

ORIGINAL SIDE ONE

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

API NO. 15- 193-20,581-0000

County Thomas

N/2.N/2.SW ✓ Sec. 28 Twp. 10s Rge. 33 X ^E _W

2310 ✓ Feet from S (circle one) Line of Section

3960 ✓ Feet from E (circle one) Line of Section

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

Lease Name Gustafson Well # 1

Field Name _____

Producing Formation Johnson

Elevation: Ground 3116 ³¹⁶⁰ KB 3121

Total Depth 4693' (log) 4695' (rig) PBT# _____
244'

Amount of Surface Pipe Set and Cemented at 251 Feet ^{KB}

Multiple Stage Cementing Collar Used? Yes X No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from TD

feet depth to surface w/ 525 ⁵²⁵ ex cmt.

Drilling Fluid Management Plan act II 244'
(Data must be collected from the Reserve Pit) 8-13-92
CB.

Chloride content 1400 ppm Fluid volume 200 bbls

Dewatering method used allowed to dry - backfill

Method of fluid disposal if hauled offsite:
Wichita, Kansas

Operator Name _____

Lease Name _____ License No. _____

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

County _____ Docket No. _____

Operator: License # 9860

Name: Castle Resources Inc. ✓

Address 1200 E. 27, Suite C

City/State/Zip Hays, KS 67601-2120

Purchaser: _____

Operator Contact Person: Jerry Green

Phone (913) 625-5155

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Jerry Green

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

X Oil _____ SWD _____ S10W _____ Temp. Abd.
_____ Gas _____ ENHR _____ S10G
_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

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

10-28-91 11-5-91 11-26-91
Spud Date Date Reached TD Completion Date

RECEIVED
STATE CORPORATION COMMISSION
7-17-92
JUL 17 1992
CONSERVATION DIVISION
Wichita, Kansas

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Galen D. McFarland

Title Chief Operating Officer Date 6/23/92

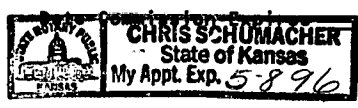
Subscribed and sworn to before me this 23 day of June, 1992.

Notary Public Chris Schumacher

5896

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)



Operator Name Castle Resources Inc. Lease Name Gustafson Well # 1

Sec. 28 Twp. 10s Rge. 33
 East
 West

County Thomas

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 Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)

| Log | | Formation (Top), Depth and Datums | Sample |
|-------------|------|-----------------------------------|--------|
| Name | Top | Datum | |
| Heebner | 4013 | - 892 | |
| Lansing-KC | 4054 | - 933 | |
| B-KC | 4329 | -1208 | |
| Fort Scott | 4521 | -1400 | |
| Mississippi | 4664 | -1543 | |
| TD | 4693 | -1572 | |

List All E.Logs Run:
 artificial radiation guard, dual induction,
 formation evaluation, micro electric,
 compensated density neutron sonic, tracer,
 compensated sonic, & sonic cement bond

| CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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 (N) | 12 1/4" | 8 5/8" | 19 | 251 | 60/40 Poz | 170 | 2% gel 3% cc |
| Production (U) | 7 7/8" | 4 1/2" | 10.5 | 4692 | Allied Lite & ASC | 525 | Gilsonite |

| 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 | Acid, Fracture, Shot, Cement Squeeze Record |
|----------------|---|---|
| | Specify Footage of Each Interval Perforated | (Amount and Kind of Material Used) Depth |
| 1 | 4597, 4600, 4605, & 4609 | 1000 gal. 15% FE acid 4597-4609 |
| 4 | 4595-4610 Johnson zone | |

| TUBING RECORD | Size | Set At | Packer At | Liner Run |
|--|--|---------|-------------|---|
| | 2 3/8" | 4656 | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Date of First, Resumed Production, SWD or Inj. | Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) | | | |
| 11/26/91 | | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio Gravity |
| | 30 | | 40 | 25 |

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Other (Specify)

Production Interval: 4595-4600

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

15-193-20581-0000

Drill-Stem Test Data

Well Name GUSTAFSON #1 Test No. 1 Date 11/3/91
Company CASTLE RESOURCES Zone Tested LKC
Address BANK IV #1200 HAYS KS 6701 Elevation 3121
Co. Rep./Geo. JERRY GREEN Cont. EMPHASIS #7 Est. Ft. of Pay _____
Location: Sec. 28 Twp. 10S Rge. 33W Co. THOMAS State KS

Interval Tested 4184-4280 Drill Pipe Size 4.5 XH
Anchor Length 96 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4179 Drill Collar - 2.25 Ft. Run 60
Bottom Packer Depth 4184
Total Depth 4280

Mud Wt. 9.6 lb / gal. Viscosity 55 Filtrate 10.8

Tool Open @ 6:28 AM Initial Blow GOOD BLOW OFF BOTTOM IN 6 MINUTES

Final Blow BLOW OFF BOTTOM IN 11 MINUTES

Recovery - Total Feet 725 Flush Tool? NO

Rec. 725 Feet of MUD CUT WATER-95%WTR/5%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT N/A °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW 0.2 @ 65 °F Chlorides 40000 ppm Recovery Chlorides 4000 ppm System

(A) Initial Hydrostatic Mud 2199.6 PSI Ak1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 105.6 PSI @ (depth) 4189 w/Clock No. 27573

