

RELEASED

AMENDED REPORT

CONFIDENTIAL

JUL 02 1991

SIDE ONE

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

Operator: License # 04680

Name: American Exploration Company

Address 2100 NCNB Center

700 Louisiana

City/State/Zip Hosuton, Texas 77022

Purchaser: KN Energy

Operator Contact Person: Marty B. McClanahan

Phone (713) 220-8251

Contractor: Name: Cheyenne Drilling Co.

License: 5382

Wellsite Geologist: Roy Osterbuhr

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD Temp. Abd.

Gas SI Inj Delayed Comp.

Dry Other (Core, Water Supply, etc.)

If OWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

5/10/90 5/13/90 7/03/90

Spud Date Date Reached TD Completion Date

API NO. 15- 075-20,446-0000

County Hamilton

SW/4 Sec. 24 Twp. 22S 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.)

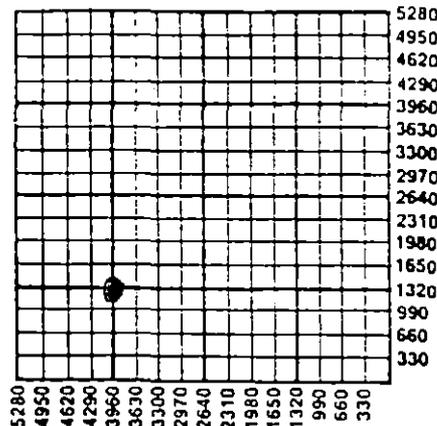
Lease Name HCU Well # 2421-B

Field Name Bradshaw

Producing Formation Winfield

Elevation: Ground 3542 KB _____

Total Depth 2810 PBTD 2781



Amount of Surface Pipe Set and Cemented at 369 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2810

feet depth to Surface w/ 1075 825 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 AUG. 25, 1994

[Signature]

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)
OCT 7 1990
CONSERVATION DIVISION
Wichita, Kansas

10-3-90

SIDE TWO

Operator Name American Exploration Company Lease Name HCU Well # 2421-B
 Sec. 24 Twp. 22S Rge. 41 East County Hamilton
 West

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.	-----	2206 (+1347)
Winfield	2656 (+897)	
Ft. Riley	2753 (+800)	

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#	369	35/65 Class H	150 100	6% gel, 2% 1/4# sk D-29
Production	7-7/8	4-1/2	9.5#	2808	DSLW Class H	525 300	6% gel, 3 CC 1/4# sk. D-29

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
	2,664-78'	1,000 gals. 15% HCL	
		30,000# 12/20 sd.	

TUBING RECORD Size 2-3/8 Set At 2654 Packer At 2620 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 _____

CONFIDENTIAL
CASING & CEMENTING REPORT

Well Name 24-21-13 Location SW 1/4 Sec 24 T25 R16W
Casing 8 5/4 SURFACE Date 5-10-90

Jts. On	m On	Size	Wt.					Jts. Depth	m Run
Locat.	Locat.	mm	kg/m	Cr.	Rqe.	THD	T&C	Make	Run Landed
		8 5/4	202		4	10			8 369 m
									357.87
Shoe Make <u>D.S.</u> Type <u>Texas</u> Length <u>1.00</u> m									1.00
Collar Make _____ Type _____ Length _____ m									
Landing Jt. (When Used) Length _____ m									15.00
Overall Length of Casing String _____ m									373.87
m Up From K.B. (subtract) _____ m									4.00
Setting Depth By Driller <u>369</u> m By Tally <u>369.89</u> m									369.89

CENTRALIZERS

SCRATCHERS

Make & No. 2 Make & No. _____
Position 1-3 Position _____
Remarks (Thread Lock, Weld, Mill) Thread Lock Bottom 3

Hole Size 12 1/4 mm Casing In Hole Size N.A. mm
Depth 370 m Setting Depth _____ m
Mud Type FR 204 gel Wt. 8.6 kg/m Visc. 35- S/LWL N.C. cm
BOP's N.A.
Power Tong Co N.A. Torque Max. _____ Min. _____
Casing String Wt. 7200 daN Remarks _____

