

ORIGINAL

CONFIDENTIAL

RELEASED

JAN 03 1992

SIDE ONE

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 700 Louisiana, Suite 2100
Houston, Texas 77002-2791
City/State/Zip Houston, Texas
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 OWMO: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

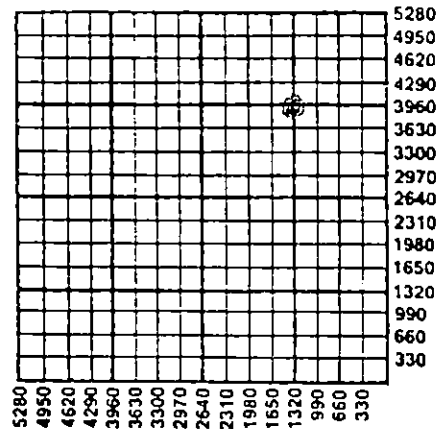
Drilling Method:
 Mud Rotary Air Rotary Cable
8/29/90 9/02/90 10/09/90
Spud Date Date Reached TD Completion Date

API NO. 15- 075-20,475-0000 FROM CONFIDENTIAL

County Hamilton
C NE/4 Sec. 9 Twp. 21S Rge. 41 East
_____ West
3960 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 # 0911-B
Field Name Bradshaw
Producing Formation Winfield

Elevation: Ground 3646 KB _____
Total Depth 2932 PBTD 2920

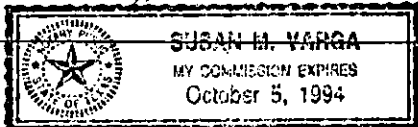


Amount of Surface Pipe Set and Cemented at 362 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 2932
feet depth to Surf. w/ 945 725 sx cmt.

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 Marty B. McClanahan
Title Sr. Production Analyst Date 12/14/90
Subscribed and sworn to before me this 14th day of December,
19 90.
Notary Public Susan M. Varga
Date Commission Expires _____



WICHITA COUNTY 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)

CONFIDENTIAL

SIDE TWO

Operator Name American Exploration Company Lease Name HCU Well # 0911-B

Sec. 9 Twp. 21S 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		
Name	Top	Bottom
Stone Corral		2370 (+1298)
Winfield	2764 (+904)	
Ft. Riley	2870 (+798)	

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	65/35 Poz Class H	120	6% gel, 3% CC
Production	7-7/8	4-1/2	9.5#	2965	DSLW Class H	525	3% CC, 1/4#/sx. 3% D-60 flake 6% gel, 10% salt

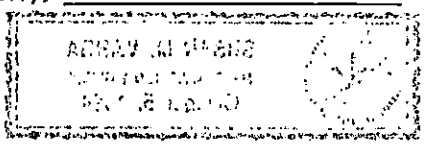
PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
2 SPF	2872-76	Treated each perf. w/50 gals. MCA
	2882-88'	acid
1 SPF	2853-62'	
	2834-45	
	2808-12	
	2816-20	
	2765-72	
	2780-84	

TUBING RECORD Size 2-3/8 Set At 2903 Packer At 2735 Liner Run Yes No

Date of First Production S.I. WOPL 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)



CEMENTING SERVICE REPORT



TREATMENT NUMBER: 03-12-3032 DATE: 08-30-90
 STAGE: 271 DS DISTRICT: WYSSAS KS (03-12)

DS-496 PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO.: HCU- ORIGINAL LOCATION (LEGAL): CHEYENNE #5 RIG NAME: CHEYENNE #5
 FIELD-POOL: HUGOTON FORMATION: Bradshaw WELL DATA: BOTTOM TOP
 COUNTY/PARISH: HAM. HON STATE: KANSAS API. NO.:
 NAME: American Exploration
 ADDRESS: ZIP CODE:

CONFIDENTIAL

SPECIAL INSTRUCTIONS: To cement 8 5/8" surface cas. to a depth of 358'
 Run Texas Pattern Guide shoe office fill collar 2 centralizers as hardware
 IS CASING/TUBING SECURED? YES NO
 LIFT PRESSURE: 1500 PSI Casing Weight = Surface Area (3.14 x R²)
 PRESSURE LIMIT: 1500 PSI BUMP PLUG TO: 500 over PSI
 ROTATE: - RPM RECIPROCATE: - FT No. of Centralizers: 2

JOB SCHEDULED FOR TIME: 08-29 DATE: 22:30 ARRIVE ON LOCATION TIME: 22:00 DATE: 08-29-90 LEFT LOCATION TIME: 07:30 DATE: 03-30-90

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											
PRE-JOB SAFETY MEETING											
06:32	-	1500	0	0	-	H ₂ O	8.34	Access Test Lines			
06:34	-	0	10	0	5.96	H ₂ O	8.34	Pump Water AHEAD			
06:36	-	140	47.5	10	5.99	CMF	12.40	START Pumping Lead Slurry			
06:44	-	190	20.0	57.5	5.96	CMF	15.00	START Pumping Tail Slurry			
06:47	-	0	-	77.5	-	-	-	SHUTDOWN - Drop Top Plug			
06:50	-	70	15	92.5	6.00	H ₂ O	8.34	START Pumping Displacement			
06:52	-	140	5.9	98.4	3.09	H ₂ O	8.34	Lower Pump Rate			
06:54	-	920	-	20%	-	-	-	Bump Top Plug			
06:55	-	0	0	20%	-	-	-	Bleed off Pressure - RELEASED			

JAN 03 1992

FROM CONFIDENTIAL

REMARKS:

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	120	2.1	(35/65) P2/class C + 6% D20 + 3% SJ + 1/4" SK D29				45	12.4
2.								
3.	100	1.18	CLASS H + 3% SJ + 1/4" SK D29				21	15.6
4.								
5.								
6.								

