

Plugged 2-16-95

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

Operator: License # 04782

Name: Ensign Operating Co.

Address P. O. Box 2161

City/State/zip Liberal, KS. 67905-2161

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: CONFIDENTIAL

Well Name: CONFIDENTIAL

Comp. Date Old Total Depth

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

02-02-95 02-14-95 02-16-95
Spud Date Date Reached TD Completion Date

API NO. 15- 119-20,943-0000

County Meade **ORIGINAL**

C-N/2-SW Sec. 3 Twp. 32S Rge. 30 ^E _W

1980 Feet from (circle one) Line of Section

1320 Feet from (circle one) Line of Section

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

Lease Name Koehn Well # 1-3

Field Name Wildcat

Producing Formation None

Elevation: Ground 2758' KB 2770'

Total Depth 6150' PBTB

Amount of Surface Pipe Set and Cemented at 1599 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 cnt.

Drilling Fluid Management Plan DAA JWH 5-10-96
(Data must be collected from the Reserve Pit)

Chloride content 2400 ppm Fluid volume 5,551 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

RELEASED

Operator Name

Lease Name MAY 14 1996 License No.

~~FROM CONFIDENTIAL~~ ^E _W

County Docket 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-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 Reed Wacker 3-10-95

Title Production Supt. Date 03/09/95

Subscribed and sworn to before me this 9th day of March 19 95.

Notary Public William L. Waldorf

Date Commission Expires 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 NGPA
 KGS Plug Other (Specify)

NOTARY PUBLIC - State of Kansas
WILLIAM L. WALDORF
My Appl. Exp. 9/19/98

Operator Name Ensign Operating Co. Lease Name Koehn Well # 1-3

Sec. 3 Twp. 32S Rgs. 30 East West
 County Meade

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.)
 List All E.Logs Run:
 See attached

Log Formation (Top), Depth and Datum Sample
 Name Top Datum
 - SEE ATTACHED -
 See attached

CASING RECORD <input checked="" 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"	24# API	71599'	Class H Class C	100 150	2% CC
			24# API	71599'	"C" Lite	550	2% CC, 1/4# / SX Floccle

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type 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 checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.		Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> 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) D & A

Production Interval _____

CONFIDENTIAL

ORIGINAL

GENERAL WELL INFORMATION

Operator: Ensign Operating Co.

Well Name: No. 1-3 Koehn API No., 15-119-20 943

Prospect: Jaguar Prospect

Location: C N/2 SW Sec. 3, T32S, R30W, 1980' FSL, 1320' FWL

County: Meade

State: Kansas

Elevation: G.L. 2758' K.B. 2770'

Spudded: February 2, 1995 @ 9:45 A.M.

Completed Drilling: February 14, 1995 @ 7:10 P.M.

Total Depth: Driller 6150', Logger 6137'

Status: Plug and Abandon

Drill-Stem Tests: Drill-Stem Test No. 1 5562'-5703', Pennsylvanian Morrow. Open hole test.

30-60-60-120

I.O. Surface Blow, Steady throughout, no increase.
F.O. Surface Blow, Steady throughout, no increase.

Recovery: 15' Mud.

Hydrostatic Pressures 2592-2524 psi, Calc. MW 9.1 ppg
Flow Pressures 44-44:44-44 psi
Shut-in Pressures 100-89 psi
Bottom Hole Temperature NR

Trilobite Testing Co., L.L.C., Shane McBride, Tester

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Drill-Stem Test No. 2 5886'-5994' (Driller) 5872'-5980' (Logger),
Mississippian Ste. Genevieve. Straddle test after logging.

30-60-30-120

I.O. Surface Blow, Built to 1 1/4".

F.O. Bubbled when tool opened, no blow. Tool was plugging (bottom
choke or shut-in tool) during F.O. .

Recovery: 92' Mud.

