

# ORIGINAL

SIDE ONE

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

Operator: License # 5399

Name: American Energies Corporation

Address 155 North Market, Suite 710

Wichita, Kansas 67202

City/State/Zip \_\_\_\_\_

Purchaser: Texaco Trading and Transportation

Operator Contact Person: Alan L. DeGood

Phone: (316) 263-5785

Contractor: Name: Mallard JV Inc.

License: 4958

Wellsite Geologist: Kurt Smith

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abdn.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

2/14/90 2/22/90 3/6/90

Spud Date Date Reached TD Completion Date

API NO. 15- 135-23429-60-00

County Ness

SW NW SW Sec. 30 Twp. 16 Rge. 21  East West

1,650 Ft. North from Southeast Corner of Section

4,950 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

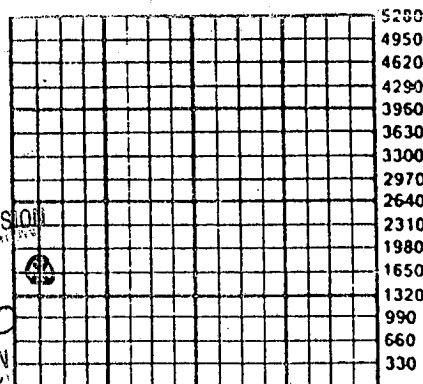
Lease Name Sunley Well # "A" #1

Field Name Brownell Southeast

Producing Formation Cherokee Sand

Elevation: Ground 2382 KB 2390

Total Depth 4430 PBD 4429



RECEIVED  
STATE CORPORATION COMMISSION  
JUN 14 1990  
OIL & GAS CONSERVATION DIVISION  
Wichita, Kansas

Amount of Surface Pipe Set and Cemented at 270 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set Perfs @ 1050 & 1425 Feet

If Alternate II completion, cement circulated from 1050

feet depth to Surface w/ 350 sx cmt.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Alan L. DeGood  
Title Vice-President Date 6-13-90

Subscribed and sworn to before me this 13th day of June 19 90.  
Notary Public Melinda S. Wooten  
Date Commission Expires 3-12-92

MELINDA S. WOOTEN  
NOTARY PUBLIC  
STATE OF KANSAS  
Exp. 3-12-92

K.C.C. OFFICE USE ONLY

F  Letter of Confidentiality Attached

C  Wireline Log Received

C  Drillers Timelog Received

Distribution

KCC  SWD/Rep  NGPA

KGS  Plug  Other (Specify)

CONSERVATION DIVISION  
Wichita, Kansas

ORIGINAL

SIDE TWO

Operator Name American Energies Corp. Lease Name Sunley Well # "A" #1

Sec. 30 Twp. 16S Rge. 21  East  West County Ness County

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.)

Name	Formation Description	
	Top	Bottom
Anhydrite	1678	+712
Heebner	3788	-1398
Lansing	3282	-1438
Pawnee	4177	-1787
Labette	4270	-1880
Cher. Sh.	4292	-1902
Cher. A Sand	4297	-1907
Mississippi	4382	-1992

DST #1: 4286-4298 (Cherokee "A" Sand)  
Times: 15-0-0-0. IFP: 111-308. Rec.:  
935' GIP, 210' CGO (40°), 135' FO (70%  
Oil, 10% Water, 10% Gas, 10% Mud), 410'  
MW.

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 1/2"	8 5/8"	20#	270	60/40 Poz	170	2% Gel, 3% CaCl
Production	7 7/8"	5 1/2"	14#	4429	EA-2	125	10# Gilsnite/sx

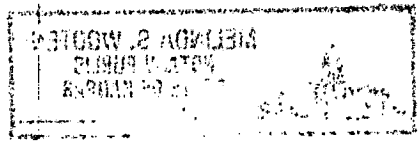
Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
		Nature	Depth
4 Sh/Ft.	4297-4298	Cement Squeeze 275 sx	1425-1100
3 Sh/Ft.	1425	Cement Squeeze 200 sx	1050-750
3 Sh/Ft.	1050	Cement Squeeze 150 sx	1050 Surface