Cementing Co. Dowell Operator Greg

TYPES & QUANTITIES OF CEMENT

Date 4-10-90

Filler Volume Amount 150 SX m³ Type 35/65 Wt. 14.5 kg/m³
Additives 6% gel 2% C.C. 1/4" SX D-29
Tail In Volume Amount 100 SX m³ Type H Wt. 15.5 kg/m³
Additives 2% C.C. 1/4" SX D-29
HT. Cemented _____ Water Ahead 10 BDL m³ Start Mix 7:20 m³
Finish Mix 2:40 m³ Pumping Press 60 kPa Bump Press 116 kPa
Float Held Yes Cement Returns Yes m³
Plug Down 2:55 5-10-90 Date 5-10-90
Wt. Landed in Slips _____ daN Make of Bowl _____
Size 8 5/4 > 4 1/2 mm Series _____ Slip & Seal Esembly _____
Remarks (Wellhead - Make, Type, Size)
1" IN 50 SX STANDARD 2% C.C. 1/4" FLO Seal
Used Herculon Cement Did CR

RELEASED

Co. Rep. HAWK

JUL 02 1991

FROM CONFIDENTIAL

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

15-075-20446-0000

D.S.I. REPRESENTATIVE

OILFIELD SERVICES
INDUSTRIAL SERVICES



CONFIDENTIAL

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.
03-12-2575

DSI SERVICE LOCATION NAME AND NUMBER
44003-085

CUSTOMER NUMBER

CUSTOMER P.O. NUMBER

TYPE SERVICE CODE
271

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.

*CONTRACT NO. 573' 8 1/2 SURF W/ 150 SK 3-165-1000
+ 1/4" SK 029
100 SKS H + 2 1/4" CMC + 1/4" SK 021*

WORKOVER
NEW WELL
OTHER

W
 N

API OR IC NUMBER

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO.	DAY	YR.	TIME
	5	10	90	1630

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
	5	10	90	2000

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

STATE CODE COUNTY / PARISH CODE CITY

KANSAS **HAMILTON**

WELL NAME AND NUMBER / JOB SITE

44003-085

LOCATION AND POOL / PLANT ADDRESS

SEC 24-225-41W

SHIPPED VIA

DS

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
05920-002	Challenge chg	ML	61	240	14640
048209-000	PUMP chg	EA	1	433	433
048209-001	ADDITIONAL HOISTAGE 30 373	FT	73	41	2993
041102-000	DELIVERY chg 23,756	TR/ML	725	80	58000
049100-000	Service chg	FT	272	100	27200
059697-000	TACK	EA	1	110	110
040003-000	CLASS C	SK	98	75	7350
040015-000	CLASS D	SK	100	685	68500
045008-000	LITE FOR 23	FT	58	230	13260
045014-050	D20 BEDTONTITE	LB	784	.13	101.92
067005-100	CALC	LB	447	.32	143.04
044003-085	229 CONCRETE FLOOR	LB	63	132	8316
050001-085	TEXAS PATTERNS SHOES	EA	1	200	200
050015-085	BRIDGE PLATE	EA	1	70	70
056011-085	CENTRALIZER	EA	2	65	130
056204-085	TOP KICKER Plug	EA	1	140	140
057497-001	Thread Lock	EA	1	22	22

RELEASED

JUL 02 1991

FROM CONFIDENTIAL

SUB TOTAL

FIELD ESTIMATE # 3983 600

LICENSE/REIMBURSEMENT FEE

LICENSE/REIMBURSEMENT FEE

REMARKS:

