

SIDE ONE

SEP 07 1991

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

API NO. 15- 075-20,441-0000
County Hamilton FROM CONFIDENTIAL

C SW/4 Sec. 14 Twp. 24 Rge. 41 xx East West

1320 Ft. North from Southeast Corner of Section
3960 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name HCU Well # 1441-C

Field Name Bradshaw

Producing Formation Winfield

Elevation: Ground 3261 KB _____

Total Depth 2468 PBDT 2408

Operator: License # 04680
Name: American Exploration Company
Address 2100 NCNB Center
700 Louisiana
City/State/Zip Houston, Texas 77002
Purchaser: KN Energy
Operator Contact Person: Marty B. McClanahan
Phone (713) 220-8251

Contractor: Name: Cheyenne Drilling Co.

License: 05382

Wellsite Geologist: Ron Osterbuhr

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas S.I. Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OMAO: old well info as follows:
Operator: _____

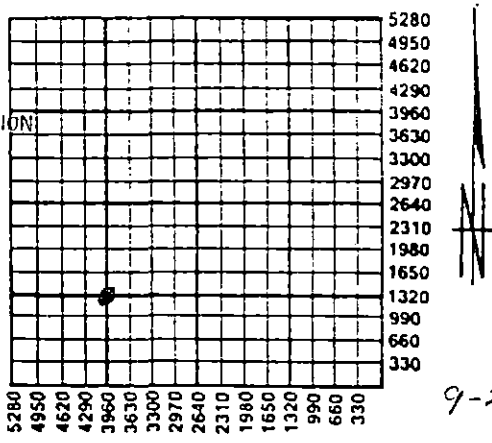
Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable

6/01/90 6/04/90 6/23/90
Spud Date Date Reached TD Completion Date

RECEIVED
STATE CORPORATION COMMISSION
9-14-90
SEP 4 1991
CONSERVATION DIVISION
Wichita, Kansas



Amount of Surface Pipe Set and Cemented at 346 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2468

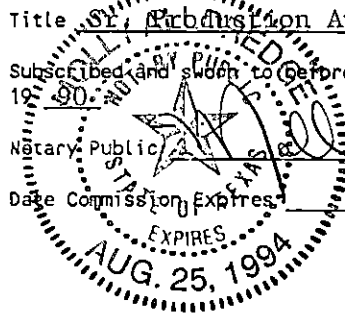
feet depth to Surface w/ 1080-850 sx cmt.

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 Marty B. McClanahan
Title Production Analyst Date 9/12/90

Subscribed and sworn to before me this 12th day of September,
1990.
Notary Public: [Signature]
Date Commission Expires: _____



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)

PI

SIDE TWO

Operator Name American Exploration Company Lease Name HCU Well # 1441-C

Sec. 14 Twp. 24 Rge. 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 tests. Attach extra sheet if more space is needed. Attach copy of log.

RELEASED

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 SEP 07 1991

Log Sample FROM CONFIDENTIAL

Name	Top	Bottom
Stone Corral Anhy.	----	1823 (+1449)
Winfield	2312 (+960)	
Ft. Riley	2406 (+866)	

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#	358	DSLW	130	3% CC, 1/4#D29 6%gel
					Class H	100	3% CC, 1/4#sx D29
Production	7-7/8	4-1/2	9.5	2468	35/65 Poz	650	3% cc, 1/4#sx D29
					Class H	200	6% gel

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
Shots Per Foot	Specify Footage of Each Interval Perforated	Depth	
4 SPF	2312-16 & 2320-30		1000 gals. 15% HCL acid
			8000 gals. pad, 35,000# sand

TUBING RECORD				Liner Run
Size	Set At	Packer At		<input type="checkbox"/> Yes <input type="checkbox"/> No
2-3/8	2326	2326		

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 _____

ORIGINAL

CONFIDENTIAL

CASING & CEMENTING REPORT

41-4

Well Name 14-41-C Location SW/4 Sec 14 24-5
Casing 4 1/2 H-50 Date 6-5-90

Jts. On	m On	Size	Wt.	Cr.	Rge.	THD	T&C	Make	Jts. Run	Depth Landed	m Run In Well
60		41	95		3	8	S.C.	MS	59	2478	2478.44
		2									

