

SIDE ONE

09-07-91

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

API NO. 15- 075-20,440 ~~0000~~ 09-07-91
FROM CONFIDENTIAL

County Hamilton
NW/4 Sec. 19 Twp. 22S Rge. 40 East
West

Operator: License # 04680

3960 Ft. North from Southeast Corner of Section

Name: American Exploration Company

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

Address 2100 NCNB Center

Lease Name HCU Well # 1920-C

700 Louisiana

Field Name Bradshaw

City/State/Zip Houston, Texas 77002

Producing Formation Winfield

Purchaser: KN Energy

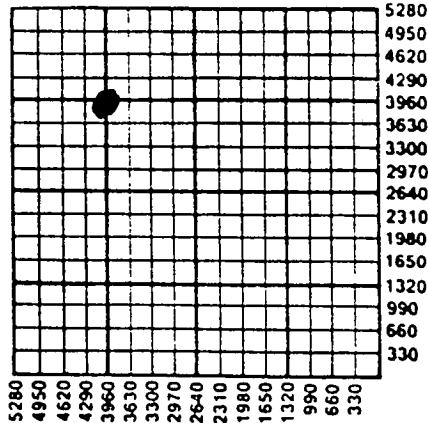
Elevation: Ground 3552 KB

Operator Contact Person: Marty B. McClanahan

Total Depth 2816 PBTD 2762

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 OWMO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

5/7/90 5/10/90 6/19/90

Spud Date Date Reached TD Completion Date

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 2816

feet depth to Surface w/ 800 1200 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 19 90

Notary Public [Signature]

Date Commission Expires 10-3-90



RECEIVED
STATE CORPORATION COMMISSION
OCT 3 1990

CONSERVATION DIVISION
Wichita, Kansas

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input type="checkbox"/>	Drillers Timelog Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug <input type="checkbox"/> Other
(Specify)		

SIDE TWO

Operator Name American Exploration Company Lease Name HCU Well # 1920-C

Sec. 19 Twp. 22 Rge. 40 East West
 County Hamilton

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

Formation Description		
Name	Top	Bottom
Stone Corral Anhy.	-----	2213 (+1350)
Winfield	2653 (+910)	
Ft. Riley	2748 (+815)	

Log Sample

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	Class H	350	2% CC
Production	7-7/8	4-1/2	9.5#	2815'	DSLW Class H	550 300	3% CC, 6% gel 1/4# sk D-29

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4SPF	2654-74'	1,000 gal. 15% HCL + additives 19,500 gals. frac. load	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-3/8	2621	2621	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 _____

DRILLERS LOG

AMERICAN EXPLORATION COMPANY
HCU #1920-C
SECTION 19-T22S-R40W
HAMILTON COUNTY, KANSAS

COMMENCED: 05-07-90
COMPLETED: 05-10-90

SURFACE CASING: 357' OF 8 5/8"
CMTD W/350 SX "H", 2% C.C.,
1/4# D-29

FORMATION	DEPTH
SURFACE HOLE	0- 370
SAND & CLAY	370-1150
SHALE & CLAY	1150-1929
SHALE	1929-2500
SHALE & LIME	2500-2816 RTD

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

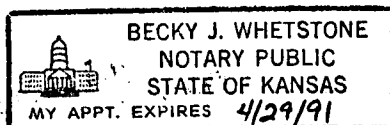
CHEYENNE DRILLING, INC.



A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 11TH DAY OF MAY, 1990.



