

13-35-55W

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COLO. OIL & GAS CONS. COMM.

LIBERTY TESTERS INC.

DRILL STEM TEST REPORT



| | |
|-----|---|
| MRG | 7 |
| PIP | |
| PM | |
| IAN | |
| ROC | |
| ED | |



00400478

STERLING, COLORADO

303-522-7025

J. W. NYLUND ETAL---GADE #1---DST #1---TICKET # 1801

BOTTOM CHART BLANKED OFF IN FLOW STREAM----GAUGE # 10246

A---I HYDRO---2434 psi

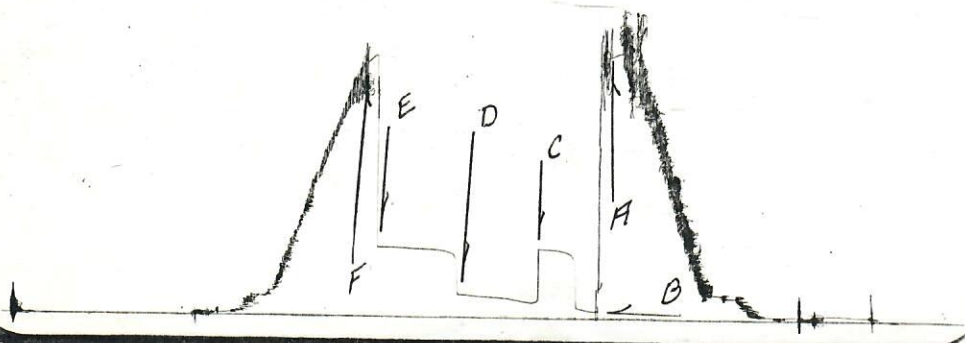
B---I FLOW--- 62 "

C---ISIP----- 648 "

D---F FLOW--- 216 psi

E---FSIP----- 651 "

F---F HYDRO---2390 "



← TIME →

↑ PRESSURE ↓

THESE ARE ACTUAL PHOTOGRAPHS FROM DST CHARTS

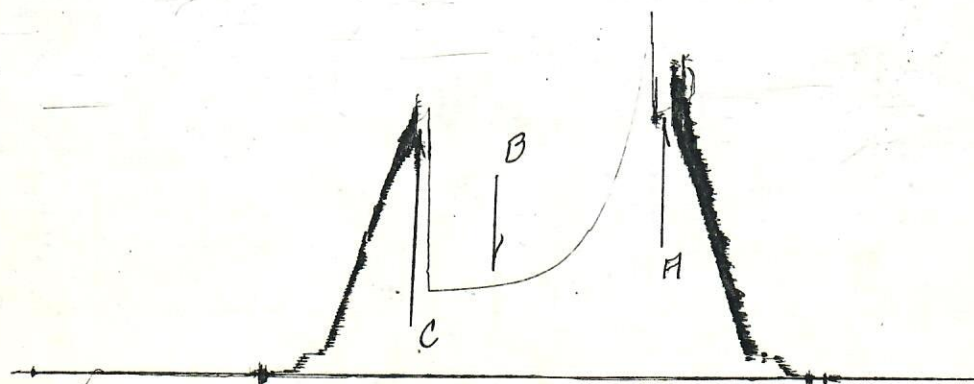
J. W. NYLUND ETAL---GADE #1---DST# 1---TICKET # 1801

CHART BLANKED OFF UNDER STRADDLE PACKER---GAUGE # 11082

A---I HYDRO---2443 psi

B---HYDRO BLEED OFF UNDER STRADDLE PACKER TO---764 psi

C---F HYDRO---2499 psi



| | | | |
|--------------------------|--------------|---------------|------------|
| Date | 11-16-85 | Ticket Number | 1801 |
| Kind of Job | STRADDLE DST | | |
| Tester | TOM MICHEL | Witness | MR. NYLUND |
| Drilling Contractor | EXETER DRLG. | | |
| EQUIPMENT & HOLE DATA | | | |
| Formation Tested | J SAND | | |
| Elevation | 4809 | Ft. | |
| Net Productive Interval | 4 | Ft. | |
| All Depths Measured From | KB | | |
| Total Depth | 4925 | Ft. | |
| Main Hole/Casing Size | 7 7/8" | | |
| Drill Collar Length | 334' | I.D. | 2.250" |
| Drill Pipe Length | 4504' | I.D. | 3.826" |
| Packer Depth(s) | 4872'--4876' | Ft. | |
| Depth Tester Valve | 4855 | Ft. | |

