

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

ORIGINAL

API NO. 15- 135-23,747-00-00
County Ness
SE SE SE Sec. 13 Twp. 20S Rge. 26 ^E X

Operator: License # 04782
Name: Ensign Operating Co.
Address 621 17th St.
Suite 1800
City/State/Zip Denver, CO 80293

330 Feet from S/W (circle one) Line of Section
330 Feet from E/W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NW, SE, SW or EW (circle one)

Purchaser: _____
Operator Contact Person: J. C. SIMMONS **KCO**
Phone (303) 293-9999 **JUN 24**
Contractor: Name: Duke Drilling Co., INC **CONFIDENTIAL**
License: 5929
Wellsite Geologist: Duane Moredock

Lease Name Johnson Well # 1-13
Field Name Wildcat
Producing Formation Mississippian
Elevation: Ground 2471 KB 2480
Total Depth 4535 PBDT 4480
Amount of Surface Pipe Set and Cemented at 315 Feet
Multiple Stage Cementing Collar Used? Yes X No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cnt.

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SIGW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan D&A 7-14-93
(Data must be collected from the Reserve Pit)

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 _____ PBDT _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Inj?) Docket No. _____
4-27-93 5-2-93 D&A 6-17-93
Spud Date Date Reached TD Completion Date

Chloride content 3000 ppm Fluid volume 4350 bbls
Dewatering method used Evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name _____
Lease Name _____ License No. _____
Quarter Sec. SEP 6 1994 S Rng. _____ E/W
County _____ Docket No. _____

FROM CONFIDENTIAL

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 Connie Smith
Title Sr. Engineering Technician Date 6/24/93
Subscribed and sworn to before me this 24th day of June
19 93
Notary Public James W. Campbell
Date Commission Expires 9-30-94

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution JUN 28 1993
 KCC NGPA
 KGS Plug Other (Specify) _____
STATE CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WICHITA, KANSAS

Operator Name Ensign Operating Co. Lease Name Johnson Well # 1-13
 Sec. 13 Twp. 20S Rge. 26 East County Ness
 West

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

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

Log Formation (Top), Depth and Datums Sample
 Name Top Datum

List All E.Logs Run:
 See attached

See attached

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	315	60/40 Poz	175	2%gel 3%cc
production	7 7/8	4 1/2	10.5	4535	Class "A"	150	18%salt, 5% EAZ, .6% Halad 322

ADDITIONAL CEMENTING/SQUEEZE RECORD CIBP @ 4482'

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing	4480	cmt retainer	75	micro matrix
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	4458	hydrojet @4 holes		

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	4491-98 (Mississppian)	Acidize w/500gals 15% MCA, 5 gal PEN-88 & .5gal HRI 85M	4491-98
4	4456-61 (Cherokee)	Acidize w/250gals 15% Fe-HCl & 250 gals HF acid	4456-61
		Frac w/8000gals My-T-Gel LT & 10,000# 20/40 mesh SD	4456-61

TUBING RECORD Size 2 3/8 Set At 4466 Packer At 4472 Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. D&A 6/17/93 Producing Method Flowing Pumping Gas Lift Other (Explain)

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

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

ORIGINAL

JUN 2 1993

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FORMATION TOPS

Ensign Operating Co.

No. 1-13 Johnson

SE SE SE Sec 13, T20S, R26W

Ness County, Kansas

G.L. 2471'

Comparison Well

Drill Time

Wire Line

K.B. 2480'

SE NW 24-20S-26W

And Samples

Logs

K.B. 2446'

Tertiary

Surface +2441'

Surface +2471'

Surface +2471'

Cretaceous

Cenomanian

Greenhorn

103' +1866'

146' +2334'

144' +2336'

Graneros

252' +2194'

292' +2188'

294' +2186'

Albian

Dakota

290' +1904'

334' +2146'

336' +2144'

Kiowa

580' +1866'

599' +1881'

599' +1881'

Cheyenne

738' +1708'

782' +1698'

782' +1698'

Permian

Glaudalupian

Tologa

837' +1609'

878' +1602'

874' +1606'

Day Creek

900' +1546'

951' +1521'

938' +1542'

White Horse

960' +1486'

1006' +1474'

999' +1481'

Leonardian

Nipewalla Gr.

Blaine

1031' +1415'

1078' +1402'

1074' +1406'

Cedar Hills

1050' +1296'

1195' +1285'

1191' +1289'

Sumner Gr.

