

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

Operator: License # 32034
 Name: Hal C. Porter
 Address _____
10004 W 20th St N, Wichita KS 67212
 City/State/Zip _____

Purchaser: Farmland Industries
 Operator Contact Person: _____
 Phone (316) 773-3808

Contractor: Name: Discovery Drilling Co
 License: 31548

Wellsite Geologist: Randall Kilian

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/Reentry: Old Well Info as follows:
 Operator: _____
 Well Name: _____
 Comp. Date _____ Old Total Depth _____

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

8/28/97 9/5/97 9/25/97
 Spud Date Date Reached TD Completion Date

API NO. 15- 051-24979-0000
 County ELLIS
 Center N/2 N/2-NW Sec. 32 Twp. 11S Rge. 19 W
385 Feet from S/N (circle one) Line of Section
1235 Feet from E/W (circle one) Line of Section

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

Lease Name Terry Solomon Well # 32-1

Field Name Zerfas East

Producing Formation Arbuckle

Elevation: Ground 2096 KB 2104

Total Depth 3731 PSTD 3690

Amount of Surface Pipe Set and Cemented at 210.52 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 1457 Feet

If Alternate II completion, cement circulated from 1457

feet depth to surface w/ 210 ex MID CON II ex cmt.

Drilling Fluid Management Plan A17.2, 3-18-98 v.c.
 (Data must be collected from the Reserve Pit)

Chloride content 5,000 ppm Fluid volume 200 bbls

Dewatering method used Allowed to Air Dry

Location of fluid disposal if hauled offsite:

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market Room 2078, 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 Hal C. Porter
 Title Operator, Hal C. Porter Date 12/18/97

Subscribed and sworn to before me this 18th day of December, 1997

Notary Public Doris L. Smith

Date Commission Expires 8-30-2001

K.C.C. OFFICE USE ONLY		
F	Letter of Confidentiality	Attached
C	Wireline Log Received	
C	Geologist Report Received	
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other
(Specify)		

 DORIS L. SMITH
 NOTARY PUBLIC
 STATE OF KANSAS
 My Appt. Exp. _____

RECEIVED
 KANSAS CORP COM
 12/22/97
 2:14 P M

SIDE TWO

Operator Name Hal C. Porter

Lease Name Terry Solomon

Well # 32-1

Sec. 29 Twp. 11S Rge. 19
 East
 West

County ELLIS

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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	T/Anhydrite	1452	+ 652
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	B/Anhydrite	1491	+ 613
List All E.Logs Run:		Topeka	3100	- 996
		Heebner Shale	3323	-1219
		Toronto	3343	-1239
		Lansing	3364	-1260
		Base LKC	3586	-1482
		Simpson Dolomite	3640	-1536
		Arbuckle	3654	-1550
		TD	3731	-1627

Rad. Guard Log ORIGINAL

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 Casing	12-1/4"	8-5/8" OD	24#	210KB	60/40 Pos	135	2# gel
Production Casing	7-7/8"	5-1/2" OD	15.5#	3731 KB	Mid-Con II	125 sx	See HOWCO Report
Set DV tool at 1457. Cemented 2nd stage using 210sx Mid Con II, Full Returns of cement to surface. See Halliburton Tickets.							

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate					
Protect Casing					
Plug Back TD					
Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement (Amount and Kind of Material Used)	Squeeze Record Depth
4	3659-62 KB Arbuckle		

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2-7/8"OD	3665			
Date of First, Resumed Production, SMD or Inj.	Producing Method	<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
October 3, 1997					
Estimated Production Per 24 Hours	Oil 56 Bbls.	Gas None Mcf	Water 0 Bbls.	Gas-Oil Ratio	27.6Gravity

Disposition of Gas: METHOD OF COMPLETION 211-62-21 Production Interval

Vented Sold Used on Lease Open Hole Ferr. Dually Comp. Commingled

(If vented, submit ACO-18.) Other (Specify) MANASSAS CO. RECEIVED

3659-
3662'

15-051-24979-00-00

TELEPHONE:

AREA CODE 913 483-2627
AREA CODE 913 483-3887

ALLIED CEMENTING COMPANY, INC.

P. O. BOX 31
RUSSELL, KANSAS 67665

Federal Tax I.D.# 48-0727860

TO:

Hal C. Porter

10004 West 20th North

Wichita, KS 67212

ORIGINAL

INVOICE NO. 75944

PURCHASE ORDER NO.