RECEIVED
 STATE CORPORATION COMMISSION
 WICHITA, KANSAS
 NOV 20 1990
 CONSERVATION DIVISION
 WICHITA, KANSAS

BREAKDOWN FLUID TYPE: HESITATION SQ. RUNNING SQ. VOLUME: CIRCULATION LOST: YES NO DENSITY: 21 Bbls PRESSURE: Cement Circulated To Surf. YES NO MAX. MIN.: 8 Bbls
 BREAKDOWN: PSI FINAL PSI DISPLACEMENT VOL. FT. MEASURED DISPLACEMENT: WIRELINE TYPE OF WELL: OIL GAS STORAGE INJECTION BRINE WATER WILDCAT
 PERFORATIONS: TO TO CUSTOMER REPRESENTATIVE: Hawk Dennis DS SUPERVISOR: James Wilkins

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

CUSTOMER

ORIGINAL

OILFIELD SERVICES	<input type="checkbox"/>
INDUSTRIAL SERVICES	<input type="checkbox"/>

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.
03-12-3032

DSI SERVICE LOCATION NAME AND NUMBER
Ulysses, KS (03-12)

CUSTOMER NUMBER	CUSTOMER P.O. NUMBER	TYPE SERVICE CODE 271	BUSINESS CODES
-----------------	----------------------	---------------------------------	----------------

CUSTOMER'S NAME

American Exploration

CONFIDENTIAL

ADDRESS

CITY, STATE AND ZIP CODE

WORKOVER	<input type="checkbox"/>	W	API OR IC NUMBER
NEW WELL	<input type="checkbox"/>	N	
OTHER	<input type="checkbox"/>		

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO. 08	DAY 29	YR. 90	TIME 22:00
-----------------	------------------	------------------	------------------	----------------------

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. 08	DAY 30	YR. 90	TIME 07:30
----------------	------------------	------------------	------------------	----------------------

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.

To Cement 8 5/8" Surface Casing to A depth of ± 365'. Run TEXAS Pattern Guide Shoe, Auto Fill Insert, 2 Centralizers, and Thread Lock as Hardware

STATE KANSAS	CODE	COUNTY / PARISH Hamilton	CODE	CITY Syracuse
------------------------	------	------------------------------------	------	-------------------------

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE
David DeJes

WELL NAME AND NUMBER / JOB SITE HCU	LOCATION AND POOL / PLANT ADDRESS Hugoton Pool -	SHIPPED VIA DS
---	--	--------------------------

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048209-000	Pump Truck CHARGE (Land Job)	Hrs	1	433. ⁰⁰	433. ⁰⁰
048209-001	Additional CHARGE Below 300'	ft	65	0. ⁴¹	26. ⁶⁵
049102-000	Delivery CHARGE (Hauling)	Ton/mile	739	0. ⁸⁰	591. ²⁰
049100-000	Service CHARGE (Land Job)	CFT	242	1. ⁰⁸	261. ³⁶
059697-000	PACR (Design/Monitor)	Job	1	110. ⁰⁰	110. ⁰⁰
059200-002	Mileage CHARGE	Mile	70	2. ⁴⁰	168. ⁰⁰
056011-085	Centralizer (8 5/8")	each	2	68. ⁰⁰	136. ⁰⁰
053003-085	Insert Float Valve - orifice Fill	each	1	300. ⁰⁰	300. ⁰⁰
050002-085	TEXAS Pattern Guide Shoe (8 5/8")	each	1	200. ⁰⁰	200. ⁰⁰
048501-085	Top wooden Plug	each	1	86. ⁰⁰	86. ⁰⁰
057499-001	Thread Lock kit	each	1	22. ⁰⁰	22. ⁰⁰
040003-000	CLASS "C" Cement	CFT	78	7. ⁰⁰	546. ⁰⁰
040015-000	CLASS "H" Cement	CFT	100	6. ⁸⁵	685. ⁰⁰
045008-000	Lite Poz 3 (LADue)	CFT	42	2. ³⁵	96. ⁶⁰
045014-050	D20 (Bentonite Extender)	lb	626	0. ¹³	81. ³⁸
067005-100	S3 (Calcium Chloride)	lb	595	0. ³²	190. ⁴⁰
044003-025	D29 (Cellulose Flakes)	lb	55	1. ³⁷	75. ³⁵

ORDER RECEIPT

RECEIVED
STATE CORPORATION COMMISSION
DEC 26 1990

CONSERVATION DIVISION	Field Estimate # 4008. ⁹⁴	SUB TOTAL
-----------------------	--------------------------------------	-----------

LICENSE/REIMBURSEMENT FEE			
LICENSE/REIMBURSEMENT FEE			

REMARKS: Thank You For Using DS	STATE	% TAX ON \$
	COUNTY	% TAX ON \$
	CITY	% TAX ON \$
	SIGNATURE OF DSI REPRESENTATIVE <i>James R. Wilkins</i>	TOTAL \$

GENERAL TERMS AND CONDITIONS

1. **AMENDMENTS.** Any modification of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this contract, are hereby objected to. BY REQUESTING THE GOODS AND SERVICES SET FORTH HEREIN, BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED ON BOTH SIDES OF THIS DOCUMENT.

2. **TERMS.** Cash in advance unless DSI has approved credit prior to the sale. Credit terms of sale for approved accounts are total invoice amount due at DSI's office, Houston, Texas, on or before the 30th day from the date of invoice. Past due accounts are to pay interest on the balance past due, at the rate of 1½% per month or the maximum allowable by the applicable state laws if such laws limit interest to a lesser amount. In the event it is necessary to employ an agency and/or attorney to effect collection of said account, Customer agrees to pay all fees directly or indirectly incurred for such collection.

3. **PRICES.** The products and services to be supplied hereunder shall be priced in accordance with DSI's current Price Schedule. As provided in DSI's Price Schedule, special jobs, under unusual conditions, will be subject to special price quotations to reflect increased or reduced costs.

4. **TAXES.** Any tax based on or measured by the charge for sale or rental of products or rendering of service shall be added to the price stated in DSI's Price Schedule.

5. **INDEPENDENT CONTRACTOR.** DSI is and shall be an independent contractor with respect to the performance of this contract, and neither DSI nor anyone employed by DSI shall be the agent, representative, employee or servant of Customer in the performance of this contract or any part hereof.

