

JAN 1960

Operator Name American Exploration Company

Lease Name

HCU

Well # 30-20-C

Sec. 30 Twp. 22S 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.)

List All E.Logs Run:
Dual Induction Log
Comp. SSD Comp. Neutron Log

Log Formation (Top), Depth and Datum Sample

Name Top Datum

Attached

CASING RECORD New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in D.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4	8 5/8	24#	268'	Class C	175	2% CC & 1/4# Cello Flakes
Production	7 7/8"	4 1/2	10.5#	2843'	Class C	325	3% D-79 + 2% 1/4 #D-29
					Class C	150	2% SI + 1/4#D29

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input checked="" type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
2	2618 - 2638'	250 gal 15% HCl, 12,500 Gal 65 Quality N ₂ Foam and 30,000# 12/20 sand

TUBING RECORD

Size 2 3/8" Set At 2784' Packer At N/A

Liner Run Yes No

Date of First, Resumed Production, SMD or Inj. 6/4/96

Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	230	25	N/A	N/A

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval 2618 - 2638

CONFIDENTIAL

ORIGINAL

AMERICAN EXPLORATION COMPANY
HCU 30-20 C
SECTION 30-T22S-R40W
HAMILTON COUNTY, KANSAS

15-075-20594-0000

COMMENCED: 05-06-96
COMPLETED: 05-08-96

SURFACE CASING: 268' OF 8 5/8" CMTD
W/175 SKS CLASS C + 2% S1 + 1/4#/SK
FLOCELE

FORMATION	DEPTH
SURFACE HOLE	0 - 268
SANDSTONE	268 - 387
RED BED	387 - 1570
GLORIETTA	1570 - 1830
RED BED	1830 - 2808
LIMESTONE & SHALE	2808 - 2860 RTD

RELEASED

KCC

DEC 17 1997

AUG 14

FROM CONFIDENTIAL

CONFIDENTIAL

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

RECEIVED
KANSAS CORPORATION COMMISSION

CHEYENNE DRILLING, INC.

AUG 19 1996

Wray Valentine

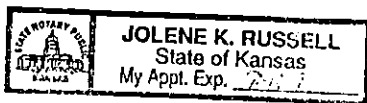
WRAY VALENTINE

CONSERVATION DIVISION
WICHITA, KS

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 14TH DAY OF MAY, 1996.

JOLENE K. RUSSELL



Jolene K. Russell
NOTARY PUBLIC

TREATMENT NUMBER: 2324	DATE: 5-6-93
STAGE: 1	DS: 07
DISTRICT: 13	

DS-496-A PRINTED IN U.S.A.

DOWELL SCHLUMBERGER INCORPORATED

WELL NAME AND NO. HCU 30-20C	LOCATION (LEGAL) SEC. 30.229-40W
FIELD-POOL BRODSTON	FORMATION SUIF
COUNTY/PARISH Hamilton	STATE KS
API. NO.	

RIG NAME: Chry 8	WELL DATA:	BOTTOM	TOP
BIT SIZE 17 1/4	CSG/Liner Size 8 3/8		
TOTAL DEPTH	WEIGHT		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE	269	
MUD TYPE	GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD	810	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	225	
MUD VISC.	Disp. Capacity	14.3	

NAME American Exp.
AND
ADDRESS
ZIP CODE

ORIGINAL

SPECIAL INSTRUCTIONS
Gaffley cmt. 8 3/8 surface as per customer instruction

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE 100 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)

PRESSURE LIMIT 1000 PSI BUMP PLUG TO 770 PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers 2

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

Float	TYPE	7 1/2" FILLING	DEPTH	225
SHOE	TYPE	TEX. PRT	DEPTH	269

Head & Plugs	<input type="checkbox"/> TBG <input type="checkbox"/> D.P.	SQUEEZE JOB
<input type="checkbox"/> Double	SIZE	TOOL TYPE
<input 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 BR OW	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL Bbls
BOT BR 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											
1341	1600		X				H2O	8.3			
1342	80		8	X	5.7		11	11			
1344	130		40	8	5.7	cm	14.8				
1351	150			48							
1352	80		14.6	X	4		H2O	8.3			
1355	100		7		4		11	11			
1355	110		10		1.3		11	11			
1359	770		14.6		1.3		11	11			
1400											