| | | | |
|------------------------------|-----------|---------------------|--------------|
| FLUID SAMPLE DATA | | | |
| Sampler Pressure | 0 | P.S.I.G. at Surface | |
| Recovery: Cu. Ft. Gas | 0 | | |
| cc. Oil | 0 | | |
| cc. Water | 2000 | | |
| cc. Mud | 0 | | |
| Tot. Liquid cc. | 2000 | | |
| Gravity | ° API @ | | °F. |
| Gas/Oil Ratio | | | cu. ft./bbl. |
| RESISTIVITY CHLORIDE CONTENT | | | |
| Recovery Water | 2.6 @ 70 | °F. | 2200 ppm |
| Recovery Mud | @ | °F. | ppm |
| Recovery Mud Filtrate | @ | °F. | ppm |
| Mud Pit Sample | @ | °F. | ppm |
| Mud Pit Sample Filtrate | 3.38 @ 60 | °F. | 1900 ppm |
| Mud Weight | 9.7 | vis | 75 cp |

| | | | | | | | | | |
|--|------|---------|-------|------------------------|-------------|---------------|------|--------------|------|
| Cushion | TYPE | AMOUNT | NONE | Depth Back Pres. Valve | NONE | Surface Choke | 3/8" | Bottom Choke | 3/4" |
| Recovered | 488 | Feet of | WATER | TOP | RW 3.0@ 70° | 1900 | ppm | | |
| Recovered | | Feet of | | MIDDLE | RW 2.6@ 70° | 2200 | ppm | | |
| Recovered | | Feet of | | BOTTOM | RW 2.6@ 70° | 2200 | ppm | | |
| Recovered | | Feet of | | | | | | | |
| Remarks: OPEN TOOL FOR A 15 MIN. INITIAL FLOW WITH A WEAK 1/4 INCH WATER AND INCREASED TO A 2 INCH WATER BLOW.===CLOSED FOR A 30 MIN. SHUT IN. OPEN FOR A 60 MIN. FINAL FLOW WITH A WEAK WATER BLOW INCREASED TO A 4 INCH WATER BLOW IN 45 MIN. AND STABILIZED FOR LAST 15 MIN.===CLOSED TOOL FOR A 60 MIN. FINAL SHUT IN. | | | | | | | | | |

| | | | | |
|---------------------|--------------|-----------------|-----------------|-------------------|
| TEMPERATURE | Gauge No. | Gauge No. 10246 | Gauge No. 11082 | TIME |
| | Depth: | 4886 Ft. | 4906 Ft. | |
| Est. | Hour Clock | 12 Hour Clock | 12 Hour Clock | Tool |
| °F. | Blanked Off | Blanked Off YES | Blanked Off YES | Opened 11:30 A.M. |
| Actual 136°F. | Pressures | Pressures | Pressures | Opened 2:15 A.M. |
| | Field | Office | Field | Office |
| Initial Hydrostatic | | | 2506 | 2434 |
| First Period | Flow Initial | | 73 | 62 |
| | Flow Final | | 109 | 97 |
| | Closed in | | 659 | 648 |
| Second Period | Flow Initial | | 146 | 145 |
| | Flow Final | | 201 | 216 |
| | Closed in | | 659 | 651 |
| Final Hydrostatic | | | 2470 | 2390 |

PRODUCTION TEST DATA

GADE
 Legal Location SW SW SEC13 T3S R55W
 Well No. 1
 Test No. 1
 Tested Interval 4872'--4876"
 County WASHINGTON
 State COLO.
 Lease Owner/Company Name J. W. NYLUND et al

LIBERTY TESTERS INC.
BOX 1454
STERLING, CO. 80751
(303) 522-7025

DATE 11/16/85

J. W. NYLUND et al
GADE # 1--DST # 1---TICKET # 1801
WASHINGTON, COUNTY COLO.

INTERVAL: 4872' - 4876'
RECORDER# 10246 @ 4886'

INCREMENTAL READING DATA

| INITIAL FLOW (15 min.) | PRESSURE (Psi) | FINAL FLOW (60 min.) | PRESSURE (Psi) |
|---------------------------|----------------|-------------------------|----------------|
| 0 | 62 | 0 | 145 |
| 15 | 97 | 60 | 216 |

| INITIAL SHUT IN (30 min.) 2 min Intervals | PRESSURE (Psi) | FINAL SHUT-IN (60 min.) 4 min Intervals | PRESSURE (Psi) |
|---|----------------|---|----------------|
| 0 | 97 | 0 | 216 |
| 2 | 548 | 4 | 594 |
| 4 | 589 | 8 | 618 |
| 6 | 609 | 12 | 628 |
| 8 | 618 | 16 | 634 |
| 10 | 626 | 20 | 638 |
| 12 | 631 | 24 | 640 |
| 14 | 636 | 28 | 640 |
| 16 | 639 | 32 | 641 |
| 18 | 640 | 36 | 643 |
| 20 | 641 | 40 | 648 |
| 22 | 643 | 44 | 649 |
| 24 | 645 | 48 | 650 |
| 26 | 646 | 52 | 651 |
| 28 | 647 | 56 | 651 |
| 30 | 648 | 60 | 651 |