Sampler: 4000 MI Mud @ <25 psi

Hydrostatic Pressures 2883-2756 psi, Calc MW 9.3 ppg

Flow Pressures 86-107:269-269 psi

Shut-in Pressures 1594-1721 psi

Bottom Hole Temperature 124° F

Trilobite Testing Co., L.L.C., Shane McBride, Tester

Logging Program: Run One
AIS/SP/GR 0' - 3276'
CNS/PDS/GR/Cal 1590' - 3249'
MLS/GR/Cal 1590' - 3249'

Run Two
AIS/SP/GR 0' - 6136'
CNS/PDS/GR/Cal 0' - 6110'
MLS/GR/Cal 1590' - 6110'
BCA/GR/Cal 1595' - 6093'

BPB Logging Co., Inc., Tim Hayes, Engineer.

Sample Program: Ten foot samples from 2500' - 6150'. Samples were examined and
described at the well site. Samples were caught on depth intervals by rig
crews. Samples were lagged by geologist. All depths reported herein are
lagged depths.

Mud Logging: Holmes Gas Detector Service, Unmanned Unit.

Mud Program: Cimmeron Mud Co., Jim Reed, Engineer.

Lost Circulation: None.

FORMATION TOPS

Ensign Operating Co.
No. 1-3 Koehn
C N/2 SW Sec. 3, T32S, R30W
Meade County, Kansas

G.L. 2758' K.B. 2770'	Comparison Well SWSW 28-31S-30W K.B. 2763'	Drill Time And Samples	Wire Line Logs
Tertiary	Surface +2755'	Surface +2758'	Surface +2758'
Cretaceous	514' +2249'	512' +2258'	504' +2266'
Permian			
Glaudalupian			
Taologa	583' +2180'	543' +2227'	530' +2240'
Day Creek	758' +2005'	755' +2015'	747' +2023'
Leonardian			
Nipewalla Gr.			
Blaine	988' +1775'	966' +1804'	962' +1808'
Cedar Hills	1128' +1635'	1153' +1617'	1156' +1614'
Sumner Gr.			
Stone Corral	1612' +1151'	1645' +1125'	1642' +1128'
Ninnescah	1700' +1063'	1728' +1042'	1744' +1026'
Wellington	1926' +837'	1985' +785'	1976' +794'
Hutchinson	2154' +609'	2215' +565'	2204' +566'
Wolfcampian			
Chase Gr.			
Herington	2624' +139'	2710' +60'	2700' +70'
Krider	2646' +117'	2741' +29'	2729' +41'
Winfield	2732' +31'	2826' -56'	2812' -42'
Towanda	2770' -7'	2869' -99'	2858' -88'
Fort Riley	2842' -79'	2946' -176'	2934' -164'
Wreford	2942' -179'	3044' -274'	3034' -264'
Council Grove Gr.	3038' -275'	3146' -376'	3133' -363'
Neva	3189' -426'	3302' -532'	3291' -521'
Pennsylvanian			
Virgilian			
Wabaunsee Gr.	3538' -775'	3676' -906'	3661' -891'
Shawnee Gr.			
Topeka	3854' -1091'	3928' -1158'	3916' -1146'

G.L. 2758' K.B. 2770'	Comparison Well SWSW 28-31S-30W K.B. 2763'	Drill Time And Samples	Wire Line Logs
Douglas Gr.			
Heebner	4265' -1502'	4367' -1597'	4356' -1586'
Toronto	4286' -1523'	4388' -1618'	4376' -1606'
Missourian			
Lansing Gr.	4378' -1615'	4492' -1722'	4475' -1705'
Kansas City Gr.	4604' -1841'	4711' -1941'	4702' -1932'
Swope	4812' -2049'	4923' -2153'	4909' -2139'
Demoinesian			
Marmaton Gr.	4982' -2219'	5102' -2332'	5096' -2326'
Oswego	5095' -2332'	5219' -2449'	5208' -2438'
Cherokee Gr.	5145' -2382'	5278' -2508'	5264' -2494'
Atokaian	5270' -2507'	5416' -2646'	5392' -2622'
Morrowian	5426' -2663'	5572' -2802'	5566' -2796'
Chester	5470' -2707'	5594' -2824'	5586' -2816'
Terra Rossa	5618' -2855'	5778' -3008'	5766' -2996'
Mississippian			
Meramecian			
Ste. Genevieve	5674' -2911'	5856' -3086'	5847' -3077'
Total Depth	5970' -3207'	6150' -3380'	6137' -3367'

