

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

API NO. 15- 033-20,894

ORIGINAL

County Comanche
SW SW NE Sec. 34 Twp. 33 Rge. 17 E W

Operator: License # 04782

Name: Ensign Operating Co.

Address P.O. Box 2161

City/State/Zip Liberal, KS 67905

Purchaser: N/A

Operator Contact Person: Reed Wacker

Phone (316) 626-8131

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Duane Moredock

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.
 Gas ENHR SIGW
 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 PSTD
 Commingled Decklet No. _____
 Dual Completion Decklet No. _____
 Other (SWD or Inj?) Decklet No. _____

09-06-94 09-25-94 09-25-94
Spud Date Date Reached TD Completion Date

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

Lease Name Carlisle Well # 1-34

Field Name Wildcat

Producing Formation P & A

Elevation: Ground 1817' KB 1824'

Total Depth 6024 PSTD _____

Amount of Surface Pipe Set and Cemented at 820 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 cm.

Drilling Fluid Management Plan D&A 9/4 6-7-95
(Data must be collected from the Reserve Pit)

Chloride content 1000 ppm Fluid volume 2400 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name RELEASED

Lease Name JAN 1 1 1996 License No. _____

Quarter Sec. Twp. Rge. E/W

County FROM CONFIDENTIAL Decklet No. _____

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-6 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 [Signature]

Title Prod. Supt. Date 10/13/94

Subscribed and sworn to before me this 13th day of October 19 94.

Notary Public William L. Waldorf

Date Commission Expires Sept. 19, 1998

NOTARY PUBLIC - State of Kansas
WILLIAM L. WALDORF
My Appt. Exp. Sept. 19, 1998

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NEPA
 KCS RECEIVED
STATE CORPORATION COMMISSION Other (Specify)
10-14-94
OCT 14 1994

Form ACD-1 (7-91)
CONSERVATION DIVISION
WICHITA, KANSAS

Operator Name Ensign Operating Co.

Lease Name Carlisle

Well # 1-34

Sec. 34 Twp. 33 Rge. 17
 East
 West

County Comanche

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 Datum Sample
 Name Top Datum

- SEE ATTACHED -

List All E.Logs Run: **DUAL INDUCTION
 COMPENSATED NEUTRON**
 - SEE ATTACHED -
MICRO-RESISTIVITY

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8-5/8"	24#	820'	Lite Class A	250 150	2#/SX Floccle 2% CC

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

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

TUBING RECORD	Size	Set At	Packer At	Liner Run
				<input type="checkbox"/> Yes <input type="checkbox"/> No

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

Estimated Production Per 24 Hours	Oil N/A	Ebls.	Gas N/A	Mcf	Water N/A	Ebls.	Gas-Oil Ratio	Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled
 Other (Specify) P & A
 Production Interval _____

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ORIGINAL

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FORMATION TOPS

Ensign Operating Co.

JAN 11 1996

No. 1-34 Carlisle

SW SW NE Sec. 34, T33S, R17W

FROM CONFIDENTIAL Comanche County, Kansas

API #15-033-20894-0000

G.L. 1817'	Comparison Well	Drill Time	Wire Line
K.B. 1824'	NW NE 3-33S-17W	And Samples	Logs
	K.B. 1828'		

Tertiary	Surface +1816'	Surface +1816'	Surface +1816'
----------	----------------	----------------	----------------

Permian

Glaudalupian

White Horse NL

___ ' + ___ '

___ ' + ___ '

Leonardian

Nipewalla Gr.

Blaine NL

___ ' + ___ '

___ ' + ___ '

Cedar Hills NL

___ ' + ___ '

___ ' + ___ '

Sumner Gr.

Stone Corral 825' +1003'

___ ' + ___ '

830' +994'

Salt 870' +958'

___ ' + ___ '

875' +949'

Ninnescah 1070' +758'

___ ' + ___ '

1084' +740'

Wellington 1500' +328'

___ ' + ___ '

1498' +326'

Hutchinson 1640' +188'

___ ' + ___ '

1638' +186'

Wolfcampian

Chase Gr.

Herington 2356' -528' (9)

2361' -537'

2350' -526'

Krider 2368' -540' (5)

2369' -545'

2363' -539'

Winfield 2433' -605' (6)

2435' -611'

2419' -595'

Gage Shale 2482' -654' (12)

2490' -666'

2475' -651'

Towanda 2500' -672' (15)

2511' -687'

2494' -670'

Fort Riley 2552' -724' (13)

2561' -737'

2554' -730'

Wreford 2701' -873' (13)

2710' -886'

2705' -881'

Council Grove Gr.

Cottonwood 2740' -912' (14)

2750' -926'

2744' -920'

Foraker 2894' -1066' (14)

2904' -1080'

2898' -1004'

Admire 3000' -1172' (13)

3009' -1185'

3004' -1180'

Onaga 3070' -1242' (6)

3072' -1248'

3066' -1242'

Onaga 3199' -1371' (15)

3210' -1386'

3204' -1380'

Pennsylvanian

Virgilian

Wabaunsee Gr. 3246' -1418' (11)

___ ' - ___ '

3246' -1422'

Root Shale 3330' -1502' (9)

3335' -1511'

3334' -1510'

Stotler 3388' -1560' (12)

3396' -1572'

3390' -1566'

Emporia 3506' -1678' (20)

3522' -1698'

3520' -1696'

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CONSERVATION DIVISION WICHITA, KANSAS

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G.L. 1817'
K.B. 1824'

Comparison Well
NW NE 3-33S-17W
K.B. 1828'

