

ORIGINAL

CONFIDENTIAL

KCC

NOV 0 6

SIDE ONE

CONFIDENTIAL

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

API NO. 15- 075-20,465-0000

County Hamilton

SW/4 Sec. 31 Twp. 22 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.)

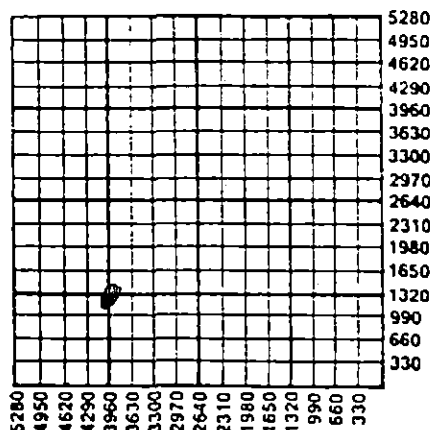
Lease Name HCU Well # 3121-C

Field Name Bradshaw

Producing Formation Winfield

Elevation: Ground 3491 KB

Total Depth 2704 PBTD 2652



1-27-92
1320 log

Amount of Surface Pipe Set and Cemented at 362 Feet

Multiple Stage Cementing Collar Used? Yes XX No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 2704

feet depth to Surface w/ 1070 sx cmt.

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 Company

License: 05382

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)

If **OWNO**: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

7-02-90 7-05-90

Spud Date Date Reached TD Completion Date

RECEIVED
STATE CORPORATION COMMISSION
11-8-90

NOV 8 1990

CONSERVATION DIVISION
Wichita, Kansas

RELEASED

DEC 0 8 1992

FROM CONFIDENTIAL

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.

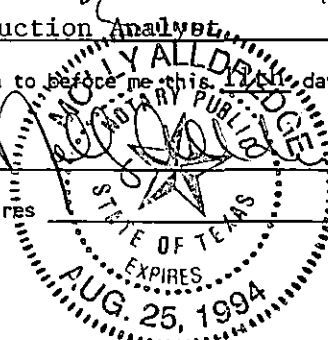
Signature Marty B. McClanahan

Title Sr. Production Analyst Date 9/11/90

Subscribed and sworn to before me this 11th day of September, 19 90.

Notary Public _____

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

303

CONFIDENTIAL

ORIGINAL

SIDE TWO

Operator Name American Exploration Company Lease Name HCU Well # 3121-C

Sec. 31 Twp. 22 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 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

Log Sample

Name	Top	Bottom
Stone Corral Anhy.	----	2099 (+1403)
Winfield	2548 (+954)	
Ft. Riley	2648 (+854)	

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#	362	Class H	1130	6% gel 3%CC
Production	7-7/8	8-1/2	9.5#	2704	Class C	640	3% CC 1/4# sx
					Class H	200	3# D-60 1/4#

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth

TUBING RECORD

Size _____ Set At _____ Packer At _____ Liner Run Yes No

Date of First Production SI .WOC 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

15-075-20465-0000

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NOV 06

CONFIDENTIAL

DRILLERS LOG

AMERICAN EXPLORATION COMPANY
HCU #3121-C
SECTION 31-T22S-R41W
HAMILTON COUNTY, KANSAS

COMMENCED: 07-02-90
COMPLETED: 07-05-90

SURFACE CASING: 350' OF 8 5/8"
CMTD W/130 SX 65/35 POZ, 6% GEL,
3% C.C., 1/4#/SX D-29, TAILED IN
W/100 SX "H", 3% CC, 1/4#/SX D-29

FORMATION	DEPTH
SURFACE HOLE	0- 365
SAND & CLAY	365-1610
SHALE	1610-2182
SHALE & LIME	2182-2704 RTD

RECEIVED
STATE CORPORATION COMMISSION

NOV 8 1990

CONSERVATION DIVISION
Wichita, Kansas

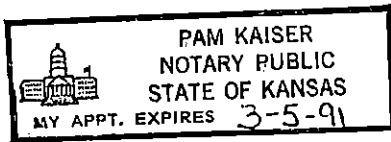
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 6TH DAY OF JULY, 1990.



