

ORIGINAL

AMENDED REPORT

SIDE ONE

CONFIDENTIAL

RELEASED

SEP 0 7 1991

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

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: 5382

Wellsite Geologist: Ron 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

5/25/90 5/28/90 6/24/90

Spud Date Date Reached TD Completion Date

API NO. 15- 075-20,438-0000 FROM CONFIDENTIAL

County Hamilton

SE/4 Sec. 15 Twp. 24S Rge. 41 XX East West

1320 Ft. North from Southeast Corner of Section

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

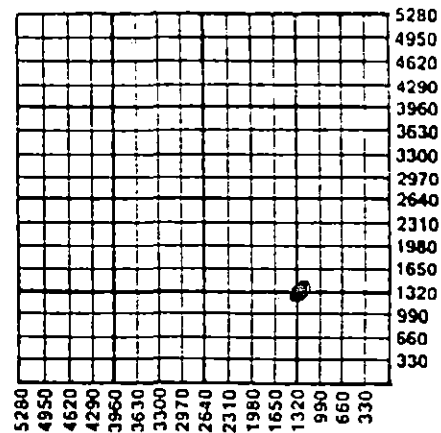
Lease Name HCU Well # 1541-B

Field Name Bradshaw

Producing Formation Winfield

Elevation: Ground 3271 KB \_\_\_\_\_

Total Depth 2446 PBTD 2410



8-22-90

Amount of Surface Pipe Set and Cemented at 357 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from 2446

feet depth to Surface w/ 850 ± 080 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 Senior 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

K.C.C. OFFICE USE ONLY

F  Letter of Confidentiality Attached

C  Wireline Log Received

Drillers Timelog Received

RECEIVED

Distribution

KCC  SWD/Rep  NGPA

KGS  Plug  Other

(Specify)

CONSERVATION DIVISION  
Wichita, Kansas

PI

4170017000

SIDE TWO

Operator Name American Exploration Company Lease Name HCU Well # 1541-B  
 Sec. 15 Twp. 24S 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 (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description  <input type="checkbox"/> Log <input type="checkbox"/> Sample  Name                      Top                      Bottom Stone Corral Anhy. ----- 1812 (+1450) Winfield                      2300 (+962) Ft. Riley                      2398 (+864)
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

**RELEASED**  
SEP 07 1991  
FROM CONFIDENTIAL

**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#	357	35/65 Poz	130	3% CC 5% gel
Production	7-7/8	4-1/2	9.5#	2446	Class H	100	1/4 # sk D-29
					DSLW	650	1/4 # sk + 3% gel
					Class H	200	3% CC, 3% D-60

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
	2303-06 & 2309-18	8,000 gals. pad 35,000# sd. 1,000 gals. 15% HCL acid + additives	

**TUBING RECORD** Size 2-3/8 Set At 2287' Packer At 2276 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 \_\_\_\_\_

ORIGINAL

DRILLERS LOG

CONFIDENTIAL

AMERICAN EXPLORATION COMPANY  
HCU #1541-B  
SECTION 15-T24S-R41W  
HAMILTON COUNTY, KANSAS

SEP 07 1991

FROM CONFIDENTIAL

COMMENCED: 05-25-90  
COMPLETED: 05-28-90

SURFACE CASING: 340' OF 8 5/8"  
CMTD W/130 SX DSLW, 6% GEL,  
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- 355
SAND & CLAY	355-1675
SHALE	1675-1804
CLAY & SHALE	1804-2446 RTD

RECEIVED  
STATE CORPORATION COMMISSION

19 22 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.

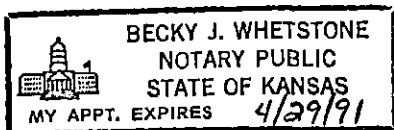
CHEYENNE DRILLING, INC.

