

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

API NO 15-051-24,844-0000 ORIGINAL

County Ellis

Approx CE2-E/2 SE Sec. 7 Twp. 11 Rge. 17 X E W

1370 Feet from S/M (circle one) Line of Section

330 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 Stein Well # 8

Field Name Bemis-Shutts

Producing Formation _____

Elevation: Ground: 1844' KB 1849'

Total Depth 3495' PBDT _____

Amount of Surface Pipe Set and Cemented at 1093' 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 ACT 1 3-8-94
(Data must be collected from the Reserve Pit)

Chloride content 10,000 ppm Fluid volume --- bbls

Dewatering method used Evaporation

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 # 3613

Name: Hallwood Petroleum, Inc.

Address: 4582 So. Ulster Street Parkway

Suite 1700

City/State/Zip Denver, CO 80237

Purchaser: _____

Operator Contact Person: _____

Phone: _____

Contractor: Name: Allen Drilling Company

License: 5418

Wellsite Geologist: Aven Weaverling, Foreman

Designate Type of Completion:

X New Well _____ Re-Entry X Workover

X Oil _____ SWD _____ SIOW _____ Temp. Abd.

_____ Gas X ENHR _____ SIGW

_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator: N/A

Well Name: _____

Comp. Date _____ Old Total Depth _____

_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD

_____ Plug Back _____ PBDT

_____ Commingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. 8-28-93

7/24/93 7/31/93 8/28/93

Spud Date Date Reached TD Completion Date

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 Bruce Hoffman
Title SR Res ENGR Tech Date 3-3-94

Subscribed and sworn to before me this 3rd day of March, 1994.

Notary Public: Ada M. Christian
Date Commission Expires 9/1/97

RECEIVED
STATE CORPORATION COMM

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached

C Wireline Log Received

C Geologist Report Received

MAR 07 1994
3-7-94

CONSERVATION DIVISION
Wichita, Kansas

Distribution

KCC _____ SWD/Rep _____

_____ KGS _____ Plug _____

Other _____
(Specify)

SIDE TWO

Operator Name Hallwood Petroleum, Inc. Lease Name Stein Well # 8

Sec. 7 Twp. 11 Rge. 17 East West
 County Ellis

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.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run (Submit Copy.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No List All E.Logs Run: Logs, samples and DST's previously filed with KCC. This was a conversion of a producing well to injection.	<input type="checkbox"/> Log Formation (Top), Depth and Datum: <input type="checkbox"/> Sample <table border="0" style="width:100%"> <tr> <td>Name:</td> <td>Top</td> <td>Datum:</td> </tr> <tr> <td>Anhydrite</td> <td>1094</td> <td>+755</td> </tr> <tr> <td>Howard</td> <td>2775</td> <td>-926</td> </tr> <tr> <td>Severy</td> <td>2787</td> <td>-938</td> </tr> <tr> <td>Topeka</td> <td>2800</td> <td>-951</td> </tr> <tr> <td>Heebner</td> <td>3027</td> <td>-1178</td> </tr> <tr> <td>Toronto</td> <td>3049</td> <td>-1200</td> </tr> <tr> <td>Lansing</td> <td>3071</td> <td>-1222</td> </tr> <tr> <td>B/KC</td> <td>3301</td> <td>-1452</td> </tr> <tr> <td>Conglomerate</td> <td>3320</td> <td>-1471</td> </tr> <tr> <td>Conglomerate Chert</td> <td>3327</td> <td>-1478</td> </tr> <tr> <td>Simpson Shale</td> <td>3347</td> <td>-1498 (cont'd...)</td> </tr> </table>	Name:	Top	Datum:	Anhydrite	1094	+755	Howard	2775	-926	Severy	2787	-938	Topeka	2800	-951	Heebner	3027	-1178	Toronto	3049	-1200	Lansing	3071	-1222	B/KC	3301	-1452	Conglomerate	3320	-1471	Conglomerate Chert	3327	-1478	Simpson Shale	3347	-1498 (cont'd...)
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8"	25#	1093'	40/60 Poz	490	3%cc, 1/4# floccul per sk.
Production	7 7/8	5 1/2	14	3493'	Common	225	2% gel 1/4# Floccul, 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				N/A
<input type="checkbox"/> Plug Back TD				N/A
<input type="checkbox"/> Plug Off Zone				N/A

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
4 4	3434-36' 3419-21'	2986-94 2000 gal. 15% HCL & NE 2828-35 2000 gal. 15% HCL & NE
4 4	3406-08' 3394-97'	3434-36 + 3419-21, 3381-83 squeezed 2/150 sx Halid 9
4 2	3384-87' 2986-94'	2986-94 225 sx 60/40 poz, 2% gel, 2% cc 2825-35 100 sx 60/40 poz, 2% gel
2 CIBP's @ 3390	2828-35' the 3015, then 2861, then 3403, then 3416.	

TUBING RECORD	Size 2 7/8	Set At 3460	Packer At 3430	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
Date of First, Resumed Production, SWD or Inj. 8/28/93	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Injection Well Other (Explain)							
Estimated Production Per 24 Hours	Oil 6	Bbls.	Gas -0-	Mcf	Water 411	Bbls.	Gas-Oil Ratio -0-	Gravity

Disposition of Gas: **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Comingled Topeka/Lansing
 (If vented, submit ACO-18.) Other (Specify) _____ Injection

Hallwood Petroleum

Attachment to ACO-1 for Stein #8

"Continuation of formation tops"

ORIGINAL

<u>Name</u>	<u>Top</u>	<u>Datum</u>
1st Simpson Dolomite	3356	-1507
2nd Simpson Dolomite	3362	-1513
Simpson Sand	3381	-1532
Arbuckle	3383	-1534
Rotary Total Depth	3495	-1646
Log Total Depth	3496	-1647

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STATE CORPORATION COMMISSION

MAR 07 1994

CORPORATION DIVISION
Wichita, Kansas

KANSAS DRILLING REPORT

ORIGINAL

R. STEIN #8
 Ellis County, Kansas
 Bemis-Shutts Field
 OP: Hallwood Petroleum, Inc.

Procedure: Drill and complete a Lansing-Kansas City,
 Arbuckle producing oil well.

- 07-25-93 PO: Drilling. TD @ Report Time 905'. Drld 905' in 13 3/4 hrs., 66 ft/hr. Mud Weight: 10.1. Survey: 1 1/4 deg. @ 518'. Move in Rigged up Allen Rig #3. Spudded @ 15:30 hrs. Drilling 12 1/4 surface hole. Drilled 1094' of 12 1/4" hole and set 26 Jts of 25# casing and set @ 1093', cemented w/360 sx hal lite w/3% cc and 1/4# flocele and tailed w/130 sx 60/40 poz w/3% cc no gel. Good circ. and cement did circ. Plug down 16:15 hr.
 DC: \$7,509 CC: \$7,509
- 07-26-93 PO: Drilling. TD @ Report Time 1425'. Drld 520' in 9 3/4 hrs., 53 1/2 ft/hr. Mud Weight: Natural. Operations Survey: 1 deg. 1094'. Drilled 1094' 12 1/4 hole. to Anhydrite 1087'. GL 1844' - KB 1849. Ran 26 jt. 8 5/8" casing 25#. Set @ 1093'. Cemented w/360 sx. HOWCO Lite w/3% cc and 1/4# Flocele. Tailed w/130 sx 60/40 poz w/2% cc, no gel. Good circ. Cement did circ. Plug down at 16:25 hrs. WOC 8 hr. Drilled out shoe @ 01:00 hrs. Good hard cement. Drilling ahead.
 DC: \$16,125 CC: \$23,634
- 07-27-93 PO: Drilling ahead. TD @ Report Time 2390'. Drld 965' in 23 hrs., 42 ft/hr. Mud Weight: Natural. Survey: 1 1/4 deg. @ 2325'. Drilling ahead.
 DC: \$7,438 CC: \$31,072
- 07-28-93 PO: DST #1 Upper Topeka. TD @ Report Time 2842'. Drld 452' in 14.75 hrs., 30 1/2 ft/hr. Mud Weight: 8.8. Survey: 3/4 deg. @ 2842'. Displaced w/chemical polymer mud @ 2723'. Top of Topeka @ 2800 (-951). 2' high to Carmichael D #6. DST #1 Topeka 2822-42, 30-30-30-30, weak blow. No blow on final opening. Present Operation Pulling DST.
 DC: \$5,509 CC: \$36,581
- 07-29-93 PO: Drilling. TD @ Report Time 3260'. Drld 418' in 20.75 hrs., 20 ft/hr. Mud Weight: 9.2. DST #1 Topeka 2822-2842 30-30-30-30, Weak Blow. Recovered 45' mud. ISIP 887 FSIP 867 IFP 39 FFP 39.
 Tops
 Hebener 3027 (-1178)
 Toronto 3047 (-1198)
 Lansing 3070 (-1221) 4' high to car D #6
 Drilling ahead looking for Simpson Sand and Arbuckle.
 DC: \$3,820 CC: \$40,401
- 07-30-93 PO: CFS in Arbuckle form. TD @ Report Time 3392'. Drld 132' in 8 1/4 hrs., 16 ft/hr. Mud Weight: 9.3. Surveys: 1 1/4 deg

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 MAB-07 1994
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 Wichita, Kansas

ORIGINAL

- @ 3383'. DST #2 Simpson 3298-3383' 30-45-60-90. Weak blow building to 1 1/3". Recovered 60', clean oil, 40' oil cut gassy mud. ISIP 828. FSIP 847, IFP 59-68, FFP 78-98. Top Arb 3385' 6' high to Carmichael D #6.
DC: \$4,929 CC: \$445,330
- 07-30-93 PO: CFS in Arbuckle form. TD @ Report Time 3392'. Drld 132' in 8 1/4 hrs., 16 ft/hr. Mud Weight: 9.3. Surveys: 1 3/4 deg. @ 3383'. DST #2 Simpson, 3298-3383, 30-45-60-90. Weak blow building to 1 1/2". Recovered 60' clean oil, 40' oil cut mud. ISIP 828 FSIP 847 IFP 59 FFP 98. Top Arb 3385', 6' high to Carmichael D#6.
DC: \$4,929 CC: \$45,330
- 07-31-93 Waiting on from the field.
08-01-93 PO: Released Rig. TD @ Report Time @ 3495'. Drld 81' in 3 1/2 hrs., 23 ft/hr. Mud Weight 9.3. Drilled to 3495'. Logged well w/HLS. TD 3491. Layed down drill pipe. Ran 90 jt w/5 1/2 14 and 15.5# 8rd casing. Set end of casing @ 3494'. Rotated pipe w/cementing. P flush w/50 Bbls salt flush. Cemented w/225 sx common w/5% EA-2, 10% salt, 3/4% Halid 322 w/5# gilsonite and 1/4# Flocele in last 125 . Good circ through out job. Plug down @ 05:45 hrs. Set slips. Released rig.
DC: \$27,020 CC: \$78,112
- 07-30-93 PO: CFS in Arbuckle form. TD @ Report Time 3392'. Drld 132' in 8 1/4 hrs., 16 ft/hr. Mud Weight: 9.3. Surveys: 1 3/4 deg. @ 3383'. DST #2 Simpson, 3298-3383, 30-45-60-90. Weak blow building to 1 1/2". Recovered 60' clean oil, 40' oil cut mud. ISIP 828 FSIP 847 IFP 59-68 FFP 78-98 Top Arb 3385', 6' high to Carmichael D#6.
DC: \$4,929 CC: \$45,330
- 07-31-93 PO: DST #4, Arbuckle formation. TD @ Report Time 3414'. Drld 22' in 1 1/4 hrs. 17 1/2 ft/hr. Mud Weight: 9.3. DST #3 Arbuckle 3385-92, 30-30-30-45, strong blow - recovered 20' clean oil. 154' OCMW, 5% gas, 20% oil, 20% water, 55% mud - 558' OCMW, 5% gas, 10% oil, 55% Water, 30% mud - 1524' water. ISIP 1050# FSIP 1051#, IFP 789-1051, FFP 1051-1051. DST #4 Arbuckle 3405-14, 30-30-30-30 strong blow recovered. 20' clean oil -216' OCM, 10% oil, 30% water, 60% mud - 930' SO & MCW, 5% oil, 85% water, 10% mud. 942' water. ISIP 1156#, FSIP 1156#, IFP 319-684, FFP 789-957.
DC: \$5,792 CC: \$51,092
- 08-01-93 PO: Released Rig. TD @ Report Time @ 3495'. Drld 81' in 3 1/2 hrs., 23 ft/hr. Mud Weight 9.3. Drilled to 3495'. Logged well w/HLS. TD 3491. Layed down drill pipe. Ran 90 jts 5 1/2" 14 and 15.5# 8rd casing. Set end of casing @ 3494'. Rotated pipe while cementing. Pre flush w/50 Bbls salt flush. Cemented w/225 sx common w/5% EA-2, 10% salt, 3/4% Halid 322 w/5# gilsonite and 1/4# Flocele in last 125 sxs. Good circ through out job. Plug down @ 05:45 hrs. Set slips. Released rig.
DC: \$27,020 CC: \$78,112
- 08-02-93 Waiting on Completion.
thru
08-07-93 Waiting on Completion.