Drill Time
And Samples

Wire Line
Logs

API # 15-033-20894

Formation	Well	Depth	Interval	Drill Time	And Samples	Wire Line	Logs
Shawanee Gr.	Topeka	3714'	-1886' (3)	3713'	-1889'	3705'	-1881'
	Lecompton	3895'	-2067' (5)	3896'	-2072'	3886'	-2062'
	Queen Hill	3896'	-2158' (3)	3885'	-2161'	3978'	-2154'
	Oread	4149'	-2321' (15)	4160'	-2334'	4150'	-2326'
Douglas Gr.	Heebner	4179'	-2351' (18)	4193'	-2169'	4186'	-2362'
	Toronto	4188'	-2360' (16)	4200'	-2374'	4200'	-2376'
	Douglas Shale	4239'	-2411' (16)	4251'	-2427'	4254'	-2430'
	Missourian	Lansing Gr.	4379'	-2551' (11)	4374'	-2560'	4378'
Kansas City Gr.	Bonner Spgs						
	Cherryvale	4726'	-2898' (12)	4724'	-2910'	4724'	-2900'
	Dennis	4729'	-2901' (11)	4736'	-2912'	4728'	-2904'
	Stark	4786'	-2958' (11)	4772'	-2969'	4786'	-3052'
	Swope	4793'	-2965' (7)	4792'	-2972'	4792'	-2968'
	Hushpuckney	4822'	-2994' (12)	4820'	-3004'	4824'	-3000'
	Hertha	4824'	-2996' (14)	4834'	-3010'	4827'	-3003'
	Demoinesian	Marmaton Gr.	4938'	-3110' (9)	4943'	-3119'	4938'
Bandera	4970'	-3142' (12)	4974'	-3150'	4969'	-3143'	
Pawnee	4976'	-3148' (5)	4977'	-3153'	4971'	-3147'	
Labette	5001'	-3173' (10)	5007'	-3183'	5001'	-3177'	
Fort Scott	5004'	-3176' (9)	5009'	-3185'	5004'	-3180'	
Cherokee Gr.	5014'	-3186' (12)	5022'	-3198'	5014'	-3190'	

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Mississippian

Meramecian

Spergen

5080' -3252' (12) 5088' -3264' -3262 5083' -3256'

Warsaw

5136' -3308' (18) 514' -3322' -3318 5148' -3324'

Osageian

5252-3428

5200' -3372 (13) 5265' -3441' -3416 5290' -3466'

Kinderhookian

Ordovician

Choteu

5579' -3751' (71) 5622' -3822' 3748 (71) 5634' -3810'

Champlainian

Viola

5600' -3772' (71) 5667' -3843' 3772 (71) 5666' -3842'

Simpson Dolo

5782' -3954' (75) 5853' -4029' -3946 (75) 5836' -4012'

Simpson Sh

5858' -4030' 5900' -4076'

Canadian

Arkade

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CONSERVATION DIVISION
WICHITA, KANSAS

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Arbuckle	5918' -4091' (55)	<u>5970</u> ' - <u>4146</u> ' ^{28'} ₄₀₇₈	<u>5972</u> - <u>4148</u> '
Total Depth	5974' -4146'	<u>6020</u> ' - _____ '	<u>6022</u> - <u>4198</u> '

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CONSERVATION DIVISION
WICHITA, KANSAS

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

ORIGINAL No. 7413

API# 15-033-20894

Well Name & No. Carlisle 1-34 Test No. 1 Date 9-13-94
 Company Ensign Operating Company Zone Tested LeCompton
 Address 621 17th #1800 Denver CO 80203 Elevation 1824 KB
 Co. Rep./Geo. Duane Morelock cont. Duke #1 Est. Ft. of Pay _____
 Location: Sec. 34 Twp. 33s Rge. 17w Co. Conover State Ks
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 4052-4144 Drill Pipe Size 4" 2 1/4"
 Anchor Length 92 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4047 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 4052 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 4144 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.1 lb/gal. Viscosity 40 Filtrate 12 ml
 Tool Open @ 11:04 AM Initial Blow strong - bottom of bucket in 1 minute

OCT 1 '94

Final Blow strong - bottom of bucket in 1 1/2 minutes
(no blowback on either shut-in)

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Recovery — Total Feet 2640 Feet of Gas in Pipe _____ Flush Tool? _____

Rec.	Feet Of	% gas	% oil	% water	% mud
<u>240</u>	<u>MW</u>				
<u>2400</u>	<u>salt water</u>				
_____	_____				
_____	_____				
_____	_____				

BHT 124 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 0.95 @ 21.5 °F Chlorides 87,000 ppm Recovery Chlorides 16,000 ppm System

(A) Initial Hydrostatic Mud 1942 PSI AK1 Recorder No. 22150 Range 3925
 (B) First Initial Flow Pressure 346 PSI @ (depth) 4079 w/Clock No. 14074
 (C) First Final Flow Pressure 728 PSI AK1 Recorder No. 24174 Range 3050
 (D) Initial Shut-In Pressure 1522 PSI @ (depth) 4084 w/Clock No. 23839
 (E) Second Initial Flow Pressure 850 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 1243 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-In Pressure 1539 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 1934 PSI Initial Shut-In 60 Jars 4

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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.

Approved By Duane E. Morelock
 Our Representative Paul Simpson

Final Flow 60 Safety Joint X
 Final Shut-In 120 Straddle _____
 Circ. Sub _____
 Sampler X
 Extra Packer _____
 Other _____

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TOTAL PRICE \$ _____

Printcraft Printers - Hays, KS

CONSERVATION DIVISION WICHITA, KANSAS

TRILOBITE TESTING COMPANY ORIGINAL

P.O. Box 362 - Hays, Kansas 67601

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FLUID SAMPLER DATA

Ticket No. 7413 Date 9-13-94 RELEASED
Company Name Ensign Oil & Gas
Lease Corstite 1-34 Test No. 1
County Comanche KS Sec. 34 Twp. 33s Rng. 17w

SAMPLER RECOVERY

Gas ML
Oil ML
Mud ML
Water 4000 ML
Other ML
Pressure 125 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 16,000 ppm.
Resistivity .142 ohms @ 70 F
Viscosity 40
Mud Weight 9.1
Filtrate 12
Other n/w

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SAMPLER ANALYSIS

Resistivity .109 ohms @ 91.2 F
Chlorides 65,000 ppm.
Gravity corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity .118 ohms @ 74.9 F
Chlorides 60,000 ppm.
MIDDLE
Resistivity .095 ohms @ 71.5 F
Chlorides 82,000 ppm.
BOTTOM
Resistivity .1095 ohms @ 71.5 F
Chlorides 82,000 ppm.