*A. J. Jacques*

A. J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 30TH DAY OF MAY, 1990.



*Becky J. Whetstone*  
BECKY J. WHETSTONE, NOTARY PUBLIC

ORIGINAL

15-075-20438-0000

CASING & CEMENTING REPORT

CONFIDENTIAL

Well Name 15-41-B  
Casing 8 5/8" SURFACE

Location Sec 14 Sec 15 245 41W  
Date 5-25-90

Jts. On	m On	Size	Wt.					Jts. Depth	m Run
Locat.	Locat.	mm	kg/m	Cr.	Rge.	THD	T&C	Make	In Well
	8	85/8"	20.5		4	10	SPC	8	340.67
									m
									m
									m

Shoe Make GEMCO Type TEXAS Length 1.0 m  
 Collar Make GEMCO Type HGT. FILL Length \_\_\_\_\_ m  
 Landing Jt. (When Used) Length 15.00 m  
 Overall Length of Casing String 356.67 m  
 m Up From K.B. (subtract) 4.00 m  
 Setting Depth By Driller 352 m By Tally 352.67 m

CENTRALIZERS

SCRATCHERS

Make & No. GEMCO 3 Position 1-3  
 Remarks (Thread Lock, Weld, Mill) FIRST 3 COLLARS  
FLOAT AT 313

Hole Size 12 1/4 mm Casing In Hole Size 10 1/4 mm  
 Depth 355 m Setting Depth 352 m  
 Mud Type ERASH GEL Wt. S.G. kg/m<sup>3</sup> Visc. 40 S/LWL N.H. cm<sup>2</sup>  
 BOP's N.H.  
 Power Tong Co N.H. Torque Max. 7000 Min. 1000  
 Casing String Wt. 7200 daN Remarks \_\_\_\_\_

Cementing Co. DOWELL Operator \_\_\_\_\_

TYPES & QUANTITIES OF CEMENT Date 5-25-90

Filler Volume Amount 130 SX m<sup>3</sup> Type 35/65 POZ Wt. 12.4 kg/m<sup>3</sup>  
 Additives 390 CC G90621 1/4" D-29  
 Tail In Volume Amount 160 SX m<sup>3</sup> Type 14 Wt. 15.6 kg/m<sup>3</sup>  
 Additives 370 C.C. 1/4 D-29  
 HT. Cemented SURFACE Water Ahead 1334 m<sup>3</sup> Start Mix 10:35 P.M.  
 Finish Mix 11:55 P.M. m<sup>3</sup> Pumping Press 259 kPa Bump Press 300 kPa  
 Float Held NO Cement Returns YES  
 Plug Down 12:00 P.M. Date 5-25-90  
 Wt. Landed in Slips \_\_\_\_\_ daN Make of Bowl \_\_\_\_\_  
 Size \_\_\_\_\_ mm Series \_\_\_\_\_ Slip & Seal Esembly \_\_\_\_\_  
 Remarks (Wellhead - Make, Type, Size) \_\_\_\_\_

RELEASED

SEP 11 7 1991

Co. Rep. \_\_\_\_\_ FROM CONFIDENTIAL

OILFIELD SERVICES   
 INDUSTRIAL SERVICES

**CONFIDENTIAL**

DSI SERVICE LOCATION NAME AND NUMBER  
 Oilservs KS 03-12-2630

DSI SERVICE ORDER RECEIPT AND INVOICE NO.  
 03-12-2630

CUSTOMER NUMBER: \_\_\_\_\_ CUSTOMER P.O. NUMBER: \_\_\_\_\_ TYPE SERVICE CODE: 271 BUSINESS CODES: \_\_\_\_\_

CUSTOMER'S NAME: American Exploration

WORKOVER NEW WELL OTHER:  W  N  API OR IC NUMBER: \_\_\_\_\_

ADDRESS: \_\_\_\_\_  
 CITY, STATE AND ZIP CODE: \_\_\_\_\_

ARRIVE LOCATION: MO. 5 DAY 25 YR. 90 TIME 14.00

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.