LEASE NAME Terry Soloman 32-1

DATE 8-28-97

SERVICE AND MATERIALS AS FOLLOWS:

Common 68 sks @\$6.10	\$414.80	
Pozmix 67 sks @\$3.15	211.05	
Gel 2 sks @\$9.50	19.00	
Chloride 4 sks @\$28.00	<u>112.00</u>	\$ 756.85

Handling 135 sks @\$1.05	141.75	
Mileage	80.00	
Surface	445.00	
Mi @\$2.85 pmp trk chg (17)	48.45	
1 plug	<u>45.00</u>	760.20

Total

\$1,517.05

If Account CURRENT, a
Discount of \$ 227.55
will be Allowed ONLY if
Paid Within 30 Days from
Date of Invoice.

Thank You!

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

*pd
9/17/97
102*

ALLIED CEMENTING CO., INC.

8207

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: K

15-051-24979-00-00

DATE <u>8-28-97</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION <u>8:30pm</u>	JOB START	JOB FINISH <u>10:00pm</u>
LEASE <u>Jerry Solomon</u>	WELL # <u>32-1</u>		LOCATION <u>Yocemento & Buckeye Rd</u>	COUNTY <u>Ellis</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)			<u>2 1/2 UN 1/2 E into</u>				

CONTRACTOR Discovery Digs #1

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 212

CASING SIZE 8 5/8 DEPTH 210 24"

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 10-15'

PERFS.

DISPLACEMENT 12 1/2 bbl

OWNER ORIGINAL

CEMENT AMOUNT ORDERED 135 60/40 3% cc
29% gel

COMMON	<u>68</u>	@	<u>610</u>	<u>414.00</u>
POZMIX	<u>67</u>	@	<u>315</u>	<u>211.05</u>
GEL	<u>2</u>	@	<u>950</u>	<u>19.00</u>
CHLORIDE	<u>4</u>	@	<u>28.00</u>	<u>112.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING		@	<u>1.05</u>	<u>141.75</u>
MILEAGE	<u>48 / Sta / Mile</u>			<u>80.00</u>
				TOTAL <u>978.60</u>

EQUIPMENT

PUMP TRUCK # 153 CEMENTER Mark HELPER Paul

BULK TRUCK # 160 DRIVER Bill L.

BULK TRUCK # DRIVER

REMARKS:

Cement Cure ✓

[Signature]

SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 415.00

EXTRA FOOTAGE @

MILEAGE 17 @ 48.45

PLUG 8 5/8 wooden @ 45.00

@

@

TOTAL 538.45

CHARGE TO: Hal C. Porter

STREET 10004 West 20th North

CITY Wichita STATE Kan ZIP 67212

FLOAT EQUIPMENT

@

@

STATE @ \$100

@

FEB 2 1998
2-2-1998

CONCRETE DIVISION
Wichita, Kansas

TOTAL

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 is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

TAX

TOTAL CHARGE

DISCOUNT IF PAID IN 30 DAYS

SIGNATURE Tom A

PRINTED NAME



15051-29979-00-00

REMIT TO:
P.O. BOX 951046
DALLAS, TX 75395-1046
Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES, INC.

INVOICE NO.	DATE
195701	09/06/1997

WELL LEASE NO./PROJECT	WELL/PROJECT LOCATION	STATE	OWNER		
FERRY SOLOMAN 32-1	ELLIS	KS	SAME		
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET DATE		
HAYS	DISCOVERY DRILLING	SHOWN BELOW	09/06/1997		
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
004443	HAL PORTER			COMPANY TRUCK	29833

ORIGINAL

DIRECT CORRESPONDENCE TO:

IMPERIAL AMERICAN OIL CORP.
P.O. BOX 18515
FOUNTAIN HILLS, AZ 85269

1102 E. 6TH
HAYS KS 67601
913-625-3431

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
PRICING AREA - MID CONTINENT					
JOB PURPOSE - CEMENT PRODUCTION CASING					
000-117	MILEAGE CEMENTING ROUND TRIP	36 MI		3.20	115.20
		1 UNT			
001-016	CEMENTING CASING	3732 FT		1,811.00	1,811.00
		1 UNT			
007-161	MULTI-STAGE CEMENTING-ADD STAGE	1 STG		1,705.00	1,705.00
		1 UNT			
018-317	SUPER FLUSH	7 SK		112.00	784.00
018-303	CLAYFIX II, PER GAL	2 GAL		30.50	61.00
26	INSERT VALVE P. S. - 5 1/2" BRD	1 EA		385.00	385.00
647.6318					
27	FILL-UP UNIT 5 1/2"-6 5/8"	1 EA		76.00	76.00
815.19313					
40	CENTRALIZER-5-1/2 X 7-7/8	8 EA		67.00	536.00
806.60022					
320	BASKET-CMT-5 1/2 CSC X 17"OD	1 EA		116.00	116.00
806.71430					
75	PLUG SET - FREE FALL - 2-STAGE	1 EA		506.00	506.00
813.16510					
55	WIPER-RECIPROCATING WALL CLEAN	10 EA		21.25	212.50
806.71230					
71	CEMENTER-TYPE P BS 5-1/2 BRD	1 EA		2,695.00	2,695.00
813.56325					
66	CLAMP-LIMIT-5-1/2 HINGED			12.30	12.30
806.72030					
504-280	MIDCON-2 STANDARD CEMENT	335 SK		13.53	4,532.55
509-406	ANHYDROUS CALCIUM CHLORIDE STATE CORP	36 SK		46.90	1,688.40
507-775	HALAD-322	35 LB		7.70	269.50
507-210	FLOCELF	35 LB		1.90	66.50
508-291	GILSONITE BULK	35 LB		.50	17.50
500-207	BULK SERVICE CHARGE	383 CFT		1.55	593.65
500-306	MILEAGE CMTG MAT DEL OR RETURN	305.865 TMT		1.10	336.45

RECEIVED
2-2-1998
FEB 2 1998
NON DIVISION
Hilla, Kansas

PD 1.40
269.50
180.50
112.50
593.65
9/15/97

***** 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



15-051-29979-00-00

REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046 Corporate FIN 73-0271280

INVOICE

HALLIBURTON ENERGY SERVICES, INC.

INVOICE NO.	DATE
196701	09/06/1997

WELL LEASE NO./PROJECT		WELL/PROJECT LOCATION		STATE	OWNER
TERRY SOLOMAN 32-1		ELLIS		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE			TICKET DATE
HAYS	DISCOVERY DRILLING	SHOWN BELOW			09/06/1997
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
004443	HAL PORTER			COMPANY TRUCK	29833

ORIGINAL

IMPERIAL AMERICAN OIL CORP
P.O. BOX 18515
FOUNTAIN HILLS, AZ 85269

DIRECT CORRESPONDENCE TO:

1102 E. 8TH
HAYS KS 67601
913-625-3431

REFERENCE NO.	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
	JOB PURPOSE SUBTOTAL				15,546.02
	INVOICE SUBTOTAL				15,546.02
	DISCOUNT-(BID)				4,874.06-
	INVOICE BID AMOUNT				10,671.96
	*-KANSAS STATE SALES TAX				375.99
	*-HAYS CITY SALES TAX				76.74
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				\$11,124.69

1-1
Pd
9/15/97

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.



HALLIBURTON ENERGY SERVICES

HAL-1906-P

CHARGE TO: **15-051-24979-00-00**
 ADDRESS: **Imperial American Oil Corp.**
10004 West 20th St North
 CITY, STATE, ZIP CODE: **Midvale, KS 67212**

CUSTOMER COPY

TICKET

No. **196701**

PAGE **1** OF **3**

SERVICE LOCATIONS 1. 25525	WELL/PROJECT NO. # 331	LEASE Terry Solomon	COUNTY/PARISH Ellis	STATE Ks	CITY/OFFSHORE LOCATION	DATE 9-6-97	OWNER same
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE JOB?	NITROGEN <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Discovery	RIG NAME/NO.	SHIPPED VIA ct well site	DELIVERED TO	ORDER NO.
3.	WELL TYPE 01	WELL CATEGORY 01	JOB PURPOSE 035	WELL PERMIT NO.	WELL LOCATION 32-11-19		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT	
		LOC	ACCT	DF		QTY.	U/M	QTY.	U/M		
000-117		1		33	MILEAGE 51374 RCM Rt	80	m	1	unit	320	265.2
001-016		1		33	Pump Service	3732	ft			1811	1811
007-161		1		33	pump service Top Stage	1457	ft			1705	1705
018-317		1		33	super flush	7	SKS			112	784
018-303		1		33	Gla fix II	2	gal			30	61.0
26	808.6318	1		33	Insert float shoe "H"	1	ea	5/2	in	380	380
27	812.19313	1		33	Fillup Assy "H"	1	ea	1	in	26	26
40	808.60022	1		33	S-4 cent "H"	8	ea	5/2	in	67	536
320	806.71430	1		33	Basket "H"	1	ea	5/2	in	116	116
75	813.16510	1		25	Free Fall Plug set "H"	1	ea	5/2	in	506	506
56	806.71230	1		33	RECTAB cable scratcher "H"	10	ea	5/2	in	21.25	212.5
71	813.56325	1		25	Es Type DV Tool	11	ea	5/2	in	265	265

customer received MSAS

RECEIVED
 9-22-97
 10:00 AM
 OPERATIONS

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

[Signature]