(C) First Final Flow Pressure 234.1 PSI Ak1 Recorder No. 2023 Range 4000

(D) Initial Shut-in Pressure 1270.8 PSI @ (depth) 4219 w/Clock No. 8376

(E) Second Initial Flow Pressure 265.4 PSI Ak1 Recorder No. _____ Range _____

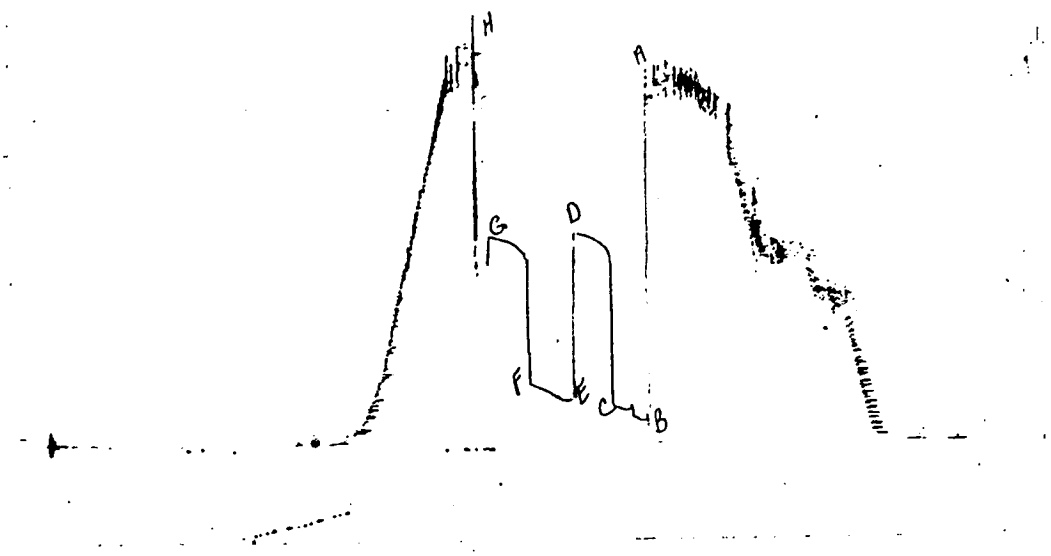
(F) Second Final Flow Pressure 374.2 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 1244.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2177.9 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative MARK HERSKOWITZ TOTAL PRICE \$ 550

DST 1



POINT

This is an actual photograph of recorder chart
PRESSURE

| | FIELD READING | OFFICE READING |
|----------------------------------|------------------|-------------------|
| (A) INITIAL HYDROSTATIC MUD | 2190 | 2199.6 |
| (B) FIRST INITIAL FLOW PRESSURE | 98 | 105.6 |
| (C) FIRST FINAL FLOW PRESSURE | 225 | 234.1 |
| (D) INITIAL CLOSED-IN PRESSURE | 1264 | 1270.8 |
| (E) SECOND INITIAL FLOW PRESSURE | 256 | 265.4 |
| (F) SECOND FINAL FLOW PRESSURE | 369 | 374.2 |
| (G) FINAL CLOSED-IN PRESSURE | 1235 | 1244.9 |
| (H) FINAL HYDROSTATIC MUD | 2170 | 2177.9 |

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

ORIGINAL

Test Ticket

No. 3999

Well Name & No. GUSTAFSON 1 Test No. 1 Date 11-3-91
 Company CASTLE RES. Zone Tested LAN-KC
 Address BANK IV SUITE 1200 E 27TH HAYES
 Co. Rep./Geo. JERRY GREEN cont. EMPHASIS #107 Est. Ft. of Pay _____
 Location: Sec. 28 Twp. 10 S Rge. 33 W Co. THOMAS State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4184-4280 Drill Pipe Size 4 1/2 XH
 Anchor Length 96 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 4179 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4184 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4280 Drill Collar — 2.25 Ft. Run 60
 Mud Wt. 9.6 LCM2 # lb/gal. Viscosity 55 Filtrate 10.8
 Tool Open @ 6:28 AM Initial Blow Good Blow OFF BOTTOM IN 6 MIN
 Final Blow Blow OFF BOTTOM IN 11 MIN

| Recovery — Total Feet | Feet of Gas In Pipe | Flush Tool? |
|--|---|-------------|
| Rec. <u>725</u> Feet Of <u>MUD WATER</u> | %gas _____ %oil <u>95</u> %water _____ %mud _____ | |
| Rec. _____ Feet Of _____ | %gas _____ %oil _____ %water _____ %mud _____ | |
| Rec. _____ Feet Of _____ | %gas _____ %oil _____ %water _____ %mud _____ | |
| Rec. _____ Feet Of _____ | %gas _____ %oil _____ %water _____ %mud _____ | |
| Rec. _____ Feet Of _____ | %gas _____ %oil _____ %water _____ %mud _____ | |

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.20 @ 65 °F Chlorides 40000 ppm Recovery Chlorides 44000 ppm System
 (A) Initial Hydrostatic Mud 2190 PSI Ak1 Recorder No. 13308 Range 4700
 (B) First Initial Flow Pressure 98 PSI @ (depth) 4189 w/Clock No. 27573
 (C) First Final Flow Pressure 225 PSI Ak1 Recorder No. 2023 Range 4000
 (D) Initial Shut-in Pressure 1264 PSI @ (depth) 4279 w/Clock No. 8376
 (E) Second Initial Flow Pressure 256 PSI Ak1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 369 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 1235 PSI Initial Opening 30 Test X
 (H) Final Hydrostatic Mud 2170 PSI Initial Shut-in 30 Jars _____

TRILOBITE TESTING COMPANY SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUBSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 30 Safety Joint _____
 Final Shut-in 30 Straddle _____
 Circ. Sub X NC
 Sampler _____
 Extra Packer _____
 Other _____

Approved By _____
 Our Representative _____
 Printcraft Printers - Hays, KS

TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GUSTAFSON #1 Test No. 2 Date 11/5/91
Company CASTLE RESOURCES Zone Tested JOHNSON
Address BANK IV #1200 HAYS KS 6701 Elevation 3121
Co. Rep./Geo. JERRY GREEN cont. EMPHASIS #7 Est. Ft. of Pay 5
Location: Sec. 28 Twp. 10S Rge. 33W Co. THOMAS State KS