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MAR 07 1994

CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

- DC: \$0 CC: \$78,112
08-08-93 Rigged up OWS, ran 4 7/8 bit to 3470', drilled small amount of cement to 3474'. Circ hole clean w/80 bbls salt water. Pulled bit. Rigged up Log-teck, ran cement bond, collar bond log. Td 3474'. Swabbed fluid down to 2800'. Ran 2', 4 shots per ft. Perf Simpson sand @ 3881-83'. SD
DC: \$8,180 CC: \$86,292
- 08-09-93 Ran Model "R" Packer and tested tubing to 5,000#, found 2 bad jts and 2 bad collars. Set packer @ 3374'. Zone @ 3381-83'. Swab fluid down from 2700' to the packer recovered 3.48 Bbls. 1 hr tested dry. Dumped 100 gal. mud acid and spotted on frm. Loaded hole w/fluid. SD
DC: \$3,170 CC: \$89,462
- 08-10-93 Ran tubing, fluid level 120 ft. from surface, swab tubing down recovered 18.72 Bbls water. Tested dry 30 min. Opened bypass on packer, let fluid equalize in hole, dump 100 gal, 15% mud acid, load tubing w/water, let set 2 hrs., tubing swabbed dry. Tested 1 hr, tubing dry. Closed well in. Shut rig down for day.
DC: \$1,535 CC: \$90,997
- 08-11-93 Ran tubing swab 15 hrs fillup tubing dry. Released packer. Let fluid equalize, Spot 15%. Mud acid over formation @ 3381-83'. Set packer @ 3374', load tubing. Pressure tubing 100#, let set, went to 0 psi, repressured to 100 psi and increased pressure to 200 psi, increased to 300 psi, increased to 400 psi, increased to 450 psi, bleed off pressure, load annulus, open bypass on packer, pump 1/3 bbl water down tubing to put fresh acid on formation. Pulled 8' pup jt. Reset packer @ 3366'. Repressured tubing to 500#, well started taking fluid, formation feeding @ 0.14 bbl per min @ 300#. Stop pump, well taking 0.11 bbls per min on vacuum. 1 bbl over flush in @ 1.75 Bbls per min on vacuum. Start swab down. Treatment Summary: 200 gal, 15% mud acid, 21 1/4 bbls lease water, 26 bbls treating, max pressure 500#, min pressure 250#, ISIP vacuum, avg. rate 0.03 bbls. Fluid level 1100' from surface @ start of swab down. Recovered 12.26, 13.24 bbls short of treating load.
1st Hr: .29 bbls rec'd water, 4 pulls per hr.
2nd Hr: .29 bbls rec'd water, 4 pulls per hr.
3rd Hr: 2 pulls per hr. 1st pull swabbed into barrell recovered 5.22 gal. Second pull 400' fluid in hole, rec'd 2.31 bbls, ran swab right back in pulled 200' fluid 1.15 bbls. Total fluid rec'd for hr. 3.46 bbls.
4th hr: Pulled 4 pulls per hr, 1st pull of hr. 300' A.S.N. Second pull of hr. 170' ASN. Third pull of hr. 140' ASN. Fourth pull of hr. 150' ASN. Rec'd 4.06 bbls fourth hr.
5th Hr: 1.45 bbls rec'd 4 pulls, first pull fluid level 100' ASN. Second pull, 60' A.S.N., third pull, 40 ft. 17 SN, fourth pull 30' A.S.N. Closed well in. Shut rig down for day.
Total fluid recovered 21.73 bbls, 4.27 bbls short of load.
DC: \$2,265 CC: \$43,262
- 08-12-93 Ran tubing swab 13 hrs fillup 2200' Above Seating Nipple (ASN).

2195 water, 5' oil. Swabbed well down 19.21 Bbls. Start test.

1st Hr: 4 pulls per hr, 3.48 Bbls fluid @ 1% oil, 170' avg.
A.S.N.

2nd Hr: 4 pulls per hr, 3.48 Bbls, fluid @ 1% oil, 140' avg.
A.S.N.

3rd Hr: 4 pulls per hr, 2.68 Bbls, fluid @ 1% oil, 140' avg.
A.S.N.

4th Hr: 4 pulls per hr, 2.61 Bbls, fluid @ 1% oil, 100' avg.
A.S.N.

5th Hr: 4 pulls per hr, 2.32 Bbls, fluid @ 1% oil, 100' avg.
A.S.N.

Released packer, pulled tubing and packer closed well in shut rig down for day.

Total fluid recovered for day 27.71 Bbls.

DC: \$1,485

CC: \$94,747

08-12-93

Rig up Log-Tech, Gun #1; Perf Arbuckle @ 3434-36', 4 SPF Fluid level 1100' from surface. Gun #2; Perf Arbuckle @ 3419-21', 4 SPF, Fluid level 1100' from surface. Gun #3; Perf Arbuckle @ 3406-08', 4 SPF, Fluid level 1080' from surface. Gun #4; Perf Arbuckle @ 3394-97', 4 SPF, Fluid level 1050' from surface. Gun #5; Perf Arbuckle @ 3384-87', 4 SPF, Fluid level 1015' from surface. Gun #6; Perf Plattsmouth @ 2986-94', 2 SPF. Gun #7; Perf Topeka @ 2828-35', 2 SPF, Fluid level 1000' from surface. Tallied and ran 2 7/8" tubing w/R Packer and lock set bridge plug. Set bridge plug @ 3460' and R Packer @ 3430' straddling Arbuckle Perfs @ 3434-36'. Start swab down. Rec'd 24.36 bbls, all wtr. Fluid level 1300' from surface, 2130' ASN.

1st Hr: 23.78 Bbls, show oil, fluid 2430' ASN, 4 pulls per hr.

3rd Hr: 23.40 Bbls, show oil, fluid 2430' ASN, 4 pulls per hr.

4th Hr: 22.91 Bbls, show oil, fluid 2430' ASN, 4 pulls per hr.

117.85 Bbls Rec'd. Closed well in, Shut rig down for day.

DC: \$3,249

CC: \$97,996

08-13-93

TIH w/tubing. Check 13 hr fill-up from Arbuckle formation @ 3434-36'. Fluid 900' from surface, all water. Released Packer & bridge plug. Reset B-Plug @ 3427' and Packer @ 3413' straddling Arbuckle formation @ 3419-21'. Start swab down. Fluid 900' from surface. Swabbed 22.91 Bbls water. Fluid level holding @ 2380' ASN.

1st Hr: 4 pulls, Rec'd 23.20 Bbls wtr, Fluid level 2500' ASN.

2nd Hr: 4 pulls, Rec'd 23.20 Bbls wtr, Fluid level 2500' ASN.

3rd Hr: 4 pulls, Rec'd 23.20 Bbls wtr, Fluid level 2500' ASN.

92.51 Bbls total fluid rec'd. Released Packer & Plug. Reset B

plug @ 3414' and Packer @ 3401' straddling Arbuckle formation

@ 3406-08'. Fluid level 1000' from surface @ start of swab

down. Rec'd 19.72 Bbls, good oil show, fluid level 200' ASN.

Start test:

1st Hr: 4 pulls, 18.50 Bbls, 5% oil, Fluid level 1400' ASN,
swabbing from 2800'.

2nd Hr: 4 pulls, 19.14 Bbls, 5% oil, Fluid level 1350' ASN,
swabbing from 2850'.

3rd Hr: 4 pulls, 19.72 Bbls, 4% oil, Fluid level 1300' ASN,

- swabbing from 2900'.
- 4th Hr: 4 pulls, 19.72 Bbls, 4% oil, Fluid level 1300' ASN, swabbing from 2900'.
- 96.80 Bbls rec'd. Closed well in. Shut rig down for day.
 DC: \$1,660 CC: \$99,656
- 08-14-93 RIH w/tubing swab. 14 hr fill-up 900' from surface, 2500' ASN, 100' of oil, 2400' water, 4% oil from Arbuckle @ 3406-08'. Reset Bridge plug @ 3402' and R-Packer @ 3390' straddling Arbuckle formation @ 3394-97. Start swab down. Rec'd 22.04 bbls on swab down, swabbing from 2000'. Start test:
 1st Hr: 4 pulls, 19.72 Bbls, 1% oil fluid level 2290' ASN.
 2nd Hr: 4 pulls, 20.30 Bbls, 1% oil, fluid level 2290' ASN.
 3rd Hr: 4 pulls, 20.30 Bbls, 1% oil, fluid level 2290' ASN.
 Total fluid rec'd 82.36 bbls. Released tools and reset plug and packer. Reset B-Plug @ 3390' & R Packer @ 3363' straddling Arbuckle formation 33.84-87 and Simpson @ 3381-83'. Start swab down. Rec'd 20.04 Bbls, Fluid level 2360' ASN.
 1st Hr: 4 pulls, 20.01 Bbls, 1/2% oil, Fluid level 2260' ASN.
 2nd Hr: 4 pulls, 17.40 Bbls, 1/2% oil, Fluid level 2260' ASN.
 3rd Hr: 4 pulls, 20.88 Bbls, 1/2% oil, Fluid level 2260' ASN.
 Rec'd 80.33 Bbls. Closed well in. Shut rig down for day.
 DC: \$1,385 CC: \$101,041
- 08-15-93 Test tools are straddling Arbuckle @ 3384-87' and Simpson @ 3381-83', 40 hr. fill-up 2263' ASN. 60' oil, 2203' water. Released tools and reset bridge plug @ 3015' and packer @ 2980' straddling Plattsmouth formation @ 2986-94'. Start swab down. Fluid 1980' ASN, swabbed formation rec'd 11.89 bbls water. Swabbed tested 4 hrs, 2 pulls/hr swabbed dry. Released Pkr @ swing packer @ 2998'. Rig up Oilman's acid, load hole, set Pkr @ 2998'. Test plug & Pkr to 2000 psi. Released pkr, spot acid on formation, set pkr @ 2980', treat formation w/2000 gal, 15% HCL acid w/clay stay & NE. Flushed w/20 Bbls lease water, 2 bbls over. Total treating load 68 Bbls, Max. press 600#, Min. Press 150#, Avg Press 375#, ISIP 100#, 7 min. to vaccuum. Avg rate 1.35 Bbls/min. Start swab down. Rec'd 29.58 Bbls water, fluid level 300' ASN.
 1st Hr: 4 pulls, 4.06 Bbls, 1% oil, Fluid level 190' avg ASN.
 2nd Hr: 4 pulls, 2.61 Bbls, 3% oil, Fluid level 100' avg ASN.
 3rd Hr: 4 pulls, 1.45 Bbls, 3% oil, Fluid level 60' avg ASN.
 Total fluid rec'd 37.70 Bbls. 30.30 Bbls short of treating load. Closed well in, shut rig down for day.
 DC: \$3,487 CC: \$104,528
- 08-16-93 No report.
- 08-17-93 11 Hr fill-up: Plattsmouth formation. 2986-94', 500' ASN, 5' oil, 450' wtr. Released plug and packer. Reset Bridge plug @ 2861 and packer @ 2823' straddling Topeko formation @ 2828-35. Swabbed tubing down, rec'd 11.02 bbls wtr.
 1st Hr: Rec'd 2.81 gal. wtr.
 2nd Hr: Rec'd 1.61 gal. wtr.
 3rd Hr: Rec'd 1.61 gal. wtr.
 Released packer, set pkr 2841'. Press test plug, release pkr, load hole, spot acid on formation, set pkr @ 2823', treat Topeka formation w/2000 gal, 15% NE HCL, w/clay stay, flushed w/18 1/2 bbls lease wtr. Total treating load 66 1/2 bbls. Max

ORIGINAL

press 200#, Min Press 100#, Avg Press 150#, ISIP 100#, 46 Min to vacuum, avg rate 1.39 bbls/min. Start swab down, rec'd 28.81 bbls w/show oil.

1st Hr: 4 pulls, rec'd 4.93 bbls, 3% oil, avg Fluid level 250' ASN.

2nd Hr: 4 pulls, rec'd 3.77 bbls, 5% oil, avg Fluid level 180' ASN.

3rd Hr: 4 pulls, rec'd 2.61 bbls, 5% oil, avg Fluid level, 145' ASN.

4th Hr: 4 pulls, rec'd 2.32 bbls, 5% oil, avg Fluid level 100' ASN.

Total fluid rec'd 39.44 bbls, 27.06 bbls short of treating load. Closed well in. Shut rig down for day.

DC: \$3,187

CC: \$107,715

08-18-93

13 hr fill-up: Topeka formation 2828-35', 1400' ASN. 3' oil, 1397' wtr. Rec'd 9.28 bbls fluid, start test.

1st Hr: 4 pulls, 2.61 bbls @ 3% oil, 140' fluid ASN.

2nd Hr: 4 pulls, 2.32 bbls @ 3% oil, 90' fluid ASN.

Total fluid rec'd 14.21 bbls/day. 53.65 bbls rec'd from formation, 14.85 bbls short of treating load.

DC: \$835

CC: \$108,550

08-19-93

Pulled 2 7/8 tubing plug & pkr. Rig up log tech. Set 5 1/2" CIBP @ 3403' cap w/5 gal cement. Ran 2 7/8" tubing w/R packer, squeezed off Arbuckle formation @ 3434-36' & 3419-21', Simpson @ 3381-83', w/25 sks Halid 9 and followed w/25 sks common squeezed w/32 sks in formation @ 1400#. Reset pkr above Plattsmouth @ 2986-94'. Pump 150 sks 60/40 poz, 2% gel and 2% cc. Pumped that cement away, re-squeezed w/75 sks 60/40 poz, 2% gel, 2% cc, squeezed w/1500#. Reset R pkr above 2828-35' Topeka formation. Pumped 100 sks 60/40 poz, 2% gel, 2% cc. Stage for 1 hr 30 min., got cement to set w/100# pressure, flushed around tool. Pulled pkr 60' above squeeze & reset, put 135# press on squeeze. Closed well in. Shut rig down for day.

DC: \$1,239

CC: \$115,789

08-20-93

Pressured up on squeeze @ 2828-35', 500# holding, pulled tubing and packer, ran tubing w/4 7/8" bit, drilled 81' cement, above and through zone. Drilled 24' cement above and through Plattsmouth 2986-94'. Rotated and circulated down to 3307' drilled to top of CIBP @ 3403'. Press csg to 500#, drilled out CIBP circulated hole clean pushed CIBP to bottom pulled 250' tubing. Shut rig down for day.

DC: \$2,690

CC: \$118,479

08-21-93

Pulled 2 7/8" tubing and 4 7/8 bit. Rig up Log Tech, set CIBP top of plug @ 3416'. Plugging off Arbuckle @ 3419-21' and 3434-36', Cap plug with 1/2 sk. cement. Ran 2 7/8" tubing. Set Bbl @ approx 2770' & swabbed tubing. Start swab down, FL 700' from surface. Rec'd 41.76 bbls.

1st Hr: 4 pulls, 10.73 Bbls, 1/2% oil, Fluid 517' above Bbl.

2nd Hr: 4 pulls, 10.73 Bbls, 1% oil, Fluid 517' above Bbl.

3rd Hr: 4 pulls, 11.02 Bbls, 2% oil, Fluid 517' above Bbl.

72.24 Bbls rec'd. Closed well in, shut rig down for day.

DC: \$3,445

CC: \$121,924

08-22-93

Shut down due to muddy location - no costs.

thru

08-23-93 Shut down due to muddy location - no costs.