TICKET SUBJECT TO DISCOUNT

STATE % TAX ON \$

COUNTY % TAX ON \$

CITY % TAX ON \$

SIGNATURE OF DSI REPRESENTATIVE

TOTAL \$

CEMENTING SERVICE REPORT

CONFIDENTIAL **DS**
DOWELL SCHLUMBERGER INCORPORATED

15-075-20446-0000
TREATMENT NUMBER 03-12-2575 DATE 5-10-90
STAGE DS DISTRICT GYLSSES KS

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. HEU # 2421-B		LOCATION (LEGAL) SEC 24 22S-41W		RIG NAME: Cheyenne # 5	
FIELD-POOL		FORMATION		WELL DATA: BOTTOM TOP	
COUNTY/PARISH Hamilton		STATE Ks		API. NO.	
NAME AMERICAN EXPLOSION				TOTAL	
AND				MUD DENSITY 4.3	
ADDRESS				MUD VISC. 329.57	
ZIP CODE				NOTE: Include Footage From Ground Level To Head In Disp. Capacity	

SPECIAL INSTRUCTIONS		Float TYPE Baffle		Depth 329.57	
		SHOE TYPE TX HSTE21		Depth 372.87	
IS CASING/TUBING SECURED? <input type="checkbox"/> YES <input type="checkbox"/> NO		Head & Plugs <input type="checkbox"/> TBG <input type="checkbox"/> D.P.		SQUEEZE JOB	
LIFT PRESSURE 153 PSI		Casing Weight - Surface Area (3.14 x R ²)		TOOL TYPE	
PRESSURE LIMIT PSI		BUMP PLUG TO PSI		DEPTH	
ROTATE RPM		RECIPROCAT FT		TAIL PIPE: SIZE DEPTH	
No. of Centralizers 2		TOP <input checked="" type="checkbox"/> OR <input type="checkbox"/> W		TUBING VOLUME Bbls	
		BOT <input type="checkbox"/> OR <input type="checkbox"/> W		CASING VOL. BELOW TOOL Bbls	
		DEPTH		TOTAL Bbls	
				ANNUAL VOLUME Bbls	

TIME	PRESSURE		VOLUME PUMPED bbl		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	TIME	DATE	TIME	DATE	
0001 to 2400											
1915											
1917	240										
1919		30	10		3	File					
1923		70	53	10	5	12.4					
1933		80	21	63	4	15.6					
1938		10		84	-						
1939		-		84	-						
1940		-	21	84	3	File					
1946		30		95	2						
1948		60		100	1						
1956		110		105	-						

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FROM CONFIDENTIAL

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1	150	1.97	35/65 102/C + 6% D20 + 2% Calc + 1/4" / SK D29				53	12.4
2	100	1.18	Class H + 2% Calc + 1/4" / SK D29				21	15.6
3								
4								
5								
6								

BREAKDOWN FLUID TYPE		VOLUME		DENSITY		PRESSURE		MAX. MIN:	
<input type="checkbox"/> HESITATION SO		<input type="checkbox"/> RUNNING SO		CIRCULATION LOST		<input type="checkbox"/> YES <input type="checkbox"/> NO		Cement Circulated To Surf. <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
Washed Thru Perfs <input type="checkbox"/> YES <input type="checkbox"/> NO		TO TO		FT. MEASURED DISPLACEMENT <input checked="" type="checkbox"/>		TYPE OF WELL <input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS		<input type="checkbox"/> STORAGE <input type="checkbox"/> INJECTION <input type="checkbox"/> BRINE WATER <input type="checkbox"/> WILDCAT	
PERFORATIONS		TO TO		CUSTOMER REPRESENTATIVE		DS SUPERVISOR			

CASING & CEMENTING REPORT

15-075-20446-0000

Well Name 2421-B H.C.U. Location _____
Casing PRODUCTION Date 5-13-90

Jts. On	m On	Size	Wt.					Jts	Depth	m	Run
Locat.	Locat.	mm	kg/m	Cr.	Rge.	THD	T&C	Make	Run	Landed	In Well
74	3130.05	4 1/2	9.5		3	18 1/2	ST+C		67	2809m	2813.15
										m	
										m	
										m	

Shoe Make Weatherford Type REGULAR Length .8 m
Collar Make Weatherford Type AUTO FILL Length .8 m

Landing Jt. (When Used) Length _____ m
Overall Length of Casing String 2813.15 m
m Up From K.B. (subtract) 4.15 m