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WICHITA, KANSAS

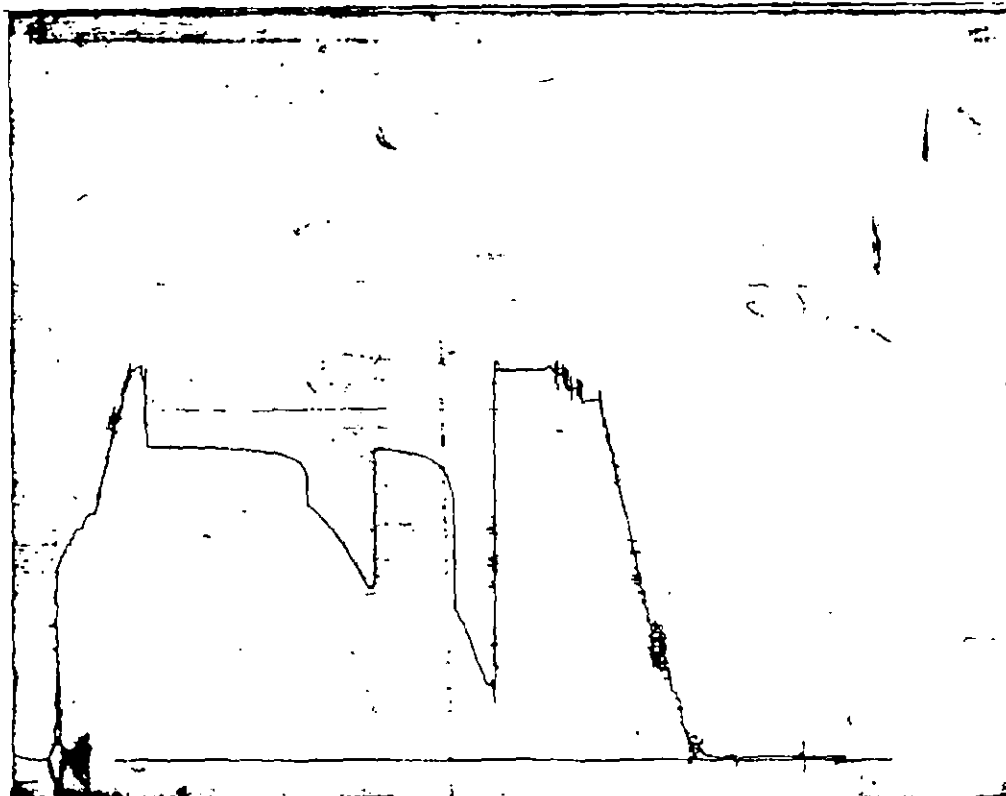
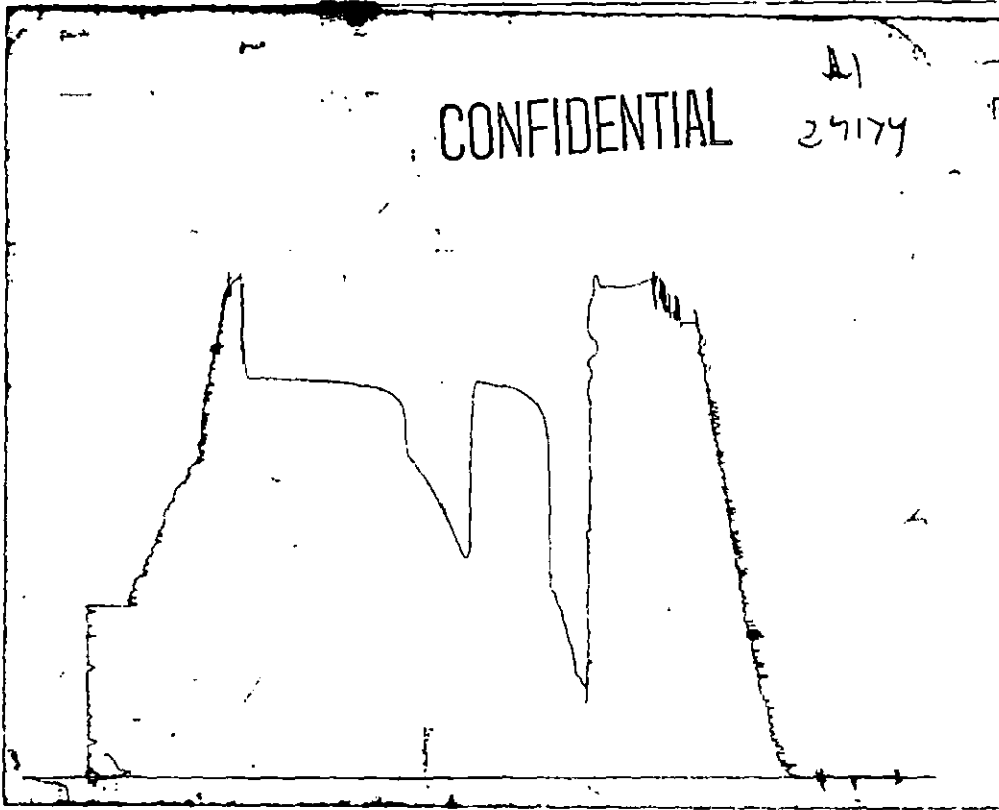
ENSIGN OPERATING COMPANY
NO. 1-34 CARLISLE
BEALS PROSPECT
SW SW NE SEC. 34, T33S, R17W
COMANCHE COUNTY, KANSAS

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CONSERVATION DIVISION
WICHITA, KANSAS

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket ORIGINAL No. 6990

API# 15-033-20894

Well Name & No. Carlisle #1-34 Test No. 2 Date 9-19-94
 Company Ensign Oper 10 **CONFIDENTIAL** Zone Tested F6 Scott
 Address Denver CO 80293 Elevation 1824 KB
 Co. Rep./Geo. Duane Macedock cont. Duke #1 Est. Ft. of Pay 7
 Location: Sec. 34 Twp. 33S Rge. 17W Co. Comanche State KS
 No. of Copies _____ Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes No _____ Evaluation _____