Pam Kaiser
PAM KAISER, NOTARY PUBLIC

RELEASED

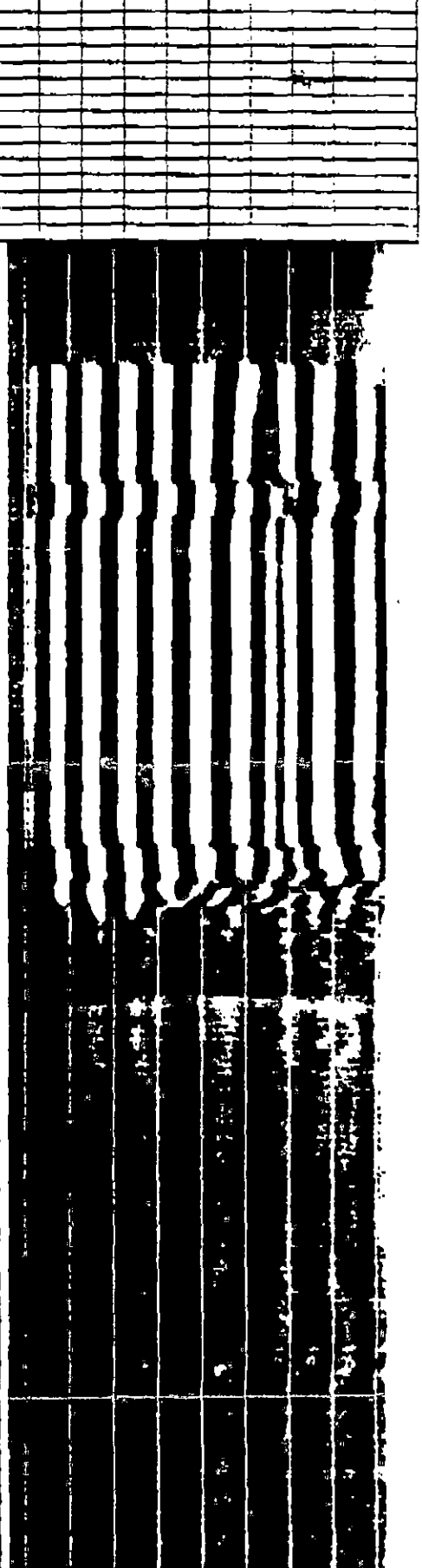
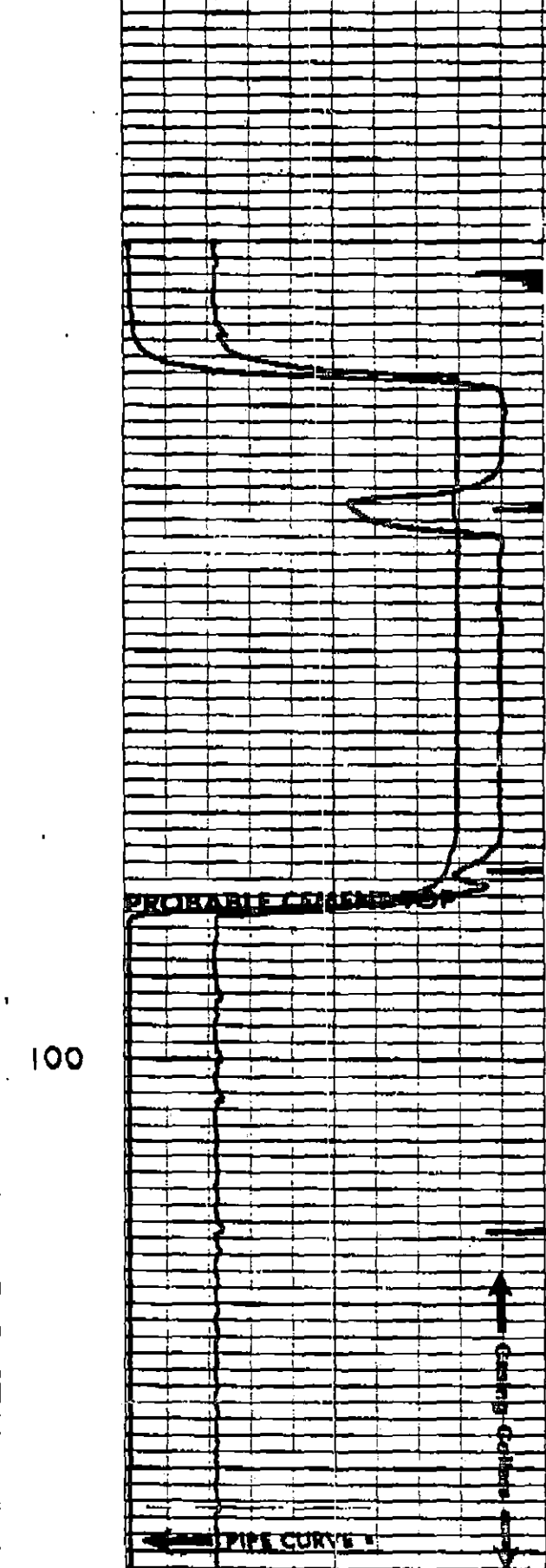
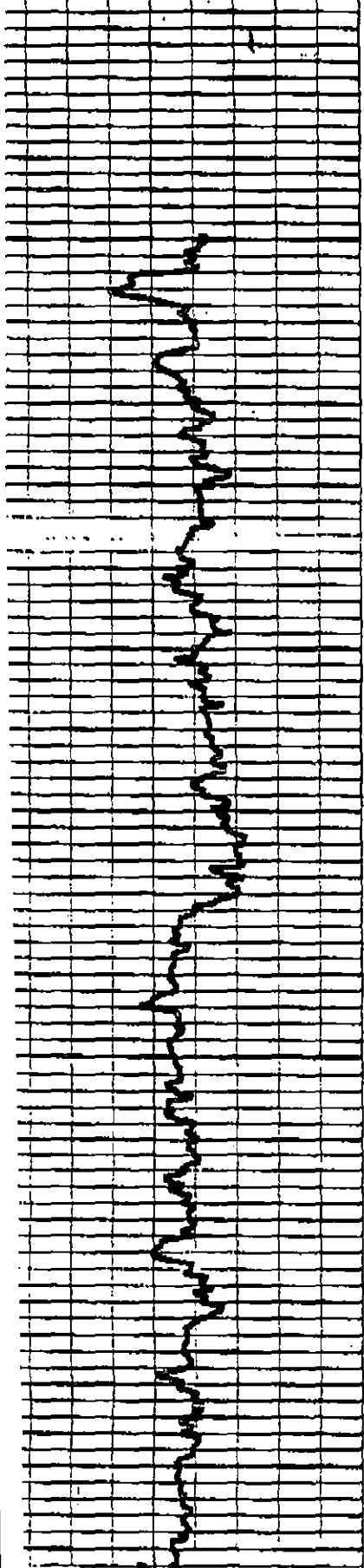
DEC 08 1990