DATE SIGNED: **9-6-97** TIME SIGNED: **5:00 P.M.**

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

SUB SURFACE SAFETY VALVE WAS:

PULLED & RETURN PULLED RUN

TYPE LOCK	DEPTH	
BEAN SIZE	SPACERS	
TYPE OF EQUALIZING SUB.	CASING PRESSURE	
TUBING SIZE	TUBING PRESSURE	WELL DEPTH
TREE CONNECTION	TYPE VALVE	

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

ORIGINAL

PAGE TOTAL

FROM CONTINUATION PAGE(S)

SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE

6531.0

15546.0

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES

The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT)
[Signature]

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE
[Signature]

HALLIBURTON OPERATOR/ENGINEER
[Signature] EMP # **86101**

HALLIBURTON APPROVAL



HALLIBURTON ENERGY SERVICES

FORM 1911 R-9

CUSTOMER Tactical Aerospace Tool Corp (S111111)	WELL # 32-1	DATE 9-6-97	PAGE 3	OF 3
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PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
66	206-72030	1		33	Limit clamp					12.80	12.80
SERVICE CHARGE						CUBIC FEET					
MILEAGE CHARGE			TOTAL WEIGHT			LOADED MILES			TON MILES		

STATION 2-2-1998
 FEB 2 1998
 CONSTRUCTION DIVISION
 Wichita, Kansas
 DRAWN BY [signature]
 CHECKED BY [signature]

ORIGINAL



HALLIBURTON

HALLIBURTON ENERGY SERVICES

15-051-24979-00-00

TICKET CONTINUATION

TICKET No. 196701

Truck# (s)	4444-5070	CUSTOMER			Imperial American	WELL	32-1	DATE	9/6/97	PAGE	2-2
PRICE	SECONDARY REFERENCE/	ACCOUNTING			DESCRIPTION	QTY	U/M	QTY	U/M	UNIT PRICE	AMOUNT
REFERENCE	PART NUMBER	LOC	ACCT	DF							
504-280				33	Mid Con II	335	sk			\$13.53	\$4,532.55
509-406				/	Calcium Chloride	6	sk			\$46.90	\$281.40
507-775					HALAD-322	35	lb.			\$7.70	\$269.50
507-210					Flocele	95	lb.			\$1.90	\$180.50
508-291					Gilsonite	625	lb.			\$0.50	\$312.50
500-207					SERVICE CHARGE						
500-306					MILEAGE CHARGE						
					TOTAL WEIGHT	33,985					
					LOADED MILES	18					
					CUBIC FEET	383				1.55	\$593.65
					TON MILES	305.865				1.18	\$360.92

ORIGINAL

CONSERVATION DIVISION
 FEB 2 1998
 2-2-1998
 T. ROSEN

No. B 660101

CONTINUATION TOTAL \$ 6,531.00



15-051-24979-00-00

JOB SUMMARY 4239-1

TICKET #	196701	TICKET DATE	9-6-97
BDA / STATE	Ks	COUNTY	Ellis
PSL DEPARTMENT	CMT		
CUSTOMER REP / PHONE	HAL Porter		
API / UWI #	15951249790000		
JOB PURPOSE CODE	035		

REGION	North America	NWA/COUNTRY	Mid Cont
MBU ID / EMP #	NA0102 86101	EMPLOYEE NAME	Allen F. Werth
LOCATION	25525	COMPANY	Imperial American
TICKET AMOUNT	\$15,533.72	WELL TYPE	OIL
WELL LOCATION	North yocemento	DEPARTMENT	CMT
LEASE / WELL #	Terry Solomon	SEC / TWP / RNG	32-15-19W

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
Allen F. Werth 86101			
Craig Dodson H1659			
Lyle Leiker H6872			

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
51374 RCM	48						
420624 P.U.	48						
4444-5070 BIK	48						

ORIGINAL

Form Name _____ Type: _____

Form Thickness _____ From _____ To _____

Packer Type DV Set At 1757

Bottom Hole Temp. _____ Pressure _____

Misc. Data _____ Total Depth _____

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float 5/8 <u>10FS 5/2</u>	1	Halliburton
5/8 Basket 5/2	1	Halliburton
Guide Shoe		
Centralizers S-4-5/2	1	Halliburton
Bottom Plug		
Top Plug D.V Plugset	1	Halliburton
Head 5/2	1	Halliburton
Packer		
Other D.V. 5/2	1	Halliburton