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

CUSTOMER COPY



INVOICE

INVOICE NO.	DATE
706064	02/03/1995

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
KOEHN 1-3		MEADE		KS	ENSIGN
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
LIBERAL		DUKE DRILLING	CEMENT SURFACE CASING		02/03/1995
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
273943	EARNEST BRINKLEY			COMPANY TRUCK	85243

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
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	31	MI	2.75	170.50
		2	UNT		
001-016	CEMENTING CASING	1608	FT	1,320.00	1,320.00
		1	UNT		
030-016	CEMENTING PLUS SW ALUM TOP	8 5/8	IN	120.00	120.00
		1	EA		
16A	CASING SHOE - 8 5/8" BRD THD.	1	EA	161.00	161.00
	830.2171				
24A	INSERT FLOAT VALVE - 8 5/8" BRD	1	EA	171.00	171.00
	815.19502				
27	FILL-UP UNIT 7"- 8 5/8"	1	EA	55.00	55.00
	815.19415				
40	CENTRALIZER - 8-5/8 X 12-1/2	3	EA	65.00	195.00
	806.61048				
66	CLAMP-LIMIT-8-5/8 HINGED	1	EA	13.75	13.75
	806.72050				
350	HALLIBURTON WELD-A	1	EA	14.50	14.50
	890.10802				
001-018	CEMENTING CASING - ADD HRS	2	HR	235.00	470.00
		1	UNT		
504-050	CEMENT - PREMIUM PLUS	150	SK	11.19	1,678.50
504-120	CEMENT - HALL. LIGHT PREM PLUS	550	SK	10.02	5,511.00
507-210	FLOCELE	138	LB	1.65	227.70
509-406	ANHYDROUS CALCIUM CHLORIDE	12	SK	36.75	441.00
500-207	BULK SERVICE CHARGE	733	CFT	1.35	989.55
500-306	MILEAGE CMTG MAT DEL OR RETURN	1779.84	TMI	.95	1,690.85
504-043	CEMENT - PREMIUM	100	SK	10.61	1,061.00
500-207	BULK SERVICE CHARGE	200	CFT	1.35	270.00
500-306	MILEAGE CMTG MAT DEL OR RETURN	507.6	TMI	.95	482.22

MAY 14 1996

FROM CONFIDENTIAL

INVOICE SUBTOTAL

15,042.57

***** 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 951046
DALLAS, TX 75395-1046



INVOICE

INVOICE NO.	DATE
706064	02/03/1995

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER
KOEHN 1-3	MEADE	KS	ENSIGN

SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
LIBERAL	DUKE DRILLING	CEMENT SURFACE CASING	02/03/1995

ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
273943	EARNEST BRINKLEY		None	COMPANY TRUCK	85263

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
	DISCOUNT-(BID)				3,656.50-
	INVOICE BID AMOUNT				DAA 897 5110-285.99
	*--KANSAS STATE SALES TAX				481.07
	*--LIBERAL CITY SALES TAX				98.18
	*--SEWARD COUNTY SALES TAX				98.18

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INVOICE TOTAL - PLEASE PAY THIS AMOUNT \$12,063.42

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 LOCATIONMid CONTINENT
LIBERAL, KSBILLED ON TICKET NO. 706064CUSTOMER: ENSIGAL OPERATING
LEASE: KOERN
WELL NO.: 1-3
JOB TYPE: 8 7/8 SURFACE
DATE: 3-3-95

WELL DATA

FIELD _____ SEC 3 TWP 32S RNG. 30W COUNTY MCRAE STATE KSFORMATION 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 1602