FROM CONFIDENTIAL

Size	From	To	Csg. Size	Wt.	From	To	Centralized Interval
							Scratched Interval
							Open Perforations

KCC

GAMMA RAY	200	DEPTHS	ORIGINAL				NOV 0 6:
	400						VIL
	200						CONFIDENTIAL
TRANSIT-TIME	200		0	PIPE CURVE	100	200	1200
			0	AMP. PIPE CURVE	20		



31-21-C

RECEIVED STATE CORPORATION COMMISSION, DE-14, 1951

DEC 26 1950 10 0 1005

CONSERVATION DIVISION, Wichita, Kansas



Kansas Corporation Commission

MIKE HAYDEN GOVERNOR
KEITH R. HENLEY CHAIRMAN
RICH KOWALEWSKI COMMISSIONER
JACK SHRIVER COMMISSIONER
JUDITH MCCONNELL EXECUTIVE DIRECTOR
FRANK A. CARO, JR. GENERAL COUNSEL

CONSERVATION DIVISION
SHARI FEIST ALBRECHT, DIRECTOR
200 Colorado Derby Bldg.
202 W. 1st Street
Wichita, KS 67202-1286
(316) 263-3238

November 8, 1990

American Exploration Company
2100 NCNB Center
700 Louisiana
Houston Texas 77002

Re: API # 15-075-20,465-0000
HCU LEASE WELL #3121-C
SW/4 31 22 31W

An affidavit of completion form (ACO-1) on the above-mentioned well was received on 11-8-90. Technical review finds that ACO-1 to be incomplete. The information requested below, or an amended/corrected complete ACO-1, must be submitted by 11-29-90. Failure to complete the ACO-1 as requested will subject the operator to the assessment of a \$100 administrative penalty.