Interval Tested 5004-5028 Drill Pipe Size 4 1/2 x H
 Anchor Length 24 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 4999 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 5004 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5028 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.1 lb/gal. Viscosity 15 Filtrate 9.6
 Tool Open @ 2:45 pm Initial Blow 5 spins blow bottom in 30 sec
1st GTS in 30 min Final Blow GTS as tool opened NO
 Final Blow GTS as tool opened OCT 1 '95

Recovery — Total Feet 30 Feet of Gas in Pipe _____ **CONFIDENTIAL**
 Flush Tool? NO

Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
Rec. <u>30</u>	Feet Of <u>51 gas out mud 20</u>	% gas _____	% oil _____	% water <u>80</u>	% mud _____
Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____
Rec. _____	Feet Of _____	% gas _____	% oil _____	% water _____	% mud _____

BHT 115 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 7000 ppm System

(A) Initial Hydrostatic Mud 2447 PSI AK1 Recorder No. 10333 Range 4050
 (B) First Initial Flow Pressure 20 PSI @ (depth) 5007 w/Clock No. 26191
 (C) First Final Flow Pressure 20 PSI AK1 Recorder No. 13255 Range 6300
 (D) Initial Shut-in Pressure 548 PSI @ (depth) 5025 w/Clock No. 14389
 (E) Second Initial Flow Pressure 20 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 20 PSI @ (depth) _____ w/Clock No. _____
 (G) Final Shut-in Pressure 1703 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 2437 PSI Initial Shut-in 60 Jars

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Final Flow 60 Safety Joint
 Final Shut-in 120 Straddle _____
 Circ. Sub 2 1/2
 Sampler
 Extra Packer _____
 Other _____

Approved By Duane E. Macedock **RELEASE BASED**

Our Representative [Signature] **JAN 11 1996**

Printcraft Printers - Hays, KS

FROM **CONFIDENTIAL**

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 OCT 14 1994
 CONSERVATION DIVISION
 WICHITA, KANSAS

TOTAL PRICE \$ _____

1718
TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

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FLUID SAMPLER DATA

Ticket No. 6990 Date 9-19-94 **CONFIDENTIAL**
Company Name Ensign
Lease Parlisle 1-34 Test No. 2
County Comanche KS Sec. 34 Twp. 33S Rng. 27W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud 4000 ML
Water _____ ML
Other _____ ML
Pressure _____ PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 7000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 45
Mud Weight 9.1
Filtrate 9.6
Other KUC

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SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

RELEASED

JAN 11 1996

FROM CONFIDENTIAL

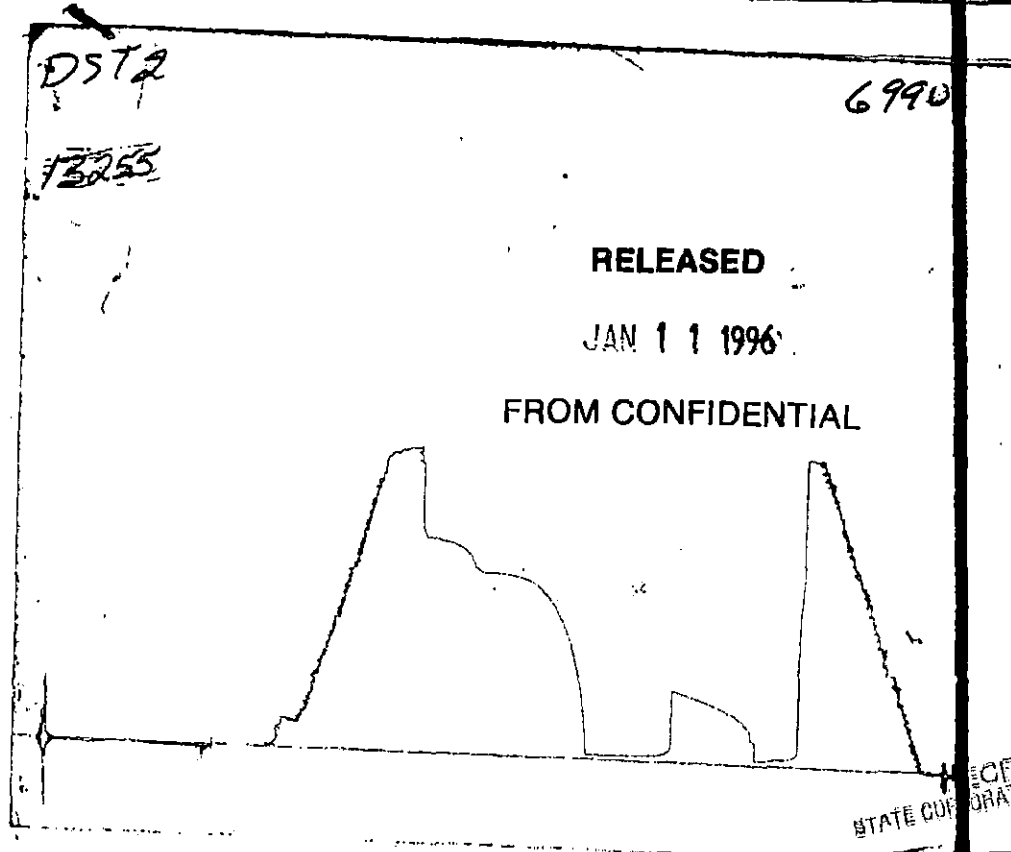
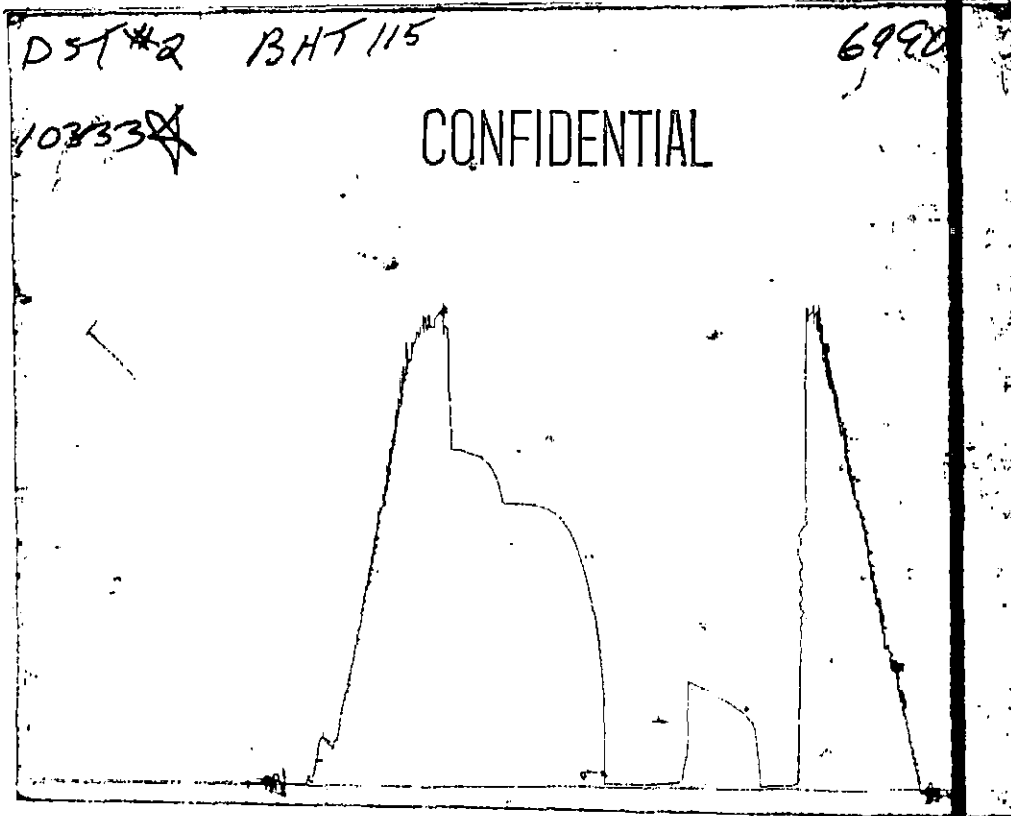
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CONSERVATION DIVISION
WICHITA, KANSAS