6. **FORCE MAJEURE.** Any delays or failure by DSI in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident, riot, acts of God, or any contingencies beyond the reasonable control of DSI.

7. **DISPOSAL.** Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

12. **SEVERABILITY.** It is understood and agreed by the parties hereto that any part, term, or provision of this Contract prohibited by law shall be deemed invalid to the extent of such prohibition and shall be deemed modified to the extent necessary to conform to such rule of law.

8. **PRODUCT SALES AND RENTALS - WARRANTY.** DSI warrants only that products (including tools, supplies and materials) furnished shall conform to the quality and specification represented and that DSI can convey good title; DSI MAKES NO WARRANTY OF MERCHANTABILITY, OR THAT SAID PRODUCTS SHALL BE FIT FOR ANY PARTICULAR PURPOSE, NOR IS THERE ANY OTHER WARRANTY EXPRESSED OR IMPLIED EXCEPT AS EXPRESSLY STATED HEREIN. DSI's liability and Customer's exclusive remedy for any cause of action arising out of a product sale or rental pursuant hereto is expressly limited at DSI's option to (a) replacement or such product upon its return to DSI or (b) allowance to Customer of credit for the cost of such product.

9. **SERVICE WARRANTY.** In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, DSI will give Customer the benefit of its best judgment based on its experience in the field. Nevertheless, all such recommendations or predictions are opinions only; and, in view of the impracticability of obtaining first-hand knowledge of the many variable conditions and/or the necessity of relying on facts and supporting services furnished by others, NO WARRANTY IS GIVEN CONCERNING THE EFFECTIVENESS OF THE MATERIALS USED, RECOMMENDATIONS GIVEN, OR THE SERVICES RENDERED.

10. **LIABILITY AND INDEMNITY.** Customer agrees to be responsible for and to defend, indemnify and save harmless DSI, its officers, agents and employees, from any and all claims, loss, damage or expense by reason of accident, injuries, damages or hurt to any person or property, including property of DSI or Customer, that may occur in connection with or related to the performance of this contract and which is caused in whole or in part by the negligent act or omission of Customer, its agents, servants or employees and whether or not caused in part by the negligent act or omission of DSI. In no event shall DSI be liable for any special, incidental, indirect, punitive, or consequential damage, including, but not limited to, loss of use or loss of profit, for breach of contract, negligence (including DSI's sole negligence) or any other cause of action.

11. **DSI.** The term "DSI" as used herein is an abbreviation of Dowell Schlumberger Incorporated and where used throughout this agreement, shall be construed to mean Dowell Schlumberger Incorporated, a Delaware corporation.

SPECIAL TERMS AND CONDITIONS

In addition to the foregoing General Terms and Conditions which are applicable to all services and products furnished by DSI, the following Special Terms and Conditions are applicable to Oil Field Services and Mining Services. In the event of any conflict, inconsistency, or incongruity between the General Terms and Conditions and the Special Terms and Conditions, the Special Terms and Conditions shall govern and control.

13. **WELL.** The term "well" as used herein shall also be construed to include and mean a "mine" or other property being serviced where the work to be performed involves DSI mining services.

14. **CUSTOMER'S RESPONSIBILITY & INDEMNITIES.** The parties agree that Customer has complete custody and control of the well, the conditions created in the well, the drilling equipment, well premises and access routes from highways to well locations. Customer will have the well in readiness for the service and, following service, will return the well to production. The parties further agree that unless caused by DSI's willful misconduct or failure to exercise good faith, Customer shall be fully responsible for and defend, indemnify and save harmless DSI, its officers, agents and employees against:

(i) Liability for damage to property of Customer (and well owner if different from Customer), this provision applying but not limited to subsurface damage and surface damage arising from subsurface damage including any liability based in whole or in part on the negligence of DSI.

(ii) Liability for reservoir loss or damage, or any property damage (including but not limited to damages caused by pollution or contamination), or personal injuries resulting directly or indirectly from subsurface pressure, well blowout or cratering, or losing control of the well including any liability based in whole or in part on the negligence of DSI.

(iii) Liability for any damages whatever resulting directly or indirectly from a subsurface trespass, pollution or contamination arising out of any servicing operation performed by DSI or Customer including any liability based in whole or in part on the negligence of DSI.

(iv) Liability for injury to persons (including death) or damage to property, other than employees and property of DSI, growing out of or in any way, connected with the use of materials in the well which are radioactive, poison, toxic or otherwise hazardous including any liability based in whole or in part on the negligence of DSI.

(v) Liability for damages to property of customer or third parties or injuries to persons caused or alleged to have been caused by contamination or pollution from the application or use of products designed to control dust, wind erosion, product loss, sealing of ponds, reservoirs, irrigation canals, or sanitary landfills including any liability based in whole or in part on the negligence of DSI.

(vi) Liability for injury to persons (including death) or damage to property growing out of or in any way connected to the use of various equipment provided by DSI at no cost for the sole convenience of and use by the Buyer including any liability based in whole or in part on the negligence of DSI.

(vii) Liability for damage to property of Customer (and well owner if different from Customer) resulting, directly or indirectly, from tools or instruments of DSI being lost in a well, including any liability based in whole or in part on the negligence of DSI.

15. **DOWN - HOLE TOOLS AND INSTRUMENTS.** If tools or instruments of DSI are lost in a well, Customer agrees to make a reasonable effort at Customer's risk and expense to recover same; and, if unable to recover, to pay DSI for same unless such loss or damage was caused solely by DSI's negligence.

16. **OFFSHORE & MARINE OPERATIONS.** For offshore marine operations Customer agrees to insure against loss and assumes full responsibility for damage to equipment furnished by DSI from time of delivery to Customer at landing until returned to landing when transported on craft, or located on platforms not owned or leased by DSI.

Customer shall furnish transportation for crew changes at customers expense.

