

JUL 02 1991 SIDE TWO

Operator Name American Exploration Co. Lease Name HCU Well # 3121-B

~~FROM CONFIDENTIAL~~

Sec. 31 Twp. 22 SRge. 41 East West County Hamilton

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.)

Formation Description		
Name	Top	Bottom
Stone Corral Anhy.	---	2128 (+1402)
Winfield	2572 (+958)	
Ft. Riley	2672 (+858)	

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	20#	361	Class H	350	2% CaCl
Production	7-7/8	4-1/2	9.5#	2729	BS LT WE	600	6% gel
					Class H	200	3% D-60, 1/4# sx. D-29

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2 SPF	2576-78 & 2582-96	18,500 gal. THIX wtr. + 12/20 Brady 5,000# 12/20 ACFRAC 8,000 gal. pad additives, 35000# 12/20 Brady Sd.	

TUBING RECORD Size 2-3/8 Set At 2558 Packer At 2533 Liner Run Yes No

Date of First Production SI WPLC Producing Method Flowing Pumping Gas Lift Other (Explain)

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

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____

Production Interval _____

CASING & CEMENTING REPORT

CONFIDENTIAL

Well Name 31-21-B
Casing Surface 8 5/8

Location N.W. 1/4 31-225 41-W
Date 4-20-90

Jts. On	m On	Size	Wt.					Jts. Depth	m Run
Locat.	Locat.	mm	kg/m	Cr.	Rge.	THD	T&C	Make	In Well
9					2	10		8	360 m
									m
									m
									m

Shoe Make D.S. Type Texas Length 1.0 m
 Collar Make _____ Type _____ Length _____ m
 Landing Jt. (When Used): Length _____ m
 Overall Length of Casing String _____ m
 m Up From K.B. (subtract) _____ m
 Setting Depth By Driller _____ m By Tally _____ m

1.0
15.00
364.88
- 4.00
360.88

CENTRALIZERS

SCRATCHERS

Make & No. D.S.
 Position 1-2-5
 Remarks (Thread Lock, Weld, MIT) Bottom

Make & No. ~~1-2-5~~ ~~A-3~~ 3
 Position _____
 Remarks _____

Hole Size 12 1/4 mm Casing In Hole Size _____ mm
 Depth 365 m Setting Depth _____ m
 Mud Type FR-25 G-1 Wt. _____ kg/m Visc. _____ S/LWL _____ cm
 BOP's _____
 Power Tong Co _____ Torque Max. _____ Min. _____
 Casing String Wt. 7300 daN Remarks _____

Cementing Co. Dennell Operator C.R.C.

TYPES & QUANTITIES OF CEMENT

Date 4-20-90

Filler Volume Amount 350 m³ Type CLASS H Wt. 15.6 kg/m³
 Additives 2% CMC + 1/4 #136
 Tail In Volume Amount _____ m³ Type _____ Wt. _____ kg/m³
 Additives _____
 HT. Cemented Surface Water Ahead 10 Bags m³ Start Mix 0542 m³
 Finish Mix 0553 m³ Pumping Press 150 kPa Bump Press 830 PSI kPa
 Float Held Baffle Plate - Closed in Cement Returns YES m³
 Plug Down 6604 Head Date 4-20-90
 Wt. Landed in Slips _____ daN Make of Bowl _____
 Size _____ mm Series _____ Slip & Seal Esembly _____
 Remarks (Wellhead - Make, Type, Size)

RELEASED

Co. Rep. HAK

JUL 02 1991

FROM CONFIDENTIAL

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

15-075-20448-0000

CONFIDENTIAL

OILFIELD SERVICES
INDUSTRIAL SERVICES

DSI SERVICE ORDER RECEIPT AND INVOICE NO.
03-12-2532

DSI SERVICE LOCATION NAME AND NUMBER
11433ES KS 03-12

CUSTOMER NUMBER CUSTOMER P.O. NUMBER TYPE SERVICE CODE BUSINESS CODES

CUSTOMER'S NAME

AMERICAN EXPLORATION

ADDRESS

CITY, STATE AND ZIP CODE

DSI will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS or DSI INDUSTRIAL SERVICE CONTRACT NO. _____ in accordance with the terms and conditions as printed on the reverse side of this form.