Setting Depth By Driller 2809 m By Tally 2809 m

CENTRALIZERS

SCRATCHERS

Make & No. Weatherford 12 Make & No. _____
Position _____ Position _____

Remarks (Thread Lock, Weld, Mill) THE REG SHOES, FLOAT COLLAR & NEXT
THREE COLLARS 2 BASKETS RIDING JTS 17+18

Hole Size 7 3/8 mm Casing In Hole Size 4 1/2 mm
Depth 2810 m Setting Depth 2809 m
Mud Type STARCH Wt. 9.6 kg/m Visc. 40S/LWL 9.9 cm

BOP's ANNULAR
Power Tong Co FRANCIS Torque Max. 1020 Min. 1000
Casing String Wt. 26000 daN Remarks ROTATE CS9 THRU OUT JOB

Cementing Co. Dowell - Schumberger Operator DOUG HARNARD

TYPES & QUANTITIES OF CEMENT

Date 5-13-90

Filler Volume Amount 525 m³ Type 35/65 Wt. 12.2 kg/m³

Additives 3% CC 6% CEL 1/4# SK D-29

Tail In Volume Amount 300 m³ Type H Wt. 15.6 kg/m³

Additives 3% D-60 1/4# SK D-29

HT. Cemented SURF Water Ahead 25 m³ Start Mix _____ m³

Finish Mix _____ m³ Pumping Press 270 kPa Bump Press 1600 kPa

Float Held YES Cement Returns FULL (5 B CID) m³

Plug Down 5:15 AM 5-13-90 Date 5-13-90

Wt. Landed in Slips 26000 daN Make of Bowl _____

Size _____ mm Series _____ Slip & Seal Esembly _____

Remarks (Wellhead - Make, Type, Size) _____

RELEASED

JUL 02 1991

FROM CONFIDENTIAL

Co. Rep. John E. Hanna

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

15-075-20446-0000

CONFIDENTIAL

OILFIELD SERVICES
INDUSTRIAL SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.
0342-2584

DSI SERVICE LOC. NAME AND NUMBER
Ulysses, KS 03-12

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

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.

WORKOVER NEW WELL OTHER API OR IC NUMBER

ARRIVE LOCATION MO. DAY YR. TIME
5 13 90

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
5 13 90

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
John S. Hanna

Provide Equipment & Materials Necessary To Safely Cement 4 1/2" casing

STATE CODE COUNTY / PARISH CODE CITY
Kansas 015 Hamilton 075

WELL NAME AND NUMBER / JOB-SITE LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA
HCU 2421-B Dowell Schlumberger

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048215-000	Pump Truck Charge 2501-3000'	ea	1	1026.00	1026.00
049102-000	Delivery Charge	TM	2387	0.80	1909.60
049100-000	service charge	cuft	898	1.08	969.84
059697-000	PACK Charge	ea	1	110.00	110.00
059200-002	M. lease charge	mi	61	2.40	146.40
048660-000	Casing Swivel-Rental	ea	1	205.00	205.00
040003-000	D903 Class C Cement	cuft	341	7.00	2387.00
040015-000	D909. Class M Cement	cuft	300	6.85	2055.00
045008-000	D35. Litemor 3	cuft	184	2.30	423.20
045014-050	D20. Bentonite Extender	lb	2740	0.13	356.20
067005-100	51. Calcium Chloride	lb	1370	0.32	438.40
044002-050	D60. Fluid Loss Additive	lb	85	6.70	569.50
044003-025	D29. cellophane Flakes	lb	200	1.37	282.22
050101-044	4 1/2" Cement Guide Shoe	ea	1	105.00	105.00
052011-044	4 1/2" Diff. Filter Collar	ea	1	635.00	635.00
056011-044	4 1/2" Centralizers	ea	4	48.00	192.00
056711-044	4 1/2" Turbulators	ea	8	50.00	400.00
056704-044	4 1/2" Tap Rubber Plug	ea	1	70.00	70.00
056008-044	4 1/2" Cementing basket	ea	2	130.00	260.00
057499-001	Thread Lock Bit	ea	2	22.00	44.00

RELEASED

Field Estimate = \$ 12,584.36

SUB TOTAL
MAY 02 1991

REMARKS: Thanks For Using DSI!