CEMENTING SERVICE REPORT



ORIGINAL

DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER 03-12-3048	DATE 9-1-90
STAGE DS	DISTRICT Ulysses TX

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO. HCU 0911-B	LOCATION (LEGAL) Sec 9-215-416
FIELD-POOL Bradshaw	FORMATION Winn Field
COUNTY/PARISH Hamilton	STATE KS
API. NO.	
NAME American Exploration	
AND	
ADDRESS	
ZIP CODE	

RIG NAME: Cherokee Drilling # 5	WELL DATA:	BOTTOM	TOP
BIT SIZE 1 7/8	CSG/Liner Size 4 1/2		
TOTAL DEPTH 2967.8	WEIGHT 4.3		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE 2967.8		
MUD TYPE	GRADE SS		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD 2 1/2		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S) 3.4		TOTAL
MUD VISC.	Disp. Capacity 47.5		

CONFIDENTIAL

SPECIAL INSTRUCTIONS
CMT. 4 1/2 casing

NOTE: Include Footage From Ground Level To Head In Disp. Capacity					
Float	TYPE note Full Float collar	DEPTH 2933.91	Stage Tool	TYPE	DEPTH
SHOE	TYPE cement nose	DEPTH 2967.80		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	<input type="checkbox"/> WEIGHT	DEPTH			
<input type="checkbox"/> Swage	<input type="checkbox"/> GRADE	TAIL PIPE: SIZE		DEPTH	
<input type="checkbox"/> Knockoff	<input type="checkbox"/> THREAD	TUBING VOLUME		Bbls	
TOP <input type="checkbox"/> DR <input type="checkbox"/> W	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL		Bbls	
BOT <input type="checkbox"/> DR <input type="checkbox"/> W	DEPTH	TOTAL		Bbls	
ROTATE RPM RECIPROCATE FT No. of Centralizers 12		ANNUAL VOLUME		Bbls	

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE 1774 PSI CASING WEIGHT - SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI BUMP PLUG TO 1500 PSI

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											
1440		2340									
1449			10		6 1/2	H2O					
1451			10		6 1/2	H2O					
1453			207		5 1/2 cm+	12.4					
1529			42		4 cm+	15.6					
1538											
1541			47.5		5 1/2	H2O					
1545		300	23		5 1/2	H2O					
1547		800	36		5 1/2	H2O					
1548		750	40		4	H2O					
1549		900	44		2	H2O					
1552		1500	48		2	H2O					
1555											

SERVICE LOG DETAIL

PRE-JOB SAFETY MEETING PSI Test

start water ahead

start polymer

start load cement

start tail cement

shut down wash pump lines deep trippley

start displacement

cement to surface

36 bbls AUV

lower rate

bump top plug lower rate

bring top plug

char float + holding

end job

RELEASED
JAN 03 1992

REMARKS FROM CONFIDENTIAL

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS				SLURRY MIXED	
							BBLs	DENSITY
1.	525	2.21	65C 35 sp2 + 6% D2O + 3% carls + 10% DREVEN #1/D29				206.6	12.4
2.								
3.	200	1.18	class H + 3% carls + 1/4 D29				42	15.6
4.								
5.								
6.								

BREAKDOWN FLUID TYPE VOLUME

HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To Surf. YES NO 24 Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 47.5 Bbls

Washed Thru Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS CUSTOMER REPRESENTATIVE DS SUPERVISOR

TO TO Fearl Burke James Esquivel

DOWELL SCHLUMBERGER INCORPORATED

P.O. BOX 4378 HOUSTON, TEXAS 77210

D.S.I. REPRESENTATIVE

ORIGINAL

OILFIELD SERVICES
INDUSTRIAL SERVICES

DSI SERVICE ORDER
RECEIPT AND INVOICE NO.

DSI SERVICE LOCATION NAME AND NUMBER

Whisper AS 03-12

CUSTOMER NUMBER

418796

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.

Furnish equipment & materials to repair 4 1/2 casing

CONFIDENTIAL

WORKOVER W
NEW WELL N
OTHER

API OR IC NUMBER

IMPORTANT
SEE OTHER SIDE FOR TERMS & CONDITIONS

ARRIVE LOCATION	MO.	DAY	YR.	TIME
<i>8</i>	<i>1</i>	<i>10</i>	<i>1100</i>	

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
	<i>9</i>	<i>1</i>	<i>10</i>	<i>10</i>

SIGNATURE OF CUSTOMER OR AUTHORIZED REPRESENTATIVE

[Signature]

STATE	CODE	COUNTY / PARISH	CODE	CITY
<i>X</i>		<i>Hamilton</i>		

WELL NAME AND NUMBER / JOB SITE

HCU

LOCATION AND POOL / PLANT ADDRESS

Sec 4 215-416

SHIPPED VIA

TS

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
048215-000	Pump +rs chg.	EA	1	1026.00	1026.00
049102-000	hoisting 44199' \$74	unit	2745	.80	2196.00
049100-000	secure clip	unit	875	1.08	945.00
059697-000	Pack chg.	EA	1	110.00	110.00
048600-000	skirt	EA	1	205.00	205.00
040003-000	0403 class C	SK	341	7.00	2387.00
040015-000	0409 class 4	SK	203	6.85	1370.00
045008-000	045 class 2	SK	184	2.50	423.20
045014-050	020	lb	2441	.13	356.23
045004-050	020 salt	lb	2416	.10	241.60
047005-100	020	lb	1370	.22	438.40
044003-025	024 wellbore marker	lb	181	1.37	247.97
044002-050	020 fluid loss additive	lb	546	6.70	3652.00
051200-002	oil base	unit	14	2.40	31.60
050101-044	cement grout shoe	EA	1	105.00	105.00
052004-044	nut & oil collar	EA	1	385.00	385.00
056011-044	rod collars	EA	4	48.00	192.00
056711-044	Trubolts	EA	8	50.00	400.00
056704-044	Top nut & shoe	EA	1	70.00	70.00
056014-044	straps	EA	8	16.00	128.00
057444-444	Thread lock	EA	1	22.00	22.00
101044-000	3433 polymer	lb	93	7.11	661.23
	hydro bonders	EA	7	45.00	315.00

