

CONFIDENTIAL

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

ORIGINAL  
KCC

APR NO. 115- 175-21320-01-00  
County Seward  
SE - SE - NE Sec. 6 Twp. 35S Rge. 33 <sup>E</sup>X

Operator: License # 04782 OCT 1 7

1990 Feet from S/W (circle one) Line of Section

Name: Ensign Operating Co. CONFIDENTIAL

330 Feet from E/W (circle one) Line of Section  
BHL: 2043 FNL, 3705 FWL, SESWNE Sec. 5-T35S-R33W  
Footages Calculated from Nearest Outside Section Corner:  
N& SE, ~~SW~~ or ~~EW~~ (circle one)

Address 621 17th St.

Suite 1800

City/State/Zip Denver, CO 80293

Lease Name Liberal Well # 1-5

Field Name Salley SW

Purchaser: NNG

Producing Formation Morrow

Operator Contact Person: J. C. SIMMONS

Elevation: Ground 2852 KB 2864

Phone (303) 293-9999

Total Depth 8399 SIM TVD: 6656 PBD 7960

Contractor: Name: Gabbert Jones Inc.

Amount of Surface Pipe Set and Cemented at 1599 Feet

License: 5482

Multiple Stage Cementing Collar Used? Yes X No

Wellsite Geologist: John D. Pruitt and Duane Moredock

If yes, show depth set Feet

Designate Type of Completion

If Alternate II completion, cement circulated from

X New Well Re-Entry Workover

foot depth to w/ ex cmt.

Oil  SWD  SIOW  Temp. Abd.  
 Gas  ENHR  S16W  
 Dry  Other (Core, HSW, Expl., Cathodic, etc)

Drilling Fluid Management Plan ALT 1 22 12-17-93  
(Data must be collected from the Reserve Pit)

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

Chloride content 2800 ppm Fluid volume 15,000 bbls

Operator:

Dewatering method used Evaporation

Well Name:

Location of fluid disposal if hauled offsite:

Comp. Date Old Total Depth

Operator Name

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

Lease Name RELEASED license No.

6/17/93 7/15/93 9/22/93  
Spud Date Date Reached TD Completion Date

Quarter Sec. Twp. S Rng. E/W

County NOV 21 1994 Docket No.

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Dorby 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.

FROM CONFIDENTIAL

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: Conni Smith

Title: Sr. Engineering Technician Date: 10/28/93

Subscribed and sworn to before me this 28th day of October 1993

Notary Public: Pamela J. Campbell

Date Commission Expires: 9-30-94

K.C.C. OFFICE USE RECEIVED

F  Letter of Confidentiality Attached

C  Wireline Log Received

C  Geologist Report Received

NOV 03 1993

Distribution

KCC

KGS

CONSERVATION DIVISION

PHOENIX, KANSAS

Other (Specify)

Operator Name Ensign Operating Co. Lease Name Liberal Well # 1-5  
 County Seward  
 East  West  
 Sec. 6 Twp. 35S Rge. 33

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

**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	32	1599	HLC	650	2% cc, 1/4#sk Flocele
					CL "C"	150	3% cc
Production	7 7/8	4 1/2	11.6	8399	CL "H"	425	3%KCl, .25% CBL 7%Halad 322

**ADDITIONAL CEMENTING/SQUEEZE RECORD**

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate		50/50 Poz Class "H"	100	2% gel, 10% salt, .5% Halad 322
<input type="checkbox"/> Protect Casing			250	10#/sk FA-2, 15% salt, .75% Halad 322
<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
2	8346-47 Upper Morrow	Acidized: 3200 gals 7 1/2% Fe-HCl	8233-38, 8254-61, 8276-88, 8301-9
2	7650-52 Upper Morrow Base Chester	Frac: 25000 gal 70% CO2 Foam: 45570 20/40 mesh sd	7842-66, 7486-7518
2	8233-38, 8254-61, 8276-88, 8301-09	Acidized: 1000gal 17 1/2% Fe-HCl Acidized: 1000gal 7 1/2% Fe-HCl	
2	7842-56, 7860-66 Lower Morrow		
4	7486-94, 7502-18 Upper Morrow	Frac: 31500gal 70 quality CO2 Foam: 43900 20/40 mesh sd 4865gal 150 quality CO2 foam flush	

**TUBING RECORD:** Size 2 3/8 Set At 7806 Packer At 7806  
 Date of First, Resumed Production, SWD or Inj. 10/26/93  
 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) Sliding sleeve @ 7454  
 Estimated Production Per 24 Hours: Oil 0 Bbls. Gas 350 Mcf Water 2 Bbls. Gas-Oil Ratio 1/18 Gravity 1.19