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	24'	8 7/8	KB	1608	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLER OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
<u>2-3-95</u>	<u>2-3-95</u>	<u>2-21-95</u>	<u>2-4-95</u>
TIME <u>1830</u>	TIME <u>2050</u>	TIME <u>0159</u>	TIME <u>0815</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE <u>TEX PAT 8 7/8</u>	<u>1</u>	<u>HOWCO</u>
CENTRALIZERS <u>8 7/8</u>	<u>3</u>	<u>" "</u>
BOTTOM PLUG		
TOP PLUG <u>5-W 8 7/8</u>	<u>1</u>	<u>" "</u>
HEAD <u>PK 8 7/8</u>	<u>1</u>	<u>" "</u>
PACKER		
OTHER <u>AFF 8 7/8</u>	<u>1</u>	<u>" "</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>J. Woodrow</u>	<u>62573</u>	<u>LIBERAL KS</u>
<u>T. DAVIS</u>	<u>F4550</u>	<u>" "</u>
<u>M. HOWE</u>	<u>51984/BULK</u>	<u>HUGOTON KS</u>
<u>J. ADAMS</u>	<u>50866/BULK</u>	<u>" "</u>
<u>P. ANDERSON</u>	<u>3625/BULK</u>	<u>" "</u>

CONFIDENTIALDEPARTMENT CEMENTDESCRIPTION OF JOB CEMENT 8 7/8 SURFACE CASINGJOB DONE THRU: TUBING CASING ANNULUS TBG./ANN. CUSTOMER REPRESENTATIVE X Ernest BrinkleyHALLIBURTON OPERATOR J. Woodrow COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>550</u>	<u>PREMIUM I W/F</u>	<u>HOWCO</u>	<u>B</u>	<u>28 CC 1/4 FLOCULE</u>	<u>2.06</u>	<u>12.3</u>
	<u>150</u>	<u>PREMIUM I</u>	<u>" "</u>	<u>B</u>	<u>28 CC</u>	<u>1.32</u>	<u>14.8</u>
	<u>100</u>	<u>PREMIUM</u>	<u>" "</u>	<u>B</u>		<u>1.06</u>	<u>16.4</u>

RELEASED

MAY 14 1996

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PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____
BREAKDOWN _____ MAXIMUM _____
AVERAGE _____ FRACTURE GRADIENT _____
SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN. _____
HYDRAULIC HORSEPOWER _____
ORDERED _____ AVAILABLE _____ USED _____
AVERAGE RATES IN BPM _____
TREATING _____ DISPL. _____ OVERALL _____
CEMENT LEFT IN PIPE _____
FEET 43.19 REASON INSERT FLOATPRESLUSH: BBL-GAL. 10 TYPE FRESH WATER
LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____
TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. 99.5
CEMENT SLURRY: BBL-GAL. 200 LC
TOTAL VOLUME: BBL-GAL. 38.2 LC
REMARKS 235.2LEAVE MSDS SHEETS G-UP TO PUSHER.