TUBING RECORD Size 2 7/8 Set At J-55 Packer At 4185 None  Yes  No

Date of First Production 3/06/89 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil 40 Bbls. Gas 450 Water 450 Bbls. Gas-Oil Ratio 43° Gravity 43°

Disposition of Gas: None METHOD OF COMPLETION  Open Hole  Perforation  Dually Completed  Commingled  Other (Specify) \_\_\_\_\_ Production Interval \_\_\_\_\_



MALLARD JV, INC.  
P.O. BOX 1009  
McPHERSON, KS 67460

ORIGINAL

DRILLERS' LOG

OPERATOR: American Energies Corporation  
155 N. Market, Suite 710  
Wichita, KS 67202

WELL: Sunley "A" #1

API#: 15-135-23,429-00-00

COMMENCED: February 14, 1990

LOCATION: SW NW SW

COMPLETED: February 22, 1990

1650 Ft. FSL, 4950 Ft. FEL

TOTAL DEPTH: 4430 Ft.

SEC. 30 TWP. 16 S RGE. 21 W

ELEVATION: 2382 Ft. G.L.

COUNTY: Ness

2390 Ft. K.B.

\*\*\*\*\*  
Set pipe - Mississippi formation

REMARKS

Cut 12 1/4" hole to 275' and ran 6 joints new 8-5/8" x 20# x 260.26' surface casing. Set at 269.86' and cemented with 170 sacks 60/40 Pozmix, 2% gel, 3% cc. Cement did circulate. P.D. at 5:50 a.m. 2-15-90.

Ran 1 DST and electric log.

Ran 143 joints 5 1/2" x 14# x 4429.90' production casing. Set at 4429' and cemented with 125 sacks EA2. Land plug at 9:20 a.m. 2-22-90. Released and held.

\*\*\*\*\*

STATE OF KANSAS )  
COUNTY OF MCPHERSON ) SS:

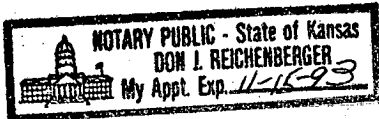
I, Bryan Hess of MALLARD JV, INC. hereby certify that this is a true and correct copy of the log of the Sunley "A" #1 well as reflected by the files of Mallard JV, Inc.

*Bryan Hess*  
Bryan Hess - General Manager

Subscribed and sworn to before me this 2nd day of March, 1990.

*Don J. Reichenberger*  
NOTARY PUBLIC

RECEIVED  
STATE CORPORATION COMMISSION  
JUN 14 1990  
JUN 13 1990  
CONSERVATION DIVISION  
Wichita, Kansas DIVISION





American Energies  
Corporation

COPY  
ORIGINAL

155 North Market, Suite 710  
Wichita, Kansas 67202  
316-263-5785

August 21, 1990

Mr. Dennis Anderson  
Kansas Corporation Commission  
200 Colorado Derby Building  
Wichita, Kansas 67202

RE: Alternate II Cementing  
Sunley "A" #1  
SW NW SW Sec. 30-T16S-R21W  
Ness County, Kansas

Dear Mr. Anderson:

Enclosed are the three cementing tickets from Halliburton Services with job log attached and the Temperature Survey and Cement Bond Log. Here is the chronological summary of the Alternate II Cementing.

June 4, MICU, perfed Cedar Hills @ 1425, Halliburton cmt w 275 sx, didn't circulate,

June 5, Ran temperature survey, determined top of the cement 1150,

June 6, Ran Cement Bond Log, top of cement at 1150', perf @ 1050, Halliburton cemented w 200 sx cmt, didn't circulate,

June 7, Ran temperature survey, top cement @ 750', pump into perms @ 1050, Halliburton cemented w 200 sx, cement circulated to surface. See job log.

Sincerely,

Alan L. DeGood  
Vice-President

ALD/msw  
enclosure  
cc well file

RECEIVED  
STATE CORPORATION COMMISSION

AUG 22 1990

CONSERVATION DIVISION  
Wichita, Kansas

MALLARD JV, INC.  
P.O. BOX 1009  
McPHERSON, KS 67460

COPY

DRILLERS' LOG

OPERATOR: American Energies Corporation  
155 N. Market, Suite 710  
Wichita, KS 67202

WELL: Sunley "A" #1

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\*\*\*\*\*

STATE OF KANSAS )  
COUNTY OF MCPHERSON ) SS:

I, Bryan Hess, of MALLARD JV, INC. hereby certify that this is a true and correct copy of the Log of the Sunley "A" #1 well as reflected by the files of Mallard JV STATE CORPORATION COMM.