Interval Tested 4574-4630 Drill Pipe Size 4.5 XH
Anchor Length 56 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 4564 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 4574
Total Depth 4630

Mud Wt. 9.5 lb / gal. Viscosity 45 Filtrate 10.6

Tool Open @ 5:45 Initial Blow GOOD BLOW OFF BOTTOM IN 6 MINUTES

Final Blow BLOW OFF BOTTOM IN 16 MINUTES

Recovery - Total Feet 451 Flush Tool? YES

Rec. 50 Feet of GAS IN PIPE

Rec. 10 Feet of SLTLY GSY OIL STAINED MUD-2%GAS/2%OIL96%MUD

Rec. 441 Feet of GASSY MUD CUT OIL-5%GAS/65%OIL/30%MUD

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2000 ppm System

(A) Initial Hydrostatic Mud 2425.6 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 51.2 PSI @ (depth) 4576 w/Clock No. 27573

(C) First Final Flow Pressure 101.8 PSI AK1 Recorder No. 2023 Range 4000

(D) Initial Shut-In Pressure 1125.7 PSI @ (depth) 4625 w/Clock No. 8376

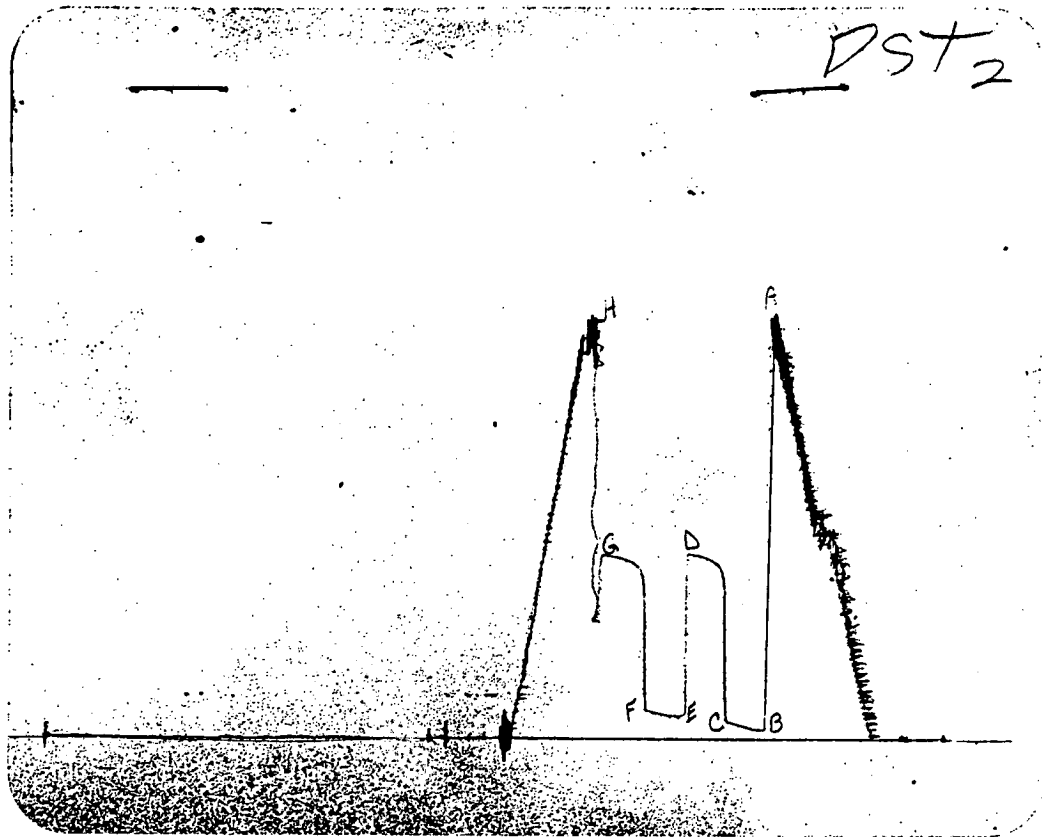
(E) Second Initial Flow Pressure 135.5 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 173.8 PSI @ (depth) _____ w/Clock No. _____

(G) Final Shut-In Pressure 1121 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2405.6 PSI Initial Shut-In 30 Final Shut-In 30

Our Representative MARK HERSKOWITZ TOTAL PRICE \$ 600



POINT This is an actual photograph of recorder chart PRESSURE

| POINT | FIELD READING | OFFICE READING |
|----------------------------------|---------------|----------------|
| (A) INITIAL HYDROSTATIC MUD | 2411 | 2425.6 |
| (B) FIRST INITIAL FLOW PRESSURE | 55 | 51.2 |
| (C) FIRST FINAL FLOW PRESSURE | 109 | 101.8 |
| (D) INITIAL CLOSED-IN PRESSURE | 1122 | 1125.7 |
| (E) SECOND INITIAL FLOW PRESSURE | 130 | 135.5 |
| (F) SECOND FINAL FLOW PRESSURE | 194 | 173.8 |
| (G) FINAL CLOSED-IN PRESSURE | 1112 | 1121 |
| (H) FINAL HYDROSTATIC MUD | 2380 | 2405.6 |

COMPUTER EVALUATION BY TRILOBITE TESTING
CASTLE RESOURCES
REPORT FOR DST#2 FOR THE GUSTAFSON #1
28 10S 33W THOMAS KS

ORIGINAL

TEST PARAMETERS

ELEVATION: 3121 KB EST. PAY: 5 FT
STATUM: -1456 ZONE TESTED: JOHNSON
TEST INTERVAL: 4574-4630
TIME INTERVALS: 30-30-30-30
RECORDED DEPTH: 4576 VISCOSITY: 9.594052 CP
BOTTOM HOLE TEMP: 122 HOLE SIZE: 7.875 IN