08-24-93 Checked fill up had fluid level @ 950' from surface w/10' of oil. Set tubing 5' off bottom. Ran valve and rods, hung well on. Rigged down. Layed 1280' of 3" PVC lead line, made creek crossing. Made unit pad. Hooked up electric line and layed in 330' of 6/3 wire. Set size 3 control box. Set unit.
DC: \$21,226 CC: \$143,150

08-25-93 Put to pumping. Early test 499 Bbls total, w/lease of oil, 12 SPM x 74" stk x 2 1/4".
DC: \$0 CC: \$143,150

08-26-93 Waiting on report.

08-27-93 Waiting on report.

08-28-93 6 BO, 411 BW in 24 hrs.

08-29-93 5 BO, 412 BW in 24 hrs.

08-30-93 411 Bbl Stock, 4 BO, 407 BW in 24 hrs.

08-31-93 419 Bbl Stock, 6 BO, 413 BW in 24 hrs.

09-01-93

09-02-93 425 Bbl Stock, 3 BO, 422 BW in 24 hrs.

09-03-93 425 Bbl Stock, 3 BO, 422 BW in 24 hrs.

09-04-93 421 Bbl Stock, 4 BO, 421 BW in 24 hrs.

09-05-93 427 Bbl Stock, 3 BO, 424 BW in 24 hrs.

09-06-93 432 Bbl Stock, 2 BO, 430 BW in 24 hrs.

09-07-93 425 Bbl Stock, 2 BO, 423 BW in 24 hrs.

09-08-93 425 Bbl Stock, 7 BO, 418 BW in 24 hrs.

09-09-93 445 Bbl Stock, 4 BO, 0 BW in 24 hrs.

09-10-93 4 Bbl Stock, 2 BO, 430 BW in 24 hrs.

09-11-93 3 Bbl Stock, 2 BO, 424 BW in 24 hrs.

09-12-93 5 Bbl Stock, 3 BO, 430 BW in 24 hrs.

09-13-93 2 Bbl Stock, 2 BO, 428 BW in 24 hrs.

09-14-93 4 Bbl Stock, 2 BO, 426 BW in 24 hrs.

09-15-93 5 Bbl Stock, 2 BO, 417 BW in 24 hrs.

09-16-93 5 Bbl Stock, 2 BO, 449 BW in 24 hrs.

09-18-93 3 Bbl Stock, 2 BO, 430 BW in 24 hrs.

09-19-93 4 Bbl Stock, 2 BO, 428 BW in 24 hrs.

09-20-93 4 Bbl Stock, 2 BO, 425 BW in 24 hrs.

09-21-93 5 Bbl Stock, 2 BO, 425 BW in 24 hrs.

09-22-93 3 Bbl Stock, 2 BO, 430 Bw in 24 hrs.

09-23-93 No report.

09-24-93 0 Bbl Stock, 2 BO, 428 BW in 24 hrs.

09-25-93 0 Bbl Stock, 2 BO, 428 BW in 24 hrs.

09-26-93 0 Bbl Stock, 2 BO, 428 BW in 24 hrs.

09-27-93 0 Bbl Stock, 2 BO, 430 BW in 24 hrs.

09-28-93 0 Bbl Stock, 2 BO, 430 BW in 24 hrs.

09-29-93 0 Bbl Stock, 2 BO, 421 BW in 24 hrs.

09-30-93 0 Bbl Stock, 2 BO, 421 BW in 24 hrs.

10-01-93 0 Bbl Stock, 1 BO, 464 BW in 24 hrs.

10-02-93 0 Bbl Stock, 1 BO, 466 BW in 24 hrs.

10-03-93 0 Bbl Stock, 1 BO, 463 BW in 24 hrs.

10-04-93 0 Bbl Stock, 1 BO, 465 BW in 24 hrs.

10-05-93 5 Bbl Stock, 1 BO, 461 BW in 24 hrs.

10-06-93 4 Bbl Stock, 1 BO, 426 BW in 24 hrs.

ORIGINAL

10-07-93 3 Bbl Stock, no test well down - working on electric.
10-08-93 3 Bbl Stock, 1 BO, 429 BW in 24 hrs.
10-09-93 1 Bbl Stock, 1 BO, 466 BW in 24 hrs.
10-10-93 3 Bbl Stock, 1 BO, 463 BW in 24 hrs.
10-11-93 5 Bbl Stock, 1 BO, 462 BW in 24 hrs.
10-12-93 5 Bbl Stock, 1 BO, 466 BW in 24 hrs.
10-13-93 No report.
10-14-93 ? Bbl Stock, 1 BO, 426 BW in 24 hrs.
10-15-93 3 Bbl Stock, 1 BO, 446 BW in 24 hrs.
10-16-93 3 Bbl Stock, 1 BO, 451 BW in 24 hrs.
10-17-93 3 Bbl Stock, 1 BO, 448 BW in 24 hrs.

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Drill-Stem Test Data API# 15-051-24844

Well Name R STEIN #8 Test No. 1 Date 7/28/93
 Company HALLWOOD PETROLEUM INC. Zone TOPEKA
 Address P.O. BOX 378111 DENVER CO 80237-8111 Elevation 1849
 Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN RIG #3 Est. Ft. of Pay _____
 Location: Sec. 7 Twp. 11S Rge. 17W Co. ELLIS State KS

Interval Tested 2822-2842
 Anchor Length 20
 Top Packer Depth 2817
 Bottom Packer Depth 2822
 Total Depth 2842

Drill Pipe Size 4.5" XH
 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Drill Collar - 2.25 Ft. Run _____
 Mud Wt. 8.8 lb/Gal.
 Viscosity 40 Filtrate 11.2

Tool Open @ 4:10 AM Initial Blow SLID TOOL 12' TO BOTTOM - 2" BLOW
DECREASING TO WEAK STEADY SURFACE BLOW
 Final Blow NO BLOW - FLUSHED TOOL - NO HELP

ORIGINAL

Recovery - Total Feet 45

Flush Tool? NO

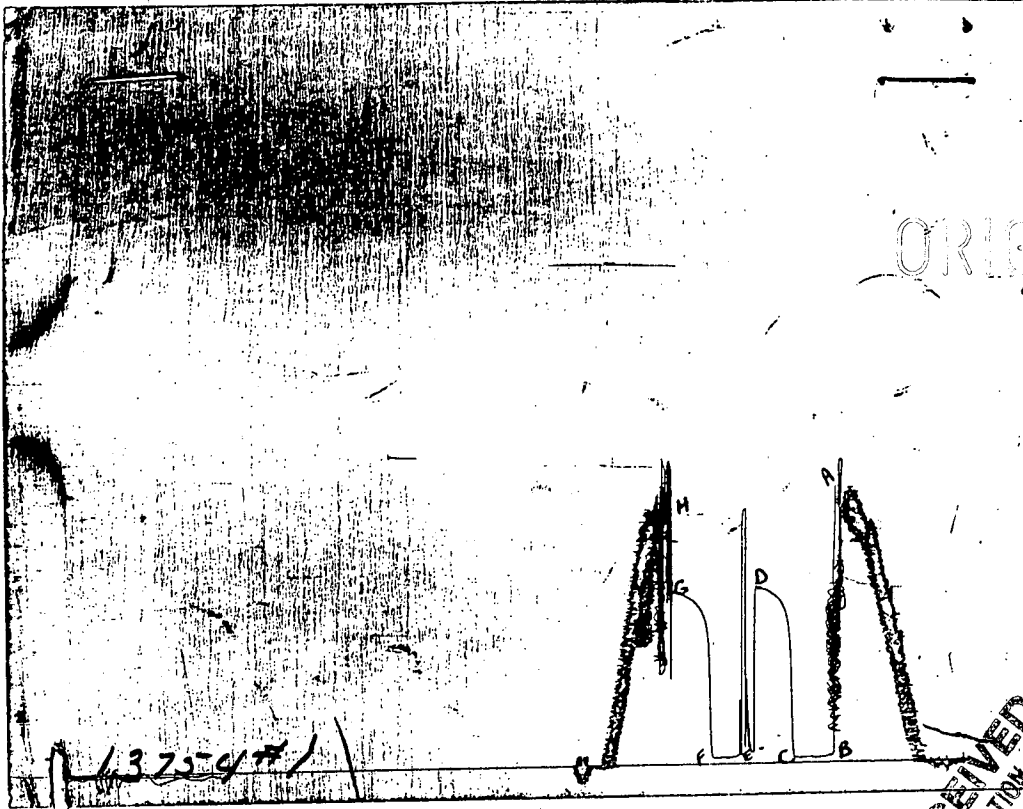
Rec. 45 Feet of DRILLING MUD
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____

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BHT 99 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 1363.1 PSI AK1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 40.7 PSI @ (depth) 2826 w / Clock No. 27501
 (C) First Final Flow Pressure 40.7 PSI AK1 Recorder No. 7437 Range 4200
 (D) Initial Shut-in Pressure 901.5 PSI @ (depth) 2838 w / Clock No. 27567
 (E) Second Initial Flow Pressure 37.4 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 37.4 PSI @ (depth) _____ w / Clock No. _____
 (G) Final Shut-in Pressure 879.5 PSI Initial Opening 30 Final Flow 30
 (H) Final Hydrostatic Mud 1273.2 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative DAN BANGLE



ORIGINAL

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1386	1363.1
(B) FIRST INITIAL FLOW PRESSURE	39	40.7
(C) FIRST FINAL FLOW PRESSURE	39	40.7
(D) INITIAL CLOSED-IN PRESSURE	887	901.5
(E) SECOND INITIAL FLOW PRESSURE	39	37.4
(F) SECOND FINAL FLOW PRESSURE	39	37.4
(G) FINAL CLOSED-IN PRESSURE	867	879.5
(H) FINAL HYDROSTATIC MUD	1286	1273.2

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Test Ticket

ORIGINAL

No 6155

"Dry"

Well Name & No. R. Stein #8 Test No. 1 Date 7-28-93
 Company Hallwood Petro. Inc Zone Tested Topeka
 Address 45825. Ulster, St. Parkway, Denver Colo. Elevation 1849 H.B.
 CO. Rep./Geo. Tim Musgrove cont. Alisa #3 Est. Ft. of Pay _____
 Location: Sec. 7 Twp. 11 Rge. 17 Co. Ellis State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 2822-2842 Drill Pipe Size 4.5" XH
 Anchor Length 20 Top Choke — 1" _____ Bottom Choke — 1/4" _____
 Top Packer Depth 2817 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 2822 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 2842 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 8.8 lb/gal. Viscosity 40 Filtrate 11.2
 Tool Open @ 4:10 a.m. Initial Blow Slid Tool 12' To bottom - 2'
blow decreasing to weak steady surface blow
 Final Blow No blow - flushed tool - No help.

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>45</u>		<input checked="" type="checkbox"/>
Rec. <u>45</u> Feet Of <u>D.M.</u>	% 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 _____	
Rec. _____ Feet Of _____	% gas _____ % oil _____ % water _____ % mud _____	

BHT 99 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud 1386 PSI AK1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 39 PSI @ (depth) 2826 w/Clock No. 27501
 (C) First Final Flow Pressure 39 PSI AK1 Recorder No. 7437 Range 4200
 (D) Initial Shut-In Pressure 887 PSI @ (depth) 2838 w/Clock No. 27567
 (E) Second Initial Flow Pressure 39 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 39 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 867 PSI Initial Opening 30 Test 600.00
 (H) Final Hydrostatic Mud 1286 PSI Initial Shut-In 30 Jars _____

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Approved By Tim Musgrove
 Our Representative Dan Danfe

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Final Flow 30 Safety Joint _____
 Final Shut-In _____ Straddle _____
 Circ. Sub _____
 Sampler _____
 Extra Packer _____
 Other _____
 TOTAL PRICE \$ 600.00

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

ORIGINAL

Well Name R STEIN #8 Test No. 2 Date 7/29/93
Company HALLWOOD PETROLEUM INC. Zone SIMPSON
Address P.O. BOX 378111 DENVER CO 80237-8111 Elevation 1849
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN RIG #3 Est. Ft. of Pay 2
Location: Sec. 7 Twp. 11S Rge. 17W Co. ELLIS State KS

Interval Tested 3298-3383
Anchor Length 85
Top Packer Depth 3293
Bottom Packer Depth 3298
Total Depth 3383

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run _____
Mud Wt. 9.2 lb/Gal.
Viscosity 45 Filtrate 8.8

Tool Open @ 8:10 PM Initial Blow WEAK - BUILDING TO 1.5"

Final Blow WEAK - BUILDING TO 1/2"

Recovery - Total Feet 100 Flush Tool? NO

Rec. 60 Feet of CLEAN GASSY OIL - 10% GAS/ 90% OIL
Rec. 40 Feet of OIL CUT GASSY MUD - 10% GAS/ 40% OIL/ 50% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity 34 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 2048.9 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 68.3 PSI @ (depth) 3299 w / Clock No. 27501

(C) First Final Flow Pressure 68.3 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 853.3 PSI @ (depth) 3379 w / Clock No. 27567