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

CONFIDENTIAL

ORIGINAL KCC

Ensign Operating Company  
#1-5 Liberal  
Page 5

API # 15-175-21320

OCT 17

CONFIDENTIAL

WELL HISTORY: (continued)

Date	Depth	Formation	Operation	RELEASED
7-15-93	8280'	Chester	Drilling. Made 430' in 24 hrs. VIS 43, MW 9.0, CI 2400, pH 10.0 WL 8.0, FC 2, LCM 2#, CA 80, Oil 4% WOB 39-40, RPM 85, PP 1200, SPM 55	NOV 21 1994
7-16-93	8416 LTD 8397 STD 8399 STD	Meramec	Logging. Made 119' in 24 hrs. VIS 46, MW 9.1, CI 2800, pH 9.5 WL 7.2, FC 2, LCM 2, CA 40, Oil 3% WOB 39-40, RPM 85, PP 1200, SPM 55	FROM CONFIDENTIAL

FORMATION TOPS:

Formation	Sample	TVD	Datum	Log	TVD	Datum	Log
Heebner	4982'	4382'	(-1518')	4960'	4352'	(-1488')	(-1479')
Toronto	5030'	4409'	(-1545')	4997'	4390'	(-1526')	(-1491')
Lansing	5261'	4550'	(-1686')	5228'	4530'	(-1666')	(-1627')
Marmaton	6507'	5251'	(-2387')	6484'	5235'	(-2371')	(-2327')
Cherokee	6991'	5560'	(-2696')	6976'	5543'	(-2679')	(-2653')
Atoka	7248'	5737'	(-2873')	7222'	5719'	(-2855')	(-2833')
Morrow	7503'	5921'	(-3057')	7472'	5900'	(-3036')	(-3012')
Upper Morrow Sand		not picked		7484'	5907'	(-3043')	absent
			from Duane E. Moredock				
Lower Morrow	7870'		( 78')	7800'	6148'	(-3284')	(-3274')
Lower Morrow Sand		not picked		7842'	6182'	(-3318')	absent
Chester	7892'			7870'	6208'	(-3344')	(-3311')
Orange Marker	8152'			8132'	6426'	(-3562')	(-3538')
Basal Chester		not picked		8215'	6506'	(-3642')	(-3625')
Meramec	8366'			8340'	6606'	(-3942')	(-3832')

SHOW DESCRIPTION:

Formation	Interval	Description
Marmaton	6678'-6684'	Limestone, light brown-dark brown, mudstone-wackestone, micritic, dolomitic in part, shell fragments in part, tight, trace pinpoint gold fluorescence, pale streaming cut, very pale ring. POOR SHOW.

RECEIVED  
STATE CORPORATION 06/22/1991

NOV 03 1993

CONSERVATION DIVISION  
Wichita, Kansas

WELL DATA  
 FIELD: Liberal WELL: 36 TYP: 345 RING: 34W COUNTY: Seward STATE: NE

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: OCT 17  
 MISC DATA: \_\_\_\_\_ TOP HOLE TEMP: \_\_\_\_\_

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR	<u>4 1/2</u>	<u>1 Hewes</u>
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS	<u>Turbulator</u>	<u>25</u>
BOTTOM PLUG		
TOP PLUG		
HEAD		
PACKER	<u>weld-A</u>	<u>1</u>
OTHER		

MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API  
 DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API  
 PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.  
 ACID TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ %  
 SURFACTANT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.  
 NE AGENT TYPE \_\_\_\_\_ GAL. \_\_\_\_\_ IN.  
 FLUID LOSS ADD. TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 GELLING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 FRIG. RED. AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 BREAKER TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 BLOCKING AGENT TYPE \_\_\_\_\_ GAL.-LB. \_\_\_\_\_ IN.  
 PERFRAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>116</u>	<u>4 1/2</u>	<u>2</u>	<u>8409</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 1/4</u>		<u>8399</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-17</u>	DATE <u>7-17</u>	DATE <u>7-17</u>	DATE <u>7-17</u>
TIME <u>0500</u>	TIME <u>0900</u>	TIME <u>1200</u>	TIME <u>1330</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>L. Smith</u>	<u>04463</u>	<u>Liberal NE</u>
<u>B. Sauber</u>	<u>64281</u>	<u>76900</u>
<u>T. Davis</u>	<u>F4550</u>	<u>25505 Hugoton NE</u>