LICENSE/REIMBURSEMENT FEE

LICENSE/REIMBURSEMENT FEE

STATE COUNTY CITY

% TAX ON \$

SIGNATURE OF DSI REPRESENTATIVE TOTAL \$

FROM CONFIDENTIAL

CEMENTING SERVICE REPORT



DOWELL SCHLUMBERGER INCORPORATED

15-075-20446-0000
 TREATMENT NUMBER 03-12-2584 DATE 5-13-90
 STAGE DS DISTRICT Ulysses, KS

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. HCU 2421-B LOCATION (LEGAL) Bradshaw
 FIELD-POOL _____ FORMATION Bradshaw
 COUNTY/PARISH Hamilton STATE Kansas API. NO. _____
 NAME American Exploration
 AND _____
 ADDRESS _____ ZIP CODE _____

RIG NAME: Choyenne #5
 WELL DATA: BOTTOM TOP
 BIT SIZE CSG/Liner Size 4 1/2
 TOTAL DEPTH WEIGHT 9.5
 ROT CABLE FOOTAGE 2813
 MUD TYPE GRADE _____
 BHST BHCT THREAD 814
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 21 TOTAL _____
 MUD VISC. Disp. Capacity 2792

NOTE: Include Footage From Ground Level To Head In Disp. Capacity

Float	TYPE	<u>Diff. Fill Collar</u>	Stage Tool	TYPE
	DEPTH	<u>2792</u>		DEPTH
SHOE	TYPE	<u>Cmt Guide</u>	Stage Tool	TYPE
	DEPTH	<u>2813</u>		DEPTH

SPECIAL INSTRUCTIONS _____
 IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE 1680 PSI CASING WEIGHT - SURFACE AREA (3.14 x R²)
 PRESSURE LIMIT PSI BUMP PLUG TO 500 over PSI
 ROTATE RPM RECIPROCATATE FT No. of Centralizers 12

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

TIME	PRESSURE	VOLUME PUMPED BBL	JOB SCHEDULED FOR TIME 0100 DATE 5-13	ARRIVE ON LOCATION TIME 0105 DATE 5-13	LEFT LOCATION TIME 0515 DATE 5-13
0001 to 2400	TBG OR D.P. CASING	INCREMENT CUM	INJECT RATE FLUID TYPE FLUID DENSITY	SERVICE LOG DETAIL	

TIME	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
0410	NA	250	10	-	5.0	H ₂ O	8.34	Begin Pumping water Ahead
0412		300	10	10	5.8	Gel		Begin Mixing Polymer Gel
0414		200	100	10	5.9	Cmt	11.2	Begin Mixing Bentonite Gel
0425		210	108	100	5.9	Cmt	12.2	Continue Mixing Lead Cement
0445		300	102	208	5.8	Cmt	15.6	Begin Mixing Tail Cement
0455		0	-	270	0	-	-	Shut Down, Drop plug, Wash line
0459		210	35	-	5.6	H ₂ O	8.34	Begin Displacement
0508		080	10	35	3	H ₂ O	8.34	Lower Rate
0511		1480	-	45	0	-	-	Bump Plug - Shut Down
0512		0	-	-	0	-	-	Bleed CIP Pressure - Float Held
0513		-	-	-	-	-	-	End Job

RELEASED
 JUL 02 1991

REMARKS _____

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED		
			BBLs	DENSITY	BBLs	DENSITY	
1.	325	2.0	35/65 POZK + 6% D20 + 3% S1 + 1/4 1 1/2 K D29	115.8	12.2		
2.							
3.	200	2.88	35/65 POZK + 6% D20 + 3% S1 + 1/4 1 1/2 K D29	102.5	11.2		
4.							
5.	300	1.18	Class H + 0.3% D60 + 1/4 1 1/2 K D29	63.1	15.6		
6.							

