B/KC | 4472' | 4468' | -1236 | -2 |
| MARMATON | 4498' | 4500' | -1268 | -4 |
| PAWNEE | 4590' | 4582' | -1350 | -6 |
| FT. SCOTT | 4621' | 4620' | -1388 | -4 |
| CHEROKEE | 4650' | 4653' | -1421 | -7 |
| 2ND CK | 4676' | 4680' | -1448 | -6 |
| 3RD CK | 4706' | 4708' | -1476 | -4 |
| 4TH CK | 4744' | 4745' | -1513 | -3 |
| RTD | 4800' | | | |
| LTD | | 4803' | | |

**BIT RECORD:**

| NUMBER | SIZE | MAKE | TYPE | DEPTH-OUT | FOOTAGE | HRS |
|---|---|---|---|---|---|---|
| 1 | 12 1/4" | HUGHS | J-1 | 245' | 245' | 5.75 |
| 2 | 7 7/8" | SEC. | PSF-RR | 2005' | 1760' | 18.75 |
| 3 | 7 7/8" | SMITH | F15HT | 4803' | 2798' | 135 |

---

**DEVIATION RECORD:** Single Shot Survey

| DATE | SURVEY DEPTH | DEVIATION ( degrees) |
|---|---|---|
| 11-22-99 | 245' | 0 30' |
| 11-24-99 | 2005' | 0 30' |
| 12-1-99 | 4800' | 0 30' |

**MUD PROPERTIES:**

| DATE | DEPTH | WT. lbs. | VISCOSITY | FILTRATE | PH | CHLOR. | CAL. |
|---|---|---|---|---|---|---|---|
| 11-23-99 | 245' | waiting on cement | | | | | |
| 11-24-99 | 1835' | water | | | | | |
| 11-25-99 | 2005' | water | | | | | |
| 11-26-99 | 2005' | shut down for holiday | | | | | |
| 11-27-99 | 3010' mud-up | 8.7 @ 3850' | 38 | 4# LCM | | | |
| 11-28-99 | 3992' | 9.0 | 41 | 9.2 | 10.0 | 600 | 10 |
| 11-29-99 | 4160' | 9.3 | 51 | 8.0 | 10.0 | 600 | 10 |
| 11-29-99 | 4316' | 9.3 | 51 | 8.8 | 9.5 | 600 | 20 |
| 11-30-99 | 4473' | 9.2 | 52 | 8.4 | 9.5 | 600 | 20 |
| 11-30-99 | 4641' | 9.3 | 53 | 8.8 | 9.5 | 600 | 50 |
| 12-1-99 | 4740' | 9.3 | 55 | 8.0 | 9.5 | 600 | 30 |
| 12-2-99 | 4800' | 9.3 | 55 | 8.0 | 9.5 | 600 | 30 |

---

**REFERENCED WELLS:**

REFERENCED WELL "A" : **KERN DRILLING CO. / GALVIN #1**
C SE NE
SECTION 33-T1s-R39w
Cheyenne County, Kansas.
R.B. 3207'
T.D. 4789'
Status: D&A

**OWWO**

**VESS OIL CORP. GORTHY #1-33**
RE-ENTERED 6-15-93
RAN ONE DST
P&A ON 6-17-93
K.B. 3204'
T.D. 4990'

---

**DRILL STEM TESTS:**
Trilobite testing, Hays, Kansas. Rod Steinbrink, Engineer.

**DST #1 4670-4717' ( Straddle) "Cherokee" 15-30-45-120**
I.O weak steady 1/4" blow throughout F.F Surge at open - no return.
**Recovery: 60' Drilling mud, BHT: 148 deg.**
IHYDRO 2468#
FHYDRO 2442#
IFP 24-34# FFP 37-52#
ISIP 1367# FSIP 1373#

**DST #2 4094-4136' ( Straddle) "Oread" 15-30-15-30**
I.O Strong blow off bottom in 1 min. F.F Strong blow off the bottom in 2 min.
Bottom Packer failed
**Recovery: 2108' Drilling mud, 472' Sli mud cut water**
IHYDRO 2262#
FHYDRO 2141#
IFP 659-1058# FFP 1090-1255#
ISIP 1358# FSIP 1361#

## ZONES OF INTEREST

**Lithologic and show Descriptions:**

**Pennsylvanian System**

TOPEKA E-log depth 4076' -844

The samples observed in the Topeka formation consisted of tan to light brown micro crystalline limestone with a small amount of inter crystalline and pinpoint porosity. This limestone occasionally appeared as a soft white chalky to very fine crystalline lime with fair - poor visual porosity. The Topeka limestone bench from 4077'-4181' had a good drilling break from 4 min/ft to 2 min/ft. and samples were circulated at 4084' This limestone interval appeared as tan to buff, micro crystalline, occasional shell fragments, slightly to very argillaceous with fair to poor visual inter crystalline porosity. A very few pieces 2-3 with a dark black dead oil stain, no to weak light yellow fluorescence, and no cut was observed in this limestone. Samples were only fair quality due to abundant red beds and uphole cavings.