ENSIGN OPERATING COMPANY
NO. 1-34 CARLISLE
BEALS PROSPECT
SW SW NE SEC. 34, T33S, R17W
COMANCHE COUNTY, KANSAS

ORIGINAL



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CONSERVATION DIVISION
WICHITA, KANSAS

17A
TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

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ORIGINAL

FLUID SAMPLER DATA

ATTN: Jim Murphree

Ticket No. 6991 Date 9-20-94

Company Name ENSIGN

Lease Carlisle 1-34 Test No. 3

County Comanche ks Sec. 34 Twp. 335 Rng. 17W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud ✓ _____ ML
Water _____ ML
Other _____ ML
Pressure ✓ _____ PSI
Total ✓ _____ ML

PIT MUD ANALYSIS

Chlorides 8.000 _____ ppm.
Resistivity _____ ohms @ _____ F
Viscosity 51 _____
Mud Weight 9.1 _____
Filtrate 10.4 _____
Other _____

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

RELEASED

JAN 11 1996

FROM CONFIDENTIAL

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STATE CORPORATION COMMISSION

OCT 14 1994

CONSERVATION DIVISION
WICHITA, KANSAS

TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket ORIGINAL No 6991

API# 15-033-20894

Well Name & No. Carlisle #1-34 Test No. 3 Date 9-20-94
 Company Ensign Oper Co Zone Tested M.S.S
 Address Denver CO 80293 Elevation 1821 KB
 Co. Rep./Geo Ruane Moradock cont. Duke #1 Est. Ft. of Pay 12
 Location: Sec. 34 Twp. 33S Rge. 17W Co. Comanche State Ks
 No. of Copies _____ Distribution Sheet _____ Yes No Turnkey _____ Yes No _____ Evaluation _____

Interval Tested 5095-5140 Drill Pipe Size 4 1/2 XH
 Anchor Length 45 Top Choke — 1" _____ Bottom Choke — 3/4" _____
 Top Packer Depth 5090 Hole Size — 7 7/8" _____ Rubber Size — 6 3/4" _____
 Bottom Packer Depth 5095 Wt. Pipe I.D. — 2.7 Ft. Run _____
 Total Depth 5140 Drill Collar — 2.25 Ft. Run _____
 Mud Wt. 9.1 lb/gal. Viscosity 51 Filtrate 10.4
 Tool Open @ 3:00 PM Initial Blow Strong blow GTS in 10 min

Final Blow GTS as tool opened NOU

Recovery — Total Feet 50 Feet of Gas in Pipe _____ OCT 1 '3
 Flush Tool? NO

Rec.	Feet Of	%gas	%oil	%water	%mud
<u>50</u>	<u>Very slugs out mud</u>				<u>98%</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

BHT 118 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 8,000 ppm System

(A) Initial Hydrostatic Mud 2440 PSI AK1 Recorder No. 10333 Range 4050
 (B) First Initial Flow Pressure 92 PSI @ (depth) 5098 W/Clock No. 26191
 (C) First Final Flow Pressure 61 PSI AK1 Recorder No. 13255 Range 6300
 (D) Initial Shut-in Pressure 107 PSI @ (depth) 5137 W/Clock No. 8698
 (E) Second Initial Flow Pressure 61 PSI AK1 Recorder No. _____ Range _____
 (F) Second Final Flow Pressure 61 PSI @ (depth) _____ W/Clock No. _____
 (G) Final Shut-in Pressure 61 PSI Initial Opening 30 Test _____
 (H) Final Hydrostatic Mud 2408 PSI Initial Shut-in 60 Jars

Final Flow 60 Safety Joint FROM CONFIDENTIAL
 Final Shut-in 120 Straddle _____
 Circ. Sub 2 1/2
 Sampler