(E) Second Initial Flow Pressure 74.9 PSI AK1 Recorder No. _____ Range _____

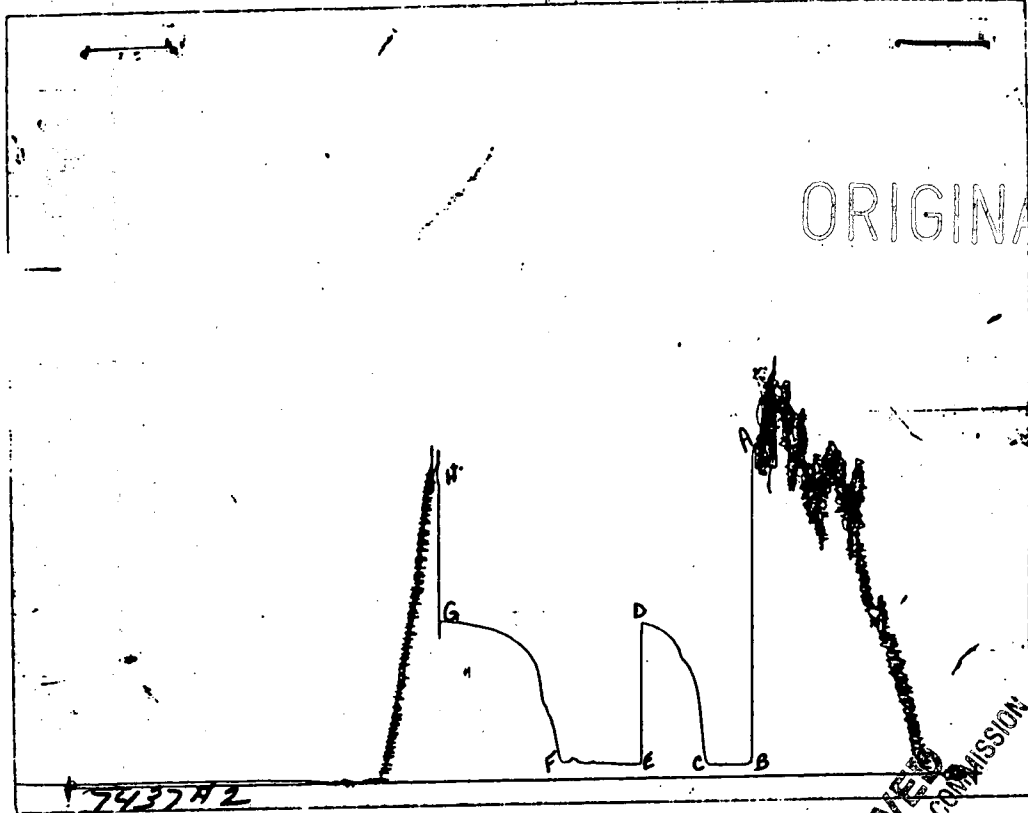
(F) Second Final Flow Pressure 94.7 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 877.4 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 1806.9 PSI Initial Shut-in 45 Final Shut-in 90

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2036	2048.9
(B) FIRST INITIAL FLOW PRESSURE	59	68.3
(C) FIRST FINAL FLOW PRESSURE	68	68.3
(D) INITIAL CLOSED-IN PRESSURE	828	853.3
(E) SECOND INITIAL FLOW PRESSURE	78	74.9
(F) SECOND FINAL FLOW PRESSURE	98	94.7
(G) FINAL CLOSED-IN PRESSURE	847	877.4
(H) FINAL HYDROSTATIC MUD	1796	1806.9

COMPUTER OIL EVALUATION BY TRILOBITE TESTING, L.L.C.
HALLWOOD PETROLEUM INC.

ORIGINAL

R STEIN #8 DST 2
7 11S 17W ELLIS KS

ELEVATION: 1849 KB EST. PAY 2 FT
DATUM: -1531 ZONE TESTED: SIMPSON
TEST INTERVAL: 3298-3383 TIME INTERVALS: 30-45-60-90
RECORDER DEPTH: 3379 VISCOSITY: 13.77 CP
BOTTOM HOLE TEMP: 108 HOLE SIZE: 7.875 IN

CUBIC FEET OF GAS IN PIPE: 0
TOTAL FEET OF RECOVERY: 100.00 CORRECTED PIPE FILLUP: 255.946
TOTAL BARRELS OF RECOVERY: 1.42 CORR. BARRELS OF RECOVERY: 3.626 BBL
BARRELS IN DRILL PIPE: 1.42 API GRAVITY: 34
BARRELS IN WEIGHT PIPE: 0.00 FLUID GRADIENT: 0.370
BARRELS IN DRILL COLLARS: 0.00
GAS OIL RATIO: 0.06 CU.FT/BBL
BUBBLE POINT PRESSURE: 1
UNCORRECTED INITIAL PRODUCTION: 22.75 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE: 58.02 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE: 16.005

INITIAL SLOPE 649.66 PSI/CYCL FINAL SLOPE 217.03 PSI/CYCLE
INITIAL P* 983.83 PSI FINAL P* 939.74 PSI

TRANSMISSIBILITY 43.47 (MD.-FT./CP.)
PERMEABILITY 299.21 (MD.)
INDICATED FLOW CAPACITY 598.41 (MD.FT)
PRODUCTIVITY INDEX 0.05 (BARREL/DAY/PSI)
DAMAGE RATIO 0.71
RADIUS OF INVESTIGATION 164.10 (FT.)
POTENTIOMETRIC SURFACE 649.26 (FT.)
DRAWDOWN FACTOR 4.481 (¢)

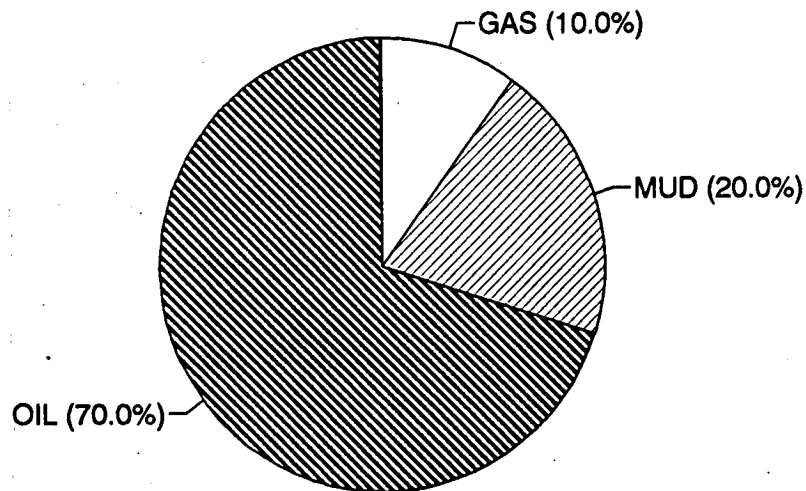
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DST #	CALCULATED RECOVERY ANALYSIS					DRILL	PIPE	
	2	TICKET					6156	
SAMPLE #	TOTAL FEET	GAS %	OIL FEET	OIL %	WATER %	WATER FEET	MUD %	MUD FEET
1	60	10	6	90	54	0	0	0
2	40	10	4	40	16	0	0	50
3			0		0	0	0	0
4			0		0	0	0	0
5			0		0	0	0	0
TOTAL	100	10	10	70	70	0	0	20

ORIGINAL

		HRS	BBL/DAY
BBL OIL=	0.9954	*	1.5 15.926
BBL WATER=	0	*	0
BBL MUD=	0.2844		
BBL GAS	0.1422		



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INITIAL FLOW

RECORDER 7437

DST # 2

ORIGINAL

TIME(MIN)	PRESSURE	<> PRESSURE
0	68.3	68.3
3	68.3	0.0
6	68.3	0.0
9	68.3	0.0
12	68.3	0.0
15	68.3	0.0
18	68.3	0.0
21	67.2	-1.1
24	70.5	3.3
27	69.4	-1.1
30	68.3	-1.1

FINAL FLOW

RECORDER 7437

DST # 2

TIME(MIN)	PRESSURE	<> PRESSURE
0	74.9	74.9
3	76.0	1.1
6	77.1	1.1
9	79.3	2.2
12	80.4	1.1
15	81.5	1.1
18	82.6	1.1
21	83.7	1.1
24	84.8	1.1
27	85.9	1.1
30	88.1	2.2
33	87.0	-1.1
36	90.3	3.3
39	91.4	1.1
42	90.3	-1.1
45	87.0	-3.3
48	90.3	3.3
51	93.6	3.3
54	110.1	16.5
57	121.1	11.0
60	98.0	-23.1
63	94.7	-3.3

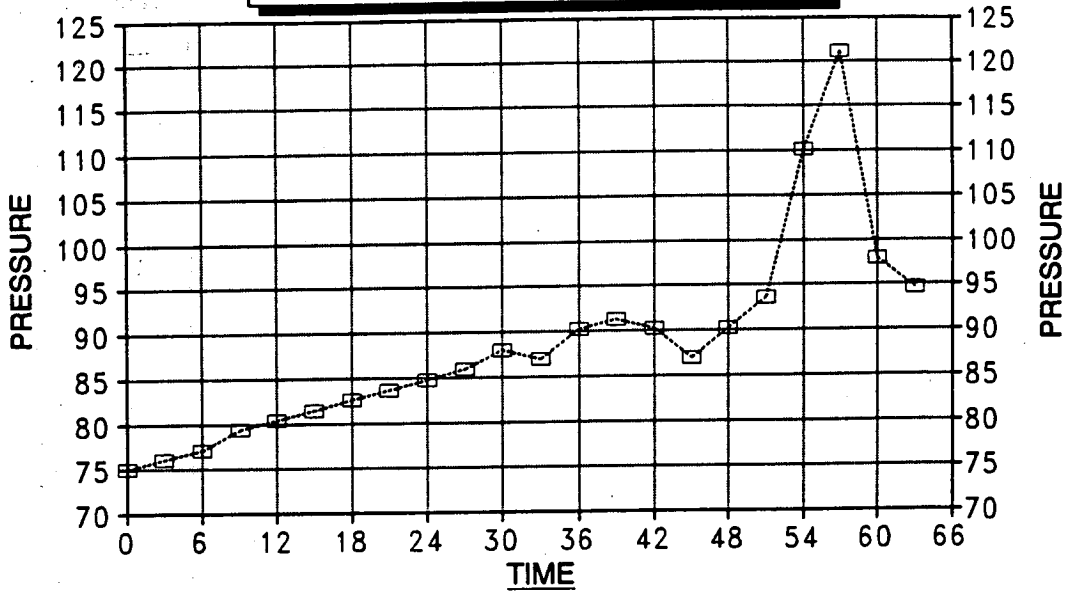
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ORIGINAL

DELTA T DELTA P

FINAL FLOW / DST #2



--- R STEIN #8

INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

16.005

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R STEIN #8
INITIAL

DST #2
SHUTIN
30 INITIAL FLOW TIME

SLOPE 649.7 PSI/CYCLE
P* 983.83 PSI

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Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	154.1	1.041	154.1	11
6	384.3	0.778	230.2	6
9	533.1	0.637	148.8	4
12	577.7	0.544	44.6	4
15	618.5	0.477	40.8	3
18	646.7	0.426	28.2	3
21	678.2	0.385	31.5	2
24	732.8	0.352	54.6	2
27	761.0	0.325	28.2	2
30	783.1	0.301	22.1	2
33	799.9	0.281	16.8	2
36	814.5	0.263	14.6	2
39	821.9	0.248	7.4	2
42	830.3	0.234	8.4	2
X 45	839.7	0.222	9.4	2
48	845.9	0.211	6.2	2
X 51	853.3	0.201	7.4	2

ORIGINAL

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R STEIN #8
FINAL

DST #2
SHUTIN
90 TOTAL FLOW TIME

SLOPE 217.0 PSI/CYCLE
P* 939.7 PSI

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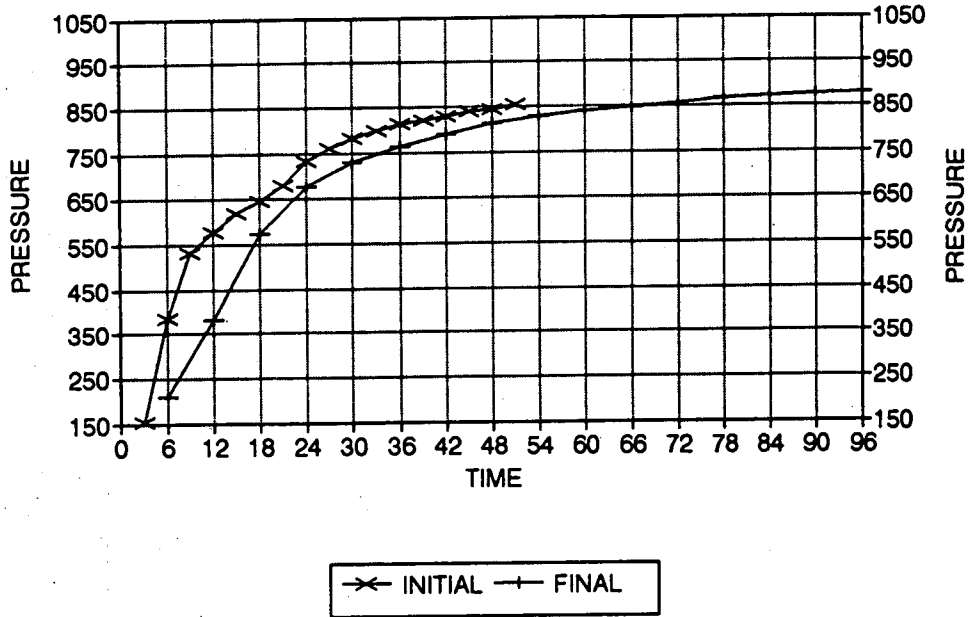
		Log	<>		
	Pws (psi)	Horn T	PRESSURE	Horn T	
	-----	-----	-----	-----	
	6	209.2	1.204	209.2	16
	12	381.0	0.929	171.8	9
	18	573.4	0.778	192.4	6
	24	676.1	0.677	102.7	5
	30	728.6	0.602	52.5	4
	36	763.1	0.544	34.5	4
	42	790.4	0.497	27.3	3
	48	812.5	0.459	22.1	3
	54	828.2	0.426	15.7	3
	60	839.7	0.398	11.5	3
	66	848.0	0.374	8.3	2
	72	856.4	0.352	8.4	2
	78	865.8	0.333	9.4	2
X	84	871.1	0.316	5.3	2
	90	875.3	0.301	4.2	2
X	96	877.4	0.287	2.1	2

ORIGINAL

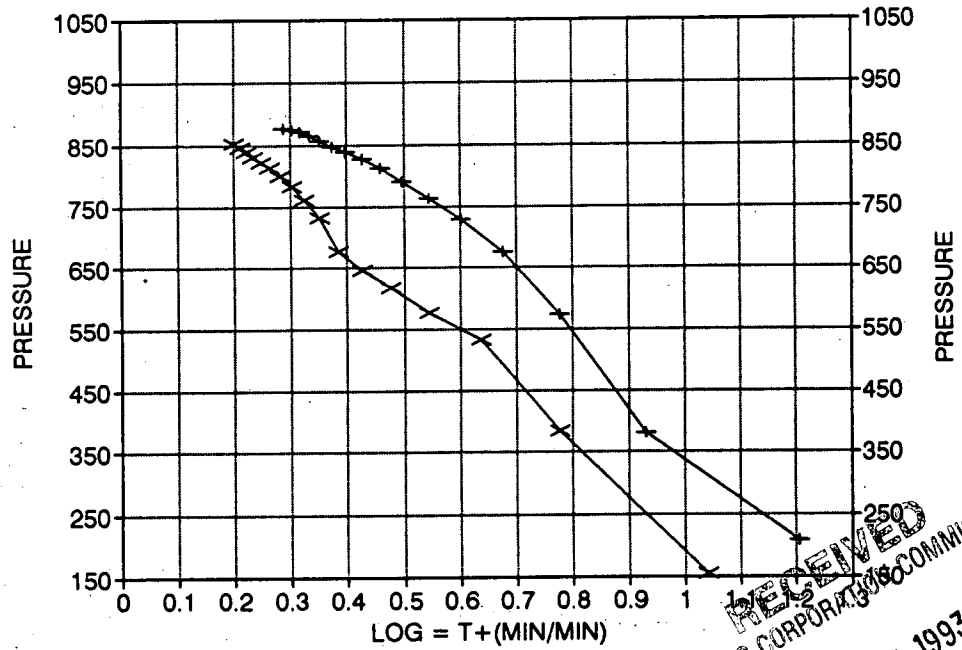
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ORIGINAL