Only current ACO-1 forms will be accepted - form ACO-1 (7-89).

- Copy of all wireline logs
Legal length forms no longer accepted, please complete enclosed form and return.
Cement tickets confirming the Alt II cementing.
* ACO-1 well location and intent location do not match: Please confirm location
Affidavit Not Notorized
Affidavit Not Signed
Complete the Form: See highlighted area.
Need letter requesting confidentiality.
Drillstem Test Data
Cement tickets
Other Any information showing the top of cement behind production casing.

Kansas Regulation 82-3-107 provides confidentiality, upon written request, for a period of one year. Confidentiality rights are waived if ACO-1's remain incomplete, electric logs, driller's logs, and Kansas Geological Survey requested samples are not supplied within 120 days from well spud date.

Do not hesitate to call the Kansas Corporation Commission, Conservation Division, at (316) 263-3238 if there are any questions. Please return this form and any enclosures with your reply.

* NOTE: If the intent is incorrect, you need to file a corrected intent.

Sincerely,

RELEASED Dennis Anderson

Dennis Anderson
Production Department

cc: Compliance Officer
Production Supervisor

DEC 0 8 1992

FROM CONFIDENTIAL

ORIGINAL

15.075-20465-0000

KCC

NOV 06

CASING & CEMENTING REPORT

CONFIDENTIAL

Well Name 31-21-C HCV Location _____
Casing PRODUCTION Date 7-5-90

Jts. On	m On	Size	Wt.						Jts. Depth	m Run
Locat.	Locat.	mm	kg/m	Cr.	Rge.	THD	T&C	Make	Run	Landed
62	2708.89	4 1/2	9.5		3	8RD	STC	MJ	62	2703m
										2708.89

Shoe Make WEATHERFORD Type REGULAR Length 1.8 m
 Collar Make WEATHERFORD Type AUTO FILL Length 1.8 m
 Landing Jt. (When Used) Length NA m
 Overall Length of Casing String 2708.89 m
 m Up From K.B. (subtract) 8.0 m
 Setting Depth By Driller 2704 m By Tally 2703 HBm

CENTRALIZERS

SCRATCHERS

Make & No. WEATHERFORD 12M Make & No. NONE
 Position 2666-2574 (4), 1832-1219 (8) Position _____
 Remarks (Thread Lock, Weld, Mill) THRD LOCK SHOES & COLLAR & NEXT 2 COLLAR

Hole Size 7 7/8 mm Casing In Hole Size 4 1/2 mm
 Depth 2704 m Setting Depth 2703 m
 Mud Type STARCH Wt. 9.5kg/m Visc. 37 S/LWL 13.6 cm³
 BOP's ANNULAR
 Power Tong Co _____ Torque Max. 1500 Min. 1000
 Casing String Wt. 26,000 daN Remarks NO RATE CSG.

Cementing Co. LOWELL-SHLUMBERGER Operator GREG BLACK

TYPES & QUANTITIES OF CEMENT Date 7-5-90

Filler Volume Amount 220 3/8 po2 Type 3 5/65 po2 Wt. 12.2 kg/m³
 Additives 6% GEL, 3% GEL, 4# FLAKE / 10% SALT IN 2nd FILL
 Tail In Volume Amount 200 m³ Type DH Wt. 15.6 kg/m³
 Additives 3% D-60, 4# FLAKE
 HT. Cemented _____ Water Ahead 10 + 10 GEL m³ Start Mix 11:10 AM m³
 Finish Mix 12:03 PM m³ Pumping Press 200 kPa Bump Press 1350 kPa
 Float Held YES Cement Returns NO m³
 Plug Down 12:20 PM Date 7-5-90
 Wt. Landed in Slips 26,000 daN Make of Bowl _____
 Size _____ mm Series _____ Slip & Seal Esembly _____
 Remarks (Wellhead - Make, Type, Size) VED