OREAD E-log depth 4121 -889

This limestone formation was described as white - off white occ. buff, micro crystalline with a small amount of vugular porosity, occ. chalky i.p., fair visual vuggy porosity was noted, w/ a few pieces containing a spotty dark black oil stain. light yellow fluorescence, slow strem cut, good residual hallow. A drilling break from 4 min/ft to 2 min/ft. occurred from 4120'-26'. A straddle test was attempted across this zone yet recovered water due to a packer failure. (See DST'S page 6)

LANSING E-log depth 4202' -970

The Lansing formation predominantly contained a series of light gray to dark gray shales and dense, micro crystalline, mod.- well cemented limestones with poor visual inter crystalline porosity and barren of any shows of hydrocarbons. These limestones occasionally appeared very chalky and soft with poor visual porosity. A small amount of oolitic limestone was noted yet contained an abundant amount of white to light gray calcareous cement. A drilling break from 4min/ft down to 1min/ft. was noted in this section from 4249'-52' and 4276'-80'. Samples were circulated at 4290' and contained tan to light brown, micro crystalline sli. oolitic limestone. This limestone occasionally appeared very slightly fossiliferous with a moderate to abundant amount of gray-white calcareous cement. This micro crystalline limestone exhibited only fair visual porosity. A dead oil stain was noted on 1-2 pcs with no fluorescence observed. Sample quality was fair - good through this formation.

MARMATON E-log depth 44500' -1288

The Marmaton formation in this well consisted predominantly of tight limestone described as, tan to brown occ. white, micro crystalline, slightly oolitic with abundant well

cemented calcareous matrix and poor visual inter crystalline porosity. Occasionally this limestone contained a moderate amount of shell fragments. An interval from 4558'- 62' and 4566'-72' had a fair drilling break down to 2min/ft. and contained an argillaceous limestone mod. chalky exhibiting fair - poor visual inter- crystalline porosity. This zone also contained a small amount of Chert described as tan to opaque, slightly blocky and sharp. No stain and no fluorescence was observed in this section.

**Mid-Lower Pennsylvanian**

CHEROKEE FORMATION E -log depth 4653'-1421 to 4745' -1513 a 92' section

The Cherokee Formation in this well was contained three limestone benches all of which had only moderate drilling breaks which all were circulated bottoms up. The first Cherokee developed from 4653'- 4680'. Samples were described as Limestone white-tan, micro crystalline, occ. granular, with abundant calcareous matrix, micro oolitic i.p., mod. dense, very sli amount of fossil fragments and mod- abn chert. Fair- poor inter crystalline porosity and no shows for hydrocarbons. The second limestone bench from 4680'-4708' had a very thin drilling break from 4683'-85' at 1min/ft. These samples were described as Limestone, white-tan, micro crystalline, occ. chalky, sli amount of micro oolitic, sli silty i.p fair-poor visual inter crystalline porosity. 1-2 pcs with a spotty black oil stain, no fluorescence, no cut. The third limestone drilled hard with most of the section drilling at 3-5min/ft. from 4708'- 4745'. The limestone in this zone was described as white-tan, crystalline, dense, with an increase in fossil fragments. No shows were observed.
A straddle test was run from 4670'- 4717' and recovered 60' drilling mud.( See page 6 for details).

## SUMMARY & CONCLUSIONS

The Steven's #1-33 was commenced on 11-22-99 and drilled to a total depth of 4800'(R.T.D.), and plugged as a dry hole on 12-3-99.