Cmt 8 5/8 casing w/ 130 sks of 3 1/2" 16 + 6" 200 + 3 7/8 Casing + 1/4" 1/2" 209 + 100 sks of Class H + 3 7/8 Casing + 1/4" 1/2" 209

JOB COMPLETION: MO. 5 DAY 90 YR. 90 TIME \_\_\_\_\_

STATE: KS CODE: 15 COUNTY/PARISH: Hamilton CODE: 75 CITY: SURFACE

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE: \_\_\_\_\_

WELL NAME AND NUMBER / JOB SITE: HCU # 1541-B LOCATION AND POOL / PLANT ADDRESS: SEC. 15-245-41 W SHIPPED VIA: O.S.

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048208-000	Pump Csg	EA	1	433.00	433.00
048209-001	Add footage Below 300	Ft	55	.41	22.55
059200-002	Milage	Mi	54	2.40	129.60
049102-000	HAULING Mat. + Equip	Ton/m	570	.80	476.80
049100-000	Service Charge	Guft	254	1.08	274.32
040003-000	Q903 CLASS C	SKS	85	7.00	595.00
040015-000	Q909 CLASS H	"	100	6.85	685.00
045008-000	Q35 2 1/2" x 3	SKS	45m	2.30	103.50
045014-050	Q20 Seal	lbs	679	.13	88.27
067025-100	SI Casing	lbs	62	.32	19.84
044003-025	Q29 Cellulose flake	lb	58	1.37	79.46
050001-085	Tx pattern shoe	EA	1	2.00	2.00
053003-085	Auto fill insert	EA	1	3.00	3.00
056011-085	Centralizers	EA	2	68.00	136.00
048501-085	Top warden plug	EA	1	86.00	86.00
057499-001	K232 Thread Lck Kit	EA	1	82.00	82.00

**RELEASED**

RELEASED  
 SEP 07 1991

SUB TOTAL: 3830.02

LICENSE/REIMBURSEMENT FEE: \_\_\_\_\_  
 REMARKS: STATE: \_\_\_\_\_ % TAX ON \$: \_\_\_\_\_  
 COUNTY: \_\_\_\_\_ % TAX ON \$: \_\_\_\_\_  
 CITY: \_\_\_\_\_ % TAX ON \$: \_\_\_\_\_  
 SIGNATURE OF DSI REPRESENTATIVE: *W. Black* TOTAL \$: \_\_\_\_\_

CEMENTING SERVICE REPORT

**CONFIDENTIAL**

15-075-20438-0000  
 TREATMENT NUMBER 83-12 2640 DATE 5/28/90  
 STAGE DS DISTRICT 03-12

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. **HCU 1541-B** LOCATION (LEGAL) **SEC 15-25-41W** RIG NAME: **CHEYENNE # 5**

FIELD-POOL **BRADSHAW** FORMATION **WINFIELD** WELL DATA: BIT SIZE **7/8** CSG/Liner Size **4 1/2** BOTTOM TOP

COUNTY/PARISH **HAMILTON** STATE **KS** API. NO. TOTAL

NAME **AMEX** MUD TYPE GRADE WEIGHT **9.5**

AND **CONFIDENTIAL** FOOTAGE **2450**

ADDRESS **CONFIDENTIAL** GRADE MUD DENSITY **8.8d** LESS FOOTAGE SHOE JOINT(S) **2416**

ZIP CODE MUD VISC. **39** Disp. Capacity

SPECIAL INSTRUCTIONS **FURNISH EQUIPMENT: MIXPIKS**

**TODO 4/8 LIS**

**650 SX 3 1/2 105 1/6 + 6% D20 + 3% 51 + 1/4 1/2 SX D89**

**200 SX H + 0.3% D60 + 1/4 1/2 SX D89**

IS CASING/TUBING SECURED?  YES  NO

LIFT PRESSURE **1463** PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)