CALCULATIONS

CUBIC FEET OF GAS IN PIPE: 3.991969
TOTAL FEET OF RECOVERY: 451
BARRELS IN DRILL PIPE: 6.41322
GAS OIL RATIO: .6224595 CU.FT./BBL
BUBBLE POINT PRESSURE: ; 8.835059E-02
TOTAL BARRELS OF RECOVERY: 6.41322
UNCORR. INIT. PROD.: 153.9173 BBL/DAY
API GRAVITY: .35
FLUID GRADIENT: .368
CORRECTED PIPE FILLUP: 472.2826
CORR. BARRELS OF RECOVERY: 6.71184 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 161.0842 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE
77.11565

INITIAL SLOPE 112.86 PSI/CYCLE
INITIAL P* 1160 PSI

FINAL SLOPE 129.19 PSI/CYCLE
FINAL P* 1183 PSI

PERMEABILITY 202.7424 (MD.-FT./CP.)
INDICATED FLOW CAPACITY 389.0242 (MD.)
PRODUCTIVITY INDEX 1945.121 (MD.FT)
DAMAGE RATIO .2290989 (BARRELS/DAY/PSI)
RADIUS OF INVESTIGATION 1.42955
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE 152.7791 (FT.)
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE 230.2779 BBL/DAY
POTENTIOMETRIC SURFACE 110.2407 BBL/DAY
DRAWDOWN FACTOR 1288.377 (FT.)
-1.98276 (%)

FINAL FLOW

RECORDER # 13308
DST #2

| DT(MIN) | PRESSURE | <> PRESSURE |
|---------|----------|-------------|
| 0 | 51.2 | 51.2 |
| 3 | 53.6 | 2.399998 |
| 6 | 56 | 2.400002 |
| 9 | 60.8 | 4.799999 |
| 12 | 65.7 | 4.899998 |
| 15 | 72.9 | 7.200005 |
| 18 | 77.7 | 4.799996 |
| 21 | 82.6 | 4.900002 |
| 24 | 89.8 | 7.200005 |
| 27 | 97 | 7.199997 |
| 30 | 101.8 | 4.800003 |

FINAL FLOW

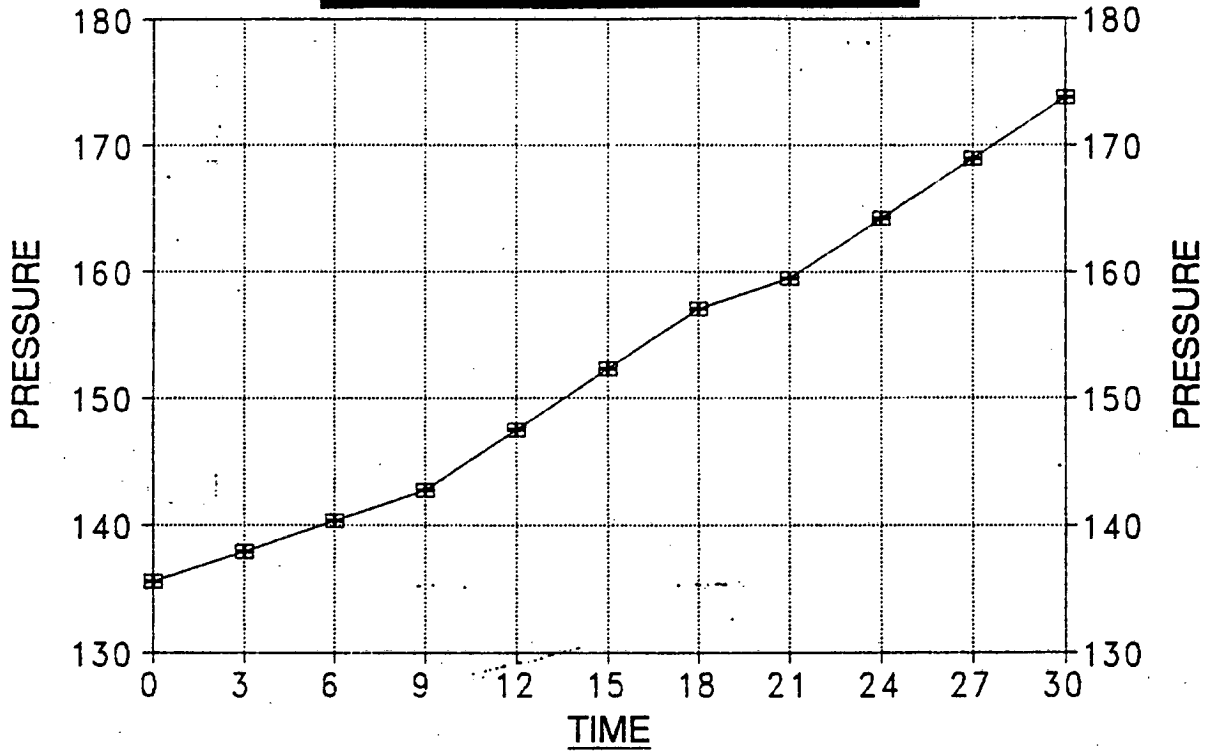
RECORDER # 13308
DST #2

| DT(MIN) | PRESSURE | <> PRESSURE |
|---------|----------|-------------|
| 0 | 135.5 | 135.5 |
| 3 | 137.9 | 2.399994 |
| 6 | 140.3 | 2.400009 |
| 9 | 142.7 | 2.399994 |
| 12 | 147.5 | 4.800003 |
| 15 | 152.3 | 4.800003 |
| 18 | 157.1 | 4.800003 |
| 21 | 159.5 | 2.399994 |
| 24 | 164.3 | 4.800003 |
| 27 | 169 | 4.699997 |
| 30 | 173.8 | 4.800003 |