THANKS FOR USING DSI

RECEIVED
STATE CORPORATION COMMISSION
SUB TOTAL

RELEASED

Field esti. 12488.86 1090

JAN 03 1992

LICENSE/REIMBURSEMENT FEE

LICENSE/REIMBURSEMENT FEE

REMARKS:

AFR 70-047

SUBJECT TO DISCOUNT

RSE

STATE

COUNTY

CITY

SIGNATURE OF DSI REPRESENTATIVE

% TAX ON \$

% TAX ON \$

% TAX ON \$

TOTAL \$

CONSERVATION DIVISION
Wichita, Kansas

FROM CONFIDENTIAL

James C. Englund

GENERAL TERMS AND CONDITIONS

1. **AMENDMENTS.** Any modification of this document by the Customer, and all additional or different terms included in the Customer's purchase order or any other document responding to this contract, are hereby objected to. BY REQUESTING THE GOODS AND SERVICES SET FORTH HEREIN, BUYER AGREES TO ALL THE TERMS AND CONDITIONS CONTAINED ON BOTH SIDES OF THIS DOCUMENT.

2. **TERMS.** Cash in advance unless DSI has approved credit prior to the sale. Credit terms of sale for approved accounts are total invoice amount due at DSI's office, Houston, Texas, on or before the 30th day from the date of invoice. Past due accounts are to pay interest on the balance past due at the rate of 1½% per month or the maximum allowable by the applicable state laws if such laws limit interest to a lesser amount. In the event it is necessary to employ an agency and/or attorney to effect collection of said account, Customer agrees to pay all fees directly or indirectly incurred for such collection.

3. **PRICES.** The products and services to be supplied hereunder shall be priced in accordance with DSI's current Price Schedule. As provided in DSI's Price Schedule, special jobs, under unusual conditions, will be subject to special price quotations to reflect increased or reduced costs.

4. **TAXES.** Any tax based on or measured by the charge for sale or rental of products or rendering of service shall be added to the price stated in DSI's Price Schedule.

5. **INDEPENDENT CONTRACTOR.** DSI is and shall be an independent contractor with respect to the performance of this contract, and neither DSI nor anyone employed by DSI shall be the agent, representative, employee or servant of Customer in the performance of this contract or any part hereof.

6. **FORCE MAJEURE.** Any delays or failure by DSI in the performance of this contract shall be excused if and to the extent caused by war, fire, flood, strike, labor trouble, accident, riot, acts of God, or any contingencies beyond the reasonable control of DSI.

7. **DISPOSAL.** Disposal of the chemicals used in the performance of this contract is the responsibility of Customer. Customer agrees the chemicals will be disposed of in accordance with all applicable Federal, State and local laws and regulations.

12. **SEVERABILITY.** It is understood and agreed by the parties hereto that any part, term, or provision of this Contract prohibited by law shall be deemed invalid to the extent of such prohibition and shall be deemed modified to the extent necessary to conform to such rule of law.

SPECIAL TERMS AND CONDITIONS

In addition to the foregoing General Terms and Conditions which are applicable to all services and products furnished by DSI, the following Special Terms and Conditions are applicable to Oil Field Services and Mining Services. In the event of any conflict, inconsistency, or incongruity between the General Terms and Conditions and the Special Terms and Conditions, the Special Terms and Conditions shall govern and control.

13. **WELL.** The term "well" as used herein shall also be construed to include and mean a "mine" or other property being serviced where the work to be performed involves DSI mining services.

14. **CUSTOMER'S RESPONSIBILITY & INDEMNITIES.** The parties agree that Customer has complete custody and control of the well, the conditions created in the well, the drilling equipment, well premises and access routes from highways to well locations. Customer will have the well in readiness for the service and, following service, will return the well to production. The parties further agree that unless caused by DSI's willful misconduct or failure to exercise good faith, Customer shall be fully responsible for and defend, indemnify and save harmless DSI, its officers, agents and employees against:

(i) Liability for damage to property of Customer (and well owner if different from Customer), this provision applying but not limited to subsurface damage and surface damage arising from subsurface damage including any liability based in whole or in part on the negligence of DSI.

(ii) Liability for reservoir loss or damage, or any property damage (including but not limited to damages caused by pollution or contamination), or personal injuries resulting directly or indirectly from subsurface pressure, well blowout or cratering, or losing control of the well including any liability based in whole or in part on the negligence of DSI.

(iii) Liability for any damages whatever resulting directly or indirectly from a subsurface trespass, pollution or contamination arising out of any servicing operation performed by DSI or Customer including any liability based in whole or in part on the negligence of DSI.

(iv) Liability for injury to persons (including death) or damage to property, other than employees and property of DSI, growing out of or in any way, connected with the use of materials in the well which are radioactive, poison, toxic or otherwise hazardous including any liability based in whole or in part on the negligence of DSI.

8. **PRODUCT SALES AND RENTALS - WARRANTY.** DSI warrants only that products (including tools, supplies and materials) furnished shall conform to the quality and specification represented and that DSI can convey good title; DSI MAKES NO WARRANTY OF MERCHANTABILITY, OR THAT SAID PRODUCTS SHALL BE FIT FOR ANY PARTICULAR PURPOSE, NOR IS THERE ANY OTHER WARRANTY EXPRESSED OR IMPLIED EXCEPT AS EXPRESSLY STATED HEREIN. DSI's liability and Customer's exclusive remedy for any cause of action arising out of a product sale or rental pursuant hereto is expressly limited at DSI's option to (a) replacement or such product upon its return to DSI or (b) allowance to Customer of credit for the cost of such product.

9. **SERVICE WARRANTY.** In interpreting information and making recommendations, either written or oral, as to type or amount of material or service to be furnished, or manner of performance, or in predicting results to be obtained therefrom, DSI will give Customer the benefit of its best judgment based on its experience in the field. Nevertheless, all such recommendations or predictions are opinions only; and, in view of the impracticability of obtaining first-hand knowledge of the many variable conditions and/or the necessity of relying on facts and supporting services furnished by others, NO WARRANTY IS GIVEN CONCERNING THE EFFECTIVENESS OF THE MATERIALS USED, RECOMMENDATIONS GIVEN, OR THE SERVICES RENDERED.