PRESSURE LIMIT PSI BUMP PLUG TO **500 OVER** PSI

ROTATE RPM RECIPROCATE FT No. of Centralizers

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

SHOE TOOL TYPE **COLLAR** TYPE DEPTH **2416** DEPTH

STAGE TOOL TYPE **CMT NOSE** TYPE DEPTH **2450** DEPTH

Head & Plugs  TBG  D.P. SQUEEZE JOB

Double SIZE TOOL TYPE

Single  WEIGHT TOOL DEPTH

Swage  GRADE TAIL PIPE: SIZE DEPTH

Knockoff  THREAD TUBING VOLUME Bbls

TOP  OR  W  NEW  USED CASING VOL. BELOW TOOL Bbls

BOT  OR  W DEPTH TOTAL Bbls

ANNUAL VOLUME Bbls

ARRIVE ON LOCATION TIME: **1:30** DATE: **5/28/90** LEFT LOCATION TIME: DATE: **5/28/90**

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM	TIME	DATE	INJECT RATE	FLUID TYPE	DENSITY	TIME	DATE
05:55		310	10				2				
05:56		320	232	10			7.6	CMT	12.4		
06:37		140	42	242			6.5	CMT	15.6		
06:50		0		248							
06:55		50	39	248			3.6	H2O	8.34		
07:01		470		287			1.8	H2O	8.34		
07:06		1170									

PRE-JOB SAFETY MEETING

START POLYMER 5433

START LEAD CMT

START TAIL CMT

SHUT DOWN & DROP PLUG

START DISPLACEMENT

LOWER RATE

Bump Plug: BIBED OFF.

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SEP 07 1991

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REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			1	2	3	4	BBLs	DENSITY
1.	650	2.0	35/65	105	1/6 + 6% D20 + 3% 51 + 1/4 1/2 SX D89	232	12.4	
2.	200	1.18			CLASS H + 0.3% D60 + 1/4 1/2 SX D89	42	15.6	
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE

HESITATION SO.  RUNNING SO. VOLUME CIRCULATION LOST DENSITY  YES  NO PRESSURE MAX. MIN. Cement Circulated To Surf.  YES  NO **10 3/5** Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **39** Bbls TYPE OF WELL  OIL  GAS  STORAGE  INJECTION  BRINE WATER  WILDCAT

Washed Thru Perfs  YES  NO TO FT. MEASURED DISPLACEMENT  WIRELINE

PERFORMATIONS TO TO CUSTOMER REPRESENTATIVE **David J. [Signature]** DS SUPERVISOR **[Signature]**

ORIGINAL

15.075-20438-0000  
CONFIDENTIAL

CASING & CEMENTING REPORT

Well Name H.C.O. 15-41-B  
Casing 4 1/2 Long String

Location S.W. 1/4 Sec. 15 T4S 41W  
Date 5-28-90

Jts. On	m On	Size	Wt.				Jts. Depth	m Run
Locat.	Locat.	mm	kg/m	Cr.	Rge.	THD	T&C	Run Landed
60		4 1/2	9.5		3		STC	58 2450.48
								m
								m
								m

Shoe Make GEMCO Type Reg. Length 1.0 m  
 Collar Make GEMCO Type Float 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 2446 m By Tally 2446.48 m  
 2446.48

CENTRALIZERS

SCRATCHERS

Make & No. Gemco 12 Make & No. \_\_\_\_\_  
 Position 1-3-5-7-17-19-21-23-25-27-29-31 Position \_\_\_\_\_  
 Remarks (Thread Lock, Weld, Mill) Shoe - Bottom 3 Collars

Hole Size 7 7/8 mm Casing In Hole Size 8 5/8 mm  
 Depth 2446 m Setting Depth 358 m  
 Mud Type FRASH Gel. Wt. 9.6 kg/m<sup>3</sup> Visc. 43 S/LWL 8.8 cm<sup>3</sup>  
 BOP's ANULAR  
 Power Tong Co FRANCO Torque Max. 1050 Min. 1000  
 Casing String Wt. 23275 daN Remarks \_\_\_\_\_