RELEASED NOV 8 1990

DEC 08 1992 INFORMATION DIVISION

Co. Rep. Glen Hraen

FROM CONFIDENTIAL

ORIGINAL CONFIDENTIAL

OILFIELD SERVICES
 INDUSTRIAL SERVICES

NOV 06

DSI SERVICE ORDER
 RECEIPT AND INVOICE NO.
 03-12-2793

DSI SERVICE LOCATION NAME AND NUMBER
 Crosses Ks 03-98

CUSTOMER NUMBER 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
 7 5 90 0600

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.

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.

Provide materials and services to Sally Cmmt 4 1/2 production casing

JOB COMPLETION MO. DAY YR. TIME
 7 5 90 1224

STATE CODE COUNTY/PARISH CODE CITY
 Ks Hamilton

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

WELL NAME AND NUMBER / JOB SITE LOCATION AND POOL / PLANT ADDRESS SHIPPED VIA
 HCU Grandshaw OS

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048215 - 000	Dump truck	EA	1	1026.00	1026.00
N/A	Additional Footcass	EA	1	.11	.11
049102 - 000	Deliver Chrs	T/m	2522	.80	2017.60
049100 - 000	Service Chrs	F3	991	1.09	1090.28
059697 - 000	PACR	EA	1	110.00	110.00
059200 - 000	milage	mi	60	2.40	144.00
040003 - 000	0903 - Glass Cmmt	F3	416	9.30	3866.80
040015 - 000	0909 - Glass H cmmt	F3	200	7.15	1430.00
045008 - 000	035 - Outpace 3	F3	224	2.30	515.20
045014 - 050	020 - Bell	lbs	3310	.13	431.20
047005 - 100	SI Cals	lbs	1670	.32	534.40
045004 - 050	044 salt	lbs	4301	.10	430.10
044002 - 050	060 fluid loss	lbs	56	6.70	375.20
044003 - 025	029 cellophane flake	lbs	212	1.37	287.70
050101 - 027	4 1/2" Guide Shoe	EA	1	105.00	105.00
052004 - 044	4 1/2" Ado-Fill Collar	EA	1	385.00	385.00
052011 - 044	4 1/2" Centralizers	EA	4	48.00	192.00
052071 - 044	4 1/2" Turbolizers	EA	8	50.00	400.00
052070 - 044	4 1/2" Top Rubber Plug	EA	1	70.00	70.00
052019 - 044	4 1/2" Sbe Rings	EA	1	14.00	14.00
057499 - 001	Thread deck	EA	1	22.00	22.00
101433 - 050	J433 Bell	EA	5	15.00	75.00

Field Est \$ 12,671.48

SUB TOTAL

LICENSE/REIMBURSEMENT FEE

REMARKS: STATE COUNTY CITY % TAX ON \$

Thank you for using OS

SIGNATURE OF DSI REPRESENTATIVE
 Greg Black

TOTAL \$

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. **HCU 31-21C** LOCATION (LEGAL) _____
 FIELD-POOL **Bradshaw** FORMATION _____
 COUNTY/PARISH **Hamilton** STATE **Ks** API. NO. _____
 NAME **American Exploration**
 AND _____
 ADDRESS _____
 ZIP CODE _____

RIG NAME: **Cheyenne #5** **CONFIDENTIAL**
 WELL DATA: **BOTTOM**
 BIT SIZE **7 7/8** CSG/Liner Size **4 1/2**
 TOTAL DEPTH **2708** WEIGHT **9.5** **CONFIDENTIAL**
 ROT CABLE FOOTAGE **2709**
 MUD TYPE GRADE _____
 BHST BHCT THREAD **8 #2**
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) **38.20** TOTAL **43.2**
 MUD VISC. Disp. Capacity **2070.8**