R STEIN #8 / DST #2 DELTA T DELTA P



HORNER PLOT



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Test Ticket ORIGINAL NE 6156

Well Name & No. R. Stein #8 Test No. 2 Date 7-29-93
 Company Hallwood Petro. Inc. Zone Tested Simpson
 Address _____ Elevation 1849 K.B.
 Co. Rep./Geo. Jim Musgrove Cont. Allen #3 Est. Ft. of Pay 2
 Location: Sec. 7 Twp. 11 Rge. 17 Co. Ellis State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No Evaluation

Interval Tested 3298 - 3383 Drill Pipe Size 4.5 XH
 Anchor Length 85 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3293 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3298 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3383 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.2 lb/gal. Viscosity 45 Filtrate _____
 Tool Open @ 8:10 p.m. Initial Blow Weak - building to 1 1/2"
 Final Blow Weak - building to 1/2"

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Recovery — Total Feet	Feet of Gas in Pipe	Flush Foot	% gas	% oil	% water	% mud
Rec. <u>60</u> Feet Of <u>C Gsy O</u>			10%	90%		
Rec. <u>40</u> Feet Of <u>O C Gsy M</u>			10%	40%		50%
Rec. _____ Feet Of _____			% gas	% oil	% water	% mud
Rec. _____ Feet Of _____			% gas	% oil	% water	% mud
Rec. _____ Feet Of _____			% gas	% oil	% water	% mud

BHT 108 °F Gravity _____ °API @ _____ °F Corrected Gravity 34 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8,000 ppm System
 (A) Initial Hydrostatic Mud 2036 PSI Ak1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 59 PSI @ (depth) 3299 w/Clock No. 27501
 (C) First Final Flow Pressure 68 PSI AK1 Recorder No. 7437 Range 4200
 (D) Initial Shut-In Pressure 828 PSI @ (depth) 3379 w/Clock No. 27567
 (E) Second Initial Flow Pressure 78 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 98 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 847 PSI Initial Opening 30 Test 600.00
 (H) Final Hydrostatic Mud 1796 PSI Initial Shut-In 45 Jars _____

TRILOBITE TESTING L.L.C. 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 SUSTAINED, 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 60 Safety Joint _____
 Final Shut-In 90 Straddle _____
 Circ. Sub _____
 Sampler _____

Approved By Jim Musgrove
 Our Representative Dan Ransford

Extra Packer _____
 Other eval
 TOTAL PRICE \$ 600.00

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Drill-Stem Test Data

ORIGINAL

Well Name R STEIN #8 Test No. 3 Date 7/30/93
 Company HALLWOOD PETROLEUM INC. Zone ARBUCKLE
 Address P.O. BOX 378111 DENVER CO 80237-8111 Elevation 1849
 Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN RIG #3 Est. Ft. of Pay 3
 Location: Sec. 7 Twp. 11S Rge. 17W Co. ELLIS State KS

Interval Tested 3385-3392 Drill Pipe Size 4.5" XH
 Anchor Length 7 Wt. Pipe I.D. - 2.7 Ft. Run _____
 Top Packer Depth 3380 Drill Collar - 2.25 Ft. Run _____
 Bottom Packer Depth 3385 Mud Wt. 9.3 lb/Gal.
 Total Depth 3392 Viscosity 49 Filtrate 8.8

Tool Open @ 10:10 AM Initial Blow STRONG - BOTTOM OF BUCKET IN 1 MINUTE

Final Blow NO BLOW

Recovery - Total Feet 2356 Flush Tool? NO

Rec. 20 Feet of CLEAN GASSY OIL-10% GAS/ 90% OIL
 Rec. 154 Feet of OIL & GAS CUT WATERY MUD-5% GAS/ 20% OIL/20% WTR/55% MU
 Rec. 558 Feet of OIL & GAS CUT MUDDY WTR-5% GAS/ 10% OIL/ 55% WTR/ 30%
 Rec. 1624 Feet of WATER WITH SHOW OF OIL THROUGHOUT
 Rec. _____ Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity 36 °API
 RW 0.114 @ 80 °F Chlorides 55000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 1761.5 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 787.3 PSI @ (depth) 3376 w / Clock No. 27501

(C) First Final Flow Pressure 1043.2 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1058.9 PSI @ (depth) 3388 w / Clock No. 27567

(E) Second Initial Flow Pressure 1058.9 PSI AK1 Recorder No. _____ Range _____

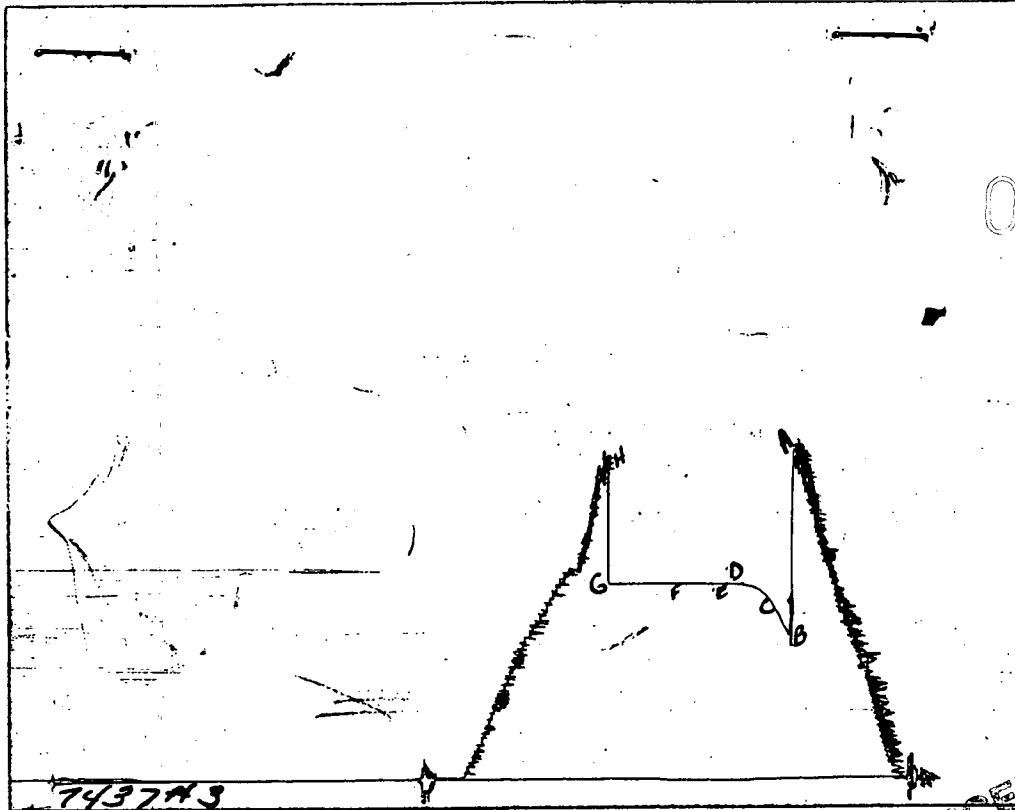
(F) Second Final Flow Pressure 1058.9 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1058.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1734.1 PSI Initial Shut-in 30 Final Shut-in 45

Our Representative DAN BANGLE

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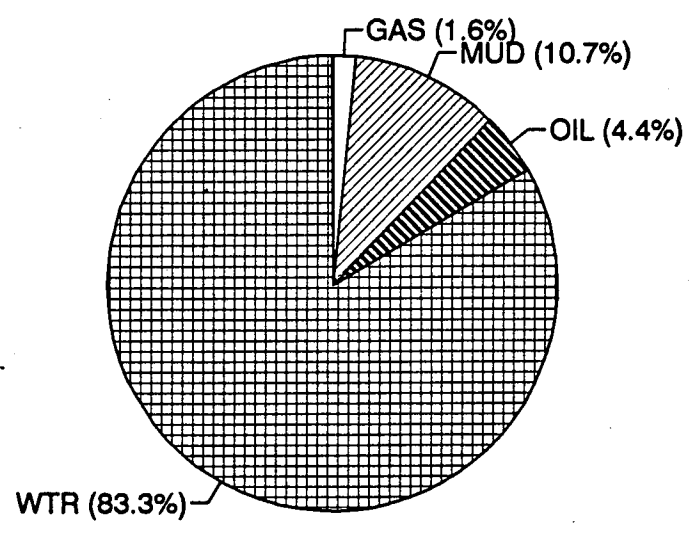
This is an actual photograph of recorder chart

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1810	1761.5
(B) FIRST INITIAL FLOW PRESSURE	789	787.3
(C) FIRST FINAL FLOW PRESSURE	1051	1043.2
(D) INITIAL CLOSED-IN PRESSURE	1051	1058.9
(E) SECOND INITIAL FLOW PRESSURE	1051	1058.9
(F) SECOND FINAL FLOW PRESSURE	1051	1058.9
(G) FINAL CLOSED-IN PRESSURE	1051	1058.9
(H) FINAL HYDROSTATIC MUD	1757	1734.1

DST #	CALCULATED RECOVERY ANALYSIS					DRILL	PIPE		
	TOTAL	GAS	OIL		WATER		MUD		
#	FEET	%	FEET	%	FEET	%	FEET	%	FEET
1	20	10	2	90	18	0	0	0	0
2	154	5	7.7	20	30.8	20	30.8	55	84.7
3	558	5	27.9	10	55.8	55	306.9	30	167.4
4	1624	0	0	0	0	100	1624	0	0
5			0		0		0		0
TOTAL	2356	1.5959253	37.6	4.44	104.6	83.264007	1961.7	10.7	252.1

		HRS	BBL/DAY
BBL OIL=	1.487412	*	1 35.698
BBL WATER=	27.895374	*	669.49
BBL MUD=	3.584862		
BBL GAS	0.534672		



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ORIGINAL

INITIAL FLOW

RECORDER 7437

DST # 3

TIME(MIN) PRESSURE <> PRESSURE

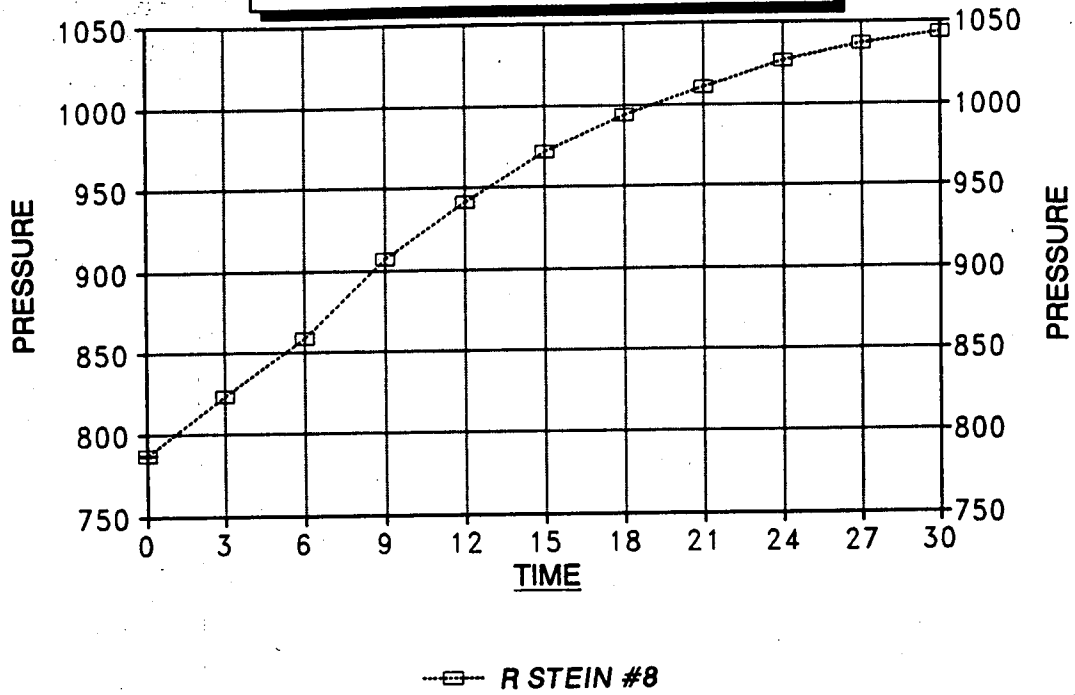
0	787.3	787.3
3	822.9	35.6
6	858.5	35.6
9	906.7	48.2
12	941.3	34.6
15	971.7	30.4
18	993.8	22.1
21	1010.6	16.8
24	1026.4	15.8
27	1036.9	10.5
30	1043.2	6.3

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DELTA T DELTA P

FINAL FLOW / DST #3



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

462.911

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R STEIN #8
INITIAL

DST #3
SHUTIN
30 INITIAL FLOW TIME SLOPE 19.5 PSI/CYCLE
P* 1064.78 PSI

Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	1046.3	1.041	1046.3	11
6	1049.6	0.778	3.3	6
9	1051.4	0.637	1.8	4
12	1052.5	0.544	1.1	4
15	1053.6	0.477	1.1	3
18	1054.7	0.426	1.1	3
21	1055.8	0.385	1.1	2
X 24	1056.9	0.352	1.1	2
27	1057.9	0.325	1.0	2
X 30	1058.9	0.301	1.0	2