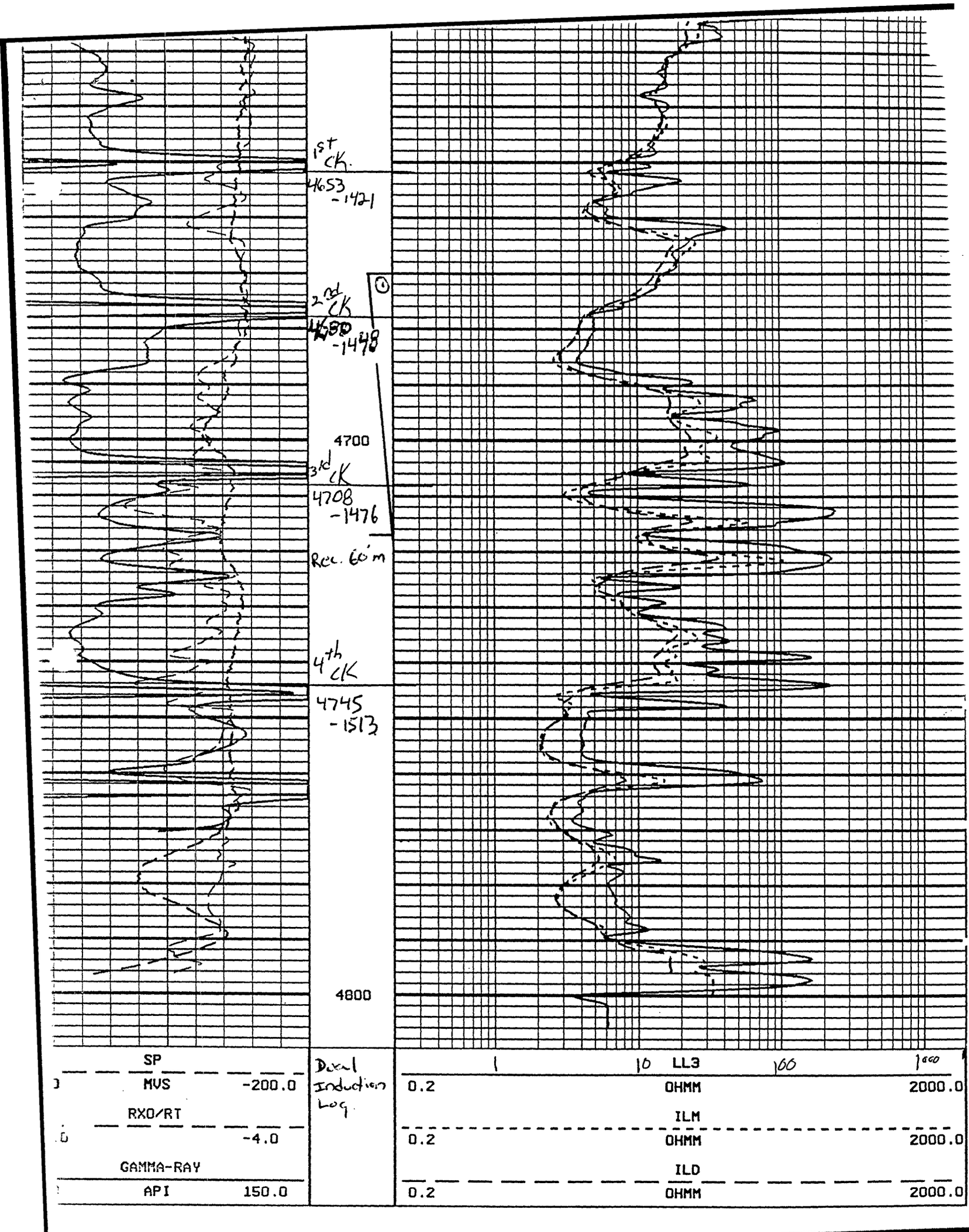
The main objective of this test well was Pennsylvanian age Cherokee limestone, secondary objectives were the Lansing Formation limestones and Marmaton limestones. The Steven's #1-33 is located in northern Cheyenne County, Kansas, approximately 18 miles east of the Kansas/ Colorado stateline and 5 1/2 miles south of the Nebraska border.