Cont 364' 8518 Surf w/ 350 SKS 11+ 20% Calc + V4132 129

WORKOVER NEW WELL OTHER API OR IC NUMBER

ARRIVE LOCATION MO. DAY YR. TIME
4 19 90 2215

SERVICE ORDER RECEIPT
I certify that the materials and services listed were authorized and received and all services performed in a workmanlike manner and that I have the authority to accept and execute this document.

JOB COMPLETION MO. DAY YR. TIME
4 20 90 0600

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
X Hall

STATE CODE COUNTY / PARISH CODE CITY
Kansas Hamilton

WELL NAME AND NUMBER / JOB SITE LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA
HCU 3121-B Sec 31-223-41W 155

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
059200-002	Mileage chg	Mi	64	240	153.60
048209-000	Pump Chg 0-300'	EA	1	433.00	433.00
048209-001	ADDITIONAL FOOTAGE 300-364	FT	64	.41	26.24
049102-000	DELIVERY chg 33,646' + 164m	CU/M	1077	.80	861.60
049100-000	SERVICE chg	FT	363	1.08	392.04
059697-000	FACE	EA	1	110.00	110.00
040015-000	CLASS A	EA	350	6.85	2397.50
067005-100	CALC	LB	658	31.32	210.56
044003-025	129 CELLULOSE FLAKE	LB	88	1.52	133.76
050001-085	TEXAS HATBEN SHOE	EA	1	200.00	200.00
056015-085	GAFFLE PLATE	EA	1	70.00	70.00
056011-085	CENTRALIZERS	EA	2	68.00	136.00
048501-085	TOP WOOD Plug	EA	1	86.00	86.00

JUL 02 1991

FROM CONFIDENTIAL

Thanks for using DSI

FIELD ESTIMATE # 5197 10 SUB TOTAL

REMARKS: TICKET SUBJECT TO DISCOUNT

LICENSE/REIMBURSEMENT FEE

STATE COUNTY CITY % TAX ON \$

SIGNATURE OF DSI REPRESENTATIVE TOTAL \$

CEMENTING SERVICE REPORT



15-075-20448-0000

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 15-075-20448-0000	DATE
STAGE DS	DISTRICT K3

WELL NAME AND NO. 400 3121-B	LOCATION (LEGAL) SEC 31-225-41W	RIG NAME: CHEYENNE #5
FIELD-POOL	FORMATION	WELL DATA: BIT SIZE 12 1/4 CSG/Liner Size 8 7/8
COUNTY/PARISH Hamilton	STATE Kansas	API. NO.
NAME AMERICAN EXPLORATION	TOTAL	
AND CONFIDENTIAL	MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 43.72	
ADDRESS	MUD VISC. Disp. Capacity 320.16	
ZIP CODE	NOTE: Include Footage From Ground Level To Head In Disp. Capacity	

SPECIAL INSTRUCTIONS	Float TYPE Baffle DEPTH 320.16	Stage Tool TYPE DEPTH
IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO	Head & Plugs <input type="checkbox"/> TBG <input type="checkbox"/> D.P. <input checked="" type="checkbox"/> SQUEEZE JOB	TOOL TYPE DEPTH
LIFT PRESSURE 150 PSI CASING WEIGHT + SURFACE AREA (3.14 x R ²)	<input checked="" type="checkbox"/> Single <input type="checkbox"/> WEIGHT	TAIL PIPE: SIZE DEPTH
PRESSURE LIMIT PSI BUMP PLUG TO 830 PSI	<input type="checkbox"/> Swage <input type="checkbox"/> GRADE	TUBING VOLUME Bbls
ROTATE RPM RECIPROCATE FT No. of Centralizers 2	<input type="checkbox"/> Knockoff <input type="checkbox"/> THREAD	CASING VOL. BELOW TOOL Bbls
	<input type="checkbox"/> TOP <input checked="" type="checkbox"/> NEW <input type="checkbox"/> USED	TOTAL Bbls
	<input type="checkbox"/> BOT <input type="checkbox"/> DEPTH	ANNUAL VOLUME Bbls