ORIGINAL

DELTA T DELTA P

FINAL FLOW - DST #2



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE 77.11565 BBL/DAY

GUSTAFSON #1
INITIAL

DST #2
SHUTIN
30 INITIAL FLOW TIME

Slope -112.86 psi/cycle
P * 1,160 psi

Log

| TIME(MIN) | Pws (psi) | Horn T | Horn T | <> PRESSURE |
|-----------|-----------|--------|--------|-------------|
| 3 | 1013.1 | 11 | 1.041 | 1013.1 |
| 6 | 1062.4 | 6 | 0.778 | 49.3 |
| 9 | 1076.4 | 4 | 0.637 | 14.0 |
| 12 | 1092.9 | 4 | 0.544 | 16.5 |
| 15 | 1104.6 | 3 | 0.477 | 11.7 |
| X 18 | 1111.6 | 3 | 0.426 | 7.0 |
| 21 | 1116.3 | 2 | 0.385 | 4.7 |
| 24 | 1121.0 | 2 | 0.352 | 4.7 |
| 27 | 1123.4 | 2 | 0.325 | 2.4 |
| X 30 | 1125.7 | 2 | 0.301 | 2.3 |

GUSTAFSON #1
FINAL

DST.#2
SHUTIN
60 TOTAL FLOW TIME

Slope -129.19 psi/cycle
P * 1,183 psi

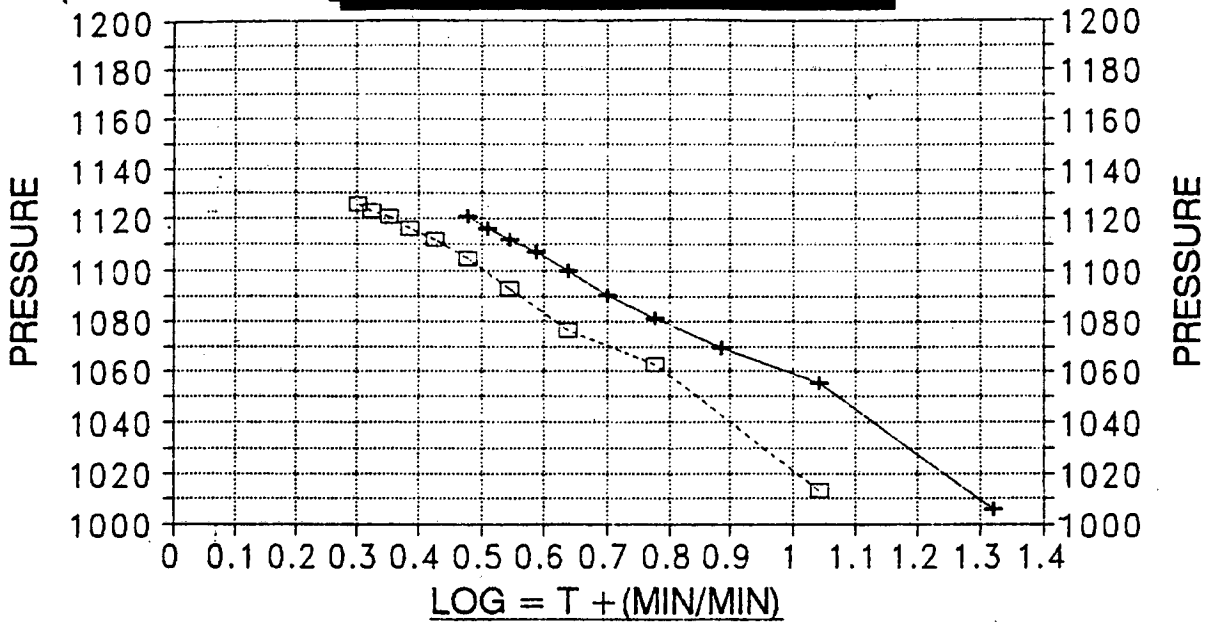
Log

| TIME(MIN) | Pws (psi) | Horn T | Horn T | <> PRESSURE |
|-----------|-----------|--------|--------|-------------|
| 3 | 1006.1 | 21 | 1.322 | 1006.1 |
| 6 | 1055.3 | 11 | 1.041 | 49.2 |
| 9 | 1069.4 | 8 | 0.885 | 14.1 |
| 12 | 1081.1 | 6 | 0.778 | 11.7 |
| 15 | 1090.5 | 5 | 0.699 | 9.4 |
| 18 | 1099.9 | 4 | 0.637 | 9.4 |
| X 21 | 1106.9 | 4 | 0.586 | 7.0 |
| 24 | 1111.6 | 4 | 0.544 | 4.7 |
| 27 | 1116.3 | 3 | 0.508 | 4.7 |
| X 30 | 1121.0 | 3 | 0.477 | 4.7 |