BECKY J. WHETSTONE, NOTARY PUBLIC

51431

MAY 16 1990

CONSERVATION DIVISION
Wichita, Kansas

INVOICE

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

INVOICE DATE
05/10/90

918796
AMERICAN EXPLORATION
BOX 742
SYRACUSE KS 67878

PAGE
1

INVOICE NUMBER
03-12-2573

TYPE SERVICE
CEMENTING
CEMENT PRODUCTIO

WELL NO.	FORMATION	LOG WELL NO.	STATION	CUSTOMER P.O. NO./RE
HCU 1920 C	KS	HAMILTON	ULYSSES KS	DS

SEC 19-225-40W	DATE	AUTHORIZED REPRESENTATIVE
	05/10/90	JOHN HANNA

ITEM CODE	DESCRIPTION	UOM	QTY	UNIT PRICE	AMOUNT
048215000	CASING CENTR 2500-2999 FT.	SHR	1	1,026.0000	1,026.00
059200002	MILEAGE, ALL OTHER EQUIPMENT	MI	61	2.4000	146.40
049102000	TRANSPORTATION CHRT TON MILE	MI	2605	.0000	2,004.00
049100000	SERVICE CHG CEMENT MATL LAND	CFT	983	1.0000	1,061.64
059697000	PACR TREAT ANALYSIS RECORDER	JOB	1	110.0000	110.00
040003000	D903, CEMENT CLASS C	CFT	390	7.0000	2,730.00
040015000	D909, CEMENT CLASS H	CFT	300	6.8500	2,055.00
045000000	D35, LITEPOZ 3 EXTENDER	CFT	210	2.3000	483.00
045014050	D20, BENTONITE EXTENDER	LBS	3132	.1300	407.16
044003025	D29, CELLOPHANE FLAKES	LBS	225	1.3700	308.25
044002050	D60, FLAC FLUID LOSS ADDITIV	LBS	84	6.7000	562.80
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
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
056014044	RING STOP MAHWER 4-1/2"	EA	1	16.0000	16.00
056011044	CENTR REG 4-1/2, B DIA 7-3/4"	EA	4	48.0000	192.00
067005100	S1, CALCIUM CHLORIDE	LBS	1566	.3200	501.12
057499001	K232, THD LKG COMPOUND KIT	EA	2	22.0000	44.00
056711044	CENTR DEF 4-1/2, B DIA 6-1/2"	EA	8	50.0000	400.00
101094000	J433, WATER CNTRL POLYMER	LBS	34	1.7700	60.18
048600000	TOOLS, CASING SWIVEL RENTAL	JOB	1	205.0000	205.00
	DISCOUNT - MATERIAL				3,185.52-
	DISCOUNT - SERVICE				1,714.22-
				SUB TOTAL --	8,342.81
				STATE TAX ON	5,424.00
				AMOUNT DUE --	8,573.33

CONFIDENTIAL

RECEIVED
STATE CORPORATION COMMISSION
AUG 22 1990
CONSERVATION DIVISION
Wichita, Kansas

A.F.E.
4/2 LONG STRING

JF

WITH QUESTIONS CALL 316-356-1272
FEDERAL TAX ID # 38-239-7173
TERMS -- NET 30 DAYS DUE ON OR BEFORE JUN 09, 1990

THANK YOU. WE APPRECIATE YOUR BUSINESS.
Larry A. Koestad
G A KOESTAD

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER ORIGINAL

OILFIELD SERVICES
INDUSTRIAL SERVICES



DSI SERVICE ORDER
RECEIPT AND INVOICE NO.
03-12-2573

CONFIDENTIAL

DSI SERVICE LOCATION NAME AND NUMBER

1145565 K3 03-12

CUSTOMER NUMBER

CUSTOMER P.O. NUMBER

TYPE SERVICE CODE

285

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.

WORKOVER
NEW WELL
OTHER

W
 N
 X

API OR IC NUMBER

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO.	DAY	YR.	TIME
	5	10	90	0030

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	

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

STATE **Kansas** CODE _____ COUNTY / PARISH **HAMILTON** CODE _____ CITY _____

WELL NAME AND NUMBER / JOB SITE

Well # 1920-C

LOCATION AND POOL / PLANT ADDRESS

SEC 19-225-400

SHIPPED VIA

DS

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048215-000	Pump Truck Chg	EA	1	1026 ⁰⁰	1026 ⁰⁰
059200-002	Mileage Chg	Mi	61	2 ⁴⁰	146 ⁴⁰
049102-000	DELIVERY Chg 85,408 #61	T/M	2605	.80	2084 ⁰⁰
049100-000	SERVICE Chg	FT ³	983	1 ⁰⁸	1061 ⁰⁴
059697-000	PACK	EA	1	110 ⁰⁵	110 ⁰⁵
040003-000	CLASS C	WK	390	7 ⁰⁰	2730 ⁰⁰
040015-000	CLASS H	WK	300	6 ⁸⁵	2055 ⁰⁰
045008-000	LITE FOR 3	FT ³	210	2 ³⁰	483 ⁰⁰
045014-050	D20 BENTONITE	LB	3132	.13	407 ¹⁶
044003-025	D29 CELLULOSE FLOKE	LB	225	1 ³⁷	308 ²⁵
044002-050	D60 Fluid loss	LB	85	6 ²⁰	529 ⁵⁰
050002-044	SWIRL GUIDE SHOE	EA	1	135 ⁰⁰	135 ⁰⁰
052004-044	OFFICE FILL COLLAR	EA	1	385 ⁰⁰	385 ⁰⁰
056704-044	TOP RUBBER HUG	EA	1	70 ⁰⁰	70 ⁰⁰
056008-044	CEMENT BASKET	EA	2	130 ⁰⁰	260 ⁰⁰
056014-044	STOP KING	EA	1	116 ⁰⁰	116 ⁰⁰
056011-044	CENTRALIZERS	EA	4	48 ⁰⁰	192 ⁰⁰
048600-000	CASING SWIVEL	EA	1	205 ⁰⁰	205 ⁰⁰
067005-100	CALCIUM	LB	1566	.32	501 ¹²
057499-001	THREADED LOCK	EA	2	22 ⁰⁰	44 ⁰⁰
056711-044	TOOLHIZERS	EA	8	50 ⁰⁰	400 ⁰⁰
101094-000	S433 WATER CONTROL POLYMER	LB	34	17 ⁷²	602 ⁵⁸

Thanks for using DS!