ARRIVE ON LOCATION TIME: 2:25 DATE: 3-17-70	LEFT LOCATION TIME: 6:10 DATE: 3-22-70
---	--

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR TIME: 2:30 DATE: 3-17-70			SERVICE LOG DETAIL		
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY			
0530								PRE-JOB SAFETY MEETING		
0535	1500							PRESSURE TEST LINES		
0538	150	10			3	F/160	8.33	START F/160 AHEAD		
0542	150	74	10		6	CM	15.6	F/160 PUMPED START CEMENT		
0553			84					CEMENT PUMPED STOP CM		
0555			84					DROP TOP PLUG		
0555		20	84	3				START DISPLACEMENT		
0558			94	2				SLOW RATE		
0600			99	1				SLOW RATE		
0604	100		104	1				BUMP PLUG		
0605	830							BIRED PRESSURE DOWN + CLOSE IN HEAD MANIFOLD		

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	350	1.18	CLASS H + 2% Si + 1/4" / SK 15 27				74	13.6
2.								
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX. MIN:
<input type="checkbox"/> HESITATION SO.	(J) RUNNING SO.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
BREAKDOWN PSI FINAL	PSI	DISPLACEMENT VOL. Bbls	TYPE OF WELL <input type="checkbox"/> OIL <input type="checkbox"/> STORAGE <input type="checkbox"/> BRINE WATER	<input type="checkbox"/> GAS <input type="checkbox"/> INJECTION <input type="checkbox"/> WILDCAT
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT. MEASURED DISPLACEMENT <input checked="" type="checkbox"/>	<input type="checkbox"/> WIRELINE	
PERFORMATIONS	CUSTOMER REPRESENTATIVE HARRIS		DS SUPERVISOR GARY SCHUMBERG	

CASING & CEMENTING REPORT **CONFIDENTIAL**

Well Name 3121-B H.C.U. Location _____
Casing PRODUCTION Date 4-22-90

Jts. On	m On	Size	Wt.						Jts	Depth	m	Run
Locat.	Locat.	mm	kg/m	Cr.	Rqe.	THD	T&C	Make	Run	Landed	In Well	
65	2933.24	4 1/2	9.5	265	3	812	STTC		60	2729		2731.74

Shoe Make GEMOLD Type REGULAR Length .8 m
 Collar Make GEMOLD Type AUTOFILL Length .8 m
 Landing Jt. (When Used) Length NA m
 Overall Length of Casing String 2731.74 m
 m Up From K.B. (subtract) 2.80 m
 Setting Depth By Driller 2729 m By Tally 2729.84 m

CENTRALIZERS

SCRATCHERS

Make & No. GEMOLD 10
 Position 2694-2426 & 1843-1383
 Remarks (Thread Lock, Weld, Mill) _____

Make & No. _____
 Position _____
 Remarks _____

Hole Size 7 7/8 mm Casing In Hole Size 4 1/2 mm
 Depth 2730 m Setting Depth 2729 m
 Mud Type STARCH Wt. 9.6 kg/m Visc. 39 S/LWL 9.9 cm
 BOP's ANNULAR
 Power Tong Co FRANCIS Torque Max. 1020 Min. 1000
 Casing String Wt. 26000 daN Remarks _____

Cementing Co. DOWELL-SCHLUMBERGER Operator JOHN ARNOLD

TYPES & QUANTITIES OF CEMENT

Date 4-22-90

Filler Volume Amount 6005 Kg m³ Type 35/65 Poz Wt. 12.2 kg/m³
 Additives 6% GEL 1/2# SK-D-29
 Tail In Volume Amount 200 Kg m³ Type H Wt. 15.6 kg/m³
 Additives .3% D60 1/2# SK-D-29
 HT. Cemented _____ Water Ahead 10 BBLs m³ Start Mix _____ m³
 Finish Mix _____ m³ Pumping Press 800 kPa Bump Press 1400 kPa
 Float Held YES Cement Returns FULL m³
 Plug Down 11:15 AM Date 4-22-90
 Wt. Landed in Slips 26000 daN Make of Bowl _____
 Size _____ mm Series _____ Slip & Seal Esembly _____
 Remarks (Wellhead - Make, Type, Size) _____
RIR. 5 BBL cm to PIT. Bumped plug to 1400#

RELEASED

Co. Rep. John G. Hamre

JUL 02 1991

FROM CONFIDENTIAL

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

ORIGINAL
15-075-20448-0000

CONFIDENTIAL

OILFIELD SERVICES
INDUSTRIAL SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.
0312-2537