Shoe Make Genco Type Reg Length 1.00 m
 Collar Make Genco Type INSCT 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 2468 m By Tally 2468.44 m

CENTRALIZERS

SCRATCHERS

Make & No. Genco Make & No. NOV 2
 Position 1-3-5-7-14-21-23-24 Position _____
 Remarks (Thread Lock, Weld, Mill) 26-27-24-31 3071013

Hole Size 7 7/8 mm Casing In Hole Size 8 5/8 mm
 Depth 2468 m Setting Depth 358 m
 Mud Type SF9BCH Wt. 8.4 kg/m³ Visc. 40 S/LWL 8.0 cm³
 BOP's GMV019R
 Power Tong Co FRAPCO Torque Max. 1650 Min. 1000 daN
 Casing String Wt. 23475 daN Remarks _____

Cementing Co. D.S. Operator Doog

TYPES & QUANTITIES OF CEMENT

Date _____

Filler Volume Amount 650 m³ Type 35/15 P02/C Wt. 12.6 kg/m³
 Additives 690 G-21-370 CC 1/4# D-29
 Tail In Volume Amount 200 m³ Type 14 Wt. 15.5 kg/m³
 Additives 370 CIL 1/4# 17-29
 HT. Cemented SURFACE Water Ahead 1013126 m³ Start Mix 8:41 A.M. m³
 Finish Mix 7:30 A.M. m³ Pumping Press 250 kPa Bump Press 1600 kPa
 Float Held YES Cement Returns YES m³
 Plug Down 17:44 A.M. Date 6-4-90
 Wt. Landed in Slips 10,000 daN Make of Bowl _____
 Size _____ mm Series _____ Slip & Seal Esembly _____

REMARKS (Wellhead - Make, Type, Size)

SEP 07 1991

FROM CONFIDENTIAL

Co. Rep. HAWK

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

SPECIAL HANDLING

ORIGINAL
CONFIDENTIAL

OILFIELD SERVICES
INDUSTRIAL SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO. **03-12-2659**

DSI SERVICE LOCATION NAME AND NUMBER
Wyers, Kc. C3-12

CUSTOMER NUMBER _____ CUSTOMER P.O. NUMBER _____ TYPE SERVICE CODE **285** BUSINESS CODES _____

CUSTOMER'S NAME **American Exploration**

WORKOVER NEW WELL OTHER W N API OR IC NUMBER _____

ADDRESS _____
CITY, STATE AND ZIP CODE _____

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS
ARRIVE MO. DAY YR. TIME
LOCATION **6 4 90 0040**

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.

Provide Equipment & Materials Necessary to Safely Cement 4 1/2" Casing.

JOB COMPLETION MO. DAY YR. TIME
6 4 90 0845

STATE **Kansas** CODE **015** COUNTY / PARISH **Hamilton** CODE **075** CITY _____

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
[Signature]

WELL NAME AND NUMBER / JOB SITE **HCU 1411-C** LOCATION AND POOL / PLANT ADDRESS **Sec 14 T245 B41W** SHIPPED VIA **Dowell Schlumberger**

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048254-000	Pump Truck Charge	ea	1	1000.00	1000.00
049102-000	Delivery Charge	TM	2220	0.80	1776.00
049100-000	Service Charge	cu Ft	941	1.08	1016.28
054697-000	PACR Charge	ea	1	110.00	110.00
059200-002	Mileage Charge	mi	55	2.40	132.00
048600-000	Casing Swivel Rental	ea	1	205.00	205.00
040003-000	D903, Class C Cement	cu Ft	423	7.00	2961.00
040015-000	D909, Class H Cement	cu Ft	200	6.85	1370.00
045008-000	D35, Linpac 2 3	cu Ft	227	2.30	522.10
045014-050	D20, Bentonite Extender	lb	3394	0.13	441.22
067005-100	SJ, Calcium Chloride	lb	1697	0.32	543.04
044003-025	D29, Cellophane Flakes	lb	213	1.37	291.81
044002-050	D60, Fluid Loss Additive	lb	56	6.70	375.20
050002-044	4 1/2 Aluminum Cement Nose Guide Shoe	ea	1	135.00	135.00
051004-044	4 1/2 Flapper Float Collar	ea	1	225.00	225.00
056011-044	4 1/2 Centralizers	ea	4	48.00	192.00
056711-044	4 1/2 Turbolizers	ea	8	50.00	400.00
056704-044	4 1/2 Top Rubber Plug	ea	1	70.00	70.00
056019-044	4 1/2 Top Ring	ea	1	14.00	14.00
057499-001	K232, Thread Lock Kit	ea	1	22.00	22.00
101094-000	J433, Water Control	lb	43	1.77	76.11