Cementing Co. Dowell Operator Mike

TYPES & QUANTITIES OF CEMENT

Date \_\_\_\_\_

Filler Volume Amount 650 Sx. m<sup>3</sup> Type 35/55 Poz Wt. 16.4 kg/m<sup>3</sup>  
 Additives 190 Gel 390 C.C. 1/4 Max. D-29  
 Tail In Volume Amount 200 Sx. m<sup>3</sup> Type H Wt. 19.5 kg/m<sup>3</sup>  
 Additives 390 C.C. 1/4 Max. D-29  
 HT. Cemented 500 Race Water Ahead 10 BBL m<sup>3</sup> Start Mix 5:55 A.M. m<sup>3</sup>  
 Finish Mix 6.20 A.H. m<sup>3</sup> Pumping Press 800 kPa Bump Press 1100 kPa  
 Float Held Yes Cement Returns Yes m<sup>3</sup>  
 Plug Down 7:05 A.M. Date 5-28-90  
 Wt. Landed in Slips 10100 daN Make of Bowl \_\_\_\_\_  
 Size \_\_\_\_\_ mm Series \_\_\_\_\_ Slip & Seal Esembly \_\_\_\_\_  
 Remarks (Wellhead - Make, Type, Size) 10 B.B.L. Cement  
Back

RELEASED

SEP 11 7 1991

Co. Rep. HAWIX FROM CONFIDENTIAL

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

CUSTOMER  
 15-075-20438-0000

**ORIGINAL**

OILFIELD SERVICES   
 INDUSTRIAL SERVICES

DSI SERVICE ORDER  
 RECEIPT AND INVOICE NO.  
 03-12 2040

DSI SERVICE LOCATION NAME AND NUMBER  
 03-12

CUSTOMER NUMBER CUSTOMER P.O. NUMBER TYPE SERVICE CODE BUSINESS CODES  
 03-12 2040 285

CUSTOMER'S NAME: **AMEX**  
 ADDRESS: **CONFIDENTIAL**  
 CITY, STATE AND ZIP CODE:

WORKOVER NEW WELL  OTHER  API OR IC NUMBER

ARRIVE LOCATION MO. DAY YR. TIME  
 5 28 90 1:30

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.

FURNISH EQUIPMENT: MATERIALS FOR 4 1/2 L/S  
 650 SY 35/65 POZ + 0.9% D-22 + 3% S1 + 1/4" SX D-29  
 200 SY H + 0.3% D-60 + 1/4" SX D-29

JOB COMPLETION MO. DAY YR. TIME  
 5 08 90 7:10

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

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE  
 [Signature]

WELL NAME AND NUMBER / JOB SITE: **HCU 1541-B** LOCATION AND POOL / PLANT ADDRESS: **SEC 15-243-41W** SHIPPED VIA: **DS**

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
059000-000	MILKAGE	MI	59	2.40	129.60
049100-000	DELIVERY CHG 79122/54	T/M 26	1	0.80	1710.40
049100-000	SERVICE CHG	CHLET	907	1.08	979.56
059697-000	PACK	EA	1	110.00	110.00
040003-000	D 903 - CLASS C	SX	423	7.00	2961.00
040015-000	D 909 - CLASS H	SX	200	6.85	1370.00
045008-000	D 35 - POZ	SX	228	2.30	524.10
045014-000	D 00 - BENTONITE	#	3393	0.13	441.09
067005-100	S1 - CALC G	#	170	0.32	54.40
044003-025	D 29 - GEL FLAKE	#	213	1.37	291.81
044000-050	D 60 - FLUID LOSS ADDITIVE	#	56	6.70	375.20
048600-000	CASING SWIVEL	EA	1	205.00	205.00
048214-000	PUMP CHG	EA	1	972.00	972.00
050002-044	ALUM NOSH GUIDE SHOES	EA	1	135.00	135.00
051004-044	FLOAT COLLAR	EA	1	225.00	225.00
056011-044	CENTRALIZERS	EA	4	47.50	190.00
056071-044	THERMALIZERS	EA	8	50.00	400.00
056704-044	TORR RUBBER PLUG	EA	10	7.00	70.00
056019-044	STOP PINCH	EA	10	1.40	14.00
057499-001	K220 THERM LOCK KIT	EA	2	22.00	44.00

RELEASED

SEP 07 1991

FROM CONFIDENTIAL  
 SUB TOTAL

FIELD EST. - \$11,204.40

REMARKS: THANKS FOR USING DSI.