DSI SERVICE LOCATION NAME AND NUMBER
Ulysses, KS

CUSTOMER NUMBER ~~AMERICAN EX.~~ CUSTOMER P.O. NUMBER TYPE SERVICE CODE BUSINESS CODES

CUSTOMER'S NAME **AMERICAN EXPLORATION**

WORKOVER NEW WELL OTHER API OR IC NUMBER

ADDRESS
CITY, STATE AND ZIP CODE

ARRIVE LOCATION MO. DAY YR. TIME
4 22 90 0800

DSI will furnish and Customer shall purchase materials and services required in the performance of the following SERVICE INSTRUCTIONS or DSI INDUSTRIAL SERVICE CONTRACT NO. _____ in accordance with the terms and conditions as printed on the reverse side of this form.

SERVICE ORDER RECEIPT
I certify that the materials and services listed were authorized and received and all services performed in a workmanlike manner and that I have the authority to accept and execute this document.

EQUIPMENT and MATERIALS TO SET 4 1/2" PRODUCTION CASING

JOB COMPLETION MO. DAY YR. TIME
4 22 90 1113

STATE **KS** CODE COUNTY/PARISH **HAMILTON** CODE CITY

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
John 2 Arnold

WELL NAME AND NUMBER / JOB SITE **3121B-HBU** LOCATION AND POOL / PLANT ADDRESS **SEC-31-225-41W** SHIPPED VIA **D.S.**

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
059200-002	mileage	mi	60	2.40	148.80
048215-000	EQUIPMENT CHG.	EA	1	1026.00	1026.00
049102-000	Delivery CHG.	T.M.	2294	0.80	1835.20
049100-000	SERVICE CHG.	FT3	852	1.08	920.38
059697-000	PALR	EA	1	110.00	110.00
040003-000	CLASS 2	SX	390	7.00	2730.00
040015-000	CLASS 2 1/2	SX	200	6.85	1370.00
045008-000	POZ	SX	210	2.30	483.00
045014-050	P20 Bentonite	lb	3132	0.13	407.16
044003-025	Cellophane Flake D29	lb	200	1.37	274.00
04402-050	FLAC D60	lb	56	6.70	375.20
050101-044	Guide Shoes	EA	1	105.00	105.00
051102-044	Fleet Collar	EA	1	220.00	220.00
056011-044	Centralizers	EA	10	48.00	480.00
056904-044	Top Rubber Plug	EA	1	70.00	70.00

RECEIPT

RELEASED
JUL 02 1991

FROM CONFIDENTIAL

FIELD ESTIMATE = 10554.74

SUB TOTAL

LICENSE/REIMBURSEMENT FEE

REMARKS: THANKS FOR USING D.S. !!!

STATE % TAX ON \$
COUNTY % TAX ON \$
CITY % TAX ON \$
SIGNATURE OF DSI REPRESENTATIVE *John 2 Arnold* TOTAL \$

Price Subject to Discount 22%

CEMENTING SERVICE REPORT



15-075-2048-0000

TREATMENT NUMBER: 8312-2537 DATE: 4/22/90
 STAGE: 1 DS DISTRICT: 215 Sec, KS

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO.: 31213-HCU LOCATION (LEGAL): Sec 31-225-914
 FIELD-POOL: HUBBARD FORMATION:
 COUNTY/PARISH: HAMILTON STATE: KS API. NO.:
 NAME: AMERICAN Exploration
 AND: **CONFIDENTIAL**
 ADDRESS:
 ZIP CODE:

RIG NAME: Cheyenne #5
 WELL DATA: BIT SIZE: 4 1/2 CSG/Liner Size: 4 1/2
 TOTAL DEPTH: 95 WEIGHT: 95
 ROT CABLE FOOTAGE: 2731.74
 MUD TYPE: GRADE:
 BHST. BHCT THREAD: 8RC
 MUD DENSITY: LESS FOOTAGE SHOE JOINT(S): 2692.69 TOTAL
 MUD VISC. Disp. Capacity: 43.7
 (NOTE: Include Footage From Ground Level To Head In Disp. Capacity)