Field Estimate = ~~\$11,877.76~~ **\$11,877.76**

SUB TOTAL **RELEASED**

LICENSE/REIMBURSEMENT FEE _____

SEP 07 1991

REMARKS: **Thanks For Using DSI!** STATE _____ % TAX ON \$ _____
COUNTY _____ % TAX ON \$ _____
CITY _____ % TAX ON \$ _____

FROM CONFIDENTIAL

SIGNATURE OF DSI REPRESENTATIVE **Louie E. Harmed** TOTAL \$ _____

CEMENTING SERVICE REPORT

CONFIDENTIAL ORIGINAL

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER: 03-12-2659 DATE: 6-4-90
 STAGE: DS DISTRICT: 11145005, KS

WELL NAME AND NO.: HCU 1441C LOCATION (LEGAL): Sec 14 T24S R41W
 FIELD-POOL: Bradshaw FORMATION:
 COUNTY/PARISH: Hamilton STATE: Kansas APL. NO.:

RIG NAME: Cheyenne Rig #5
 WELL DATA: BIT SIZE: 7 7/8 CSG/Liner Size: 4 1/2
 TOTAL DEPTH: 2468 WEIGHT: 9.5
 ROT CABLE: FOOTAGE: 247.44
 MUD TYPE: GRADE: MUD DENSITY: 112.44
 MUD VISC.: Disp. Capacity: 2429

NAME: American Exploration AND:
 ADDRESS: ZIP CODE:

SPECIAL INSTRUCTIONS:
 Float TYPE: Flapped Float DEPTH: 2425.56
 Shoe TYPE: Alum Coat Guide DEPTH: 2468

IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE: 1600 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT: PSI BUMP PLUG TO: 500 CYCL PSI
 ROTATE: RPM RECIPROCATATE FT No. of Centralizers: 12

JOB SCHEDULED FOR TIME: 0100 DATE: 6/4 ARRIVE ON LOCATION TIME: 0040 DATE: 6/4 LEFT LOCATION TIME: 0120 DATE: 6/4

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
0631	NA							PRE-JOB SAFETY MEETING
0639		280	10	-	5.0	Water	8.6	Begin Pumping Polymer & Water
0641		290	210	10	5.9	Water	12.4	Begin Mixing Lead Cement
0717		80	39	210	4.1	Water	15.6	Begin Mixing Tail Cement
0730		0	-	255	0	-	-	Shut Down, Wash Line, Drop Plug
0733		240	29	-	5.8	Water	8.34	Begin Displacement
0740		1600	10 1/2	29	2.0	Water	8.34	Lower Rate
0744		1260	-	39	0	-	-	Bump Plug Shut Down
0745		0	-	-	0	-	-	Place CFF Pressure - Float Held
0746		-	-	-	-	-	-	End Job

RELEASED
 SFP 0.7 1991

FROM CONFIDENTIAL

REMARKS: * Note: Also pumped 10 Bbl water ahead of Polymer

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	650	2.0	35% Fozz + 6% DPO + 3% CI + 1/4 16/6k D29				231.5	12.4
2.								
3.	200	1.18	Class H + 0.3% D60 + 1/4 16/6k D29				42.0	15.6
4.								
5.								
6.								