MATERIALS

Treat Fluid	Density	Lb/Gal
Disp. Fluid	Density	Lb/Gal
Prop. Type	Size	Lb.
Acid Type	Gal.	%
Surfactant	Gal.	In
NE Agent	Gal.	In
Fluid Loss	Gal/Lb	In
Gelling Agent	Gal/Lb	In
Fric. Red.	Gal/Lb	In
Breaker	Gal/Lb	In
Blocking Agent	Gal/Lb	
Perpac Balls	Qty.	
Other 2gal Cla fix # For 20BBS		
Other 7 BBS Super Flush		

DATE	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
9-6-97	0630	1130	1230	2130

WELL DATA

NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW.
Casing U	155	5 1/2	KB	3731	
Liner					
Open Hole			3731	3732	SHOTS/FT.

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
9-6-97	10.68	9-6-97	2	5/2 D.V. G.S.
	STATE			
TOTAL	10	TOTAL	2	

HYDRAULIC HORSEPOWER

ORDERED Avail. _____ Used _____

TREATED AVERAGE RATES IN BPM

Disp. _____ Overall _____

CEMENT LEFT IN PIPE

FEET 37.56 Reason Shoe Joint

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
1	125	MID CONT II	Bulk	2% CC, 5# Gilsomite, 1/8# Flocele	1.64	13.8
2	200	MID CONT II	Bulk	2% CC, 3/8# Flocele/sk.	3.22	11.1

Circulating _____	Displacement _____	Preflush: Gal - <u>BBI</u> Cla fix #20 type Super Flush 7
Breakdown _____	Maximum _____	Load & Bkdn: Gal - BBI Pad: BBI - Gal
Average _____	Frac Gradient _____	Treatment Gal - BBI Disp: <u>BBI</u> Gal <u>55</u>
Shut In: Instant _____	5 Min _____ 15 Min _____	Cement Slur Gal - <u>BBI</u> 36.5 125/2
		Total Volume Gal - BBI



JOB LOG 4239-5

TICKET #	TICKET DATE
196274	2/6/98
BDA / STATE	COUNTY
LA	...
PSL DEPARTMENT	
CW11	
CUSTOMER REP / PHONE	
API / UWJ #	15051249790000
DEPARTMENT	
WELL TYPE	
WELL LOCATION	
WELL PURPOSE CODE	
SEC / TWP / RNG	

REGION	North America	NW/COUNTRY	
MBU ID / EMP #		EMPLOYEE NAME	
LOCATION		COMPANY	
TICKET AMOUNT	15,533.72	WELL TYPE	
LEASE / WELL #		SEC / TWP / RNG	

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS

ORIGINAL

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
1	0630							Called out - Discuss Job w/ customer on location w/ F.E. Rig Laying down Kelly.
	1130							Start 5/2 14" pipe
	1230							1st IT. Shoe IT w/ Float shoe + Baffle in first collar.
								cont. 1-2-4-6-8-10-56-88
								Basket 56th IT.
								DV-56th IT 1457
	1400							Pipe on Bottom
	1415							CIR w/ mud Hog. + Recip. Pipe
	1452	5	20			200		Pump 20 BBLs CIA CIR IT w/
		5	7			200		Pump 7 BBLs super flush
		5	3			200		Pump 3 BBLs water spacer
						200		mix 125SKs mid con L 20%CC 5FG.1 1/8"
								1 flocele/sk; 3/10 H.322 mit @ 13.8#/96"
		6	36.0			-0"		Fin mix
								washout Pump Line
	1519	8				200		Release Plug. + Disp. cap. 88 BBLs
								Pump 45 water + 45 mud.
								PSI climbs
	1526					1000		Plugs Lands Release OK.
								Drop opening Part for DV. 1457
	1540							open DV - CIR w/ mud Hog.
								CIR 4 hrs.
	1945					200		St mix 210SKs mid con IT w/ 20%CC
								3/8" flocele sk.
	2008		120			0"		Fin mix
								Release Plug.
						200		Start Disp. cap. 34.6 BBLs
						1500		Fin Disp.
	2014					1500		Plug Lands Close DV TOOL
								Release PSI OK.
								Wash up equip.
								Rack up equip.
								finish paper work.
	2130							Job complete

RECEIVED
2-2-1998
FEB 9 1998

[Handwritten signatures and notes]
Thanks Allen, Craig, Lyle