SPECIAL INSTRUCTIONS: SET 4 1/2" production casing
 IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE: 1631 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²):
 PRESSURE LIMIT: 3000 PSI BUMP PLUG TO: 500 602V PSI
 ROTATE: RPM: RECIPROCATE: FT: No. of Centralizers: 10

SHOE POINT: TYPE: COLLAR DEPTH: 2692.69
 TYPE: CMT DEPTH: 2731.74
 Head & Plugs: TBG D.P. SQUEEZE JOB
 Double SIZE: WEIGHT: TOOL TYPE: DEPTH:
 Single GRADE: TAIL PIPE: SIZE DEPTH:
 Swage THREAD: TUBING VOLUME Bbls
 Knockoff NEW USED CASING VOL. BELOW TOOL Bbls
 TOP OW DEPTH: TOTAL Bbls
 BOT OW ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME: 0800 DATE: 4/22/90 ARRIVE ON LOCATION TIME: 0800 DATE: 4/22/90 LEFT LOCATION TIME: 1200 DATE: 4/22/90

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0001 to 2400								PRE-JOB SAFETY MEETING
1005	1700	-	-	-	-	-	-	P-Test 1200
1007	170	240	0	7 1/2	cmt	12.4		START lead
1045	50	42	240	4-5	cmt	15.6		START Tail
1054	0	43.7	282	-	H2O	8.33		SHUT DOWN / Drop plug / WASH UP
1059	50	43.7	282	5	H2O	8.33		START Displacement
1106	460	-	325.7	2	H2O	8.33		Lower RATE
1113	1760	-	325.7	-	H2O	8.33		Bump plug / Bleed off
1113								End Job

RELEASED
 JUL 02 1991

FROM CONFIDENTIAL

REMARKS:

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
			BBLs	DENSITY		
1.	400	1.97	35/65 (P06/W) + 6% D20 + 1/4 #/sk D29	200.5	12.4	
2.	200	1.18	"H" + 0.3% D60 + 1/4 #/sk D29	42	15.6	
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE: HESITATION SO. RUNNING SO. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO 10 Bbls
 BREAKDOWN: PSI: FINAL: PSI: DISPLACEMENT VOL.: 43.7 Bbls
 Washed Thru Perls: YES NO TO: FT. MEASURED DISPLACEMENT: WIRELINE
 PERFORATIONS: TO: TO: CUSTOMER REPRESENTATIVE: John S. Hanna DS SUPERVISOR: John J. Arnold

15-075-20448-0000
 REMIT TO: P O BOX 201556
 HOUSTON TX 77216

INVOICE

CONFIDENTIAL

18796
 AMERICAN EXPLORATION

BOX 742
 SYRACUSE KS 67878

INVOICE DATE	04/22/90
INVOICE NUMBER	03-12-2537
TYPE SERVICE	
CEMENTING CEMENT PRODUCTIO	

PAGE	1
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WELL NAME / JOB SITE	STATE	COUNTY / CITY	SERVICE FROM LOCATION	SHIPPED VIA	CUSTOMER P.O. NO./REF
3121B HBW	KS	HAMILTON	ULYSSES KS	DS	
LOCATION / PLANT ADDRESS			DATE OF SERVICE ORDER	CUSTOMER OR AUTHORIZED REPRESENTATIVE	
SEC 31-225-41W			04/22/90	JOHN HANNA	