Stone Corral

1670' +776'

1717' +763'

1717' +763'

Ninnescah

1708' +728'

1731' +749'

1756' +724'

Wellington

Hutchinson

2108' +338'

2136' +344'

2132' +348'

Wolfcampian

Chase Gr.

Herington

2407' +39'

2458' +22'

2456' +24'

Krider

2445' -1'

2493' -13'

2492' -12'

Winfield

2499' -53'

2547' -67'

2546' -66'

Gage Shale

2524' -78'

2580' -100'

2579' -99'

Towanda

2570' -124'

2622' -142'

2620' -140'

Fort Riley

2620' -174'

2672' -192'

2673' -193'

Wreford

2750' -304'

2808' -328'

2806' -326'

Council Grove Gr.

Neva

2779' -333'

2831' -351'

2834' -354'

Red Eagle

3010' -564'

3009' -529'

3004' -524'

SEP 6 1994

JUN 28 1993

ORIGINAL

800
JUL 2 1994
CONFIDENTIAL

G.L. 2471' K.B. 2480'	Comparison Well SW SE 2-19S-20W K.B. 2446'	Drill Time And Samples	Wire Line Logs
Foraker Admire Gr.	3050' -604'	3102' -622'	3104' -624'
Pennsylvanian			
Virgilian			
Wabaunsee Gr.			
Root Shale			
Shawnee Gr.			
Topeka	3450' -1004'	3505' -1025'	3504' -1024'
Douglas Gr.			
Heebner	3774' -1328'	3826' -1346'	3824' -1344'
Toronto	3794' -1348'	3845' -1365'	3846' -1366'
Missourian			
Lansing Gr.	3818' -1376'	3869" -1389'	3872' -1392'
Kansas City Gr.			
Bonner Spgs			
Base KC			
Demoinesian			
Marmaton Gr.			
Pawnee	4296' -1850'	4340' -1860'	4340' -1860'
Labette	4336' -1890'	4378' -1898'	4377' -1897'
Fort Scott	4342' -1896'	4384' -1904'	4384' -1904'
Cherokee Gr.			
A Interval	4370' -1922'	4410' -1930'	4410' -1930'
B Interval	4401' -1954'	4441' -1961'	4441' -1961'
C Sandstone	4418' -1971'	4455' -1975'	4452' -1972'
Mississippian			
Meramecian			
Warsaw	4456' -2110'	4488' -2008'	4484' -2004'
Total Depth	4475' -2029'	4535' -2055'	4536' -2056'

RELEASED

SEP 6 1994

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STATE OF KANSAS
JUN 28 1993
GEOLOGICAL DIVISION
Wichita, Kansas

ORIGINAL

GENERAL WELL INFORMATION

JUL 1993
CONFIDENTIAL

Operator: Ensign Operating Co.

Well Name: No. 1-13 Johnson API 15-135-23,747 -00-00

Prospect: Kahoona

Location: SE SE SE Sec. 13, T20S, R26W, 330' FEL, 330' FSL

County: Ness

State: Kansas

Elevation: G.L. 2471' K.B. 2480'

Spudded: April 27, 1993 @ 8:25 A.M.

Completed: May 4, 1993 @ 1:00 P.M.

Total Depth: Driller 4535' Logger 4536'

Status: Ran Production Casing

Drill-Stem Tests: Drillstem Test No. 1 4486'-4501' Mississippian, Straddle Test
30-60-30-60

I.O. Weak Blow Building To 1" In 30 Min.
F.O. No Blow

Recovery: 15' Watery Mud w/ Show Oil.

Sampler: 2500 MI Mud, 1500 MI Water, Trace Oil @ 124 psi
Rw 1.1 @ 59° F.

Hydrostatic Pressures 2311-2261 psi
Flow Pressures 19-29:38-38 psi
Shut-in Pressures 1089-837 psi
Bottom Hole Temperature 106° F

Drillstem Test No. 2 4450'-4466' Cherokee, Straddle Test
30-60-60-60

I.O. Weak Surface Blow Increasing To 2 1/2" in 30 Min.
F.O. No Blow, 4 Min Weak Surface Blow Increasing To 4 1/4" In 60 Min.

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Recovery: 100' Oil, 39° API @ 70° F
34' Water Cut Muddy Oil, 70% Oil, 7% Water, 23% Mud.