RECEIVED  
JUN 14 1990  
JUN 15 1990  
CONSERVATION DIVISION  
Wichita, Kansas

*Bryan Hess*  
Bryan Hess - General Manager

Subscribed and sworn to before me this 2nd day of March, 1990.

NOTARY PUBLIC - State of Kansas  
DON J. REICHENBERGER  
My Appt. Exp. 11-15-93

*Don J. Reichenberger*  
NOTARY PUBLIC

ORIGINAL

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

HALLIBURTON SERVICES

ORIGINAL

INVOICE

A Halliburton Company

INVOICE NO.	DATE
910528	06/06/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
SURLEY A 1		NESS		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
NESS CITY	CHEYENNE	TOP OUTSIDE PRODUCTION CASING		06/06/1990	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
017184	L.W. JACKSON			COMPANY TRUCK	96395

*2nd stage perfs @ 1050 cmt top 750*

AMERICAN ENERGIES CORP  
155 N. MARKET, SUITE 710  
WICHITA, KS 67202

DIRECT CORRESPONDENCE TO:  
SUITE 600  
COLORADO DERBY BUILDING  
WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	26	MI	2.35	61.10
		1	UNT		
001-016	CEMENTING CASING	1015	FT	835.00	835.00
		1	UNT		
030-016	CEMENTING PLUG 5W ALUM TOP	5 1/2	IN	47.00	47.00
		1	EA		
504-316	HALLIBURTON LIGHT W/STANDARD	200	SK	5.21	1,042.00
507-210	FLOCELE	88	LB	1.30	114.40
509-406	ANHYDROUS CALCIUM CHLORIDE	1	SK	26.25	26.25
500-207	BULK SERVICE CHARGE	208	CFT	1.10	228.80
500-306	MILEAGE CMTG MAT DEL OR RETURN	241.904	TMI	.75	181.43
INVOICE SUBTOTAL					2,535.98
DISCOUNT-(BID)					507.19-
INVOICE BID AMOUNT					2,028.79
*-KANSAS STATE SALES TAX					86.23
INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====>					\$2,115.02

RECEIVED  
STATE CORPORATION COMMISSION  
JUN 14 1990  
JUN 13 1990  
CONSERVATION DIVISION  
Wichita, Kansas  
Wichita, Kansas

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

11500



ORIGINAL

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

INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
908308	02/22/1990

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
SUNLEY A-1	NESS	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE
NESS CITY	MALLARD	CEMENT PRODUCTION CASING	02/22/1990
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
017184	L.W. JACKSON		
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	90934

DIRECT CORRESPONDENCE TO:  
 SUITE 600  
 COLORADO DERBY BUILDING  
 WICHITA, KS 67202-0000

AMERICAN ENERGIES CORP  
 155 N. MARKET, SUITE 710  
 WICHITA, KS 67202

Long String 1st stage

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	PRICING AREA - MID CONTINENT MILEAGE	23	MI	2.20	50.60
001-016	CEMENTING CASING	4430	FT	1,100.00	1,100.00
030-016	CEMENTING PLUG 5W ALUM TOP	5 1/2	IN	47.00	47.00
018-317	SUPER FLUSH	10	SK	74.00	740.00
12A	GUIDE SHOE - 5 1/2" 8RD THD.	1	EA	104.00	104.00
825.205	INSERT FLOAT VALVE - 5 1/2" 8RD	1	EA	83.00	83.00
815.19251	FILL-UP UNIT 5 1/2"-6 5/8"	1	EA	30.00	30.00
27	CENTRALIZER 5-1/2" MODEL S-4	5	EA	44.00	220.00
815.19311	CEMENT BASKET 5 1/2"	2	EA	90.00	180.00
40	STANDARD CEMENT	125	SK	5.45	681.25
807.93022	SALT	975	LB	.073	71.18
320	SALT FLUSH	500	LB	.073	36.50
800.8883	HALAD-322	88	LB	5.60	492.80
504-308	GILSONITE	1250	LB	.35	437.50
509-968	CAL SEAL	6	SK	14.90	89.40
509-968	HALLIBURTON GEL	2	SK	6.95	13.90
507-775	BULK SERVICE CHARGE	179	CFT	.95	170.05
508-291	MILEAGE CMTG MTD FOR RETURN	176.675	TMI	.70	123.67
508-127					
509-554					
500-207					
500-306					
					4,670.85
					1,013.01-
					3,657.84