HORNER PLOT

GUSTAFSON #1 / DST #2

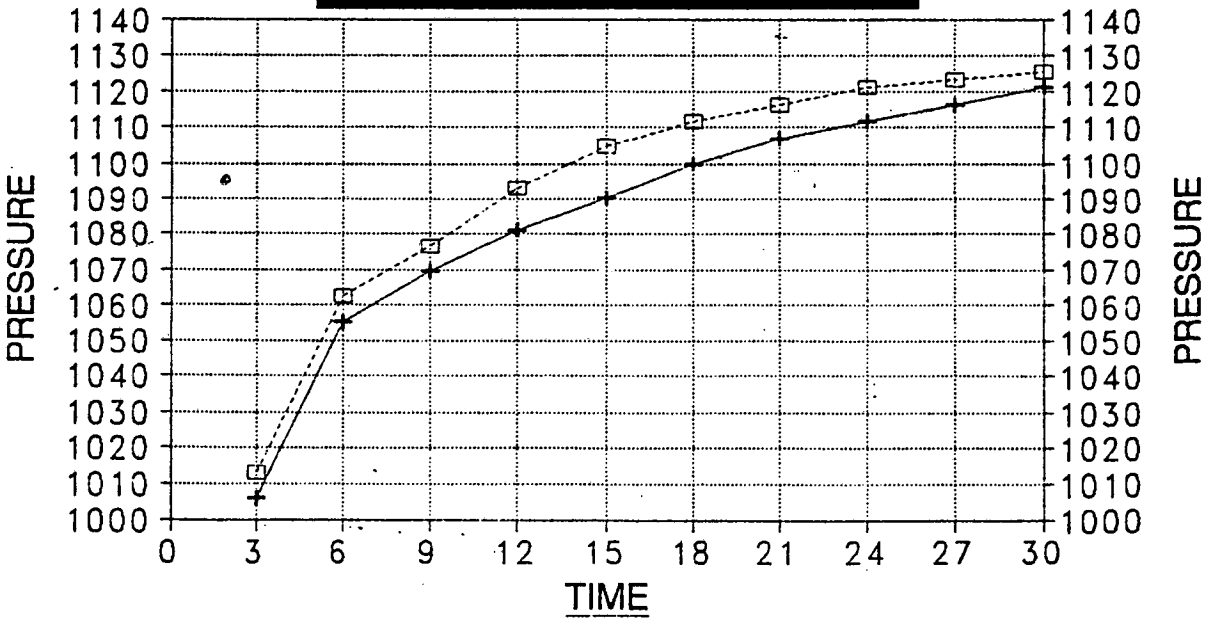
ORIGINAL



INITIAL

DELTA T DELTA P

GUSTAFSON #1 / DST #2



INITIAL

TRILOBITE TESTING COMPANY

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No. 4000

Well Name & No. GUSTAFSON 1 Test No. 2 Date 11-5-91
Company CASTLE RES INC Zone Tested JOHNSON
Address BANK IV SUITE 1200 E 27th HAYS Elevation 3121
Co. Rep./Geo. JERRY GREEN cont. EMPHASIS RIG 7 Est. Ft. of Pay 5
Location: Sec. 28 Twp. 10S Rge. 33W Co. THOMAS State KS
No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4574-4630 Drill Pipe Size 4 1/2 X H
Anchor Length 56 Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth 4564 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth 4574 Wt. Pipe I.D. — 2.7 Ft. Run _____
Total Depth 4630 Drill Collar — 2.25 Ft. Run _____
Mud Wt. 9.5 LCM 2nd lb/gal. Viscosity 45 Filtrate 10.6
Tool Open @ 5:45 Initial Blow Good Blow OFF BOTTOM IN 6 MIN

Final Blow Blow OFF BOTTOM IN 16 MIN

| Recovery — Total Feet | Feet of Gas In Pipe | Flush Tool? |
|---|---------------------|-------------------------------------|
| Rec. <u>10</u> Feet Of <u>0.1 S MUD</u> 2% gas 2% oil %water <u>96</u> %mud | <u>50</u> | <input checked="" type="checkbox"/> |
| Rec. <u>441</u> Feet Of <u>G.M.O.I</u> 5% gas 65% oil %water <u>30</u> %mud | | |
| Rec. _____ Feet Of _____ %gas %oil %water %mud | | |
| Rec. _____ Feet Of _____ %gas %oil %water %mud | | |
| Rec. _____ Feet Of _____ %gas %oil %water %mud | | |

BHT 122 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 42000 ppm System

- (A) Initial Hydrostatic Mud 2411 PSI Ak1 Recorder No. 13308 Range 4700
- (B) First Initial Flow Pressure 55 PSI @ (depth) 4574 w/Clock No. 27573
- (C) First Final Flow Pressure 109 PSI Ak1 Recorder No. 2023 Range 41000
- (D) Initial Shut-In Pressure 1022 1118 PSI @ (depth) 4625 w/Clock No. 8374
- (E) Second Initial Flow Pressure 130 PSI Ak1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 194 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 1109 PSI Initial Opening 30 Test
- (H) Final Hydrostatic Mud 2380 PSI Initial Shut-In 30 Jars _____

Final Flow 30 Safety Joint _____
Final Shut-In 30 Straddle _____
Circ. Sub NC
Sampler _____
Extra Packer _____
Other _____

Approved By _____
Our Representative _____
TOTAL PRICE \$ _____

TRILOBITE TESTING COMPANY SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUBSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

1971

Home Office P. O. Box 31 Russell, Kansas 67665

New

| | | | | | | | | | | | | | | | |
|---------------------|-------------------|------------|-------|----------|-----------------|--------|-----------------|------------|---------|-------------|--|-----------|--|--------|---------|
| Date | 11-6-91 | Sec. | 28 | Twp. | 10 ^s | Range | 33 ^w | Called Out | 9:30 AM | On Location | | Job Start | | Finish | 3:45 PM |
| Lease | Gustafson | Well No. | 1 | Location | Monument 4 N | County | Thomas | State | Ks | | | | | | |
| Contractor | Emphasis Drly | | | | | | | | | | | | | | |
| Type Job | production string | | | | | | | | | | | | | | |
| Hole Size | 7 7/8 | T.D. | 4705 | | | | | | | | | | | | |
| Csg. | 4 1/2 | Depth | 4704 | | | | | | | | | | | | |
| Tbg. Size | | Depth | | | | | | | | | | | | | |
| Drill Pipe | | Depth | | | | | | | | | | | | | |
| Tool | | Depth | | | | | | | | | | | | | |
| Cement Left in Csg. | 20' | Shoe Joint | 20.70 | | | | | | | | | | | | |
| Press Max. | | Minimum | | | | | | | | | | | | | |
| Meas Line | ✓ | Displace | | | | | | | | | | | | | |
| Perf. | | | | | | | | | | | | | | | |

Owner
 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 listed.