Sampler: 3520 MI Oil, 480 ML Mud @ 28 psi

Hydrostatic Pressures 2427-2187 psi
Flow Pressures 24-34:48-72 psi
Shut-in Pressures 1111-1088 psi
Bottom Hole Temperature 118° F

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Logging Program: DI/SP/GR 0' - 4534'
CND/GR/Cal 3500' - 4513'

ELI Wireline Services, Inc., Terry Spiller, Engineer

Sample Program: Ten foot samples from 3485' - 4535'.
Samples were examined and described at wellsite. Samples were caught on depth intervals by rig crews. Samples were lagged by geologist. All depths reported herein are lagged depths. The quality of the samples was good.

Mud Logging: None

Mud Program: MSI, Rick Hughes, Engineer

Lost Circulation: 3250'-3265', 20 Bbls

Contractor: Duke Drilling Company, Jay Schneider, Toolpusher

Bit Record:

No.	Size	Make	Type	Depth Out	Feet	Hours
1	12.250	Sec	S33SF	320'	320'	2.5
2	7.875	W-Mc	51PF RR	1955'	1635'	10
3	7.875	W-Mc	51PCF	4535'	2589'	87

Total Rotating Hours 99.5. Average 45.57 Ft/Hr

Deviation Record:
3/4° @ 320'
3/4° @ 1987'
1/4° @ 4535'

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KANSAS OIL AND GAS COMMISSION

JUN 28 1993

OPERATIONS DIVISION
Wichita, Kansas

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

JUN 2 8 1993
CONFIDENTIAL

Well Name 1-13 JOHNSON Test No. ORIGINAL Date 5/3/93
 Company ENSIGN OPERATING COMPANY Zone MISSISSIPPI
 Address 621 17th ST #1800 DENVER CO 80293 Elevation 2480
 Co. Rep./Geo. DUANE MOREDOCK Cont. DUKE #4 Est. Ft. of Pay _____
 Location: Sec. 5 Twp. 20S Rge. 26W Co. NESS State KS

Interval Tested 4486-4501 Drill Pipe Size 4.5" XH
 Anchor Length 14 Wt. Pipe I.D. - 2.7 Ft. Run 225
 Top Packer Depth 4481-4486 Drill Collar - 2.25 Ft. Run _____
 Bottom Packer Depth 4500 Mud Wt. 9.4 lb/Gal.
 Total Depth 4535 Viscosity 50 Filtrate 10

Tool Open @ 3:24 AM Initial Blow WEAK 1/2" BLOW BUILDING TO 1"
 Final Blow NO BLOW

Recovery - Total Feet 15 Flush Tool? NO
 Rec. 15 Feet of OIL STAINED MUDDY WATER
 Rec. _____ Feet of RELEASED
 Rec. _____ Feet of _____
 Rec. _____ Feet of SEP 6 1994
 Rec. _____ Feet of FROM CONFIDENTIAL

BHT 106 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
 RW 1.1 @ 54.6 °F Chlorides 7000 ppm Recovery Chlorides 3700 ppm System

(A) Initial Hydrostatic Mud 2321.9 PSI AK1 Recorder No. 22150 Range 3925
 (B) First Initial Flow Pressure 26.7 PSI @ (depth) 4489 w / Clock No. 30401
 (C) First Final Flow Pressure 35.1 PSI AK1 Recorder No. 24174 Range 3050
 (D) Initial Shut-in Pressure 1098.7 PSI @ (depth) 4498 w / Clock No. 25814
 (E) Second Initial Flow Pressure 46.9 PSI AK1 Recorder No. 11058 Range 4500
 (F) Second Final Flow Pressure 46.9 PSI @ (depth) 4496 w / Clock No. 31154
 (G) Final Shut-in Pressure 847.1 PSI Initial Opening 30 Final Flow 30
 (H) Final Hydrostatic Mud 2265.7 PSI Initial Shut-in 60 Final Shut-in RECEIVED

Our Representative PAUL SIMPSON

RECEIVED
 STATE CORPORATION COMMISSION
 JUN 28 1993
 CONSERVATION DIVISION
 Wichita, Kansas

FLUID SAMPLER DATA

ORIGINAL

JUL 2 1993

CONFIDENTIAL

Ticket No.: 5731

Date: 5/3/93

Company: ENSIGN OPERATING COMPANY

Lease: 1-13 JOHNSON

Test No.: 1

County: NESS

Sec.: 5

Twp.: 20S

Rng.: 26W

SAMPLER RECOVERY

Gas
Oil TRACE
Mud 2500
Water 1500
Other
Pressure 12#
TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3600
Resistivity 1.6 ohms@ 58.2 F
Viscosity 50
Mud Wt. 9.4
Filtrate 10
Other