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. CIRCULATION LOST: YES NO
 BREAKDOWN: PSI FINAL PSI DISPLACEMENT VOL: 39.4 Bbls
 Washed Thru Perfs: YES NO TO FT. MEASURED DISPLACEMENT: X WIRELINE
 TYPE OF WELL: OIL GAS STORAGE INJECTION BRINE WATER WILDCAT
 PERFORATIONS: TO TO CUSTOMER REPRESENTATIVE: Hawk-Dennis SUPERVISOR: Louis E. Harrod

ORIGINAL CONFIDENTIAL

CASING & CEMENTING REPORT

41-4

Well Name H.C.U. 14-41-C Location SW 1/4 Sec 15 24S
 Casing 8 9/16 Date 6-2-90

Jts. On	m On	Size	Wt.	Cr.	Rge.	THD	T&C	Make	Jts. Depth	m Run
Locat.	Locat.	mm	kg/m						Run Landed	In Well
4		8 9/16	25		3	20	S-TC		8	346.25
										m
										m
										m

Shoe Make GEMCO Type TEXAS Length 1.00 m
 Collar Make GEMCO Type INSERT 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 358 m By Tally 358.25 m

358.25 K.B

CENTRALIZERS SCRATCHERS

Make & No. GEMCO Make & No. _____
 Position 1-3 Position _____
 Remarks (Thread Lock, Weld, Mill) Bottom 3 Callers

Hole Size 12 1/4 mm Casing In Hole Size _____ mm
 Depth 361 m Setting Depth _____ m
 Mud Type FRESH Gel Wt. 8.6 kg/m Visc. 45 S/LWL VC cm
 BOP's N.A.
 Power Tong Co _____ Torque Max. _____ Min. _____
 Casing String Wt. 7200 daN Remarks _____

Cementing Co. Dowell Operator JAMES F

TYPES & QUANTITIES OF CEMENT Date _____

Filler Volume Amount 130 SX m³ Type 95/65 C/P02 Wt. 12.6 kg/m³
 Additives 690 Gel 390 C.C. VUX SX D-29
 Tail In Volume Amount 100 SX m³ Type H Wt. 15.2 kg/m³
 Additives 390 C.C. VUX SX D-29
 HT. Cemented SURFACE Water Ahead 10 B/L m³ Start Mix 2:28 m³
 Finish Mix 2:40 m³ Pumping Press _____ kPa Bump Press 500 kPa
 Float Held YES Cement Returns _____ m³
 Plug Down 2:45 Date 6-2-90 YES
 Wt. Landed in Slips _____ daN Make of Bowl _____
 Size _____ mm Series _____ Slip & Seal Esembly _____
 Remarks (Wellhead - Make, Type, Size)

RELEASED

SEP 07 1991

Co. Rep. HAUER FROM CONFIDENTIAL

DOWELL SCHLUMBERGER INCORPORATED
 P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

CONFIDENTIAL

OILFIELD SERVICES
 INDUSTRIAL SERVICES

DSI SERVICE ORDER
 RECEIPT AND INVOICE NO.
 03-12-21051

DSI SERVICE LOCATION NAME AND NUMBER
 Ulysses Kc 03-12-21051

CUSTOMER NUMBER
 CUSTOMER P.O. NUMBER

TYPE SERVICE CODE
 271
 BUSINESS CODES

CUSTOMER'S NAME
 American Exploration

WORKOVER W
 NEW WELL N
 OTHER O
 API OR IC NUMBER

ADDRESS
 CITY, STATE AND ZIP CODE

IMPORTANT
 SEE OTHER SIDE FOR TERMS & CONDITIONS
 ARRIVE MO. DAY YR. TIME
 LOCATION 5 1 90 1700

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.

Provide Equipment & Materials Necessary to
 Safety Cement 8 5/8" Casing

JOB COMPLETION MO. DAY YR. TIME
 5 2 90

STATE CODE COUNTY / PARISH CODE CITY
 Kansas 015 Hamilton

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
 X

WELL NAME AND NUMBER / JOB SITE LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA
 HCU # 14 41 C For 14-24s-41a Dowell Schlumberger