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ORIGINAL

R STEIN #8
FINAL

DST #3
SHUTIN
60 TOTAL FLOW TIME SLOPE 0.0 PSI/CYCLE
P* 1058.9 PSI

Log <>

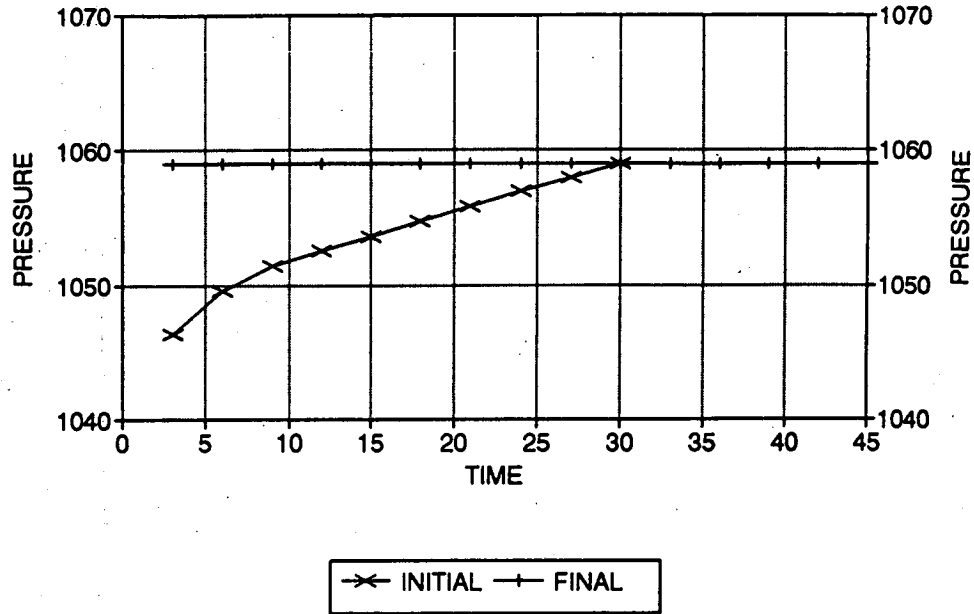
	Pws (psi)	Horn T	PRESSURE	Horn T
3	1058.9	1.322	1058.9	21
6	1058.9	1.041	0.0	11
9	1058.9	0.885	0.0	8
12	1058.9	0.778	0.0	6
15	1058.9	0.699	0.0	5
18	1058.9	0.637	0.0	4
21	1058.9	0.586	0.0	4
24	1058.9	0.544	0.0	4
27	1058.9	0.508	0.0	3
30	1058.9	0.477	0.0	3
X 33	1058.9	0.450	0.0	3
36	1058.9	0.426	0.0	3
39	1058.9	0.405	0.0	3
42	1058.9	0.385	0.0	2
X 45	1058.9	0.368	0.0	2

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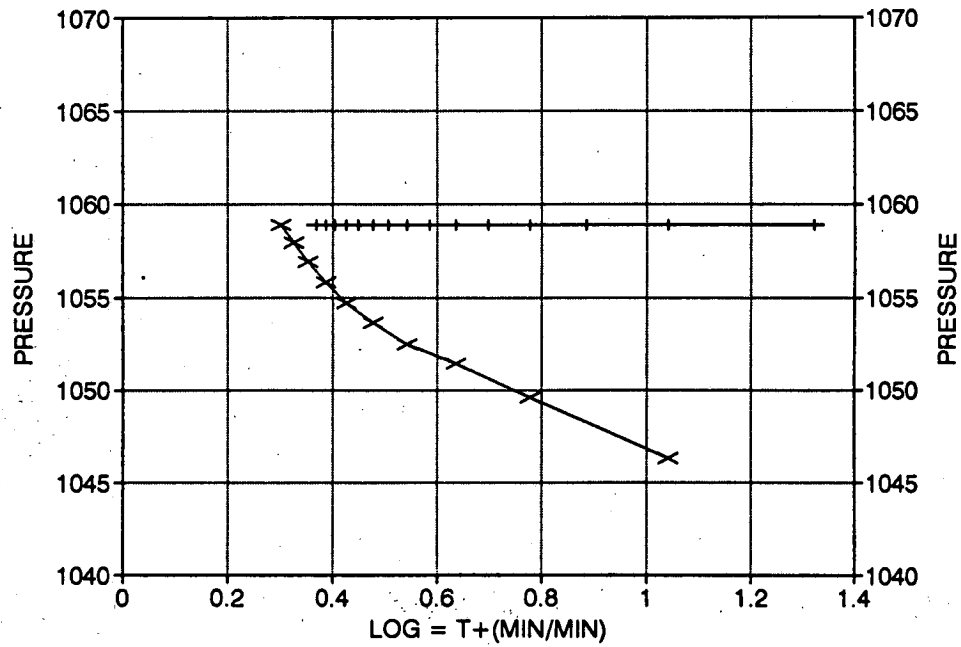
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R STEIN #8 / DST #3 DELTA T DELTA P

ORIGINAL



HORNER PLOT



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Test Ticket ORIGINAL No 6157

Well Name & No. R. Stein #8 Test No. 3 Date 7-30-93
 Company Hallwood Petro. Inc. Zone Tested Arbuckle
 Address _____ Elevation 1849 K.B.
 Co. Rep./Geo. Jim Musgrove Cont. Allen #3 Est. Ft. of Pay 3
 Location: Sec. 7 Twp. 11 Rge. 17 Co. Ellis State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No Evaluation

Interval Tested 3385-3392 Drill Pipe Size 4.5" X H
 Anchor Length 7 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 3380 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3385 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3392 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.3 lb/gal. Viscosity 49 Filtrate 8.8
 Tool Open @ 10:10 a.m. Initial Blow Strong - B.O.B in 1 min.
 Final Blow No blow

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Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
Rec. <u>20</u> Feet Of <u>CGSYO</u> 10% gas 90% oil %water %mud		
Rec. <u>154</u> Feet Of <u>O+GCWM</u> 5% gas 20% oil 20% water 55% mud		
Rec. <u>558</u> Feet Of <u>O+GC MW</u> 5% gas 10% oil 55% water 30% mud		
Rec. <u>1624</u> Feet Of <u>H2O w/ show oil T/O</u> %gas %oil %water %mud		
Rec. _____ Feet Of _____ %gas %oil %water %mud		

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity 36 °API
 RW .114 @ 80 °F Chlorides 55,000 ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud 1810 PSI Ak1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 789 PSI @ (depth) 3376 w/Clock No. 27501
 (C) First Final Flow Pressure 1051 PSI AK1 Recorder No. 7437 Range 4200
 (D) Initial Shut-In Pressure 1051 PSI @ (depth) 3388 w/Clock No. 27567
 (E) Second Initial Flow Pressure 1051 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 1051 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1051 PSI Initial Opening 30 Test 600.00
 (H) Final Hydrostatic Mud 1757 PSI Initial Shut-In 30 Jars _____

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Final Flow 30 Safety Joint _____
 Final Shut-In 45 Straddle _____
 Circ. Sub _____
 Sampler _____

Approved By Jim Musgrove
 Our Representative Don Bangler

Extra Packer _____
 Other evaluation part
 TOTAL PRICE \$ _____

TRILOBITE TESTING, L.L.C.

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Drill-Stem Test Data

ORIGINAL

Well Name R STEIN #8 Test No. 4 Date 7/31/93
Company HALLWOOD PETROLEUM INC. Zone ARBUCKLE
Address P.O. BOX 378111 DENVER CO 80237-8111 Elevation 1849
Co. Rep./Geo. JIM MUSGROVE Cont. ALLEN RIG #3 Est. Ft. of Pay 3
Location: Sec. 7 Twp. 11S Rge. 17W Co. ELLIS State KS

Interval Tested 3405-3414 Drill Pipe Size 4.5" XH
Anchor Length 9 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 3400 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3405 Mud Wt. 9.3 lb/Gal.
Total Depth 3414 Viscosity 49 Filtrate 8.8

Tool Open @ 12:40 AM Initial Blow STRONG - BOTTOM OF BUCKET IN 1.5 MINUTES
Final Blow STRONG - BOTTOM OF BUCKET IN 1 MINUTE

Recovery - Total Feet 2108 Flush Tool? NO

Rec. 20 Feet of CLEAN OIL
Rec. 216 Feet of OIL & WTR CUT MUD-10% OIL / 30% WTR/ 60% MUD
Rec. 930 Feet of SLTLY OIL & MUD CUT WTR - 5% OIL/85% WTR/10% MUD
Rec. 942 Feet of WATER WITH SHOW OF OIL THROUGHOUT
Rec. _____ Feet of _____

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity 34 °API
RW 0.161 @ 80 °F Chlorides 40000 ppm Recovery Chlorides 8000 ppm System

(A) Initial Hydrostatic Mud 1779.5 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 309.4 PSI @ (depth) 3396 w / Clock No. 27501

(C) First Final Flow Pressure 666.7 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 1162.1 PSI @ (depth) 3410 w / Clock No. 27567

(E) Second Initial Flow Pressure 758.9 PSI AK1 Recorder No. _____ Range _____

(F) Second Final Flow Pressure 931.9 PSI @ (depth) _____ w / Clock No. _____

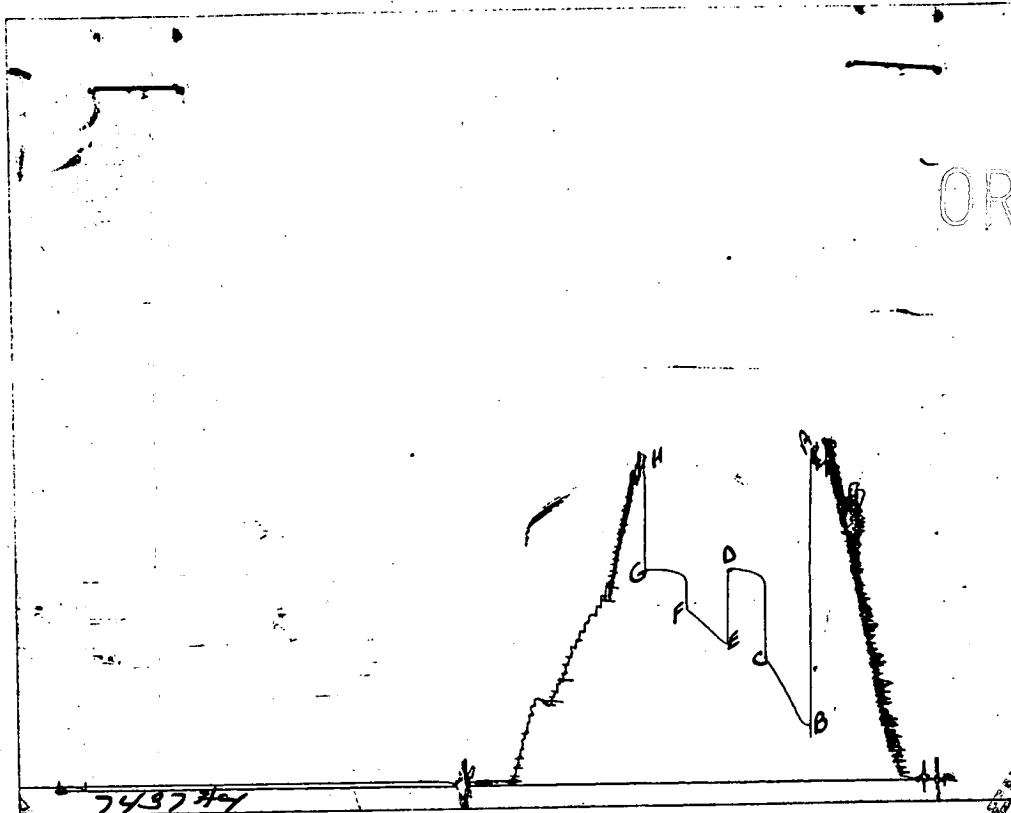
(G) Final Shut-in Pressure 1158.9 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1753.1 PSI Initial Shut-in 30 Final Shut-in 30

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	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1841	1779.5
(B) FIRST INITIAL FLOW PRESSURE	319	309.4
(C) FIRST FINAL FLOW PRESSURE	684	666.7
(D) INITIAL CLOSED-IN PRESSURE	1156	1162.1
(E) SECOND INITIAL FLOW PRESSURE	789	758.9
(F) SECOND FINAL FLOW PRESSURE	957	931.9
(G) FINAL CLOSED-IN PRESSURE	1156	1158.9
(H) FINAL HYDROSTATIC MUD	1757	1753.1

CALCULATED RECOVERY ANALYSIS DRILL PIPE
 DST # 4 TICKET 6158

SAMPLE #	TOTAL FEET	GAS %	OIL		WATER		MUD		
			FEET	%	FEET	%	FEET	%	FEET
1	20	0	0	100	20	0	0	0	0
2	216	0	0	10	21.6	30	64.8	60	129.6
3	930	0	0	5	46.5	85	790.5	10	93
4	942	0	0	0	0	100	942	0	0
5			0		0		0		0
TOTAL	2108	0	0	4.18	88.1	85.260911	1797.3	10.6	222.6

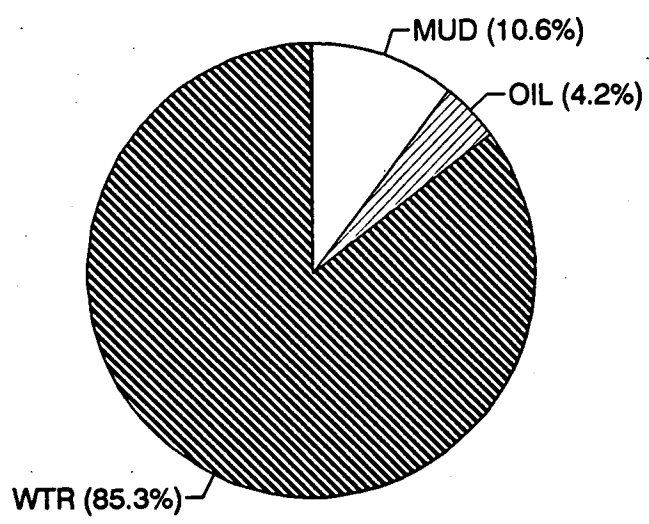
HRS BBL/DAY

BBL OIL= 1.252782 * 1 30.067

BBL WATER= 25.557606 * 613.38

BBL MUD= 3.165372

BBL GAS 0



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COMPUTER OIL EVALUATION BY TRILOBITE TESTING, L.L.C.