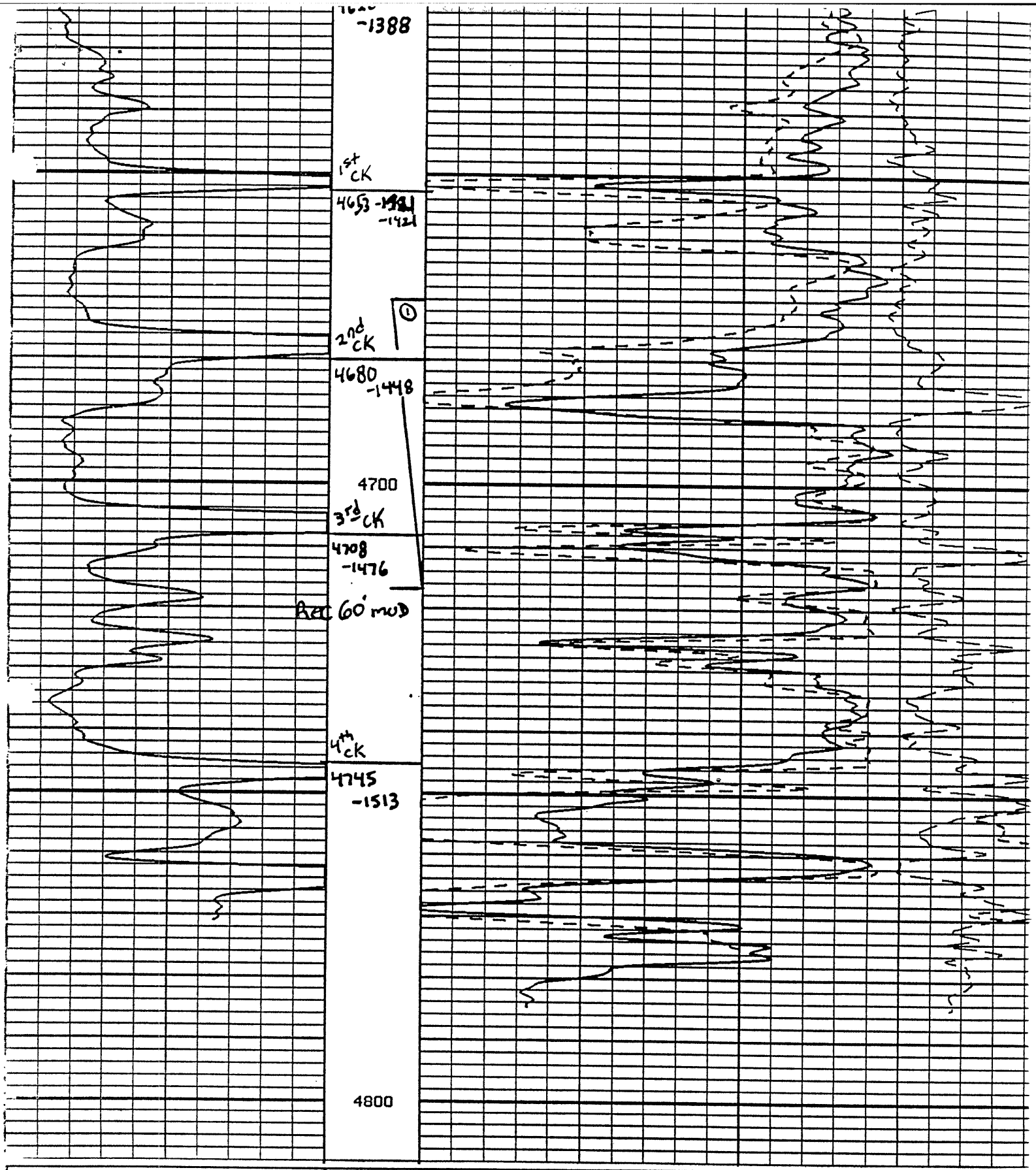
This prospect was based on log character in the nearby Kern Drilling Company #1 Calvin well drilled in 1960. This well which was re-entered and plugged in 1993 by Vess Oil Company exhibited a similar log reading in the Cherokee section as is observed in productive wells found in the Celia field to the south. Celia field has produced over two million barrels of oil from the Cherokee section.

The wells used for correlation in the drilling of the Steven's #1-33 were the Kern Drilling #1 Calvin located in the se ne section 33-1s-39w and the B F Brock, Judy well located in the se nw section 26-1s-39w.

The Steven's well ran structurally 7' low to the Kern Drilling #1 Calvin well at the top of the Oread formation which contained a slight drilling break from 4120'-26'. This interval was described as a white slightly vugular limestone with a minor show of oil. Operator elected to continue drilling and review on electric logs. The Lansing formation developed 6 feet low to the Kern well and contained only a minor amount of porous limestone with no shows of oil observed. Limestones of the Marmaton and Pawnee formations appeared moderately dense with no shows of oil present. The Cherokee formation had minor thin drilling breaks which were all circulated for samples yet contained only fair quality reservoir rock and only a very few pieces of limestone with a spotty black oil stain.(See pages 7&8 for detailed lithologic descriptions). Company personal elects to continue drilling to 4800' (T.D) and run electric logs. After review of logs it was decided to run two saddle tests. DST #1 was run across the 2nd and 3rd Cherokee zones and recovered 60' of drilling mud with high shut-in pressures indicating it may be close to a charged reservoir. DST #2 was run across the Oread formation. This test had a packer fail and recovered water which probably came from a porous sand at the bottom of the hole. (See page 6 for DST details).

Due to the lack of any significant sample shows, negative log calculations and lack of hydrocarbons on test results, this well was plugged and abandoned. Plugging orders were given on 12-3-99.