RECEIVED  
 STATE CORPORATION COMMISSION  
 INVOICE SUBMITTED 1-4-1990  
 JUN 15 1990  
 DISCOUNT BY...  
 INVOICE BY...  
 Wichita, Kansas

\*\*\*\*\* 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.





HALLIBURTON SERVICES

# JOB SUMMARY

DIVISION  
HALLIBURTON LOCATION

Ness City, Mo

# COPY

BILLED ON TICKET NO. 910500

WELL DATA  
FIELD \_\_\_\_\_ SEC. 30 TWP. 16S RNG. 21W COUNTY Ness 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		14	5 1/2			
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

### JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>6-7-90</u>	DATE <u>6-7-90</u>	DATE <u>6-7-90</u>	DATE <u>6-7-90</u>
TIME <u>0630</u>	TIME <u>0745</u>	TIME <u>0900</u>	TIME <u>1015</u>

### 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
<u>R. Leggett</u>	<u>Coms. 51145</u>	<u>Ness City, Mo.</u>
<u>K. Charles</u>		

### 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 Crut.  
 DESCRIPTION OF JOB Crut. Back side  
 JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.   
 CUSTOMER REPRESENTATIVE X. R. W. Jackson  
 HALLIBURTON OPERATOR Roy B. Leggett COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT/SK.	MIXED LBS/GAL
	<u>150</u>	<u>HLC</u>		<u>B</u>	<u>1/4" Flxide</u>	<u>1.34</u>	<u>12.7</u>
	<u>50</u>	<u>HLC</u>		<u>B</u>	<u>1/4" Flxide 3% CC</u>	<u>1.34</u>	<u>12.7</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 \_\_\_\_\_ REASON \_\_\_\_\_

### SUMMARY

PRELUSH: BBL-GAL \_\_\_\_\_ TYPE \_\_\_\_\_  
 LOAD & BKDN: BBL-GAL \_\_\_\_\_ PAD: BBL-GAL \_\_\_\_\_  
 TREATMENT: BBL-GAL \_\_\_\_\_  
 CEMENT SLURRY: BBL-GAL \_\_\_\_\_ 64  
 TOTAL VOLUME: BBL-GAL \_\_\_\_\_  
 REMARKS See Chart & Job Log  
Thank Roy  
 RECEIVED STATE CORPORATION COMMISSION  
 AUG 22 1990  
 CONSERVATION DIVISION  
 Wichita, Kansas

CUSTOMER American Energy Services  
 LEASE Survey Log A  
 WELL NO. 21  
 JOB TYPE Crut. Back side  
 DATE 6-7-90

COPY 8-7-90

DISTRICT Hay, Ks.

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: American Energies Corp. (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 21 LEASE Sunlay A SEC. 30 TWP. 16S RANGE 21W  
FIELD \_\_\_\_\_ COUNTY Ness STATE Ks. OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
PACKER: TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_ MUD WEIGHT \_\_\_\_\_  
BORE HOLE \_\_\_\_\_  
INITIAL PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF  
PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING		14	5 1/2			
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_

Ctrl. Top outside of production Csg.

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- a) To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are 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 attorneys 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.
  - b) To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
    1. Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
    2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
    3. Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton's negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
  - c) That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the products, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
  - d) That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.
  - e) That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing unit returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
  - f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
  - g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
  - h) That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized representative officer of Halliburton.

RECEIVED STATE CORPORATION COMMISSION

CONSERVATION DIVISION Wichita, Kansas

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED [Signature] CUSTOMER

DATE 6-7-90

TIME 0815 A.M. P.M.