Approved By Ruane Moradock
 Our Representative R Collins
 Extra Packer _____
 Other _____

Printcraft Printers - Hays, KS
 TOTAL PRICE \$ _____

RECEIVED
 STATE CORPORATION COMMISSION
 OCT 14 1994
 REGISTRATION DIVISION
 HUTA, KANSAS

INVOICE



HALLIBURTON ORIGINAL

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046

INVOICE NO.	DATE
614461	09/07/1994

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
CARLISLE 1-34		COMANCHE		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
PRATT	DUKE DRILLING	CEMENT SURFACE CASING		09/07/1994	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
273943	RICHARD D BERG			COMPANY TRUCK	76518

ENSIGN OPERATING COMPANY
1515 AIR PARK AVENUE
P.O. BOX 2161
LIBERAL, KS 67905-2161

CONFIDENTIAL

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

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	90	MI	2.75	247.50
		1	UNT		
001-016	CEMENTING CASING	822	FT	890.00	890.00
		1	UNT		
030-016	CEMENTING PLUG 5W ALUM TOP	8.625	IN	120.00	120.00
		1	EA		
12A	GUIDE SHOE - 8 5/8" 8RD THD.	1	EA	216.00	216.00
825.217		1	EA		
40	CENTRALIZER-8-5/8 X 12-1/4	2	EA	72.00	144.00
806.60059					
24A	INSERT FLOAT VALVE - 8 5/8" 8RD	1	EA	171.00	171.00
815.19502					
27	FILL-UP UNIT 7"- 8 5/8" KCC	1	EA	55.00	55.00
815.19415					
320	CEMENT BASKET-8-5/8 X 12-1/4 OCT 1 '3	1	EA	122.00	122.00
800.8888					
350	HALLIBURTON WELD-A CONFIDENTIAL	1	EA	14.50	14.50
890.10802					
504-118	CEMENT - HALL. LIGHT PREMIUM	250	SK	8.27	2,067.50
507-210	FLOCELE	63	LB	1.65	103.95
509-406	ANHYDROUS CALCIUM CHLORIDE	4	SK	36.75	147.00
504-043	CEMENT - PREMIUM	150	SK	9.20	1,380.00
509-406	ANHYDROUS CALCIUM CHLORIDE	3	SK	36.75	110.25
500-207	BULK SERVICE CHARGE	418	CFT	1.35	564.30
500-306	MILEAGE CMTG MAT DEL OR RETURN	837.7875	TMI	.95	795.90

INVOICE SUBTOTAL

RELEASED

7,148.90

DISCOUNT-(BID)

INVOICE BID AMOUNT

JAN 11 1996

2,144.66-

5,004.24

***** CONTINUED ON NEXT PAGE *****

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 payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

CUSTOMER COPY

REMIT TO:
P.O. BOX 95-1046
DALLAS, TX 75395-1046



INVOICE

INVOICE NO.	DATE
614461	09/07/1994

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
CAMLISLE 1-34		COMANCHE		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
PRATT	DUKE DRILLING	CEMENT SURFACE CASING		09/07/1994	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
273943	RICHARD D BERG			COMPANY TRUCK	76518

CONFIDENTIAL

ENSIGN OPERATING COMPANY
1515 AIR PARK AVENUE
P.O. BOX 2161
LIBERAL, KS 67905-2161

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

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	*- KANSAS STATE SALES TAX				206.21
	*- PRATT COUNTY SALES TAX				42.08

RELEASED
JAN 11 1996
FROM CONFIDENTIAL

OCT 13
CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION
OCT 14 1994

INVOICE TOTAL - PLEASE PAY THIS AMOUNT ===== \$5,252.53

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 payable until paid at the highest lawful contract rate applicable, but not to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.



HALLIBURTON

HALLIBURTON ENERGY SERVICES

FORM 1906 R-13

CHARGE TO: Ensign Oper
 ADDRESS: P.O. Box 2161
 CITY, STATE, ZIP CODE: LIBERAL KANSAS 67905

ORIGINAL

TICKET

No.

614461 - 1

PAGE 1 OF 1
 RECEIVED
 INFORMATION
 OCT 1 1994
 SERVICE CENTER

1. SERVICE LOCATIONS <u>Plant K5</u>	WELL/PROJECT NO. <u>1-34</u>	LEASE <u>Carlisle</u>	COUNTY/PARISH <u>Comanche</u>	STATE <u>K5</u>	CITY/OFFSHORE LOCATION	DATE <u>9-7-94</u>	OWNER
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>Duke Drill #1</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>WELLSITE</u>	ORDER NO.	
3. WELL TYPE <u>01</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>010</u>	WELL PERMIT NO. <u>15-03320894</u>	WELL LOCATION <u>LAND</u>			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT.	DF		U/M	U/M	PRICE		
<u>200 117</u>					MILEAGE	<u>90</u>	<u>MIL</u>	<u>1</u>	<u>2.75</u>	<u>247.50</u>
<u>001-016</u>					Pump Charge	<u>822</u>	<u>FT</u>	<u>6</u>	<u>145</u>	<u>890.00</u>
<u>030 016</u>					TOP Plug	<u>1</u>	<u>EA</u>	<u>8 1/2 IN</u>		<u>120.00</u>
<u>12 A</u>	<u>825 217</u>				Cement Seal	<u>1</u>	<u>EA</u>	<u>8 1/2 IN</u>		<u>216.00</u>
<u>40</u>	<u>806 600 59</u>				Cement Seal	<u>2</u>	<u>EA</u>	<u>8 1/2 IN</u>	<u>72.00</u>	<u>144.00</u>
<u>24 A</u>	<u>815 19502</u>				Inject Plug Unit	<u>1</u>	<u>EA</u>	<u>8 1/2 IN</u>		<u>171.00</u>
<u>27</u>	<u>815 19415</u>				Fill up unit	<u>1</u>	<u>EA</u>	<u>1 1/2 IN</u>		<u>55.00</u>
<u>320</u>	<u>806-70060</u>				Cement Sealer	<u>1</u>	<u>EA</u>	<u>8 1/2 IN</u>		<u>122.00</u>
<u>350</u>	<u>890 10802</u>				Hydro Seal	<u>1</u>	<u>EA</u>			<u>14.50</u>