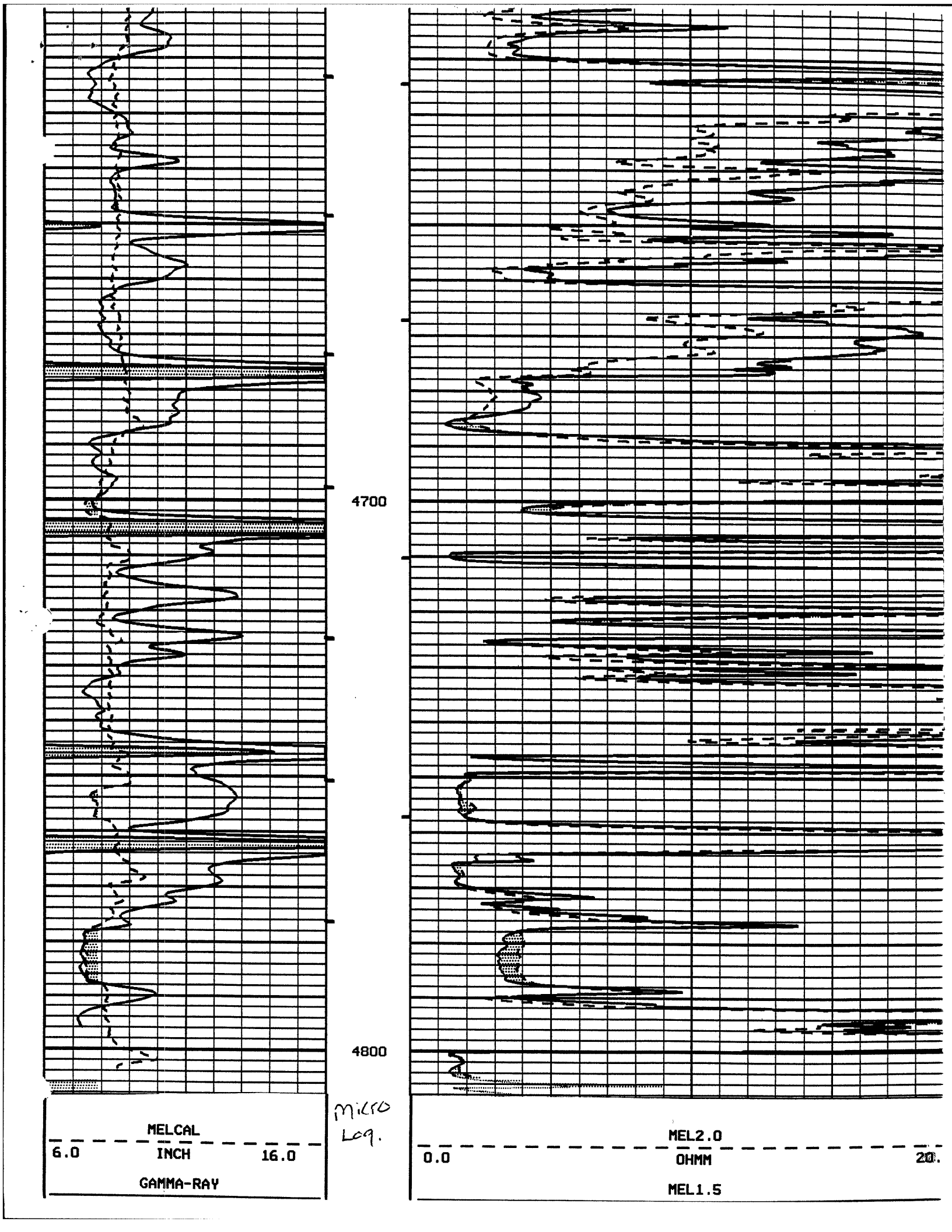

1st CK.
4653
-1421
2nd CK
4680
-1448
4700
3rd CK
4708
-1476
Rec. 60'm
4th CK
4745
-1513
4800
SP
MVS
-200.0
RXO/RT
-4.0
GAMMA-RAY
API
150.0
Dual Induction Log
1
10
LL3
100
1000
0.2
OHMM
2000.0
ILM
0.2
OHMM
2000.0
ILD
0.2
OHMM
2000.0




CALIPER
6.0 inch 16.0
GAMMA-RAY
0.0 API 150.0

Neutron Density Log.

CORR
-0.25 0.25
DENSITY
30.0 PORO. -10.
NEUTRON
30.0 PORO. -10.


4700
4800
MELCAL
6.0
INCH
16.0
GAMMA-RAY
micro
Log.
MEL2.0
0.0
OHMM
20.
MEL1.5