RELEASED  
 NOV 21 1994  
 FROM CONFIDENTIAL  
 DESCRIPTION OF JOB:  cement 4 1/2 longstring  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.   
 CUSTOMER REPRESENTATIVE: X Donald H. Reid  
 HALLIBURTON OPERATOR: Smith COPIES REQUESTED: \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./BK.	MIXED LBS./GAL.
	<u>425</u>	<u>Premium</u>	<u>B</u>	<u>320MIL, 220 Haled 322, 252 Super CB</u>		<u>1.06</u>	<u>16.4</u>

PRESSURES IN PSI  
 CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_  
 BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_  
 AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_  
 SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_  
 HYDRAULIC HORSEPOWER \_\_\_\_\_  
 ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_  
 AVERAGE RATES IN BPM \_\_\_\_\_  
 TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_  
 CEMENT LEFT IN PIPE \_\_\_\_\_  
 FEET: 44' REASON: Shoe JT

SUMMARY  
 PRES LUBH: BBL. GAL. 10-Super Flush + 29886 320MIL  
 LOAD & BKDN: BBL. GAL. \_\_\_\_\_  
 TREATMENT: BBL. GAL. \_\_\_\_\_  
 CEMENT SLURRY: BBL. GAL. 80 1/2  
 TOTAL VOLUME: BBL. GAL. 243 1/2  
 VOLUMES  
 PAD: BBL. GAL. \_\_\_\_\_  
 DISPL: BBL. GAL. 133  
 NOV 03 1993  
 REMARKS: See Job Log  
 CONSERVATION DIVISION  
 Wichita, Kansas

CUSTOMER: Eastern Operations  
 RELEASE: Liberal NE  
 WELL NO: 7-36  
 JOB TYPE: 4 1/2 Longstring

WELL DATA  
FIELD 6 SEC 35 TWP 33 RANG. 33 COUNTY Seward STATE Kansas

FORMATION NAME **CONFIDENTIAL**  
FORMATION THICKNESS FROM TO  
INITIAL PROD. OIL BPD. WATER BPD. GAS MCFD  
PRESENT PROD. OIL BPD. WATER BPD. GAS **KCC** MCFD  
COMPLETION DATE MUD TYPE MUD WT.  
PACKER TYPE SET AT **OCT 17**  
BOTTOM HOLE TEMP. PRESSURE  
MISC. DATA TOTAL DEPTH **CONFIDENTIAL**

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	IN	35	8 5/8	KB	1604	
LINER						
TUBING						
OPEN HOLE			12 1/4	KB	1600	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		H
GUIDE SHOE <b>TEXAS PATT</b>	1	O
CENTRALIZERS <b>8-24</b>	3	W
BOTTOM PLUG		C
TOP PLUG <b>S-W</b>	1	C
HEAD <b>Frog Grip</b>	1	
PACKER <b>Insert</b>	1	
OTHER <b>Fillup</b>	1	

JOB DATA

DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
6-17-93	2230	6-17-93	2345	6-18-93	0430	6-18-93	0600

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  
GELLING AGENT TYPE GAL-LB  
FRIC. RED. AGENT TYPE GAL-LB  
BREAKER TYPE GAL-LB  
BLOCKING AGENT TYPE GAL-LB  
PERFPAC BALLS TYPE  
OTHER  
OTHER

PERSONNEL AND SERVICE UNITS

NAME	PHY NO. & TYPE	LOCATION
B. Sauter 64261	PU 40048	Liberal
T. Behanna 87748	PCM 5820-7574	Liberal
T. Davis F4530	5011-5506	Hugoton
S. Marin F4549	5086-5619	Hugoton

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT/SK	MIXED LBS/GAL
	150	C 4747		B	4 1/2% Flocels 2% C.C.	2.06	12.3
	150	C			3% C.C.	1.32	14.8

PRESSURES IN PSI  
CIRCULATING DISPLACEMENT  
BREAKDOWN MAXIMUM  
AVERAGE FRACTURE GRADIENT  
SHUT-IN INSTANT 5-MIN 15-MIN  
HYDRAULIC HORSEPOWER  
ORDERED AVAILABLE USED  
AVERAGE RATES IN BPM  
TREATING DISPL CEMENT LEFT IN PIPE OVERALL  
FEET **41.6** REASON **Shoe St**

DEPARTMENT **Cement**  
DESCRIPTION OF JOB **Cement 8 5/8 surface csg**  
JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.   
CUSTOMER REPRESENTATIVE **X. W. L. Luther**  
HALLIBURTON OPERATOR **Bill Gault** COPIES REQUESTED