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048209-000	Pump Truck Charge 0-1500'	ea	1	433.00	433.00
048209-001	Additional Footage Below 300'	ft	61	0.41	25.01
049102-000	Delivery Charge 22069' x	TM	618	0.80	494.40
049102-000	Service Charge	cu Ft	254	1.08	274.32
059697-000	PAKR	ea	1	110.00	110.00
059200-002	Mileage Charge	mi	56	2.40	134.40
040003-000	D903, Class C Cement	cu Ft	85	7.00	595.00
040015-000	D909, Class M Cement	cu Ft	100	6.85	685.00
045008-000	D35, Litepac 3	cu Ft	4.5	2.30	10.35
045014-050	DR0, Bentinite Extender	lb	679	0.13	88.27
067005-100	5L Calcium Chloride	lb	340	0.32	108.80
044003-025	DR9, cellophane Flake	lb	58	1.37	79.46
050801-085	8 5/8" Ferris Pattern Guide Shoe	ea	1	200.00	200.00
053003-085	4 5/8" Ferris PATT Taper	ea	1	300.00	300.00
056011-085	8 5/8" Adapters	ea	2	68.00	136.00
048501-085	8 5/8" Top Wooden Plug	ea	1	86.00	86.00
057494-001	Threadlock	ea	1	22.00	22.00

RELEASED

Field Estimate = \$ 3575.16

SUB TOTAL
 SEP 07 1991

LICENSE/REIMBURSEMENT FEE

REMARKS: Thanks For Using DSI!

STATE COUNTY CITY

% TAX ON \$ FROM CONFIDENTIAL

SIGNATURE OF DSI REPRESENTATIVE TOTAL \$

Area Black

AFC 89209

CEMENTING SERVICE REPORT

CONFIDENTIAL ORIGINAL

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-2651	DATE 6-1-90
STAGE DS	DISTRICT U/SS66, KS

WELL NAME AND NO. HCU # 14-41 C	LOCATION (LEGAL) Sec. 14-24s-41a	RIG NAME Cheyenne # 5
FIELD POOL Bradshaw	FORMATION	WELL DATA:
COUNTY/PARISH Hamilton	STATE Kansas	API. NO.
NAME American Exploration	AND	ADDRESS
SPECIAL INSTRUCTIONS CMT 8 5/8 casing	ZIP CODE	NOTE: Include Footage From Ground Level To Head In, Disp. Capacity

BIT SIZE 2 1/4	CSG/Liner Size 8 7/8	BOTTOM	TOP
TOTAL DEPTH 361	WEIGHT 90 1/4		
ROT CABLE	FOOTAGE 361		
MUD TYPE fluid	GRADE		
BHST BHCT	THREAD		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	3.8	TOTAL
MUD VISC.	Disp. Capacity	508	

Float	TYPE Oilfield Inset	DEPTH	TYPE	DEPTH
SHOE	TYPE Texas Pattern	DEPTH	TYPE	DEPTH
Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB		
<input type="checkbox"/> Double	SIZE	TOOL	TYPE	
<input checked="" type="checkbox"/> Single	WEIGHT	DEPTH		
<input type="checkbox"/> Swage	GRADE	TAIL PIPE: SIZE DEPTH		
<input type="checkbox"/> Knockoff	THREAD	TUBING VOLUME Bbls		
TOP <input checked="" type="checkbox"/> NEW	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL BELOW TOOL Bbls		
BOT <input type="checkbox"/> NEW	DEPTH	TOTAL Bbls		
ROTATE		ANNUAL VOLUME Bbls		

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	TIME	DATE	TIME	DATE
0001 to 2400											
0019	NA	800									
0205		90	10	-	4.17	H ₂ O	8.34				
0225		160	40		5.8	cmf	12.4				
0234		160	21		5.8	cmf	15.6				
0237					0						
0238		10	91	-	5	H ₂ O	8.34				
0241		110				H ₂ O	8.34				
0244		140			0						
0245		320			0						

RELEASED

SEP 0 7 1991

REMARKS FROM CONFIDENTIAL

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1	130	2.0	35% P ₀₂ /C + 60% D ₂₂ + 3% SI + 1/4 15/16" D ₂₂				410	12.4
2								
3	100	1.18	Class H + 3% SI + 1/4 15/16" D ₂₂				91	15.6
4								
5								
6								