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

SAMPLER ANALYSIS

Resistivity 1.1 ohms@ 54.6 F
Chlorides 7000 ppm.
Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity 1.08 ohms@ 54.6 F
Chlorides 7000 ppm

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

JUN 22

ORIGINAL

Drill-Stem Test Data

CONFIDENTIAL

Well Name 1-13 JOHNSON Test No. 2 Date 5/3/93
 Company ENSIGN OPERATING COMPANY Zone CHEROKEE
 Address 621 17th ST #1800 DENVER CO 80293 Elevation 2480
 Co. Rep./Geo. DUANE MOREDOCK Cont. DUKE #4 Est. Ft. of Pay 4
 Location: Sec. 5 Twp. 20S Rge. 26W Co. NESS State KS

Interval Tested 4450-4466 Drill Pipe Size 4.5" XH
 Anchor Length 16 Wt. Pipe I.D. - 2.7 Ft. Run 192
 Top Packer Depth 4445-4450 Drill Collar - 2.25 Ft. Run _____
 Bottom Packer Depth 4466 Mud Wt. 9.4 lb/Gal.
 Total Depth 4535 Viscosity 47 Filtrate 10

Tool Open @ 5:21 PM Initial Blow WEAK SURFACE BLOW BUILDING TO 2 1/2" IN 30 MINUTES

Final Blow NO BLOW FOR 4 MINUTES WEAK SURFACE BLOW BUILDING TO 4 1/4" IN 60 MINUTES

Recovery - Total Feet 134 Flush Tool? NO

Rec. 50 Feet of GAS IN PIPE **RELEASED**
 Rec. 100 Feet of CLEAN OIL
 Rec. 34 Feet of WATER CUT MUDDY OIL 70%OIL/7%WATER/23%MUD SFP 6 1994
 Rec. _____ Feet of _____
 Rec. _____ Feet of _____ **FROM CONFIDENTIAL**

BHT 118 °F Gravity 39 °API @ 70 °F Corrected Gravity 38 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 3700 ppm System

(A) Initial Hydrostatic Mud 2256.9 PSI AK1 Recorder No. 13308 Range 4700
 (B) First Initial Flow Pressure 33.6 PSI @ (depth) 4452 w / Clock No. 17652
 (C) First Final Flow Pressure 42.5 PSI AK1 Recorder No. 11057 Range 4500
 (D) Initial Shut-in Pressure 1139.1 PSI @ (depth) 4458 w / Clock No. 7452
 (E) Second Initial Flow Pressure 58.2 PSI AK1 Recorder No. 2023 Range 4000
 (F) Second Final Flow Pressure 71.7 PSI @ (depth) 4530 w / Clock No. 22992
 (G) Final Shut-in Pressure 1085.1 PSI Initial Opening 30 Final Flow 60
 (H) Final Hydrostatic Mud 2196.4 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative MARK HERSKOWITZ

RECEIVED
 STATE CORPORATION
 JUN 28 1993

CONSERVATION DIVISION
 WICHITA, KANSAS

FLUID SAMPLER DATA

ORIGINAL

Ticket No.: 5790

Date: 5/3/93

200

Company: ENSIGN OPERATING COMPANY

JUN 2 4

Lease: 1-13 JOHNSON

Test No.: 2

CONFIDENTIAL

County: NESS

Sec.: 5

Twp.: 20S

Rng.: 26W

SAMPLER RECOVERY

Gas

Oil 3520

Mud 480

Water

Other

Pressure 28

TOTAL 4000

PIT MUD ANALYSIS

Chlorides 3700

Resistivity ohms@ F

Viscosity 47

Mud Wt. 9.4

Filtrate 10

Other

RELEASED

SEP 6 1994

CONFIDENTIAL

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

RECEIVED
STATE CORPORATION COMMISSION

JUN 28 1993

CONSERVATION DIVISION
Wichita, Kansas

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

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

ORIGINAL ALLIED CEMENTING CO., INC.