BREAKDOWN FLUID TYPE _____ VOLUME _____ DENSITY _____ PRESSURE MAX. 860 MIN. 0
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO 18 Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 45.2 Bbls TYPE OF WELL OIL STORAGE BRINE WATER
 Washed Thru Perls YES NO TO _____ FT MEASURED DISPLACEMENT WIRELINE INJECTION WILDCAT
 PERFORATIONS _____ CUSTOMER REPRESENTATIVE John Hannah Hannah Demoss DS SUPERVISOR Doug E Harned

INVOICE

REMIT TO: P O BOX 24
HOUSTON TX 77216

INVOICE DATE
05/10/90

PAGE	INVOICE NUMBER
1	03-12-2575

TYPE SERVICE
CEMENTING CEMENT SURFACE C

918796
AMERICAN EXPLORATION

BOX 742
SYRACUSE KS 67878

CONFIDENTIAL

WELL NAME / JOB SITE	STATE	COUNTY / CITY	SERVICE FROM LOCATION	SHIPPED VIA	CUSTOMER P.O. NO./REF.
HCU 2421 B	KS	GREELEY	ULYSSES KS	DS	
LOCATION / PLANT ADDRESS			DATE OF SERVICE ORDER	CUSTOMER OR AUTHORIZED REPRESENTATIVE	
SEC 24-22S-41W			05/10/90	DAROLD DEKOSS	

ITEM CODE	DESCRIPTION	UOM	QTY	UNIT PRICE	AMOUNT
059200002	MILEAGE, ALL OTHER EQUIPMENT	MI	61	2.4000	146.40
048209000	8-1500' CASING CEMENTER	8HR	1	433.0000	433.00
048209001	ADD'L PER FT BELOW 300'	FT	73	.4100	29.93
049102000	TRANSPORTATION CHGT TON MILE	MI	724	.8000	579.20
049100000	SERVICE CHG CEMENT MATL LAND	CFT	272	1.0000	273.76
059697000	PACK TREAT ANALYSIS RECORDER	JOB	1	110.0000	110.00
040003000	D903, CEMENT CLASS C	CFT	98	7.0000	686.00
040015000	D909, CEMENT CLASS H	CFT	100	6.8500	685.00
045000000	D35, LITEPOZ 3 EXTENDER	CFT	52	2.3000	119.60
045014050	D20, BENTONITE EXTENDER	LBS	783	.1300	101.79
067005100	S1, CALCIUM CHLORIDE	LBS	449	.3200	143.68
044003025	D29, CELLOPHANE FLAKES	LBS	63	1.3700	86.31
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
056704085	PLUG CENG 8-5/8" TOP AL CORE	EA	1	140.0000	140.00
057499001	K232, THD LKG COMPOUND KIT	EA	1	22.0000	22.00
	DISCOUNT - MATERIAL				741.01-
	DISCOUNT - SERVICE				493.61-
				SUB TOTAL --	2,748.05
M C	STATE TAX ON			1,649.37	70.09
				AMOUNT DUE --	2,818.14

RELEASED
JUL 0 2 1991

FROM CONFIDENTIAL

RECEIVED
CONSERVATION DIVISION
Wichita, Kansas
AUG 2 0 1990

AMOUNT DUE -- 2,818.14
[Handwritten Signature]

WITH QUESTIONS CALL 316-356-1272
FEDERAL TAX ID # 38-239-7173

THANK YOU. WE APPRECIATE YOUR BUSINESS.

[Handwritten Signature: Gary A. Kolstad]
G A KOLSTAD

TERMS -- NET 30 DAYS DUE ON OR BEFORE JUN 09, 1990

00000000

INVOICE

REMIT TO: P. O. BOX 281536
HOUSTON TX 77216

0312

INVOICE DATE

05/13/90

918796
AMERICAN EXPLORATION

BOX 742
SYRACUSE

KS 67878

CONFIDENTIAL

PAGE

1

INVOICE NUMBER

03-12-2585

TYPE SERVICE

CEMENTING
CEMENT PRODUCTIO

WELL NAME / JOB SITE	STATE	COUNTY / CITY	SERVICE FROM LOCATION	SHIPPED VIA	CUSTOMER P.O. NO./REF.
HCU 2421 D	KS	HAMILTON	ULYSSES KS	DS	
LOCATION / PLANT ADDRESS			DATE OF SERVICE ORDER	CUSTOMER OR AUTHORIZED REPRESENTATIVE	
SEC			05/13/90	JOHN HANNA	