SPECIAL INSTRUCTIONS
Provide Supplies + Services to Safety Cmt
4 1/2 production Casings
 IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE **1418** PSI CASING WEIGHT - SURFACE AREA (3.14 x R²) _____
 PRESSURE LIMIT **1000** PSI BUMP PLUG TO **1500** PSI
 ROTATE **yes** **600** RPM RECIPROCATE _____ FT No of Centralizers **12**

NOTE: Include Footage From Ground Level To Head In Disp. Capacity
 Floor TYPE **Collar** TYPE _____
 DEPTH **2071** DEPTH _____
 Shoe TYPE **Guide** TYPE _____
 DEPTH **2708** DEPTH _____
 Head & Plugs TBG D.P. SOUEEZE JOB
 Double SIZE _____ TOOL TYPE _____
 Single WEIGHT _____ DEPTH _____
 Swage GRADE _____ TAIL PIPE: SIZE _____ DEPTH _____
 Knockoff THREAD _____ TUBING VOLUME _____ Bbls
 TOP OR OW NEW USED CASING VOL. BELOW TOOL _____ Bbls
 BOT OR OW 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	NA				0600	7/5/90	0600	7/5/90	2100	7/5/90	
11:05											
11:10		30	80		5.6	H2O	8:34				
11:14		270	78.4		5.9	Cmt	12.4				
11:25		190	146		17.4	Cmt	12.4				
11:50		170	42		6.9	Cmt	15.6				
12:04		20									
12:09		10	43.3		2.9	H2O	8:34				
12:15		400			1.75	H2O	8:34				
12:20		1350			17	H2O	8:34				
12:24		0									
12:27											

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED			
			POZ/C	W20	SI	CH	BLS	DENSITY		
1.	420	2.21	35/45	6%	3%	10%	1/4" #16	1105.3	12.4	
2.	220	2.0	35/45	6%	3%	1/4" #16		78.4	12.4	
3.	200	1.18	CLASS H	3%	1/4" #16			42	15.6	
4.			RELEASED							
5.										
6.										

BREAKDOWN FLUID TYPE **NFC 8 1992** DENSITY **49.5** PRESSURE MAX. **1300** MIN. **0**
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO Bbls.
 BREAKDOWN PSI FINAL PSI **49.5** DISPLACEMENT VOL. MEASURED **49.5** TYPE OF WELL OIL GAS STORAGE INJECTION BRINE WATER WILDCAT
 Washed Thru Perfs () YES () NO TO _____ WIRELINE
 PERFORMATIONS TO _____ TO _____ CUSTOMER REPRESENTATIVE **Glen** DS SUPERVISOR **Mick Erick**

ORIGINAL
CASING & CEMENTING REPORT

KCC 15-075-20465-0000

NOV 06

CONFIDENTIAL

Well Name 31-21-C Location SW 1/4 Sec. 31 22-5
Casing 8 5/8 Date 7-2-90 41-4

Jts. On	m On	Size	Wt.					Jts. Depth	m Run
Locat.	Locat.	mm	kg/m	Cr.	Rge.	THD	T&C	Run	Landed
8		8 5/8	2000		4	10	5	8	350.02

Shoe Make Genco Type Texas Length 1.00 m
Collar Make Genco 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 362.22 m By Tally 362.22 m

CENTRALIZERS

SCRATCHERS

Make & No. Genco Position 352 312
Remarks (Thread Lock, Weld, Mill) Thread Lock
Bottom 3 collars and shoe

Hole Size 12 1/4 mm Casing In Hole Size _____ mm
Depth 365 m Setting Depth _____ m
Mud Type Brush Chem Wt. 8.8 kg/m Visc. 3.2 S/LWL N.A. cm
BOP's N.A.
Power Tong Co _____ Torque Max. _____ Min. _____
Casing String Wt. 7300 daN Remarks _____