HALLWOOD PETROLEUM INC.

R STEIN #8

DST 4

ORIGINAL

7 11S 17W

ELLIS KS

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*****
ELEVATION:          1849 KB          EST. PAY          3 FT
DATUM:              -1562          ZONE TESTED:     ARBUCKLE
TEST INTERVAL:      3405-3414      TIME INTERVALS:  30-30-30-30
RECORDER DEPTH:     3410          VISCOSITY:       20.12 CP
BOTTOM HOLE TEMP:   110          HOLE SIZE:       7.875 IN
*****

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*****
CUBIC FEET OF GAS IN PIPE:          0
TOTAL FEET OF RECOVERY:             2108.00  CORRECTED PIPE FILLUP:          2518.649
TOTAL BARRELS OF RECOVERY:          29.98  CORR. BARRELS OF RECOVERY:     35.820 BBL
BARRELS IN DRILL PIPE:              29.98  API GRAVITY:                   34
BARRELS IN WEIGHT PIPE:              0.00  FLUID GRADIENT:                0.370
BARRELS IN DRILL COLLARS:            0.00
GAS OIL RATIO:                      0.00  CU.FT/BBL
BUBBLE POINT PRESSURE:               0
UNCORRECTED INITIAL PRODUCTION:                                           719.42 BBL
INITIAL PRODUCTION CORRECTED TO FINAL FLOW PRESSURE:                       859.68 BBL/DAY
INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:                  348.574
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INITIAL SLOPE          89.43 PSI/CYCL FINAL SLOPE          22.48 PSI/CYCLE
INITIAL P*            1189.02 PSI          FINAL P*          1169.01 PSI
*****

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*****
TRANSMISSIBILITY          6218.86 (MD.-FT./CP.)
PERMEABILITY              41716.51 (MD.)
INDICATED FLOW CAPACITY  125149.54 (MD.FT)
PRODUCTIVITY INDEX          7.03 (BARREL/DAY/PSI)
DAMAGE RATIO              1.93
RADIUS OF INVESTIGATION   1582.08 (FT.)
POTENTIOMETRIC SURFACE    1149.94 (FT.)
DRAWDOWN FACTOR           1.683 (%)
THEORETICAL POTENTIAL FROM FINAL FLOW PRESSURE  1659.58
THEORETICAL POTENTIAL FROM PSEUDO STEADY FLOW STATE  672.91
*****

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INITIAL FLOW

RECORDER 7437

DST # 4

ORIGINAL

TIME(MIN)	PRESSURE	<> PRESSURE
0	309.4	309.4
3	314.9	5.5
6	329.2	14.3
9	367.8	38.6
12	421.7	53.9
15	461.0	39.3
18	496.6	35.6
21	532.1	35.5
24	568.2	36.1
27	607.0	38.8
30	638.4	31.4
33	666.7	28.3

FINAL FLOW

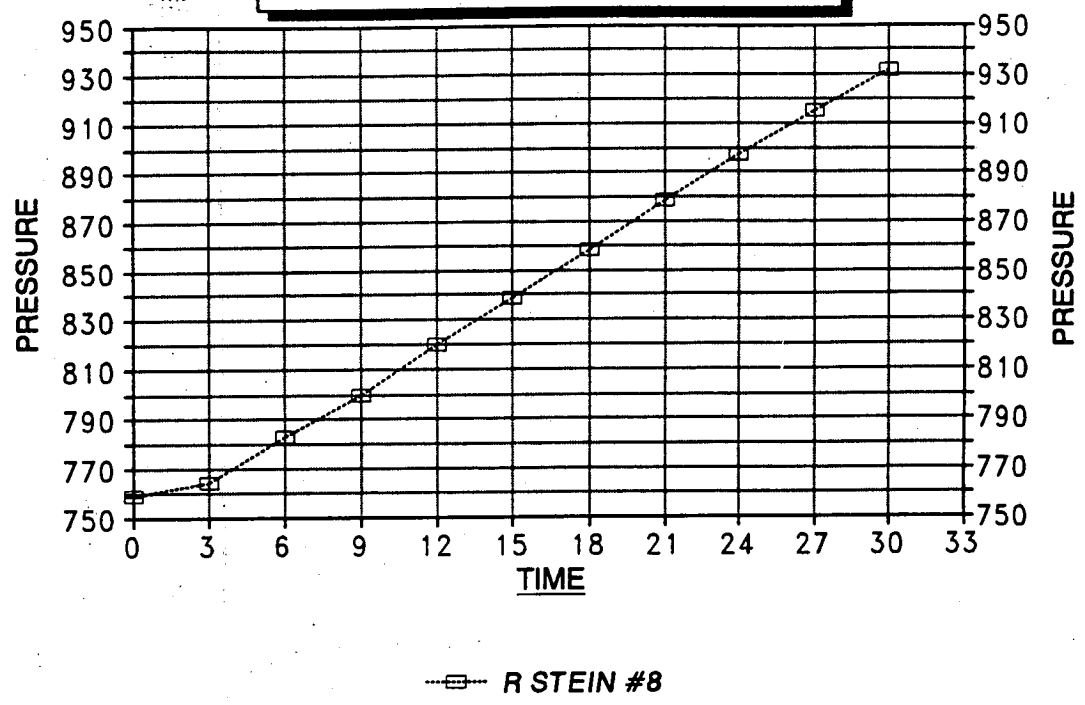
RECORDER 7437

DST # 4

TIME(MIN)	PRESSURE	<> PRESSURE
0	758.9	758.9
3	764.2	5.3
6	783.1	18.9
9	799.9	16.8
12	819.8	19.9
15	838.6	18.8
18	858.5	19.9
21	878.4	19.9
24	897.3	18.9
27	915.1	17.8
30	931.9	16.8

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DELTA T DELTA P
FINAL FLOW / DST #4



INITIAL PRODUCTION CORRECTED TO PSEUDO STEADY FLOW STATE:

348.574

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R STEIN #8
INITIAL

DST #4
SHUTIN

30 INITIAL FLOW TIME SLOPE 89.4 PSI/CYCLE
P* 1189.02 PSI

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Log <>

TIME(MIN)	Pws (psi)	Horn T	PRESSURE	Horn T
3	1100.0	1.041	1100.0	11
6	1122.1	0.778	22.1	6
9	1132.6	0.637	10.5	4
12	1141.0	0.544	8.4	4
15	1146.3	0.477	5.3	3
18	1149.5	0.426	3.2	3
21	1152.6	0.385	3.1	2
24	1156.8	0.352	4.2	2
X 27	1160.0	0.325	3.2	2
X 30	1162.1	0.301	2.1	2

ORIGINAL

R STEIN #8
FINAL

DST #4
SHUTIN

60 TOTAL FLOW TIME SLOPE 22.5 PSI/CYCLE
P* 1169.0 PSI

Log <>

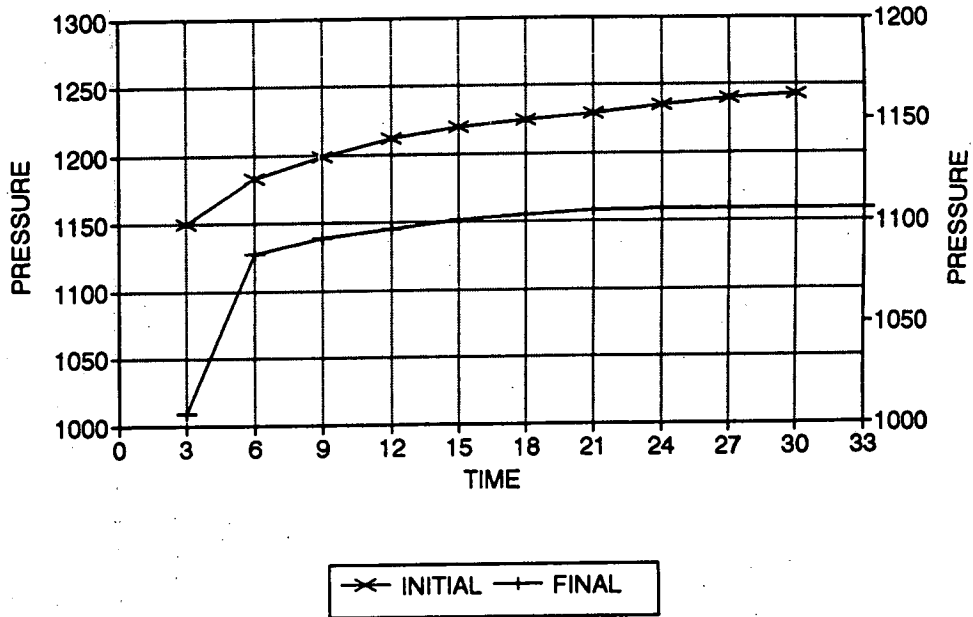
	Pws (psi)	Horn T	PRESSURE	Horn T	
	3	1009.5	1.322	1009.5	21
	6	1127.4	1.041	117.9	11
	9	1138.9	0.885	11.5	8
	12	1145.2	0.778	6.3	6
	15	1151.6	0.699	6.4	5
X	18	1154.7	0.637	3.1	4
	21	1157.9	0.586	3.2	4
	24	1158.9	0.544	1.0	4
	27	1158.9	0.508	0.0	3
	30	1158.9	0.477	0.0	3
X	33	1158.9	0.450	0.0	3

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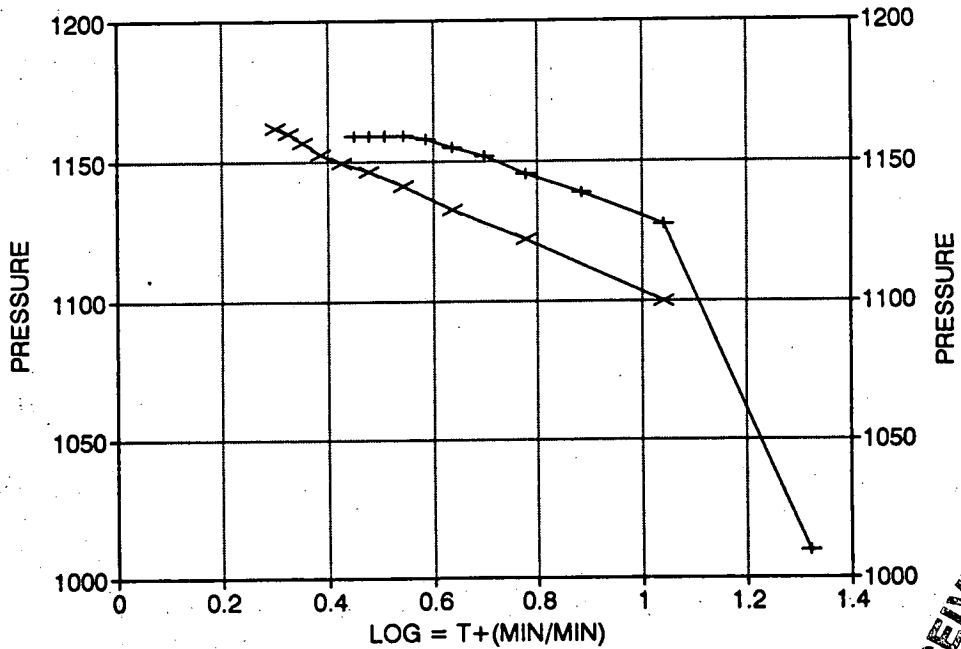
CONFIDENTIAL

R STEIN #8 / DST #4 DELTA T DELTA P

ORIGINAL



HORNER PLOT



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TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

CONFIDENTIAL

Test Ticket

ORIGINAL

No 6158

Well Name & No. R Stein #8 Test No. 4 Date 7-21-93
 Company Hallwood Petro. Inc. Zone Tested Arbuckle
 Address _____ Elevation 1849 K.B.
 Co. Rep./Geo. Jim Musgrave Cont. Allen #3 Est. Ft. of Pay 3
 Location: Sec. 7 Twp. 11 Rge. 17 Co. Ellis State Ks.
 No. of Copies _____ Distribution Sheet _____ Yes _____ No Turnkey _____ Yes _____ No Evaluation

Interval Tested 3405-3414 Drill Pipe Size 4.5 XH
 Anchor Length 9 Top Choke — 1" _____ Bottom Choke — 1/4" _____
 Top Packer Depth 3400 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 3405 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 3414 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.3 lb/gal. Viscosity 49 Filtrate 8.8
 Tool Open @ 12:40 a.m. Initial Blow Strong - B.O.B. in 1 1/2 min.

Final Blow Strong - B.O.B. in 1 min.