1401

Home Office P. O. Box 31

Russell, Kansas 67665

Date	4-27-93	Sec.	13	Twp.	20	Range	26	Called Out	9:30A	On Location	1AM	Job Start	155P	Finish	210P	
Lease	Johnson	Well No.	1-13			Location	Tried 115 4W 1N			County	Treas			State	Kan	
Contractor	Dicker #4															
Type Job	Surface Csg															
Hole Size	12 1/4		T.D.		320											
Csg.	24# 85#		Depth		315											
Tbg. Size			Depth		KCC											
Drill Pipe			Depth		JUN 2 4											
Tool			Depth		CONFIDENTIAL											
Cement Left in Csg.	15		Shoe Joint													
Press Max.			Minimum													
Meas Line			Displace		19 1/4											
Perf.																

Owner *Same*
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To *Ensign Operating Co.*
 Street

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

Purchase Order No. *[Signature]*
CEMENT

Amount Ordered *175 690 2x3*

Consisting of	
Common	
Poz. Mix	
Gel.	
Chloride	
Quicker	

EQUIPMENT

No.	Cementer	<i>Ben Ross</i>
Pumptrk 158	Helper	
No.	Cementer	
Pumptrk	Helper	
	Driver	
Bulktrk 69	Driver	<i>Keat</i>

RELEASED

Handling	SEP 6 1994	Sales Tax
Mileage	FROM CONFIDENTIAL	Sub Total
		Total

DEPTH of Job

Reference:	<i>Pumptruck mileage</i>	
	<i>1-85# TWP</i>	
	Sub Total	
	Tax	
	Total	

Remarks: *Cement did circulate*

*Thanks
 Allied Cementing - Ben Shaffer*

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 STATE CORPORATION COMMISSION
 JUN 28 1993
 CONSERVATION DIVISION
 Wichita, Kansas

GENERAL TERMS AND CONDITIONS

DEFINITIONS: In these terms and conditions, "Allied" shall mean Allied Cementing Co., Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "ALLIED" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "ALLIED," refunded directly to "CUSTOMER." For purposes of this paragraph, ALLIED and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in "ALLIED'S" current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

—**SERVICE CONDITIONS AND LIABILITIES:** 1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

WARRANTIES: 1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.



BJ SERVICES COMPANY

ORIGINAL

CUSTOMER

INVOICE DATE

05/13/93

DIRECT BILLING INQUIRIES TO: 713-895-5821	TERMS NET AMOUNT DUE 30 DAYS FROM DATE OF INVOICE	REMIT TO: BJ SERVICES CO. USA P.O. BOX 297476 HOUSTON, TX 77297
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PAGE 1	INVOICE NO. 13213
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AUTHORIZED BY 013213

PURCH. ORDER REF. NO.

ENSIGN OIL & GAS, INC.

KOC

JUN 24

CONFIDENTIAL

621-17TH ST
SUITE 1800
DENVER CO 80293
WELL NUMBER : 1-16

ENSIGN STATE

CUSTOMER NUMBER : 15059 - 0

LEASE NAME AND NUMBER ENSIGN STATE	STATE 49	COUNTY/PARISH 4905	CITY Billette	DISTRICT NAME Billette	DISTR. NO. 670
JOB LOCATION/FIELD w/c	MTA DISTRICT	DATE OF JOB 05/13/93	TYPE OF SERVICE LAND-CONDUCTOR/SURFACE		

PRODUCT NUMBER	QUANTITY	DESCRIPTION	UNIT PRICE	UM	EXTENDED PRICE
10100303	1.00	CEMENT CASING 1,000 TO 1,500 FEET	1144.00		1,144.00
10109005	10.00	MILEAGE CHRG, FROM NEAREST BASE OF	2.56		25.60
10410507	100.00	CLASS G CEMENT	9.20	CF	920.00
10415005	324.00	LITE	9.20	CF	2,980.80
10415049	751.00	A-7-P CALCIUM CHLORIDE PELLETS	0.50	LB	375.50
10415095	1311.00	MAX SEAL	0.70	LB	917.70
10422008	218.00	CELLO FLAKE	1.50	LB	327.00
10430636	1.00	8 5/8" TOP PLUG RESIN/PLASTIC CORE	108.90	EA	108.90
10880001	500.00	MIXING SERVICE CHARGE DRY MATERIAL	1.20		600.00
10909910	1.00	GUIDE SHOE	234.00		234.00
10909910	3.00	CASING CENTRALIZERS	72.00		216.00
10909910	1.00	AUTO FILL INSERT FLOAT	307.00		307.00