LICENSE/REIMBURSEMENT FEE

STATE: \_\_\_\_\_ % TAX ON \$ \_\_\_\_\_  
 COUNTY: \_\_\_\_\_ % TAX ON \$ \_\_\_\_\_  
 CITY: \_\_\_\_\_ % TAX ON \$ \_\_\_\_\_

SIGNATURE OF DSI REPRESENTATIVE: [Signature] TOTAL \$



CEMENTING SERVICE REPORT

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

ORIGINAL

15-075-20438-0000  
 TREATMENT NUMBER 03-12-2420 DATE 3/25/90  
 STAGE DS DISTRICT ULYSSES KS

WELL NAME AND NO. HCU #1541B  
 LOCATION (LEGAL) Sec 15-242-41W  
 FIELD-POOL Bradshaw  
 COUNTY/PARISH Hamilton  
 STATE KS API. NO.  
 NAME American Exploration  
 ADDRESS **CONFIDENTIAL**  
 ZIP CODE

RIG NAME: Cheyenne #5  
 WELL DATA: BIT SIZE 2 1/4 CSG/Liner Size BOTTOM TOP  
 TOTAL DEPTH 355 WEIGHT 80  
 ROT  CABLE FOOTAGE 350  
 MUD TYPE GRADE 5.35  
 BHST.  BHCT THREAD PRW  
 MUD DENSITY LESS FOOTAGE SHOE JOINT(S) 45 TOTAL  
 MUD VISC. Disp. Capacity 30.4

SPECIAL INSTRUCTIONS Furnish Equip + materials  
 to cmt 878 casing  
 IS CASING/TUBING SECURED?  YES  NO  
 LIFT PRESSURE 122 PSI CASING WEIGHT + SURFACE AREA (3.14 x R<sup>2</sup>)  
 PRESSURE LIMIT PSI BUMP PLUG TO PSI  
 ROTATE RPM RECIPROCATATE FT No. of Centralizers - 2

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

Float	TYPE	Auto fill	TOOL	TYPE	
	DEPTH	313		DEPTH	
Shoe	TYPE	TX pattern	TOOL	TYPE	
	DEPTH	354		DEPTH	

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

TIME	PRESSURE		VOLUME PUMPED BBL		JOB SCHEDULED FOR			ARRIVE ON LOCATION		LEFT LOCATION	
	TBG OR D.P.	CASING	INCREMENT	CUM.	TIME: ASAP	DATE: 5/27/90	TIME: 1600	DATE: 5/25/90	TIME: 2130	DATE: 5-26-90	
0001 to 2400											
2330	120										
2334		80	12		5.8	H2O					
2334		100	46.3		5.8	Cmt	12.4				
2345		80	21		2.1	Cmt	15.4				
2357		10									
2358		10	20.4		5.8	H2O					
0001		40		15	2	H2O					
0005		570		21	2	H2O					
0006											
0008											

SERVICE LOG DETAIL  
 PRE-JOB SAFETY MEETING psi test  
 Start H2O Ahead  
 Start lead cmt  
 " Tail cmt  
 shutdown drop plug  
 start disp.  
 cmt to surface  
 bump plug  
 check float + not holding  
 pressure up to 270 psi  
 shut manifold in  
 end job  
 RELEASED  
 SEP 0.7 1991  
 FROM CONFIDENTIAL