Cementing Co. Dowell NOV 8 1990 Operator Doug HARRIS

TYPES & QUANTITIES OF CEMENT. Date 7-2-90

Filler Volume Amount 130 SX m³ Type 65/35 Poz Wt. 12.5 kg/m³
Additives 690 Gel 390 CC 1/4 R Flake
Tail In Volume Amount 100 SX m³ Type IT Wt. 15.5 kg/m³
Additives 390 CC 1/4 R Flake
HT. Cemented 500 R/C Water Ahead 20 BBL m³ Start Mix 7:30 m³
Finish Mix 7:50 m³ Pumping Press 225 kPa Bump Press 750 kPa
Float Held Yes Cement Returns Yes 4 BBL m³
Plug Down 7:58:00 Date 7-2-90
Wt. Landed in Slips _____ daN Make of Bowl _____
Size _____ mm Series _____ Slip & Seal Esembly _____
Remarks (Wellhead - Make, Type, Size) HARRIS

A.F.E 90044 **RELEASED**

Co. Rep. HARRIS

DEC 0 8 1992

FROM CONFIDENTIAL

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

NOV 06 15-075-20465-0000

ORIGINAL CONFIDENTIAL

OILFIELD SERVICES INDUSTRIAL SERVICES

DSI SERVICE ORDER RECEIPT AND INVOICE NO. 03-12-2780

DSI SERVICE LOCATION NAME AND NUMBER: U6955FS KS 03-12
 CUSTOMER NUMBER: _____ CUSTOMER P.O. NUMBER: _____ TYPE SERVICE CODE: 271 BUSINESS CODES: _____

CUSTOMER'S NAME: American Exploration
 ADDRESS: _____
 CITY, STATE AND ZIP CODE: _____

WORKOVER NEW WELL OTHER: W N API OR IC NUMBER: _____

ARRIVE LOCATION: MO. 7 DAY 2 YR. 90 TIME 1700

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. 7 DAY 2 YR. 90 TIME 2000

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.
UNIT 8 5/8" CASING W/ 130 SKS 6 5/8" (100)
+ 6 5/8" D2C + 370 SI + 1/4" D29
100 SKS CLASS H + 370 SI
+ 1/4" D29

STATE: KS COUNTY/PARISH: HAMILTON CITY: _____

WELL NAME AND NUMBER / JOB SITE: 3121C LOCATION AND POOL / PLANT ADDRESS: Sec 31 T22S, R41W SHIPPED VIA: Dowell Schlumberger

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048209-000	PUMP CHG	EA	1	433.00	433.00
048209-001	ADD. ST BELLOW 3.00'	FT	62	.41	25.42
U59200-002	PUMP MILEAGE	MILE	64	2.40	153.60
059697-000	PUMP CHG.	EA	1	110.00	110.00
049102-000	HALLING CHG 2200x	TON	706	.80	564.80
049100-000	SERVICE FLNG	COYD	254	1.08	274.32
04402-000	D903 CLASS H	SK	85	7.36	625.50
040015-000	D909 CLASS H	SK	100	7.15	715.00
045008-000	D35 LITE 27 3	SK	45	2.30	103.50
045014-050	D26 EXTENDER	LB	679	.13	88.27
044003-025	D29 (EPOXY) FLAKE	LB	58	1.37	79.46
067005-100	SI (ALUMINUM) CHG	LB	620	.32	198.72
050001-085	8 5/8" TAPER PATTERN SHE	EA	1	200.00	200.00
053003-085	CR. FACE FIELD INSERT	EA	1	300.00	300.00
056011-085	CENTRALIZERS	EA	2	68.00	136.00
048501-085	TOP WOODS	EA	4	24.00	96.00
056019-085	STOPPING	EA	1	21.00	21.00
057499-001	THREAD	EA	1	22.00	22.00

Field Estimate = \$4,131.59

REMARKS: Thanks for Using DSI!
 STATE: _____ COUNTY: _____ CITY: _____
 SIGNATURE OF DSI REPRESENTATIVE: Doug E. Hanned TOTAL \$: _____

CEMENTING SERVICE REPORT

ORIGINAL
DOWELL SCHLUMBERGER INCORPORATED

15-075-20465-0000
TREATMENT NUMBER 0372-2780 DATE 7-2-90
STAGE DS DISTRICT Ulysses

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. 3121C
LOCATION (LEGAL) Sec 31, T22S, R41W
FIELD-POOL Hegaton
FORMATION
COUNTY/PARISH Hamilton STATE Kansas APL. NO.
NAME American Exploration
AND
ADDRESS
ZIP CODE