ITEM CODE	DESCRIPTION	UOM	QTY	UNIT PRICE	AMOUNT
059200002	MILEAGE, ALL OTHER EQUIPMENT	MI	62	2.4000	148.80
048215000	CASING CENTR 2500-2999 FT.	BHR	1	1,026.0000	1,026.00
049102000	TRANSPORTATION CMNT TON MILE	MI	2306	.8000	1,844.80
049100000	SERVICE CHG CEMENT MATL LAND	CFT	852	1.0800	920.16
059697000	PACR TREAT ANALYSIS RECORDER	JOB	1	110.0000	110.00
040003000	D903, CEMENT CLASS C	CFT	390	7.0000	2,730.00
040015000	D909, CEMENT CLASS H	CFT	200	6.8500	1,370.00
045008000	D35, LITEPOZ 3 EXTENDER	CFT	210	2.3000	483.00
045014050	D20, BENTONITE EXTENDER	LBS	3132	.1300	407.16
044003025	D29, CELLOPHANE FLAKES	LBS	200	1.3700	274.00
044002050	D60, FLAC FLUID LOSS ADDITIV	LBS	56	6.7000	375.20
050101044	SHOE CEM TYPE GUIDE 4-1/2"	EA	1	105.0000	105.00
051102044	COLLAR BALL FLT CEM 4-1/2"	EA	1	220.0000	220.00
056011044	CENTR REG 4-1/2, B DIA 7-3/4"	EA	10	40.0000	400.00
056704044	PLUG CEMG 4-1/2" TOP AL CORE	EA	1	70.0000	70.00
	DISCOUNT - MATERIAL				2,410.30-
	DISCOUNT - SERVICE				1,498.42-
				SUB TOTAL --	6,655.40
N C	STATE TAX ON			4,104.05	174.42
				AMOUNT DUE --	6,829.82

RELEASED

JUL 02 1990

FROM CONFIDENTIAL



WITH QUESTIONS CALL 316-356-1272
 FEDERAL TAX ID # 38-239-7173
 TERMS -- NET 30 DAYS DUE ON OR BEFORE MAY 22, 1990

THANK YOU. WE APPRECIATE YOUR BUSINESS.

Gary A. Kilstad
 G A KILSTAD

INVOICE

REMIT TO: P O BOX 201556
HOUSTON TX 77216

15-075-20448-0000

INVOICE DATE	04/20/90
INVOICE NUMBER	03-12-2532
PAGE 1	
TYPE SERVICE	
CEMENTING CEMENT SURFACE C	

CONFIDENTIAL

918796
AMERICAN EXPLORATION

BOX 742
SYRACUSE KS 67878

WELL NAME / JOB SITE	STATE	COUNTY / CITY	SERVICE FROM LOCATION	SHIPPED VIA	CUSTOMER P.O. NO./REF
HCU 3121 B	KS	HAMILTON	ULYSSES KS	DS	
LOCATION / PLANT ADDRESS	DATE OF SERVICE ORDER	CUSTOMER OR AUTHORIZED REPRESENTATIVE			
SEC 31-22S-41W	04/19/90	HAWK			

ITEM CODE	DESCRIPTION	UOM	QTY	UNIT PRICE	AMOUNT
059200002	MILEAGE, ALL OTHER EQUIPMENT	MI	64	2.4000	153.60
048209000	0-1500' CASING CEMENTER	8HR	1	433.0000	433.00
048209001	ADD'L PER FT BELOW 300'	FT	64	.4100	26.24
049102000	TRANSPORTATION CHRT TON MILE	MI	1077	.8000	861.60
049100000	SERVICE CHG CEMENT MATL LAND	CFT	363	1.0800	392.04
059697000	PACR TREAT ANALYSIS RECORDER	JOB	1	110.0000	110.00
040015000	D909, CEMENT CLASS H	CFT	350	6.8500	2,397.50
067005100	S1, CALCIUM CHLORIDE	LBS	658	.3200	210.56
044003025	D29, CELLOPHANE FLAKES	LBS	88	1.3700	120.56
050001085	SHOE REG PTTN GUIDE 8-5/8"	EA	1	200.0000	200.00
056015085	PLATE BAFFLE AL 8-5/8"	EA	1	70.0000	70.00
056011085	CENTR REG 8-5/8, B DIA 12"	EA	2	68.0000	136.00
048501085	PLUG CENG 8-5/8" WOODEN BODY	EA	1	86.0000	86.00
	DISCOUNT - MATERIAL				998.39-
	DISCOUNT - SERVICE				612.71-

SUB TOTAL -- 3,586.00

H C STATE TAX ON 2,222.23 94.44

AMOUNT DUE -- 3,680.44

RELEASED

JUL 0 2 1991

FROM CONFIDENTIAL

*SURFACE
CEMENT*

[Handwritten signature]

WITH QUESTIONS CALL 316-356-1272
FEDERAL TAX ID # 38-239-7173
TERMS -- NET 30 DAYS DUE ON OR BEFORE MAY 20, 1990

THANK YOU. WE APPRECIATE YOUR BUSINESS.

Gary A. Rolstad
G A ROLSTAD