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
			C				BBLs	DENSITY
1.	130	2.0	25/35 po2	+ 6% Q20	+ 3% CAC2	+ 1/4 #1029	46.3	12.4
2.	100	11.2	Class H	+ 3% CAC2	+ 1/4 #1029		21	15.4
3.								
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX. MIN.  
 HESITATION SO.  BUNNING SO. CIRCULATION LOST  YES  NO Cement Circulated To Surf.  YES  NO 5 Bbls  
 BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 20.4 Bbls  
 Washed Thru Perfs  YES  NO TO FT. MEASURED DISPLACEMENT FT.  WIRELINE  
 PERFORATIONS TO TO CUSTOMER REPRESENTATIVE Hawk Demas DS SUPERVISOR Greg Black



ORIGINAL REMIT TO: P.O. BOX 201556 HOUSTON TX 77216

INVOICE

15.075-20438.0000

AN EXPLORATION

2 SE KS 67878

CONFIDENTIAL

PAGE	1
INVOICE DATE	05/26/90
INVOICE NUMBER	03-12-2630
TYPE SERVICE	CEMENTING CEMENT SURFACE C

WELL NAME / JOB SITE	STATE	COUNTY / CITY	SERVICE FROM LOCATION	SHIPPED VIA	CUSTOMER P.O. NO./REF
41-B 1541B	KS	HAMILTON	ULYSSES KS	DS	
LOCATION / PLANT ADDRESS	DATE OF SERVICE ORDER	CUSTOMER OR AUTHORIZED REPRESENTATIVE			
24S-41W	05/25/90	DAROLD DEMOSS			

M CODE	DESCRIPTION	UOM	QTY	UNIT PRICE	AMOUNT
209000	0-1500' CASING CEMENTER	0HR	1	433.0000	433.00
209001	ADD'L PER-FT BELOW 300'	FT	55	.4100	22.55
200002	MILEAGE, ALL OTHER EQUIPMENT	MI	54	2.4000	129.60
102000	TRANSPORTATION CHNT TON MILE	MI	596	.8000	476.80
100000	SERVICE CHG CEMENT MATL LAND	CFT	254	1.0000	274.32
003000	D903, CEMENT CLASS C	CFT	85	7.0000	595.00
015000	D909, CEMENT CLASS H	CFT	100	6.8500	685.00
008000	D35, LITEPOZ 3 EXTENDER	CFT	45	2.3000	103.50
014050	D20, BENTONITE EXTENDER	LBS	679	.1300	88.27
005100	S1, CALCIUM CHLORIDE	LBS	621	.3200	198.72
003025	D29, CELLOPHANE FLAKES	LBS	58	1.3700	79.46
001085	SHOE REG PTTN GUIDE 8-5/8"	EA	1	200.0000	200.00
003085	INSERT ORIFICE FILL 8-5/8"	EA	1	300.0000	300.00
011085	CENTR REG 8-5/8, B DIA 12"	EA	2	60.0000	136.00
501085	PLUG CENG 8-5/8" WOODEN BODY	EA	1	86.0000	86.00
499001	K232, THD LKG COMPOUND KIT	EA	1	22.0000	22.00
	DISCOUNT - MATERIAL				773.11-
	DISCOUNT - SERVICE				414.25-
				SUB TOTAL --	2,642.86
C	STATE TAX ON			1,720.83	73.13
C	LOCAL TAX ON			1,720.83	17.20
				AMOUNT DUE --	2,733.19

RECEIVED STATE CORPORATION COMMISSION

RELEASED SEP 07 1991 FROM CONFIDENTIAL

CONSERVATION DIVISION Wichita, Kansas

Handwritten initials/signature

QUESTIONS CALL 316-356-1272

RAL TAX ID # 38-239-7173

THANK YOU. WE APPRECIATE YOUR BUSINESS.

Gary A. Kolstad G A KOLSTAD

S -- NET 30 DAYS DUE ON OR BEFORE JUN 25, 1990