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?	% gas	% oil	% water	% mud
Rec. <u>20</u>	Feet Of <u>C.O.</u>					
Rec. <u>216</u>	Feet Of <u>OTWCM</u>		<u>10</u>	<u>30</u>	<u>60</u>	
Rec. <u>930</u>	Feet Of <u>SHLY OTMCW</u>		<u>5</u>	<u>85</u>	<u>10</u>	
Rec. <u>942</u>	Feet Of <u>H2O w/show oil t/o</u>					
Rec. _____	Feet Of _____					

BHT 110 °F Gravity _____ °API @ _____ °F Corrected Gravity 34 °API

RW 161 @ 80 °F Chlorides 40,000 ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud 1841 PSI AK1 Recorder No. 13754 Range 4000
 (B) First Initial Flow Pressure 319 PSI @ (depth) 3396 w/Clock No. 27501
 (C) First Final Flow Pressure 684 PSI AK1 Recorder No. 7437 Range 4200
 (D) Initial Shut-in Pressure 1156 PSI @ (depth) 3410 w/Clock No. 27567
 (E) Second Initial Flow Pressure 789 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 957 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 1156 PSI Initial Opening 30 Test 600
 (H) Final Hydrostatic Mud 1757 PSI Initial Shut-in 30 Jars _____

TRILOBITE TESTING L.L.C. 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 SUSTAINED, 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 _____
 RECEIVED
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 Circ. Sub _____
 Sampler _____

Approved By Jim Musgrave
 Our Representative Wade Benner

DEC 28 1993
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 WICHITA, KS

Extra Packer _____
 Other evaluation
 TOTAL PRICE \$ _____

ORIGINAL

INVOICE

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AUG 04 1993



HALLIBURTON
ENERGY SERVICES

CONFIDENTIAL

P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE NO.	DATE
509023	08/01/1993

WELL LEASE NO./PROJECT NAME STEIN 8 KANSAS DIST		WELL/PROJECT LOCATION ELLIS	STATE KS	OWNER SAME
SERVICE LOCATION BUSINESS CITY	CONTRACTOR ALLEN DRLG	JOB PURPOSE CEMENT PRODUCTION CASING		TICKET DATE 08/01/1993
ACCT. NO. 355880	CUSTOMER AGENT GEORGE HUTTON	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK
				FILE NO. 542

HALLWOOD PETROLEUM, INC.
915 PATTON ROAD
GREAT BEND, KS 67530

DIRECT CORRESPONDENCE TO:
OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

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WICHITA, KS

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	14	MI	2.75	38.50
001-016	CEMENTING CASING	1	UNT		
030-016	CEMENTING PLUG 5W ALUM TOP	3495	FT	1,285.00	1,285.00
24A	INSERT FLOAT VALVE - 5 1/2" 8	1	EA	60.00	60.00
815.19251		1	EA	110.00	110.00
27	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	55.00	55.00
815.19311		1	EA	121.00	121.00
12A	GUIDE SHOE - 5 1/2" BRD THD.	6	EA	44.00	264.00
825.205		1	EA	22.00	22.00
40	CENTRALIZER 5-1/2" X 7 7/8"	225	SK	6.76	1,521.00
807.93022		2000	LB	.13	260.00
60	ROTO WALL CLEANER 2 1/8" SPI	159	LB	6.90	1,097.10
807.0007		25	LB	1.40	35.00
504-308	CEMENT - STANDARD	500	LB	0.40	200.00
509-968	SALT	11	SK	20.70	227.70
507-775	HALAD-322	280	CFT	1.25	350.00
507-210	FLOCELE	174.538	TMI	.85	148.36
508-291	GILSONITE BULK				
508-127	CAL SEAL 60				
500-207	BULK SERVICE CHARGE				
500-306	MILEAGE CMTG MAT DEL OR RETU				
INVOICE SUBTOTAL					5,794.66
DISCOUNT-(BID)					1,043.02
INVOICE BID AMOUNT					4,751.64
*-KANSAS STATE SALES TAX					169.20
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$4,920.84

AFFIX JOB TKT

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the 15th day after date of invoice. Customer agrees to pay interest on any amount due from the date payable until paid in full. Halliburton reserves the right to suspend service and to collect 10% per month on the amount due until payment in full is received. Customer agrees to pay collection of any account.



CHARGE TO: Hallwood Petroleum
 ADDRESS: 915 Patton Rd
 CITY, STATE, ZIP CODE: Great Bend KS 67530

No. 509023 - 9

PAGE 1 OF 2

FORM 1908 R-12

SERVICE LOCATIONS
 1. 25553 Ness City, Ks.
 2. 25525 Hays, Ks.
 3.
 4.

WELL/PROJECT NO. 8 LEASE R. Stein COUNTY/PARISH Ellis STATE Ks. CITY/OFFSHORE LOCATION _____ DATE 8-1-93 OWNER Same

TICKET TYPE SERVICE SALES NITROGEN JOB? YES NO CONTRACTOR Allen Drlg. RIG NAME/NO. _____ SHIPPED VIA _____ DELIVERED TO N. Hays, Ks. ORDER NO. _____

WELL TYPE 01 WELL CATEGORY 01 JOB PURPOSE 035 WELL PERMIT NO. 15051248440000 WELL LOCATION Sec 17-11S-17W

REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
000-117		1				MILEAGE	14	mil			2.75	38.18
001-016	CONFIDENTIAL	1				Pump Service	3495	Ft				1285.18
030-016		1				5-w Top Plug	1	ea	5 1/2	in		60.18
24A	815.19251	1				Insert Float Valve	1	ea				110.18
27	815.19311	1				Auto. Fill up Assys	1	ea				55.18
12A	825.205	1				Guide Shoe	1	ea				121.18
40	807.93022	1				S-4 Centralizers	6	ea			44.00	264.18
60	807.0008	1				Roto Wall Cleaner	1	ea			22.00	22.18

MISSOURI DIVISION OF REVENUE
 RECEIVED
 AUG 28 1993
 KANSAS
 REVENUE DIVISION
 RECEIVED
 AUG 28 1993

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: George Suttles

DATE SIGNED: 7-31-93 TIME SIGNED: 2200 A.M. P.M.

SUBSURFACE SAFETY VALVE WAS: PULLED & RETURN PULLED RUN

TYPE LOCK	DEPTH	SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	1955
BEAN SIZE	SPACERS		OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				
TYPE OF EQUALIZING SUB.	CASING PRESSURE	WE UNDERSTOOD AND MET YOUR NEEDS?					
TUBING SIZE	TUBING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WELL DEPTH		WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?		<input type="checkbox"/> YES <input type="checkbox"/> NO					
TREE CONNECTION	TYPE VALVE	<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: 5794.66

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): George Suttles

CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): George Suttles

HALLIBURTON OPERATOR/ENGINEER: Roy B. Lykins EMP # 80719

HALLIBURTON APPROVAL: Roy B. Lykins 18/18 Cont V B.M.

JOB LOG FORM 2013R-3

CUSTOMER: Halliburton Pet Tr...
 WELL NO: ...
 LEASE: ...
 JOB TYPE: Surface
 TICKET NO: 572493

TIME	RATE (RPM)	DEPTH (FEET)	DESCRIPTION OF OPERATIONS
09:30			Called Out
12:30			On Location - Rig Circ
			Spuds Set up Equip - Discuss Job
13:00			Start 8 5/8" x 25' Csg in Hole
14:25			Csg in Hole
			Hook up PC & Manifold
14:30			Break Circ w/ Rig Pump
			Hook up to PT
14:50		100	Start M & Cmt
			360sk HLC 7/8" Fluoide + 3" CC
			130sk 40-LOP + No Calc + 3" CC
15:28		600	Finish & Displ
			Release Plug & Wire Line
15:20		600	Start Displ
15:30		950	Finish Displ
15:33		500	Shut in - Tag Plug @ 1070' ✓
			Cont. Displ Circ
			Job Complete

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*Thank you
John Allen, Recd. and*

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WICHITA, KS

ORIGINAL

INVOICE.



HALLIBURTON ENERGY SERVICES CONFIDENTIAL

HEMII 10: P.O. BOX 951046 DALLAS, TX 75395-1046

Table with columns: INVOICE NO. (512187), DATE (07/25/1993)

Main header table with columns: WELL LEASE NO./PROJECT, WELL/PROJECT LOCATION, STATE, OWNER, SERVICE LOCATION, CONTRACTOR, JOB PURPOSE, TICKET DATE, ACCT. NO., CUSTOMER AGENT, VENDOR NO., CUSTOMER P.O. NUMBER, SHIPPED VIA, FILE NO.

HALLWOOD PETROLEUM, INC. 915 PATTON ROAD GREAT BEND, KS 67530

ORIGINAL

DIRECT CORRESPONDENCE TO: OKLAHOMA TOWER 210 WEST PARK AVENUE SUITE 2000 OKLAHOMA CITY, OK 73102-5601

Main line items table with columns: REFERENCE NO., DESCRIPTION, QUANTITY, UM, UNIT PRICE, AMOUNT

INVOICE SUBTOTAL

DISCOUNT-(BID)

INVOICE BID AMOUNT

*-KANSAS STATE SALES TAX *-HAYS CITY SALES TAX

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INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>

\$4,743.61

FIX JOB TKT

TERMS: If Customer does not have an approved open account with Halliburton, all sums due are payable in cash at the time of performance of services or delivery of equipment, products or materials. If customer has an approved open account, invoices are payable on the twentieth day after date of invoice. Customer agrees to pay interest on any unpaid balance from the date invoice is rendered to the latest date payment is received.



CHARGE TO:
 Hellwood Petroleum
 ADDRESS
 915 Patton Rd.
 CITY, STATE, ZIP CODE
 Croul Bend, Ks 67530

COPY

TICKET

No.

512187 - 5

PAGE 1 OF 2

FORM 1906 R-12

1. SERVICE LOCATIONS Hays, Ks 025325	WELL/PROJECT NO. 8	LEASE R. Stein	COUNTY/PARISH Ellis	STATE Ks	CITY/OFFSHORE LOCATION	DATE 7-25-93	OWNER Same
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Allen Drlg	RIG NAME/NO. #3	SHIPPED VIA CT	DELIVERED TO Well Site	ORDER NO.	
3. WELL TYPE	WELL CATEGORY 01	WELL PERMIT NO. 15051248440000	JOB PURPOSE 010	WELL LOCATION 7-11-17			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS 20						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF								
000-117		1				MILEAGE on P.T. (3772)	14				2.25	38.5
001-016		1				Pump Chg 7-25-93	1093				945.00	945.00
030-503		1				C.P.-1 Top Plug	1		8 5/8		95.00	95.00
40	807.93059 16	1				S-4 Centralizers	3		8 5/8		72.00	216.00

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 CONSERVATION DIVISION
 WICHITA, KS

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions. CUSTOMER OR CUSTOMER'S AGENT SIGNATURE <i>X Owen Weaver</i> DATE SIGNED: 7-25-93 TIME SIGNED: 13:00 <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M. <input type="checkbox"/> do <input type="checkbox"/> do not require IPC (Instrument Protection). <input type="checkbox"/> Not offered	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		SURVEY AGREE <input type="checkbox"/> UN-DECIDED <input type="checkbox"/> DIS-AGREE <input type="checkbox"/>		PAGE TOTAL 1294 FROM CONTINUATION PAGE(S) 4364 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE 5659
	TYPE LOCK	DEPTH	OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?		
	BEAN SIZE	SPACERS	WE UNDERSTOOD AND MET YOUR NEEDS?		
	TYPE OF EQUALIZING SUB.	CASING PRESSURE	OUR SERVICE WAS PERFORMED WITHOUT DELAY?		
TUBING SIZE	TUBING PRESSURE	WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
TREE CONNECTION	TYPE VALVE	ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO			
		<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) Aven Weaver	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <i>X Owen Weaver</i>	HALLIBURTON OPERATOR/ENGINEER <i>Ed Beck</i>	EMP # 43222	HALLIBURTON APPROVAL <i>Ed Beck</i>
--	--	---	----------------	--



HALLIBURTON
ENERGY SERVICES

TICKET CONTINUATION

COPY

TICKET No. 512187

FORM 1911 R-8

CUSTOMER		WELL				DATE	PAGE	OF			
Hallwood Petroleum		#8 Stein				7-25-93					
PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	H	DESCRIPTION	WELL		UNIT PRICE	AMOUNT
		LOC	ACCT	DF				QTY.	U/M		
504-316		1		B		Halliburton Light Cement	360		6.30	2,268	
504-308	516.00261	1		B		Standard Cement	78		6.76	527	
506-105	516.00286	1		B		Pozmix 'A'	3536	1b	.054	190	
507-210	890.50071	1		B		Flocele Blended W/360	90	1b	1.40	126	
509-406	890.50812	1		B		Calcium Chloride Blended	12		28.25	339	
<p>RECEIVED KANSAS CORPORATION COMMISSION DEC 28 1993 CONSERVATION DIVISION WICHITA, KS</p>											
500-207		1		B		SERVICE CHARGE					
500-306		1		B		MILEAGE CHARGE					
							CUBIC FEET				
							88 520		125	650	
							TON MILES				
							44,282	14	85	263	

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ORIGINAL

CONTINUATION TOTAL 4,364

CUSTOMER: Hallwood Pat
LEASE: R Steins
WELL NO: 8
JOB TYPE: Cement
DATE: 7-25-93

WELL DATA

FIELD _____ SEC 7 TWP 11^S RNG 17^E COUNTY Ellis 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 _____ MUD WT. _____

PACKER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	25	8 5/8	KB	1093'	
LINER						
TUBING						
OPEN HOLE			12 1/4	1093	1094	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		
HEAD		
PACKER		
OTHER		

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 7-25-93	DATE 7-25-93	DATE 7-25-93	DATE
TIME 10:30	TIME 13:30	TIME 15:00	TIME

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J Becker	43222 Comb	
A Gabel	32186 3472	Hays, Ks
J Reed	49861 BT 0813	
G Blessing	52160 3860	

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. °API

DISPL. FLUID _____ DENSITY _____ LB/GAL. °API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____

ACID TYPE _____ GAL. _____

ACID TYPE _____ GAL. _____

ACID TYPE _____ GAL. _____ %

SURFACTANT TYPE _____ GAL. _____

NE AGENT TYPE _____ GAL. _____ IN

FLUID LOSS ADD. 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 _____

OTHER _____

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CONSERVATION DIVISION
WICHITA, KS

DEPARTMENT Cement

DESCRIPTION OF JOB Cmt 8 5/8" Suc 5000' Log

JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN.

CUSTOMER REPRESENTATIVE X Owen Wessinger

HALLIBURTON OPERATOR John Becker COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	360	HLC		B	3%CC + 1/2" Flaccate	1.97	12.4
	130	40-b0P02		B	H-Gel + 3%CC	1.09	15.2

SUMMARY

CIRCULATING _____ DISPLACEMENT _____ PRESFLUSH: BBL-GAL _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL. BBL-GAL 6824

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL-GAL (126.3 + 25.2) 151.5

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL-GAL _____

TREATING _____ DISPL _____ OVERALL _____

FEET 20 REASON Request

RAMARKS
See Job Log
Thank You

JOB LOG FORM 2013 R-3

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Hailwood Pet		8		R. Stein		Surface		512187	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
10:30	10:30								Called Out
12:30	13:30								On loc - Rig Pulling DP Spot & Setup Equip - Discuss Job
14:00	14:00								Start 8 5/8" x 25' Csg in Hole
	15:15								Csg in Hole - Set @ 1093'
	15:20								Hook up PC & Manifold Break Circ 7/ Rig Pump
	14:47							450	Hook up to P.T. - Hook up Wire line Start Mix Cmt
	15:09								360sk HLC 1/3" CC & 1/4" Flare 130sk 40-L0 P02 7/8" Gals 3" CC
	15:09							550	Finish Mix Cmt Release Plug & Wire line
	15:17							500	Start Displ
								750	Stop Displ w/ Plug @ 1072' by wire line Cmt Did Circ
									Job Complete

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DEC 28 1993
CONSERVATION DIVISION
WICHITA, KS

Thank You
John Lilling