ORIGINAL

CONFIDENTIAL

CONFIDENTIAL

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: X Richard O. Berg

DATE SIGNED: 9-7-94 TIME SIGNED: 0900 A.M. P.M.

do do not require IPC (Instrument Protection). Not offered

SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input checked="" type="checkbox"/> PULLED <input type="checkbox"/> RUN	SURVEY	AGREE	UN-DECIDED	DIS-AGREE
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		

PAGE TOTAL: 1980.00
 FROM CONTINUATION PAGE(S): 5168.90
 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: 7148.90

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): Richard O. Berg CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): X Richard O. Berg HALLIBURTON OPERATOR/ENGINEER EMP #: C1690 HALLIBURTON APPROVAL: Bj 30



HALLIBURTON
ENERGY SERVICES

TICKET CONTINUATION

ORIGINAL

TICKET No. *614461*

FORM 1911 R-8

CUSTOMER: ENSIGN OPERATING
WELL: CARLISLE 1-34
DATE: 09-07-94
PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF			QTY.	U/M	QTY.	U/M			
504-118		1				PREMIUM LIGHT CEMENT	250	sk			8 27	2067	50
507-210	890.50071	1				FLOCELE BLENDED 1/4#	63	lb			1 65	103	95
509-406	890.50812	1				CALCIUM CHLORIDE BLENDED 2%	4	sk			36 75	147	00
LEAD CEMENT LOADED ON THE FRONT OF TRUCK #4142/5621													
504-043	516.00272	1				PREMIUM CEMENT	150	sk			9 20	1380	00
509-406	890.50812	1				CALCIUM CHLORIDE BLENDED 2%	3	sk			36 75	110	25
TAIL CEMENT LOADED ON THE BACK OF TRUCK #4142/5621													
<div style="display: flex; justify-content: space-between;"> ORIGINAL CONFIDENTIAL CONFIDENTIAL RELEASED FROM CONFIDENTIAL </div>													
500-207		1				SERVICE CHARGE	CUBIC FEET		418		1 35	564	30
500-306		1				MILEAGE CHARGE	TOTAL WEIGHT	LOADED MILES	45	TON MILES	837.7875	95	795 90
							37,235						

CONTINUATION TOTAL 5168.90

WELL DATA

FIELD _____ SEC. 34 TWP. 33 RING. 19 COUNTY Comanche 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 7-10 CIG TOTAL DEPTH 823

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>10</u>	<u>24</u>	<u>7 7/8</u>	<u>KA</u>	<u>820</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

TOOLS AND ACCESSORIES		
TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE <u>17 E</u>	<u>1</u>	<u>Hunter</u>
GUIDE SHOE <u>266</u>	<u>1</u>	<u>"</u>
CENTRALIZERS <u>5-4</u>	<u>2</u>	<u>"</u>
BOTTOM PLUG		
TOP PLUG <u>5-W</u>	<u>1</u>	<u>"</u>
HEAD <u>P.C.</u>	<u>1</u>	<u>"</u>
PACKER		
OTHER <u>Cement Bagging</u>	<u>1</u>	<u>"</u>

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-7</u>	DATE <u>9-7</u>	DATE <u>9-7</u>	DATE <u>9-7</u>
TIME <u>0419</u>	TIME <u>0745</u>	TIME <u>1442</u>	TIME <u>1600</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>D. J. Isa</u>	<u>42033</u>	<u>Phase 15</u>
<u>K. D. Taylor</u>	<u>50220</u>	<u>"</u>
<u>P. ...</u>	<u>5142-5121</u>	<u>"</u>

CONFIDENTIAL

TREAT. FLUID _____ DENSITY _____ LB./GAL. °API
DISPL. FLUID _____ DENSITY _____ LB./GAL. °API
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
SURFACTANT 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. _____
PERFAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT Cement
DESCRIPTION OF JOB Cement 5 1/2 11 1/4

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

CUSTOMER REPRESENTATIVE X Richard ...

HALLIBURTON OPERATOR Yancy ... COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
<u>①</u>	<u>250</u>	<u>Pine Light</u>	<u>White</u>	<u>8</u>	<u>1/4" Elacote, 22cc</u>	<u>1.69</u>	<u>131</u>
<u>②</u>	<u>150</u>	<u>Pine</u>	<u>White</u>	<u>8</u>	<u>22cc</u>	<u>1.18</u>	<u>156</u>

FROM CONFIDENTIAL

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESFLUSH: BBL.-GAL. 3 TYPE Feed Hole
BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. 49.4
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. ① 75.2 ② 315 = 106.7
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____

REMARKS

ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 4/5 REASON Air

SEE T-31;
T-11

CUSTOMER Phase 15
LEASE Comanche
WELL NO. 1-341
JOB TYPE PSD Summary
DATE 9-7-90

JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
ENGLISH OPER		1-34		CARLISLE		8 3/8 SURFACE		614461	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0410								Called out ready now
	0745								ON location - set up
	0830								Rig Drilling Hole
	0850								HOLE MADE - CIRCULATE
	0851								Finish circulation
									START OUT OF HOLE w/ DRILL PIPE
									DRILL PIPE OUT OF HOLE
									Rig up to RUN CASING
	1000								START CASING TO HOLE
									CASING WILL NOT GO PAST 100' +
									DECIDE TO PULL CASING &
									MAKE SHORT TRIP OF BIT
									DRILL PIPE BACK OUT OF HOLE
	1315								START BACK TO HOLE w/ 8 3/8 CASING
	1325								CASING TO HOLE - DROP BALL
									HOOK TO RIG AND PUMP
	1430								BREAK CIRCULATION
	1438								Finish circulation
									HOOK TO HOOKS:
									Cement as follows:
	1442	4.0	3.0	✓	✓		250		Pump Fresh H2O SPACER
	1444	5.9	0	✓	✓		500		START mixing & Pumping Cement (LATE)
	1503	5.9	106.0	✓	✓		700		Finish mixing cement
									RELEASE Plug ON THE FLY
									WHILE Pumping THE LAST BBL OF CMT.
	1504	5.4	0	✓	✓		300		START Pumping H2O
	1513	5.4	49.4	✓	✓		475		Plug Done
									TRACE OF Cement TO
									FLO DITCH - CHECK CELLAR
									& HAVE GOOD CEMENT -
									LET CEMENT STAY TO CELLAR
									FOR ABOUT 30 min BEFORE
									Jetting
	1600								JOB COMPLETE
									THANK YOU
									Call Again - Doug of Dept