SUMMARY  
PRESLUSH: BBL-GAL TYPE  
LOAD & BKON: BBL-GAL PAD: BBL-GAL  
TREATMENT: BBL-GAL DISPL: BBL-GAL  
CEMENT SLURRY: **238.4/lead 35.2 Tail**  
TOTAL VOLUME: BBL-GAL

REMARKS  
**circulate 42 BBL cement to pit NOV 03 1993**  
RECEIVED  
STATE CORPORATION COMMISSION

CUSTOMER Ensign Operating  
Liberal  
WELL NO 15  
JOB TYPE Surface  
DATE 6-17-93

ORIGINAL

CONFIDENTIAL



ORIGINAL

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

RECEIVED JUL 8 1993

HALLIBURTON SERVICES

INVOICE

A Halliburton Company

INVOICE NO.	DATE
345471	06/17/1993

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
LIBERAL 1-5		SEWARD		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
LIBERAL		G&J #3		CEMENT SURFACE CASING		06/17/1993
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA		FILE NO.
273943	W. L. PRATHER			COMPANY TRUCK		52231

KCC

DIRECT CORRESPONDENCE TO:

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

OCT 17

CONFIDENTIAL

FIRST OKLAHOMA TOWER  
210 WEST PARK AVENUE  
SUITE 2050  
OKLAHOMA CITY, OK 73102-5601

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - EASTERN AREA1 MILEAGE	1	MI	2.75	2.75
001-016	CEMENTING CASING	1604	FT	1,105.00	1,105.00
030-018	CEMENTING PLUG 5W, PLASTIC TOP	8	5/8 IN	130.00	130.00
16A	CASING SHOE - 8 5/8" BRD THD.	1	EA	161.00	161.00
830.2171					
24A	INSERT FLOAT VALVE - 8 5/8"	1	EA	175.00	175.00
815.19501					
27	FILL-UP UNIT 7"- 8 5/8"	1	EA	55.00	55.00
815.19415					
40	CENTRALIZER 8-5/8" X 12.25"	3	EA	72.00	216.00
807.93059					
66	FASGRIP LIMIT CLAMP 8 5/8"	1	EA	13.75	13.75
807.64056					
504-050	CEMENT - PREMIUM PLUS	150	SK	8.95	1,342.50
504-120	CEMENT - HALL. LIGHT PREM PLUS	650	SK	8.05	5,232.50
507-210	FLOCELE	163	LB	1.40	228.20
509-406	ANHYDROUS CALCIUM CHLORIDE	16	SK	28.25	452.00
500-207	BULK SERVICE CHARGE	843	CFT	1.25	1,053.75
500-306	MILEAGE CMTG MAT DEL OR RETURN	1207.776	TMI	.85	1,026.61
INVOICE SUBTOTAL					11,194.06
DISCOUNT-(BID)					2,238.81-
INVOICE BID AMOUNT					8,955.25
*-KANSAS STATE SALES TAX					395.40
*-SEWARD COUNTY SALES TAX					80.70
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$9,431.35

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

Liberal 1-5

930032, 5120

*Redacted*

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

ORIGINAL

INVOICE

CONFIDENTIAL



HALLIBURTON ENERGY SERVICES

ORIGINAL

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

INVOICE NO.	DATE
507328	07/17/1993

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
LIBERAL <del>200</del> 1-5		SEWARD		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
LIBERAL		NONE	CEMENT PRODUCTION CASING		07/17/1993
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
273943	DAVID L. REID			COMPANY TRUCK	53535

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

KCC  
OCT 17  
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	1	MI	2.75	2.75
		1	UNT		
001-016	CEMENTING CASING	8409	FT	2,250.00	2,250.00
		1	UNT		
030-016	CEMENTING PLUG SW ALUM TOP	4	1/2 IN	45.00	45.00 *
		1	EA		
030-017	CEMENTING PLUG SW ALUM BOTT	4	1/2 IN	100.00	100.00 *
		1	EA		
12A	GUIDE SHOE - 4 1/2" BRD THD.	1	EA	95.00	95.00 *
825.201					
4A	FLOAT COLLAR-SSII-4-1/2 BRD	1	EA	240.00	240.00 *
836.00300					
52	TURBULATOR-SPRL-4-1/2 X 7-1/	25	EA	125.00	3,125.00
807.83030					
018-317	SUPER FLUSH	10	SK	100.00	1,000.00
218-738	CLAYFIX II	2	GAL	21.50	43.00
350	HALLIBURTON WELD-A	1	LB	14.50	14.50 *
890.10802					
504-043	CEMENT - PREMIUM	425	SK	8.69	3,693.25 *
507-775	HALAD-322	380	LB	6.90	1,932.00 *
508-002	POTASSIUM CHLORIDE	450	LB	27	121.50 *
500-959	SUPER CBL	100	LB	21.50	2,150.00 *
500-207	BULK SERVICE CHARGE	425	CFT	1.25	531.25 *
500-306	MILEAGE CMTG MAT DEL OR RETN	672.870	TMI	.85	571.94 *
000-140	FREIGHT THIRD-PARTY CARRIER	1	EA	281.40	281.40