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX.	MIN.
<input type="checkbox"/> HESITATION SO	<input type="checkbox"/> RUNNING SO	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	10 Bbls
BREAKDOWN	PSI	FINAL	PSI	DISPLACEMENT VOL	20.8 Bbls
Washed Thru Parts	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	FT	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE
PERFORMATIONS	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR	
			Hawk Demoss	Greg Black	



INVOICE

CONFIDENTIAL ORIGINAL

REMIT TO: P O BOX 201556
HOUSTON TX 77216

INVOICE DATE
06/02/90

PAGE
1

INVOICE NUMBER
03-12-2651

918796
AMERICAN EXPLORATION

BOX 742
SYRACUSE KS 67878

TYPE SERVICE
CEMENTING CEMENT SURFACE C

WELL NAME / JOB SITE	STATE	COUNTY / CITY	SERVICE FROM LOCATION	SHIPPED VIA	CUSTOMER P.O. NO./REF.
HCU 1441 C	KS	HAMILTON	ULYSSES KS	DS	
LOCATION / PLANT ADDRESS			DATE OF SERVICE ORDER	CUSTOMER OR AUTHORIZED REPRESENTATIVE	
SEC 14-24S-41W			06/01/90	DAROLD DEMOSS	

ITEM CODE	DESCRIPTION	UOM	QTY	UNIT PRICE	AMOUNT
048209000	0-1500' CASING CEMENTER	BHR	1	433.0000	433.00
048209001	ADD'L PER FT BELOW 300'	FT	61	.4100	25.01
049102000	TRANSPORTATION CMNT TON MILE	MI	619	.8000	495.20
049100000	SERVICE CHG CEMENT MATL LAND	CFT	254	1.0000	274.32
059697000	PACR TREAT ANALYSIS RECORDER	JOB	1	110.0000	110.00
059200002	MILEAGE, ALL OTHER EQUIPMENT	MI	56	2.4000	134.40
040003000	D903, CEMENT CLASS C	FT sacks	85	7.0000	595.00
040015000	D909, CEMENT CLASS H	FT sacks	100	6.8500	685.00
045008000	D35, LITEPOZ 3 EXTENDER	FT sacks	45	2.3000	103.50
045014050	D20, BENTONITE EXTENDER	LBS	679	.1300	88.27
067005100	S1, CALCIUM CHLORIDE	LBS	622	.3200	199.04
044003025	D29, CELLOPHANE FLAKES	LBS	58	1.3700	79.46
050001085	SHOE REG PTTN GUIDE 8-5/8"	EA	1	200.0000	200.00
053003085	INSERT ORIFICE FILL 8-5/8"	EA	1	300.0000	300.00
056011085	CENTR REG 8-5/8, B DIA 12"	EA	2	68.0000	136.00
048501085	PLUG CEMG 8-5/8' WOODEN BODY	EA	1	86.0000	86.00
057499001	K232, THD LKG COMPOUND KIT	EA	1	22.0000	22.00
	DISCOUNT - MATERIAL				773.23-
	DISCOUNT - SERVICE				456.29-

RELEASED

SEP 07 1991

SUB TOTAL -- 2,736.68

M C	STATE TAX ON	1,721.05	73.14
M F C	LOCAL TAX ON	1,721.05	17.21

FROM CONFIDENTIAL

AMOUNT DUE -- 2,827.03

For Face

JA

WITH QUESTIONS CALL 316-356-1272

FEDERAL TAX ID # 38-239-7173

TERMS -- NET 30 DAYS DUE ON OR BEFORE JUL 02, 1990

THANK YOU. WE APPRECIATE YOUR BUSINESS.

Larry A. Kolstad
G A KOLSTAD

CONFIDENTIAL INVOICE

REMIT TO: P O BOX 201556
HOUSTON TX 77216

ORIGINAL

INVOICE DATE

06/04/90

PAGE

1

INVOICE NUMBER

03-12-2659

TYPE SERVICE

CEMENTING
CEMENT PRODUCTIO

8796
AMERICAN EXPLORATION

IX 742
RACUSE KS 67878

WELL NAME / JOB SITE	STATE	COUNTY / CITY	SERVICE FROM LOCATION	SHIPPED VIA	CUSTOMER P.O. NO./REF.
	KS	HAMILTON	ULYSSES KS	DS	
LOCATION / PLANT ADDRESS			DATE OF SERVICE ORDER	CUSTOMER OR AUTHORIZED REPRESENTATIVE	
U 1441 C			06/03/90	DAROLD DEMOSS	