ORIGINAL

CONFIDENTIAL

OCT 13
CONFIDENTIAL

RELEASED

JAN 11 1996

FROM CONFIDENTIAL

CUSTOMER COPY



REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

INVOICE

INVOICE NO.	DATE
614550	09/25/1994

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
CAWLISLE 1-34		COMANCHE		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
PRATT	DUKE DRILLING #1	PLUG TO ABANDON		09/25/1994	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
273943	GARY PUGH	ORIGINAL		COMPANY TRUCK	77540

DIRECT CORRESPONDENCE TO:

ENSGN OPERATING COMPANY
1515 AIR PARK AVENUE
P.O. BOX 2161
LIBERAL, KS 67905-2161

CONFIDENTIAL

OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2000
OKLAHOMA CITY, OK 73102-5601

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	90	MI	2.75	247.50 *
		1	UNT		
009-019	PLUGGING BK SPOT CEMENT OR MUD	5790	FT	2,145.00	2,145.00 *
		1	UNT		
504-136	CEMENT - 40/60 POZMIX STANDARD	175	SK	6.08	1,064.00 *
506-121	HALLIBURTON-GEL 2%	294	TB	0.00	N/C *
507-277	HALLIBURTON-GEL BENTONITE	6	SK	18.60	111.60 *
500-207	BULK SERVICE CHARGE	193	CFT	1.35	260.55 *
500-306	MILEAGE CMTG MAT DEL OR RETURN	359.10	TMI	.95	341.15 *

INVOICE SUBTOTAL

4,169.80

DISCOUNT - (BID)

1,042.43-

INVOICE BID AMOUNT

3,127.37

*-KANSAS STATE SALES TAX

153.25

*-PRATT COUNTY SALES TAX

31.28

hcc

**OCT 13
CONFIDENTIAL**

RELEASED

JAN 11 1996

FROM CONFIDENTIAL

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

\$3,311.90

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 payable until paid at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event Halliburton employs an attorney for collection of any account, Customer agrees to pay attorney fees of 20% of the unpaid account, plus all collection and court costs.

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Midwest
PRATT KS

BILLED ON TICKET NO. 617530

WELL DATA
FIELD _____ SEC. 34 TWP. 33S RING. 17W COUNTY Comanch 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			8 1/2	KS	833	
LINER						
TUBING			4 1/2" X O	0	5970'	
OPEN HOLE			7 1/2	533	6027'	SHOTS/FT.
PERFORATIONS	ORIGINAL					
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLER	ON LOCATION	JOB STARTED	JOB COMPLETED
9-25-94	9-25-94	9-25-94	9-25-94
DATE	DATE	DATE	DATE
TIME 0900	TIME 1230	TIME 1300	TIME 1900

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER		
OTHER		

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
G. Byrly	8584 PU	PRATT KS
K. Gurdley	LR500 RCM	"
C. Baker	CG47 BULK	"

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB./GAL. API
DISPL. FLUID _____ DENSITY _____ LB./GAL. API
PROP. TYPE _____ SIZE _____ LB.
PROP. TYPE _____ SIZE _____ LB.
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
ACID TYPE _____ GAL. _____ %
SURFACTANT TYPE _____ GAL. _____ IN
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. _____ IN
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

DEPARTMENT COM. T
DESCRIPTION OF JOB PTA New well
JOB DONE THRU: TUBING CASING ANNULUS TBG./ANN
CUSTOMER REPRESENTATIVE [Signature]
HALLIBURTON OPERATOR [Signature] COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	175	40/60	P02	B	62. TOTAL 60L	1.67	12.88

RELEASED

CONFIDENTIAL

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ TYPE _____
BREAKDOWN _____ MAXIMUM _____ PAD: BBL.-GAL. _____
AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL.-GAL. _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY: BBL.-GAL. _____
HYDRAULIC HORSEPOWER _____ TOTAL VOLUME: BBL.-GAL. _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET _____ REASON _____

FROM CONFIDENTIAL

RAMARKS

50 at 5970 15 in Rth. 1e
50 at 860' 10 in Rth. 1e
40 at 400'
10 at 40

CUSTOMER: FISHING OPERATIONS LEASE: Comanche WELL NO. 1-311 JOB TYPE: PTA DATE: 9-25-94



JOB LOG HAL-2013-C

CUSTOMER Fusion Operating WELL NO. 1-34 LEASE CARLISLE JOB TYPE PTA TICKET NO. 614550

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	12:30							ON LOCATION
	13:15	6	15			250		Pump SPACER
	13:20	5	14.8			250		Pump 1st Plug 50 sks
	13:25	6	5					Pump SPACER
	13:30	8	76					SPOT at 5970'
	16:30	4	14.8					Mix 2nd Plug 50 sks
	16:35	1	8.7					Spot at 860'
	17:10	6	11.9					Mix 3rd Plug 40 sks
	17:15	6	2.8					Spot at 400'
	18:20	3	3.0					Plug Top 40' 10 sks
	18:25	3	4.5					Plug Rathole 15 sks
	18:30	3	3.0					Plug Mousehole 10 sks
	18:35							Wash up RELEASED
	19:00							Job Complete JAN 11 1996
								Thanks FROM CONFIDENTIAL
								Glen, Kevin, Cedric
								ncc
								OCT 13
								CONFIDENTIAL

FIELD OFFICE

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