ITEM CODE	DESCRIPTION	UOM	QTY	UNIT PRICE	AMOUNT
048215000	CASING CENTR 2500-2999 FT.	HR	1	1,026.0000	1,026.00
049102000	TRANSPORTATION CHMT TON MILE	MI	2387	.8000	1,909.60
049100000	SERVICE CHG CEMENT MATL LAND	CFT	898	1.0000	969.84
059697000	PACR TREAT ANALYSIS RECORDER	JOB	1	110.0000	110.00
059200002	MILEAGE, ALL OTHER EQUIPMENT	MI	61	2.4000	146.40
048600000	TOOLS, CASING SWIVEL RENTAL	JOB	1	205.0000	205.00
040003000	D903, CEMENT CLASS C	CFT	341	7.0000	2,387.00
040015000	D909, CEMENT CLASS H	CFT	300	6.8500	2,055.00
045000000	D35, LITEPOZ 3 EXTENDER	CFT	184	2.3000	423.20
045014050	D20, BENTONITE EXTENDER	LBS	2740	.1300	356.20
067005100	S1, CALCIUM CHLORIDE	LBS	1370	.3200	438.40
044002050	D60, FLAC FLUID LOSS ADDITIV	LBS	84	6.7000	562.80
044003025	D29, CELLOPHANE FLAKES	LBS	206	1.3700	282.22
050101044	SHOE CEN TYPE GUIDE 4-1/2"	EA	1	105.0000	105.00
052011044	COLLAR CIRC DIFF FILL 4-1/2"	EA	1	635.0000	635.00
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 CENG 4-1/2" TOP AL CORE	EA	1	70.0000	70.00
056000044	BASKET CENG CASING 4-1/2"	EA	2	130.0000	260.00
057499001	K232, THD LKG COMPOUND KIT	EA	2	22.0000	44.00
	DISCOUNT - MATERIAL				3,038.00-
	DISCOUNT - SERVICE				1,615.73-
				SUB TOTAL --	7,923.93

H C STATE TAX ON
H F C LOCAL TAX ON

RELEASED

5,172.82 219.84
5,172.82 51.72

JUL 0 2 1991

AMOUNT DUE -- 8,195.49

FROM CONFIDENTIAL

[Handwritten signature]

WITH QUESTIONS CALL 316-356-1272

FEDERAL TAX ID # 38-239-7173

TERMS -- NET 30 DAYS DUE ON OR BEFORE JUN 12, 1990

THANK YOU. WE APPRECIATE YOUR BUSINESS.

G A KOLSTAD

[Handwritten signature: Gary A. Kolstad]

15-075-20446-0000

DRILLERS LOG

AMERICAN EXPLORATION COMPANY
HCU #2421-B
SECTION 24-T22S-R41W
HAMILTON COUNTY, KANSAS

COMMENCED: 05-10-90
COMPLETED: 05-13-90

SURFACE CASING: 358' OF 8 5/8"
OMTD W/150 SX DSLW, 2% C.C.,
1/4#/SX D-29; TAILED IN W/ 100 SX
"H", 2% C.C., 1/4#/SX D-29

FORMATION	DEPTH
SURFACE HOLE	0- 373
SAND & CLAY	373-1135
SHALE & CLAY	1135-1681
SHALE	1681-2300
SHALE & LIME	2300-2780
SHALE	2780-2810 RTD

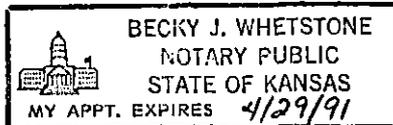
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 14TH DAY OF MAY, 1990.



Becky J. Whetstone

BECKY J. WHETSTONE, NOTARY PUBLIC

MAY 17 1990
County Clerk of Hamilton
Wichita, Kansas