RELEASED

NOV 21 1994

FROM CONFIDENTIAL

INVOICE SUBTOTAL

DISCOUNT-(BID)

INVOICE BID AMOUNT

RECEIVED 16,196.59  
STATE CORPORATION COMMISSION  
3,183.03-  
NOV 03 1993 3,013.56  
CONSERVATION DIVISION  
Kansas

\*\*\*\*\* 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

ORIGINAL

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

INVOICE **CONFIDENTIAL**



INVOICE NO.	DATE
507328	07/17/1993

WELL LEASE NO./PROJECT LIBERAL <del>2-26</del> <sup>1-5</sup>		WELL/PROJECT LOCATION SEWARD		STATE KS	OWNER SAME
SERVICE LOCATION LIBERAL		CONTRACTOR NONE	JOB PURPOSE CEMENT PRODUCTION CASING		TICKET DATE 07/17/1993
ACCT. NO. 273943	CUSTOMER AGENT DAVID L. REID	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA COMPANY TRUCK	FILE NO. 53535

**KCC**

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

OCT 17  
**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
	*-KANSAS STATE SALES TAX				372.18
	*-SEWARD COUNTY SALES TAX				75.97

**RECEIVED JUL 28 1993**

**RELEASED**

NOV 21 1994

FROM CONFIDENTIAL

LIBERAL 1-5  
93D032, 7070

**RECEIVED**  
STATE CORPORATION COMMISSION

NOV 03 1993

INVOICE TOTAL - PLEASE PAY THIS AMOUNT ===== \$13,461.71

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



# ORIGINAL CONFIDENTIAL

GABBERT-JONES, INC.  
WICHITA, KANSAS

DRILLERS' WELL LOG

KCC

WELL NAME: LIBERAL 1-5  
SEC: 6-35S-33W  
SEWARD COUNTY, KANSAS

OCT 17  
CONFIDENTIAL

COMMENCED: 6-17-93  
COMPLETED: 7-17-93  
OPERATOR: ENSIGN OPERATING COMPANY

API # 15-0175-21320

DEPTH	FORMATION	REMARKS
From	To	
0	1557	
1557	1600	Ran 36jts of 32#8 5/8" csg
1600	1750	set @ 1500'w/450sks
1750	2163	class C lite-1/4#Flo seal
2163	2366	2%CC-150sks common
2366	2598	3%CC
2598	2863	PD @ 5:45am 6-18-93
2863	3043	
3043	3225	
3225	3365	Ran 191jts of 11.6#4 1/2"
3365	3403	csg LD @ 8399'w/425
3403	3753	sks class H
3753	4730	PD @ 1:00pm 7-17-93
4730	5482	RR @ 6:00pm 7-17-93
5482	6369	
6369	6410	
6410	7547	
7547	7693	
7693	7750	
7750	7777	
7777	7999	
7999	8127	
8127	8394	
8394	8399	

RELEASED  
NOV 21 1994  
FROM CONFIDENTIAL

8399-TD

RECEIVED  
STATE CORPORATION COMMISSION

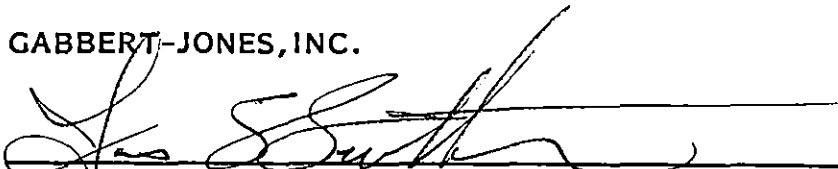
NOV 03 1993

CONSERVATION DIVISION  
Wichita, Kansas

STATE OF KANSAS ]  
COUNTY OF SEDGWICK ]

I, the undersigned, being duly sworn on oath, state that the above Drillers' Well Log is true and correct to the best of my knowledge and belief and according to the records of this office.

GABBERT-JONES, INC.

  
James S. Sutton, II - President

Subscribed & sworn to before me this 20th, day of July, 1993

  
Brenda L. Raple, Notary Public

My commission expires October 16, 1996.