10. **LIABILITY AND INDEMNITY.** Customer agrees to be responsible for and to defend, indemnify and save harmless DSI, its officers, agents and employees, from any and all claims, loss, damage or expense by reason of accident, injuries, damages or hurt to any person or property, including property of DSI or Customer, that may occur in connection with or related to the performance of this contract and which is caused in whole or in part by the negligent act or omission of Customer, its agents, servants or employees and whether or not caused in part by the negligent act or omission of DSI. In no event shall DSI be liable for any special, incidental, indirect, punitive, or consequential damage, including, but not limited to, loss of use or loss of profit, for breach of contract, negligence (including DSI's sole negligence) or any other cause of action.

11. **DSI.** The term "DSI" as used herein is an abbreviation of Dowell Schlumberger Incorporated and where used throughout this agreement, shall be construed to mean Dowell Schlumberger Incorporated, a Delaware corporation.

(v) Liability for damages to property of customer or third parties or injuries to persons caused or alleged to have been caused by contamination or pollution from the application or use of products designed to control dust, wind erosion, product loss, sealing of ponds, reservoirs, irrigation canals, or sanitary landfills including any liability based in whole or in part on the negligence of DSI.

(vi) Liability for injury to persons (including death) or damage to property growing out of or in any way connected to the use of various equipment provided by DSI at no cost for the sole convenience of and use by the Buyer including any liability based in whole or in part on the negligence of DSI.

(vii) Liability for damage to property of Customer (and well owner if different from Customer) resulting, directly or indirectly, from tools or instruments of DSI being lost in a well, including any liability based in whole or in part on the negligence of DSI.

15. **DOWN - HOLE TOOLS AND INSTRUMENTS.** If tools or instruments of DSI are lost in a well, Customer agrees to make a reasonable effort at Customer's risk and expense to recover same; and, if unable to recover, to pay DSI for same unless such loss or damage was caused solely by DSI's negligence.

16. **OFFSHORE & MARINE OPERATIONS.** For offshore marine operations Customer agrees to insure against loss and assumes full responsibility for damage to equipment furnished by DSI from time of delivery to Customer at landing until returned to landing when transported on craft, or located on platforms not owned or leased by DSI.

Customer shall furnish transportation for crew changes at customers expense.



ORIGINAL

SERVICE ORDER

PERSON TAKING CALL: L DATE/TIME: 9-1-90 DS LOCATION: OKS TREATMENT NUMBER: 03-12-3048

CUSTOMER: American Exploration ORDERED BY: "Hank" Demers TELEPHONE: MOBILE

TYPE JOB: LS JOB DATE: 9-1 TIME: ON LOC PUMP CUSTOMER REF ON LOCATION TELEPHONE MOBILE

WELL NAME & NUMBER: HCW 9-11 REWORK: NEW LOCATION: BRADSKAW POOL/FIELD: BRADSKAW COUNTY/PARISH: Hamilton

CONTRACTOR ON SITE: Chapman 5B DS SALES REPRESENTATIVE: G.W. HARRIS CUSTOMER ORDER NUMBER: STATE: KANSAS

TUBING/DP: SIZE DEPTH MD / TVD WT THREAD TREATMENT VIA: CSG ANN: TYPE: PACKER/RETAINER DEPTH:

CASING: 4 1/2 8 RND SERVICE INSTRUCTIONS:

LINER: 1- 4 1/2 Top Rubber Plug **CONFIDENTIAL**

OPEN HOLE: 7 7/8 BHST BHCT 1- 4 1/2 Guide Shoe

PERFORATED INTERVALS FORMATION: Chns 5 1- 4 1/2 Auto Fill Float Collar

TOP	TO	BOTTOM	NO. OF HOLES	TOP	TO	BOTTOM	NO. OF HOLES
	TO				TO		
	TO				TO		
	TO				TO		
	TO				TO		

REQUIRED RATE/PRESS. 4- 4 1/2 CENTRALIZERS

HYDRAULIC HORSEPOWER ORDERED: 8- 4 1/2 TURBOIZERS

MAX PSI ALLOWABLE: 1406 10- 4 1/2 HYDRO BRIDERS

DIAMETER OF PERFORATIONS: 2 2- THREAD Lock

WELLHEAD CONN: 4 1/2 Rotating Head, Swage, Manifolds 5 gal - J-433

SPECIAL INSTRUCTIONS/EQUIPMENT:

SYSTEM DESCRIPTION:

System 1 525 SKS 35/65 1/6 + 6 7/8 O20 + 3 7/8 S1 + 10 1/8 D44 (Barco) + 1/4 1/2 SK D29

12.4 2.21 12.28

System 2 200 SKS CLASS H + 0.37% O60 + 1/4 1/2 SK D29

15.6 1.18 5.2 gal

System 3 _____

System 4 _____

Additional Materials: _____

Directions: 1/2 SYRACUSE - 17N - 3 3/4 W - 3/4 N - E INTO

RELEASED

SEP 03 1990

STATE CO. FROM CONFIDENTIAL

CONSERVATION DIVISION
Wichita, Kansas

DISTRIBUTION: ORIG - PERMANENT FILE
COPY - DISTRICT FILE

ORIGINAL

WORKOVER REPORT FORM

LEASE & WELL NO. 0911B-HCU DATE 9/2/90
 FOREMAN R.F. Burke DAYS _____
 OPERATION Rig Down
 PBTD 2931 FIELD CHASE
 PERF DEPTH _____ COUNTY HAMILTON
 _____ STATE KANSAS
 OBJECTIVE: Cement Prod'n Csg. AFE NO. 90-047
 _____ AFE AMOUNT _____
 _____ DAILY COST _____
 _____ CUMULATIVE _____
 _____ BALANCE _____