ACCOUNT	<p>RELEASED</p> <p>SEP 6 1994</p> <p>FROM CONFIDENTIAL</p>	<p>RECEIVED</p> <p>STATE CORPORATION COMMISSION</p> <p>JUN 28 1993</p> <p>CONSERVATION DIVISION</p> <p>Wichita, Kansas</p>
TAX EXEMPTION STATUS:		

TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31
RUSSELL, KANSAS 67665

MA

ORIGINAL

TO: Ensign Operating Company
621 17th St., Suite #1800
Denver, CO 80293

INVOICE NO. 63782
PURCHASE ORDER NO. _____
LEASE NAME Johnson #1-13
DATE 4-27-93

SERVICE AND MATERIALS AS FOLLOWS:

Common 105 sks @\$5.75	\$603.75	
Pozmix 70 sks @\$3.00	210.00	
Gel 4 sks @\$7.00	28.00	
Chloride 5 sks @\$25.00	<u>125.00</u>	\$ 966.75
Handling 175 sks @\$1.00	175.00	
Mileage (23) @\$.04¢ per sk per mi	161.00	
Surface	430.00	
Mi @\$2.25 pmp trk chg	51.75	
1 plug	<u>42.00</u>	859.75
	Total	\$1,826.50

7070
JCS

Cement circulated

Thank you!

If account CURRENT 20% discount will be allowed ONLY if paid within 30 days from date of invoice.

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

DEPTH of Job			Handling	Mileage	
Reference:	<i>Pump truck</i>	<i>430.00</i>	<i>175</i>	<i>23</i>	<i>100</i> <i>175.00</i>
	<i>23 mileage</i>	<i>51.75</i>			<i>161.00</i>
	<i>1- 8 1/2 TRUP</i>	<i>42.00</i>			
					<i>Total 1302.75</i>
		<i>Total 523.75</i>			
Remarks:	<i>Cement did circulate</i>		<i>TOTAL \$ 1826.50</i>		
			<i>Disc - 365.30</i>		
			<i>\$ 1461.20</i>		
			RELEASED		
			<i>SEP 6 1994</i>		
			<i>RECEIVED</i>		
			<i>JUN 28 1993</i>		
			<i>CONSERVATIVE DIVISION</i>		
			<i>Midland Kansas</i>		

Thanks
Allied Cementing - Ben Sheffer

FROM CONFIDENTIAL

483-2627, Russell, Kansas
 793-5861, Great Bend, Kansas

ORIGINAL

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

NEW

ALLIED CEMENTING CO., INC.

1401

Home Office P. O. Box 31

Russell, Kansas 67665

Date	4-27-93	Sec.	13	Twp.	20	Range	26	Called Out	9:20A	On Location	1AM	Job Start	155P	Finish	210P
Lease	Johnson	Well No.	1-13			Location	Paid 115 4WN			County	Neosho	State	KS		
Contractor	Dukes #4														
Type Job	Surface Csg														
Hole Size	12 1/4		T.D.		320										
Csg.	24# 8 5/8		Depth		315										
Tbg. Size			Depth												
Drill Pipe			Depth												
Tool			Depth												
Cement Left in Csg.	15		Shoe Joint												
Press Max.			Minimum												
Meas Line			Displace		19 1/4										
Perf.															

Owner *Same*
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Charge To *Ensign Operating Company*
 Street *621 - 17th St. #1800*
 City *Denver* State *CO* 80293
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. *[Signature]*
CEMENT

Amount Ordered	175 ⁶⁹ / ₄₀ 2x3		
Consisting of			
Common	105	5.75	603.75
Poz. Mix	70	3.00	210.00
Gel.	4	7.00	28.00
Chloride	5	25.00	125.00
Quickset			
Handling	175	1.00	175.00
Mileage	23	RELEASED	161.00
Sub-Total			1302.75
Floating Equipment			

EQUIPMENT

No.	Cementer	<i>Gene Ross</i>
Pumptrk 158	Helper	
No.	Cementer	
Pumptrk	Helper	
	Driver	
Bulktrk 69	Driver	<i>Kent</i>

DEPTH of Job

Reference:	Pumptruck	430.00
	23 mileage	51.75
	1 - 8 5/8 TWP	42.00
	Sub-Total	
	Tax	
	Total	523.75