RIG NAME: Cheyenne #5 KCC
WELL DATA: BIT SIZE 12 1/2 CSG/Liner Size 8 5/8 NOV 0 6
TOTAL DEPTH 369 WEIGHT 24
ROT CABLE FOOTAGE 366
MUD TYPE GRADE
BHST BHCT THREAD 8rd
MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 44
MUD VISC. Disp. Capacity 322

CONFIDENTIAL

SPECIAL INSTRUCTIONS
IS CASING/TUBING SECURED? YES NO
LIFT PRESSURE PSI CASING WEIGHT - SURFACE AREA (3.14 x R²)
PRESSURE LIMIT PSI BUMP PLUG TO 700 PSI
ROTATE RPM RECIPROCATATE FT No. of Centralizers 2

NOTE: Include Footage From Ground Level To Head In Disp. Capacity
Floor TYPE Office Insert DEPTH
SHOE TYPE Texas Pattern DEPTH
Head & Plugs TBG D.P. SQUEEZE JOB
 Double SIZE TOOL TYPE
 Single WEIGHT DEPTH
 Swage GRADE TAIL PIPE: SIZE DEPTH
 Knockoff THREAD TUBING VOLUME
TOP OW NEW USED CASING VOL. BELOW TOOL Bbls
BOT OW 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											
1931	N/A	150	10	-	6.0	H ₂ O	8-31				
1934		220	44	10	5.9	Int	12.4	PRE-JOB SAFETY MEETING			
1941		250	18	44	5.9	cmf	15.6	Begin Pumping Water Ahead			
1944		0	-	62	0	-	-	Begin Mixing Lead Cement			
1946		200	15	-	5.4	H ₂ O	8-34	Begin Mixing Tail Cement			
1949		120	5	15	7.9	H ₂ O	8-34	shut Down, Drop Plug			
1952		720	-	20	0	-	-	Begin Displacement			
1954		0	-	20	0	-	-	Lower Rate			
1955		0	-	-	-	-	-	Bump Plug - Shut Down			
								Bleed Off Pressure - float Held			
								End Job			

RECEIVED
NOV 8 1990
RELEASED
DEC 8 1992

REMARKS FROM CONFIDENTIAL

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	130	2.0	3 5/8 Poz/c 46% D 20 + 3% SI + 1/4 1 1/2 KD 29				46.3	12.1
2.								
3.	100	1.18	Class H + 3% SI + 1/4 1 1/2 KD 29				21.0	15.4
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. P60 MIN: 0
 HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO (115x) 4 Bbls
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 21 Bbls TYPE OF WELL OIL STORAGE BRINE WATER
 Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE GAS INJECTION WILDCAT
 PERFORMATIONS TO TO CUSTOMER REPRESENTATIVE Hawk Deamus DS SUPERVISOR Darryl E. Hanned

KCC

DRILLERS LOG

AMERICAN EXPLORATION COMPANY
HCU #3121-C
SECTION 31-T225-R4-1W
HAMILTON COUNTY, KANSAS

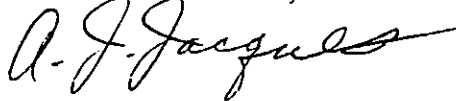
COMMENCED: 07-02-90
COMPLETED: 07-05-90

SURFACE CASING: 350' OF 8 5/8"
CMTD W/130 SX 65/35 POZ, 6% GEL,
3% C.C., 1/4#/SX D-29, TAILED IN
W/100 SX "H", 3% CC, 1/4#/SX D-29

FORMATION	DEPTH
SURFACE HOLE	0- 365
SAND & CLAY	365-1610
SHALE	1610-2182
SHALE & LIME	2182-2704 RTD

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

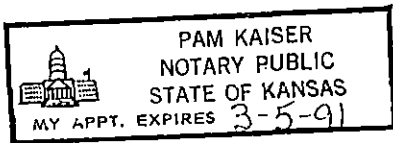
CHEYENNE DRILLING, INC.



A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 6TH DAY OF JULY, 1990.




PAM KAISER, NOTARY PUBLIC

RECEIVED
JUL - 9 1990
CONSERVATION DIVISION
Wichita, Kansas