Charge To
 Castle Resources Inc.
 Street P.O. Box 503
 City Hays State Kan 67601

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No.
 X

EQUIPMENT

| | | |
|-------------|----------|-------|
| No. | Cementer | Bill |
| Pumptrk 153 | Helper | Dave |
| No. | Cementer | |
| Pumptrk 146 | Helper | Mark |
| Bulktrk 218 | Driver | Jason |
| Bulktrk | Driver | |

| | |
|---------------------------|------------------|
| 500 gal WFR-2 | CEMENT |
| Amount Ordered | 350 Lite 175 ASC |
| Consisting of | 5% GILBERT |
| ASC - 175 SKS @ 8.10 | 1,417.50 |
| Lite 350 SKS @ 5.10 | 1,785.00 |
| 1,485 LBS Gilsonite @ 33¢ | 490.05 |
| Chloride | |
| Quickset | |
| 500 gal WFR-2 @ 50¢ | 250.00 |
| Sales Tax | |
| Handling 1.00 per sk | 525.00 |
| RECEIVED H & per sk/mile | 273.00 |
| CORPORATION COMMISSION | |
| JUL 17 1992 | |
| Sub Total | |
| Total | 4,740.55 |

| | | |
|--------------|-----------------|--------|
| DEPTH of Job | | |
| Reference: | | |
| | Pump trk cly | 880.00 |
| | 1/2" Per mile | 26.00 |
| | 4/2 Rubber plug | 33.00 |
| | Sub Total | |
| | Tax | |
| | Total | 939.00 |

Remarks:
 Cement Did not Cir.
 Float Held

| | |
|-----------------|------------|
| 8 Centralizers | - 344.00 |
| 1 Guide Shoe | - 109.00 |
| 1 Baker Insert | - 169.00 |
| 40' Scratchers | - 168.00 |
| 3 Baskets | - 339.00 |
| 17 Limit Clamps | - 221.00 |
| Total | = 1,350.00 |

HALLIBURTON SERVICES
Dustin, Oklahoma 73034

**AND
TICKET CONTINUATION**

ORIGINAL

FOR INVOICE AND
TICKET NO.

163518

A Division of Halliburton Company

| | | | | |
|--------------------------------------|--------------------|---|-------------------------------------|-----------------------------------|
| DATE 10/28/91 | CUSTOMER ORDER NO. | WELL NO. AND FARM 1 Gustafson | COUNTY Thomas | STATE KS1 |
| CHARGE TO Castle Resources | | OWNER Castle Resources | CONTRACTOR Emphasis Drig. | No. B 946694 |
| MAILING ADDRESS | | DELIVERED FROM Oberlin, KS | LOCATION CODE 25529 | PREPARED BY Lyle |
| CITY & STATE | | DELIVERED TO N/Monument, KS | TRUCK NO. 4718 | RECEIVED BY <i>[Signature]</i> |

| PRICE REFERENCE | SECONDARY REF. OR PART NO. | CODE | | DESCRIPTION | UNITS 1 | | UNITS 2 | | UNIT PRICE | AMOUNT | |
|--|----------------------------|--------------------------|---|--------------------------------------|------------------------|--------------------|---------------------|-------|------------|-----------------|--|
| | | L | D | | QTY. | MEAS. | QTY. | MEAS. | | | |
| 504-308 | | 1 | B | Standard Cement | 102 | sk | | | 6.75 | 688.50 | |
| 506-105 | | 1 | B | Pozmix 'A' | 68 | sk | | | 3.90 | 265.20 | |
| 506-121 | | 1 | B | (3) Halliburton Gel Allowed 2% | | | | | | N/C | |
| 509-406 | | 1 | B | Calicum Chloride 3% | 5 | sk | | | 26.25 | 131.25 | |
| <p>RECEIVED STATE CORPORATION COMMISSION JUL 17 1992 CONSERVATION DIVISION Wichita, Kansas</p> | | | | | | | | | | | |
| | | | | Returned Mileage Charge | TOTAL WEIGHT | LOADED MILES | TON MILES | | | | |
| | | | | SERVICE CHARGE ON MATERIALS RETURNED | | | CU. FEET | | | | |
| 500-207 | | 1 | B | SERVICE CHARGE | | | 180 CU. FEET | | 1.15 | 207.00 | |
| 500-306 | | 1 | B | Mileage Charge | 15,340 TOTAL WEIGHT | 15 LOADED MILES | 115.05 TON MILES | | .80 | 92.04 | |
| No. B 946694 | | CARRY FORWARD TO INVOICE | | | | | | | SUB-TOTAL | 1,383.99 | |

ORIGINAL

HALLIBURTON SERVICES

WORK ORDER CONTRACT

AND PRE-TREATMENT DATA

ATTACH TO INVOICE & TICKET NO. 163518

FORM 1908 R-7

A Division of Halliburton Company

DISTRICT Oberlin, Ks

DATE 10-28-91

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE

THE SAME AS AN INDEPENDENT CONTRACTOR TO: Castle Resources (CUSTOMER)

AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1 LEASE Gustafson SEC. 28 TWP. 10S RANGE 33W

FIELD COUNTY Thomas STATE Ks OWNED BY Castle Resources

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE FROM TO THICKNESS FROM TO PACKER TYPE SET AT TOTAL DEPTH 254' MUD WEIGHT BORE HOLE 12 1/4" INITIAL PROD: OIL BPD, H2O BPD, GAS MCF PRESENT PROD: OIL BPD, H2O BPD, GAS MCF

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING (19.0 85/8" KB 251'), LINER, TUBING, OPEN HOLE, PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED. Cmt 85/8" Sued Casing - 170 sks 60/40 for, 290 Gel - 390 CC 23 directed.

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

As consideration, the above-named Customer agrees THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED. a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list... b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law... c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials... d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials... e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well... f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act... g) That this contract shall be governed by the law of the state where services are performed or materials are furnished... h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

RECEIVED STATE CORPORATION COMMISSION

JUL 17 1992

CONSULTATION DIVISION Wichita, Kansas

SIGNED [Signature] CUSTOMER DATE 10-28-91 TIME 3:54 A.M. P.M.