ITEM CODE	DESCRIPTION	UOM	QTY	UNIT PRICE	AMOUNT
048254000	LINER/SQZ CEMTR 2000-2499 FT	BHR	1	1,000.0000	1,000.00
049102000	TRANSPORTATION CMNT TON MILE	MI	2219	.8000	1,775.20
049100000	SERVICE CHG CEMENT MATL LAND	CFT	940	1.0800	1,015.20
059697000	PACR TREAT ANALYSIS RECORDER	JOB	1	110.0000	110.00
059200002	MILEAGE, ALL OTHER EQUIPMENT	MI	55	2.4000	132.00
040600000	TOOLS, CASING SWIVEL RENTAL	JOB	1	205.0000	205.00
040003000	D903, CEMENT CLASS C	sacks cft	422	7.0000	2,954.00
040015000	D909, CEMENT CLASS H	sacks cft	200	6.8500	1,370.00
045008000	D35, LITEPOZ 3 EXTENDER	sacks cft	228	2.3000	524.40
045014050	D20, BENTONITE EXTENDER	LBS	3392	.1300	440.96
067005100	S1, CALCIUM CHLORIDE	LBS	1696	.3200	542.72
044003025	D29, CELLOPHANE FLAKES	LBS	212	1.3700	290.44
044002050	D60, FLAG FLUID LOSS ADDITIV	LBS	56	6.7000	375.20
050002044	SHOE SWIRL GUIDE AL 4-1/2"	EA	1	135.0000	135.00
052004044	COLLAR ORF FILL AL 4-1/2"	EA	1	385.0000	385.00
056011044	CENTR REG 4-1/2, B DIA 7-3/4"	EA	4	48.0000	192.00
056711044	CENTR DEF 4-1/2, B DIA 6-1/2"	EA	8	50.0000	400.00
056704044	PLUG CEMG 4-1/2" TOP AL CORE	EA	1	70.0000	70.00
056014044	RING STOP HAMMER 4-1/2"	EA	1	16.0000	16.00
057499001	K232, THD LKG COMPOUND KIT	EA	1	22.0000	22.00
101094000	J433, WATER CNTRL POLYMER	LBS	43	1.7700	76.11

RELEASED

SEP 0 7 1991

2,883.72-
1,567.83-

SUB TOTAL -- 7,579.68

M C STATE TAX ON
M F C LOCAL TAX ON

FROM CONFIDENTIAL

4,910.12 208.68
4,910.12 49.10

AMOUNT DUE -- 7,837.46

JA
LONG STRING *W.D.*

WITH QUESTIONS CALL 316-356-1272
FEDERAL TAX ID # 38-239-7173
TERMS -- NET 30 DAYS DUE ON OR BEFORE JUL 04, 1990

THANK YOU. WE APPRECIATE YOUR BUSINESS.

Gary A. Kolstad
G A KOLSTAD

KCC

DRILLERS LOG

AMERICAN EXPLORATION COMPANY
HCU #1441-C
SECTION 14-T24S-R41W
HAMILTON COUNTY, KANSAS

COMMENCED: 06-01-90
COMPLETED: 06-04-90

SURFACE CASING: 346' OF 8 5/8"
CMTD W/130 SX DSLW, 3% C.C.,
1/4#/SX D-29; TAILED IN W/100
SX "H", 3% C.C., 1/4#/SX D-29

FORMATION	DEPTH
SURFACE HOLE	0- 361
SAND & CLAY	361-1675
SHALE	1675-2276
SHALE & CLAY	2276-2474 RTD

6-7-90
JUN 07 1990

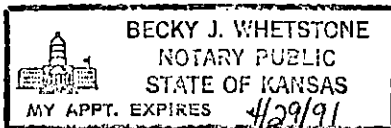
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 5TH DAY OF JUNE, 1990.



Becky J. Whetstone
BECKY J. WHETSTONE, NOTARY PUBLIC