CONFIDENTIAL

REMARKS: BPB logged hole w/ GR/CA/DC & GR/CA/
ONL/FDC. LTD 2930, LTD 2932, 51 MI, 15' long.
TTH w/ bit and drill 34' of rat hole. Circ 1/2 hour
and lay down dp & dets. RAN 68 HS. 4 1/4", 9.5", 5-55,
5T & C. casing, tally 2967.8, set @ 2965 KB. RAN
REGULAR PATTERN GUIDE SHOE, AUTO-FILL COLLAR, 4 BAND
CENTRALIZERS @ 2946, 2547, 2755, & 2667, w/
8 TURBALIZER CENTRALIZERS @ 2407, 2319, 2147,
2054, 1966, 1878, 1789, and 1656 w/ 7 HYDRO
TURBALIZERS, ONE BETWEEN EACH 2 CENTRALIZERS,
IN UPPER 8. DOWELL SCHUMBERGER CEMENTED w/
10 bbls wtr ahead, 10 bbls polymer/wtr, 525 sy
DSL w/ 6% GEL, 10% SALT, 3% CC, 40# D29,
200 sy H, 3% D60, 40# D29 P.D. @ 4:00 PM
9-1-90, FLOAT HELD, CIRC 25 Bbls CEMENT TO PIT.
NIPPLE DOWN & SET SLIPS, RELEASE RIG @ 7:00 PM
9-1-90.

PRO 2 1990 RELEASED

CONSERVATION DIVISION JAN 0 3 1992

FROM CONFIDENTIAL

ORIGINAL

CASING & CEMENTING REPORT

Well Name 09-11-B
Casing 8578

Location N.E. 1/4 Sec. 9 21-5 01
Date 8-30-90

Jts. On	m On	Size	Wt.					Jts	Depth	m Run
Locat.	Locat.	mm	kg/m	Cr.	Rge.	THD	T&C	Run	Landed	In Well
8	8	8578	20.1		3	10	5	8		350.15

CONFIDENTIAL

Shoe Make W.F. Type Texas Length 1.0 m
 Collar Make W.F. Type TUSERT Length _____ m
 Landing Jt. (When Used) Length 15.0 m
 Overall Length of Casing String _____ m
 m Up From K.B. (subtract) _____ m
 Setting Depth By Driller 317 m By Tally 312.18 m

1.00
15.00
312.18
4
312.18 K.B

CENTRALIZERS

SCRATCHERS

Make & No. W.F. 2
 Position 10' 80'
 Remarks (Thread Lock, Weld, Mill) Final

Make & No. N.H.
 Position _____
 Remarks 1-0015 130710m

Hole Size 12 1/4 mm Casing In Hole Size 10 1/2 mm
 Depth 312 m Setting Depth _____ m
 Mud Type FRESH Wt. _____ kg/m Visc. S/LWL cm

BOP's N.H.
 Power Tong Co Dig Torque Max. _____ Min. _____
 Casing String Wt. 7300 daN Remarks TUSERT at 320

Cementing Co. Dowell Operator James Wilkins

TYPES & QUANTITIES OF CEMENT

Date 8-30-90

Filler Volume Amount 120 SX m³ Type C Wt. 22.6 kg/m³
 Additives 60% Grel 30% C.C. 1/4# FLOK
 Tail In Volume Amount 100 m³ Type H Wt. 15.6 kg/m³
 Additives 30% CC 1/4# FLOK
 HT. Cemented SURFACE Water Ahead 10 BRL m³ Start Mix 6:30 A.M. m³
 Finish Mix 6:45 m³ Pumping Press 150 kPa Bump Press 900 kPa
 Float Held 1.55 Cement Returns 5 BRL 70 P.M. m³
 Plug Down 6:55 A.M. Date 8-30-90
 Wt. Landed in Slips _____ daN Make of Bowl _____
 Size _____ mm Series _____ Slip & Seal Esembly _____
 Remarks (Wellhead - Make, Type, Size)

Co. Rep. _____

CONSERVATION DIVISION
Wichita, Kansas

RELEASED

NOV 03 1990

FROM CONFIDENTIAL

ORIGINAL

Drilling Report—De

Well 0911-B HCU Size-Depth of Last Csg. 4 1/2 @ 2965 Days since spud 9/2/90

Depth today 2966 Depth yesterday 2932 Drilled 34 n. Formation CHASE

Contractor CHEYENNE #5 Operation at report time RIG DOWN

Cost DMC CMC 2610 DWC CWC

Mud Weight 9.2 Vis 42 W.L. 8 cc P.V. 8 YP 21 Gels 14/22 PH 8.5

Chl. 41000 ppm F.C. 1/32 Sand TR Solids 4 Oil LCM 2 Flow Line Temp.

Surveys * at _____ feet * at _____ feet * at _____ feet

Rotary 80 RPM Bit weight 40 1000s Pump Number/Type 1 FMSCO D375 Liner Size 5/8 SPM 60

Pressure 1200 psi GPM 399 A.V.-D.C. 4.56 FPM A.V.-D.P. 235 FPM Slow Pump Rate

Bottom Hole Assembly

BN Number	Size	Make	Type	Jet Sizes	In	Out	Footage	Hours	Condition
3	7/8	HTC	J-11	14x2/ball	1781	2966	1719	77 1/2	T B
									F F

Mud Log Background Gas Trip Gas Conn. Shows/Drig Breaks

Time Breakdown	Drig.	Set Rig	Logs	Circ	Other
	1			1	1/2 rig down loggers
	Trip 1 1/2	Rep Rig	Run Csg 2 1/4	1 Cement	1/2 RU CAS-15 12 - RIG DOWN
	Surveys	Set Pit	WOC	LDDP-2	1/4 RU CEMENTS 3-567 SCIPS, SET PIT

Remarks (cores, casing, cement, squeeze jobs, etc.)

T14 AND DRILL RATTLE TO 2966. CIRC 1/2 HR., LDDP & DC. RAN 6815 4 1/2", 9.5" 5-55 ST&C CASING, TALLY 2967.8, SET @ 2965 KB. DOWNED SCHUMBERGER CEMENTED W/ 10 BBL WATER, 10 BBL POLYMER/WTR, 525 SY DSLWTR, 6% GEC, 10% SALT, 3% CC, 1/4" #5K D29, 200 SY CLASS H, .3% D60, 1/4" #5K D-29. PD @ 4:00 PM 9-1-90. FLOAT WELD. CIRC 25 BBL CEMENT TO SURFACE. NIPPLE DOWN AND SET SCIPS. RELEASE RIG @ 7:00 PM 9-1-90.