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished under this contract.

FIELD OFFICE

HALLIBURTON SERVICES

SUMMARY

HALLIBURTON LOCATION

Oberlin, KS ORIGINAL P. 5/6 BILLED ON TICKET NO. 163518

WELL DATA
 FIELD: 28 TWP: 10S RND: 33W COUNTY: Thomas STATE: KS

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 PRESENT PROD. OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 COMPLETION DATE _____ MUD TYPE _____ MUO WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA: 12 1/4" Hole TOTAL DEPTH: 2591'

| | NEW USED | WEIGHT | SIZE | FROM | TO | MAXIMUM PSI ALLOWABLE |
|--------------|----------|--------|-------|------|------|-----------------------|
| CASING | | 119.0 | 8 5/8 | KB | 251' | |
| LINER | | | | | | |
| TUBING | | | | | | |
| OPEN HOLE | | | | | | SHOTS/FT. |
| PERFORATIONS | | | | | | |
| PERFORATIONS | | | | | | |
| PERFORATIONS | | | | | | |

JOB DATA

TOOLS AND ACCESSORIES

| TYPE AND SIZE | QTY. | MAKE |
|---------------|-------------|-----------|
| FLOAT COLLAR | | |
| FLOAT SHOE | | |
| GUIDE SHOE | | |
| CENTRALIZERS | | |
| BOTTOM PLUG | | |
| TOP PLUG | 1A-11-8 5/8 | lea Howco |
| HEAD | | |
| PACKER | | |
| OTHER | | |

| CALLER OUT | ON LOCATION | JOB STARTED | JOB COMPLETED |
|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| 10-28-91 DATE TIME 1630 | 10-28-91 DATE TIME 1930 | 10-28-91 DATE TIME 2145 | 10-28-91 DATE TIME 2215 |

PERSONNEL AND SERVICE UNITS

| NAME | UNIT NO. & TYPE | LOCATION |
|----------|--------------------|----------|
| S. Dulan | 30559 | Oberlin |
| H. Berry | 3594-RUM HT-400 | " |
| S. Moore | HT-400 Bulk | " |

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ GAL. %
 SURFACTANT TYPE _____ GAL. IN
 NE AGENT TYPE _____ GAL. IN
 FLUID LOSS APP. TYPE _____ GAL. LB. IN
 GELLING AGENT TYPE _____ GAL. LB. IN
 FRIC. RED. AGENT TYPE _____ GAL. LB. IN
 BREAKER TYPE _____ GAL. LB. IN
 BLOCKING AGENT TYPE _____ GAL. LB.
 PERFPAC BALLS TYPE _____ QTY.
 OTHER _____

DEPARTMENT: Cmt Bulk
 DESCRIPTION OF JOB: Cmt 8 5/8" Surf Cong
 JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.
 CUSTOMER REPRESENTATIVE: X Rudy Keener
 HALLIBURTON OPERATOR: [Signature]
 COPIES REQUESTED: _____

CEMENT DATA

| STAGE | NUMBER OF SACKS | CEMENT | BRAND | BULK SACKED | ADDITIONS | YIELD CU. FT./BK. | MIXED LB./GAL. |
|-------|-----------------|--------|-------|-------------|--------------------------------|-------------------|----------------|
| 1 | 170 | S&B | 60/40 | B | 270 Gal, 370 CC JUL 17 1992 | 1.28 | 14.36 |

CONSERVATION DIVISION
Wichita, Kansas

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN INSTANT _____ 5-MIN. _____ 15-MIN. _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 FEET: 20' CEMENT LEFT IN PIPE: Requested

SUMMARY VOLUMES

LOAD & BKON: BBL. GAL. 3
 TREATMENT: BBL. GAL. 39
 CEMENT SLURRY: BBL. GAL. 57
 TOTAL VOLUME: BBL. GAL. 57
 REMARKS: See Job logs Chart
 Thank you Scott, Harold & Jack

CUSTOMER: Code Resources
 LEASE: Gustafson
 WELL NO.:
 JOB TYPE: Cmt Surf Cong
 DATE: 10-28-91

JOB LOG

CUSTOMER Castle Resources

FORM 2013 R-2

JOB TYPE Cmt 8 5/8" Surf Cong.

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 1930 | | | | | | | ORIGINAL On loc. Rig Crew Daily 12 1/4" Hole |
| | 2010 | | | | | | | Set up Eq. |
| | 2010 | | | | | | | Finish Hole-Circ. |
| | | | | | | | | Start out with Drill Pipe |
| | | | | | | | | Drill Pipe out. Rig up + run |
| | | | | | | | | 8 5/8" Cong |
| | 2145 | | | | | | | Cong on bottom. Rig up Plug |
| | | | | | | | | Cont. to mud pump |
| | 2153 | | | | | | | Break Circ |
| | 2220 | | | | | | | Fin Circ - Hook to Truck |
| | 2223 | 5 | | | | 225 | | St 120 |
| | 2224 | " | 3460 | | | " | | St 170 sks 60/40 - 290 gal, 375 cc |
| | 2234 | - | 39-Cmt | | | - | | Fin Cmt - Shut Down |
| | 2235 | 4 | | | | - | | Release Plug - St Drop |
| | 2240 | | 15/20 | | | 150 | | Plug down - Close Manifold |
| | | | | | | | | " 3 Bbl Cmt Circ." |
| | | | | | | | | Jobs Complete |
| | | | | | | | | " Thank You" |
| | | | | | | | | Sott, /hold /Sede |

RECEIVED
STATE CORPORATION COMMISSION
JUL 17 1992
CONSERVATION DIVISION
Wichita, Kansas