JOB LOG HAL-2013-C

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
ENSIGN OPERATING		1-3		KOPHN		878 SURFACE		706064	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	2200	2.3-95						JOB READY	
	1830							CALLED OUT FOR JOB	
	2030							PUMP TRUCK ON LOCATION - RIG STILL DRILLING - SET UP PUMP TRUCK	
	2200							BULK TRUCKS ON LOCATION	
	2248							RIG THROUGH DRILLING - 1602' 12 1/4 HOH	
	2330							TRIP OUT WITH DRILL PIPE	
	2345							OUT OF HOLE WITH D.P	
	0115							START RUNNING 878 CSG + FLT EQUIP	
	0133							CASING ON BOTTOM 1608'	
	0136							HOOK UP 878 P/C + CIRCULATING IRON	
	0148							START CIRCULATING WITH RIG PUMP	
	0149							THROUGH CIRCULATING + HOOK UP TO PUMP TRUCK	
	0150	5.0	10				100	HOLD SAFETY MEETING -	
	0154	7.0	200				250	JOB PROCEDURE:	
	0224	7.0	35.5				250	PUMP 10 BBL'S FRESH WATER AHEAD	
	0230							START MIXING LEAD CMT 12.3 ^{LB} / ^{GPC}	
	0230							START MIXING TAIL CMT 14.8 ^{LB} / ^{GPC}	
	0232	5.0	99.5				175	THROUGH MIXING CMT - SHUT DOWN	
	0252							RELEASE PLUG	
	0254		100.0				450	START DISPLACING	
	0255							HAVE 99.5 BBL'S DISPLACED, HAVE CMT TRACERS TO SURFACE	
	0300							PLUG DOWN - RELEASE FLOAT	
	0300							RELEASED	
	0530							FROM CONFIDENTIAL	
	0730							PLUG HOLD	
	0750		18.5					RUN 100 FT TAPE TO +98 CMT, DID NOT TAG	
	0800							CIRCULATED @ BBL'S	
	0815							ORDERED ONE INCH CMT	
								CMT ON LOCATION, WAIT ON CMT TO FAIL	
								MIX ONE INCH CMT	
								CMT TO SURFACE 100 STS. MIXED	
								CELLAR STAYED FULL	
								JOB OVER	
								THANKS WOODY & CREW	

CUSTOMER COPY



HALLIBURTON
CONFIDENTIAL

INVOICE

INVOICE NO.	DATE
706406	02/16/1995

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
KOEHN 1-3		MEADE		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
LIBERAL		DUKE DRILLING	PLUG TO ABANDON		02/16/1995
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
273943	ERNEST BRINKLEY		ORIGINAL	COMPANY TRUCK	85895

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
PRICING AREA - MID CONTINENT					
000-117	MILEAGE CEMENTING ROUND TRIP	53	MI	2.75	154.00
		1	UNT		
009-019	PLUGGING BK SPDT CEMENT OR MUD	1630	FT	1,420.00	1,420.00
		1	UNT		
504-043	CEMENT - PREMIUM	75	SK	10.61	795.75
506-105	POZHIX A	3700	LB	.074	273.80
506-121	HALLIBURTON-GEL 2X	2	LB	.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	4	SK	18.60	74.40
500-207	BULK SERVICE CHARGE	133	CFT	1.35	179.55
- 500-306	MILEAGE CMTG MAT DEL OR RETURN	293.67	TMI	.95	278.99

INVOICE SUBTOTAL

3,176.49

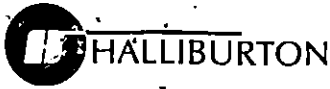
DISCOUNT-(BID)
INVOICE BID AMOUNT

715.40-
2,461.09

RELEASED
MAY 14 1996
FROM CONFIDENTIAL

INVOICE TOTAL - PLEASE PAY THIS AMOUNT ***** > \$2,461.09

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

MID CONTINENT AREA
LIBERAL KS.

BILLED ON TICKET NO. 706406

WELL DATA
FIELD _____ SEC. 3 TWP. 32S RNG. 30W COUNTY. MEADE 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	24	8 7/8	GL.	1599	
LINER						
TUBING						
OPEN HOLE			7 7/8	1599	6150	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE 2-16-95 TIME 1200	DATE 2-16-95 TIME 1500	DATE 2-16-95 TIME 1650	DATE 2-16-95 TIME 2000

TOOLS AND ACCESSORIES

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

CONFIDENTIAL

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. _____
PERFPAC BALLS TYPE _____ QTY. _____
OTHER _____
OTHER _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
T. BROADFOOT D4604	38242	LIBERAL KS.
R. MARTINEZ G2731	52947 75496	"
J. BOONE G9614	50737 75505	HUGOTON KS