Remarks: *Cement did circulate*

TOTAL \$ 1826.50
 Disc - 365.30
 \$ 1461.20
 RECEIVED
 STATE CONSERVATION COMMISSION
 JUN 28 1993

CONSERVATION DIVISION
 Wichita, Kansas

*Thanks
 Allied Cementing - Ken Chaffer*



KCC

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

INVOICE

ORIGINAL

HALLIBURTON SERVICES

JUN 24

A Halliburton Company

CONFIDENTIAL

INVOICE NO.	DATE
312047	05/04/1993

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
JOHNSON 1-13		NESS		KS	SAME	
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE	
NESS CITY		DUKE #4	CEMENT PRODUCTION CASING		05/04/1993	
LINE NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.	
273943	REED WACKER			COMPANY TRUCK	50260	

ENSIGN OPERATING COMPANY
621 17TH ST.
DENVER, CO 80293

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

LINE NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - EASTERN AREA1 MILEAGE	24	MI	2.75	66.00
001-016	CEMENTING CASING	4535	FT	1,480.00	1,480.00
030-016	CEMENTING PLUG SW ALUM TOP	4 1/2	IN	45.00	45.00
018-315	MUD FLUSH	500	GAL	.65	325.00
12A	GUIDE SHOE - 4 1/2" BRD THD.	1	EA	95.00	95.00
825.201					
24A	INSERT FLOAT VALVE - 4 1/2" BRD	1	EA	73.00	73.00
815.19101					
27	FILL-UP UNIT 4 1/2"-5"	1	EA	45.00	45.00
815.19111					
50	FLUIDMASTER CENTRALIZER 4 1/2"	8	EA	57.00	456.00
807.93504					
320	CEMENT BASKET 4 1/2"	1	EA	105.00	105.00
800.8881					
66	FASGRIP LIMIT CLAMP 4 1/2"	1	EA	11.20	11.20
807.64021					
504-308	CEMENT - STANDARD	150	BK	6.76	1,014.00
509-968	SALT	1200	LB	.13	156.00
507-775	HALAD-322	85	LB	6.90	586.50
508-127	CAL SEAL 60	7	SK	20.70	144.90
500-207	BULK SERVICE CHARGE	176	CFT	1.25	220.00
500-306	MILEAGE CMTG MAT DEL OR RETURN	193.020	TMI	.85	164.07
INVOICE SUBTOTAL					4,986.67
DISCOUNT-(BID)					
INVOICE BID AMOUNT					

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION
3,989.34

JUN 28 1993

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

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST THEREON AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

CONSERVATION DIVISION
Wichita, Kansas

CUSTOMER COPY



KCC

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

INVOICE-

HALLIBURTON SERVICES

JUN 24

ORIGINAL

A Halliburton Company

CONFIDENTIAL

INVOICE NO.	DATE
312047	05/04/1993

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
JOHNSON 1-13		NESS		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
NESS CITY		DUKE #4		CEMENT PRODUCTION CASING		05/04/1993
ACCT NO	CUSTOMER AGENT	VENDOR NO	CUSTOMER P.O. NUMBER		SHIPPED VIA	FILE NO
273943	REED WACKER				COMPANY TRUCK	50260

ENSGN OPERATING COMPANY
621 17TH ST.
DENVER, CO 80293

DIRECT CORRESPONDENCE TO:
FIRST OKLAHOMA TOWER
210 WEST PARK AVENUE
SUITE 2050
OKLAHOMA CITY, OK 73102-5601

ITEM NO	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	*--KANSAS STATE SALES TAX				176.01
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					

RELEASED

SEP 6 1994

FROM CONFIDENTIAL

RECEIVED
STATE CONSERVATION COMMISSION

JUN 28 1993

TERMS INVOICES PAYABLE NET BY THE 20TH OF THE FOLLOWING MONTH AFTER DATE OF INVOICE. UPON CUSTOMER'S DEFAULT IN PAYMENT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED, CUSTOMER AGREES TO PAY INTEREST ON THE UNPAID BALANCE AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER EXCEEDING 18% PER ANNUM. IN THE EVENT IT BECOMES NECESSARY TO EMPLOY AN ATTORNEY TO ENFORCE COLLECTION OF SAID ACCOUNT, CUSTOMER AGREES TO PAY ALL COLLECTION COSTS AND ATTORNEY FEES IN THE AMOUNT OF 20% OF THE AMOUNT OF THE UNPAID ACCOUNT.

CONSERVATION DIVISION
Wichita, Kansas
PAGE 1 2