FIELD ESTIMATE # **13,249²⁵**

SUB TOTAL

Price subject to DISC

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 \$

[Signature]

CASING & CEMENTING REPORT

ORIGINAL

CONFIDENTIAL

Well Name 1920-C H.C.U.
Casing 4 1/2

Location _____
Date 5-10-90

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	
73	3034.82	4 1/2	9.5		J	1. Prd	STHC		68	2815	m	2821.15
											m	
											m	
											m	

Shoe Make Weatherford Type REGULAR Length .8 m
Collar Make Weatherford Type AUTO FILL Length 1.8 m

Landing Jt. (When Used) Length _____ m
Overall Length of Casing String 2821.15 m
m Up From K.B. (subtract) 6.15 m

Setting Depth By Driller 2815 m By Tally 2815 m

CENTRALIZERS

SCRATCHERS

Make & No. Weatherford (12) Position 9766-2500 + 1918-1666
Remarks (Thread Lock, Weld, Mill) 3rd LOCK SHOE, COLLAR + NEXT
Three Collars 2 BASKETS Riding on JTS # 17 & 18

Hole Size 7 7/8 mm Casing In Hole Size 4 1/2 mm
Depth 2816 m Setting Depth 2815 m
Mud Type STARCH Wt. 9.4 kg/m Visc. 41 SLWL 9.7 cm
BOP's ANKER
Power Tong Co FRANCIS Torque Max. 1020 Min. 1000
Casing String Wt. 2600 daN Remarks _____

Cementing Co. Dowell-Schlumberger Operator GREG GREENWICH

TYPES & QUANTITIES OF CEMENT

Date 5-10-90

Filler Volume Amount 550 m³ Type 35/45 Wt. 1222 kg/m³
Additives 22 cc 60% KAT 1/4 P.S.K D-39
Tail In Volume Amount 300 m³ Type H Wt. 1516 kg/m³
Additives 3 1/2 D-60 1/4 P.S.K D-39
HT. Cemented _____ Water Ahead 25 m³ Start Mix _____ m³
Finish Mix _____ m³ Pumping Press 185 kPa Bump Press 1550 kPa
Float Held YPS Cement Returns FULL 30 B.B.L m³
Plug Down 6:45 AM Date 5-10-90
Wt. Landed in Slips 26000 daN Make of Bowl _____
Size _____ mm Series _____ Slip & Seal Esembly _____
Remarks (Wellhead - Make, Type, Size)

CONFIDENTIAL

Co. Rep. John E. Hanna

ORIGINAL CASING & CEMENTING REPORT

CONFIDENTIAL

Well Name 19-20-C Location N.W. 1/4 Sec. 19 22-5
 Casing 8 5/8 Surface Date 5-7-90 ¹⁰⁰ 40-4

Jts. On	m On	Size	Wt.					Jts. Depth	m Run
Locat.	Locat.	mm	kg/m	Cr.	Rge.	THD	T&C	Make	In Well
		8 5/8	20		4	10			355.29
									m
									m
									m

Shoe Make D.S. Type Texas Length 1.0 m
 Collar Make _____ Type _____ Length _____ m
 Landing Jt. (When Used) Length _____ m
 Overall Length of Casing String _____ m
 m Up From K.B. (subtract) _____ m
 Setting Depth By Driller 369.29 m By Tally 369.29 m 369.29 K.B.

CENTRALIZERS

SCRATCHERS

Make & No. D.S. Make & No. NONE
 Position 1 and 3 Position _____
 Remarks (Thread Lock, Weld, Mill) Bottom 3 JOINTS
HINDER LITTER (NEW) 4 5/8 x 4 1/2

Hole Size 12 1/4 mm Casing In Hole Size NONE mm
 Depth 370 m Setting Depth 369.29 m
 Mud Type BRUSH CHEM. Wt. 8.4 kg/m Visc. 36 S/LWL N.C. cm
 BOP's N.A.
 Power Tong Co N.A. Torque Max. _____ Min. _____
 Casing String Wt. 7100 daN Remarks _____

Cementing Co. Dowell Sch Operator Doug

TYPES & QUANTITIES OF CEMENT

Date 5-7-90

Filler Volume Amount 350 SY m³ Type H Wt. 15.5 kg/m³
 Additives 290 CC VTD-24
 Tail In Volume Amount N.A. m³ Type _____ Wt. _____ kg/m³
 Additives _____
 HT. Cemented _____ Water Ahead 10.334 m³ Start Mix 10:10 P.M. m³
 Finish Mix 10:25 m³ Pumping Press _____ kPa Bump Press _____ kPa
 Float Held Yes Cement Returns _____ m³
 Plug Down 10:40 P.M. 517-70 Date 5-7-90
 Wt. Landed in Slips _____ daN Make of Bowl HINDER LITTER
 Size 8 5/8 x 4 1/2 mm Series _____ Slip & Seal Esembly _____
 Remarks (Wellhead - Make, Type, Size) HINDER LITTER 8 5/8 x 4 1/2

RECEIVED
 STATE CORPORATION COMMISSION

MAY 22 1990 Co. Rep. H.A.A.K.