ORIGINAL

DEPARTMENT CEMENT
DESCRIPTION OF JOB PTA
1st PLUG 50SKS 1630 FT. - 2ND 40SKS 600 FT
3RD 10SKS - 40 FT - 15SKS RH - 10SKS TM H

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

CUSTOMER REPRESENTATIVE X E. Smith

HALLIBURTON OPERATOR Jim Broadfoot COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	125	40% POZ PREM		B	6% GEL RELEASED	1.106	13.2
					MAY 14 1996		

PRESSURES IN PSI

SUMMARY

FROM CONFIDENTIAL

VOLUMES

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

PRESLUSH: BBL.-GAL. _____ TYPE _____
LOAD & BKDN: BBL.-GAL. _____ PAD: BBL.-GAL. _____
TREATMENT: BBL.-GAL. _____ DISPL: BBL.-GAL. _____
CEMENT SLURRY: BBL.-GAL. 14.8-11.8-3-4.4-3
TOTAL VOLUME: BBL.-GAL. _____

REMARKS

CEMENTED TO SURFACE
7MSAS LEFT WITH PUSHER

CUSTOMER ENSIGN OPER. L. CASE KOEHN WELL NO. 1-3 JOB TYPE P.T.A. DATE 2-16-95

ORIGINAL

DUKE DRILLING Co., INC.

CONTRACT DRILLING

OILFIELD HAULING

P.O. Box 823
Great Bend, KS 67530-0823
(316) 793-8366

310 West Central, Suite 202
Wichita, KS 67202-1004
(316) 267-1331

CONFIDENTIAL

TO: Ensign Operating Company

INVOICE NO. 95(2-8)

P.O. Box 2161

TERMS: NET 1 1/2% Service Charge per month on unpaid balance.

Liberal, Kansas 67901

"Koehn #1-3"

C-N/2 SW Sec. 3-32S-30W

DATE February 20, 1995

FOR: Meade County, Kansas

API # 15-119-20943

DATE	DRILLING	
	To Rotary Total Depth of:	6150'
	Less:	12'
	From Ground Level to:	6138' @ \$8.90/ft
		\$54,628.20
	<u>DAYWORK</u>	
02-06-95	Circ. to cond. hole	30 Min.
	Short trip	1 Hr. 15 Min.
	Circ. to cond. hole	2 Hr.
	Trip out of hole f/log	1 Hr.
	Rig up loggers & log	4 Hr.
	Trip in hole after log	1 Hr.
02-10	Circ. f/samples @ 5115'	15 Min.
02-11	Circ. f/samples @ 5610'	1 Hr.
02-12	Circ. f/samples & cond. hole	1 Hr. 30 Min.
	Short trip	1 Hr. 45 Min.
	Circ. to conc. hole f/DST #1	2 Hr. 30 Min.
	DST #1 (5562-5703')	17 Hr.
02-14	Circ. to cond. hole	2 Hr.
	Trip out of hole f/logs	2 Hr. 15 Min.
02-14/02-15	Rig up loggers & log (Hit Bridge @ 1900')	7 Hr. 15 Min.
02-15	Trip in hole to 2200'/trip back in hole	1 Hr. 30 Min.
	Rig up loggers & log/log stopped @ 1930'	2 Hr.
	Trip in hole w/bit	2 Hr. 30 Min.
	Circ. to cond. hole f/logs	2 Hr.
	Trip out of hole f/logs	2 Hr.
	Rig up loggers & log	4 Hr.
	Wait on Tester	2 Hr. 30 Min.
02-15/02-16	DST #2 (5886-5994')	17 Hr. 30 Min.
02-16	Lay down drill pipe & plug well	5 Hr. 30 Min.
	TOTAL DAYWORK:	84 Hr. 45 Min. @ \$165.00/hr
		13,983.75
	4 Boxes Sample Bags @ \$20.00/box	
		80.00
	BOP Rental	
		275.00
	TOTAL INVOICE:	\$68,966.95

RELEASED

MAY 14 1996

FROM CONFIDENTIAL

Thank You