RELEASED

STATE OF KANSAS

FROM CONFIDENTIAL

CONSERVATION DIVISION

Fuel Used. Weather 105/clean Signed R.S. Burke

ORIGINAL CASING & CEMENTING REPORT

Well Name 0911-B HCU Location 1320 FRL; 3960 FSL 9-215-4
 Casing Production Date 9/2/90

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
70	3056.24	4 1/2	9.5	J55	3	Std	STC		68	2965.5m	
										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 2967.8 m
 m Up From K.B. (subtract) 2.0 m
 Setting Depth By Driller SAMR m By Tally 2965 m

CONFIDENTIAL

CENTRALIZERS

SCRATCHERS

Make & No. Weatherford: BAND 4 Turbo 8 Make & No. N/A
 Position 2946-2967 / 2407-1056 Position _____
 Remarks (Thread Lock, Weld, Mill) Trober turbalizers between centralizers
Ran STOPPING & BASKET @ midpoint of shoe 14.

Hole Size 7 7/8 mm Casing In Hole Size 4 1/2 mm
 Depth 2966 m Setting Depth 2965 m
 Mud Type Starch Wt. 9.2 kg/m Visc. 42S/LWL .8 cm
 BOP's Annular
 Power Tong Co Francis Torque Max. 1050 Min. 1000
 Casing String Wt. 28000 daN Remarks _____

Cementing Co. Dowell Schlumberger Operator JAMES ESQUIVEL

TYPES & QUANTITIES OF CEMENT

Date 9-2-90

Filler Volume Amount 525.34 m³ Type ASLWRT Wt. 17.4 kg/m³
 Additives 6% gel 10% SCAH, 3% CC 14 # 529
 Tail In Volume Amount 200.5 m³ Type H Wt. 15.6 kg/m³
 Additives 3% DGO, 1% # 529
 HT. Cemented 2966 Water Ahead 2066.5 m³ Start Mix _____ m³
 Finish Mix _____ m³ Pumping Press 250 kPa Bump Press 1250 kPa
 Float Held 41.5 Cement Returns FULL m³
 Plug Down 41.5 Date 9-1-90
 Wt. Landed in Slips 28000 daN Make of Bowl _____
 Size _____ mm Series _____ Slip & Seal Esembly _____
 Remarks (Wellhead - Make, Type, Size)

RECEIVED
 STATE CORPORATION COMMISSION
 Co. Rep.

RECEIVED

DEC 26 1990

SEP 03 1990

CONSERVATION DIVISION
 Wichita, Kansas

FROM CONFIDENTIAL

COPY

CONFIDENTIAL

SIDE ONE

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 700 Louisiana, Suite 2100
Houston, Texas 77002-2791
 City/State/Zip Houston, Texas
 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 OWO: old well info as follows:

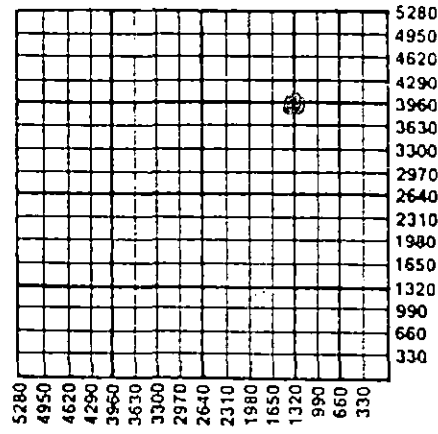
Operator: _____
 Well Name: _____
 Comp. Date _____ Old Total Depth _____

Drilling Method:

Mud Rotary Air Rotary Cable

8/29/90 9/02/90 10/09/90
 Spud Date Date Reached TD Completion Date

API NO. 15- 075-20,475-0000
 County Hamilton
C NE/4 Sec. 9 Twp. 21S Rge. 41 East West
X
3960 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 # 0911-B
 Field Name Bradshaw
 Producing Formation Winfield
 Elevation: Ground 3646 KB _____
 Total Depth 2932 PBD 2920



Amount of Surface Pipe Set and Cemented at 362 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set _____ Feet
 If Alternate II completion, cement circulated from 2932
 feet depth to Surf. w/ 945 725 sx cmt.

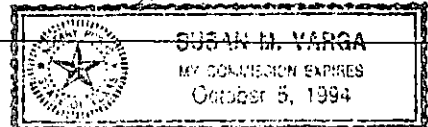
INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential 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 Sr. Production Analyst Date 12/14/90

Subscribed and sworn to before me this 14th day of December, 19 90.
 Notary Public Susan D. Varga

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) _____

K C C

SEP 13 1990

DRILLERS LOG

AMERICAN EXPLORATION COMPANY
HCU #0911-11
SECTION 9-T21S-R41W
HAMILTON COUNTY, KANSAS

COMMENCED: 08-29-90
COMPLETED: 09-01-90

SURFACE CASING: 350' OF 8 5/8"
CMTD W/120 SX 65/35 POZ, 6% D 20,
1/4#/SX D-29, TAILED IN W/100 SX "H"
3% C.C., 1/4#/SX D-29

FORMATION	DEPTH
SURFACE HOLE	0 365
SHALE & SAND	365-1215
CLAY & SAND	1215-1845
SHALE & CLAY	1845-2420
SHALE & SAND	2420-2835
SHALE & LIME	2835-2966 RTD

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

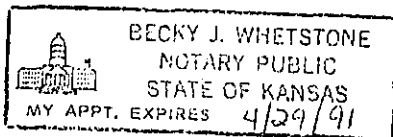
CHEYENNE DRILLING, INC.

A.J. Jacques

A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 4TH DAY OF SEPTEMBER, 1990.



Becky J Whetstone
BECKY J. WHETSTONE, NOTARY PUBLIC