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REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	175	1.34	C 4.2% 9-1 + 4 1/2% P-99		40	14.8
2.			C 2% calcium chloride + 4 1/2% SK CEL. FLAKE			
3.						
4.						
5.						
6.						

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE	MAX. 770	MIN:
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	CIRCULATION LOST	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Cement Circulated To Surf.	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO 7 Bbls
BREAKDOWN	PSI FINAL	PSI	DISPLACEMENT VOL. 14.6	Bbls	TYPE OF WELL
Washed Thru Perfs	<input type="checkbox"/> YES <input type="checkbox"/> NO	TO	MEASURED DISPLACEMENT	<input type="checkbox"/> WIRELINE	<input type="checkbox"/> OIL <input type="checkbox"/> STORAGE <input type="checkbox"/> BRINE WATER 215K
PERFORMANCES	TO	TO	CUSTOMER REPRESENTATIVE	DS SUPERVISOR	
			HAWK	Ray Pearson	

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WELL NAME AND NO. HCU # 30-20 'C' LOCATION (LEGAL) SEC 30-225-40W RIG NAME: CHEYENNE DRILG. RIG #8

FIELD-POOL BRADSTAW FORMATION Winfield

COUNTY/PARISH HAMILTON STATE KS. API. NO.

NAME AMERICAN EXPL.

AND ORIGINAL

ADDRESS ZIP CODE

WELL DATA:		BOTTOM	TOP
BIT SIZE	CSG/Liner Size	4 1/2	
TOTAL DEPTH	WEIGHT	10.5	
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE	2850	
MUD TYPE	GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD	8 RD	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	2807	
MUD VISC.	Disp. Capacity	44.6	

SPECIAL INSTRUCTIONS
SAFELY CEMENT 4 1/2 LONG-STRING AS PER CUSTOMERS INSTRUCTIONS

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

Float	TYPE	DEPTH	Stage Tool	TYPE	DEPTH
	Auto-fill FIAPRA	2807			
	CMT. NUSE	2850			

Head & Plug	<input type="checkbox"/> TBG	<input type="checkbox"/> D.P.	SQUEEZE JOB
<input type="checkbox"/> Double	SIZE		
<input checked="" type="checkbox"/> Single	WEIGHT		
<input type="checkbox"/> Swage	GRADE		
<input type="checkbox"/> Knockoff	THREAD		
TOP <input type="checkbox"/> OR <input type="checkbox"/> DW	<input type="checkbox"/> NEW <input type="checkbox"/> USED		
BOT <input type="checkbox"/> OR <input type="checkbox"/> DW	DEPTH		

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE 1880 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)

PRESSURE LIMIT PSI BUMP PLUG TO PSI

ROTATE RPM RECIPROCATATE FT No. of Centralizers

ARRIVE ON LOCATION	DATE	LEFT LOCATION	DATE
0730	5-8-96		

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											
10:26		2150				1.20	8.3				
10:27		10	15	-	6.0	"	"				
10:30		280	165	15	"	CMT	11.1				
11:00		210	36	180	"	"	14.8				
11:04		220		216	"	"	"				
11:07		-									
11:11		-	45		6.0	H2O	8.3				
11:17		630		36	4.0	"	8.3				
11:17		480		38	"	"	"				
11:21		1450		45							
11:21		-		-							

SERVICE LOG DETAIL

PRE-JOB SAFETY MEETING

PRESS. TEST LINES

START H2O

START Ld. CMT

START TL. CMT

START DOWN WASH TO PIT CMT. to SURF

DROP TOP PLUG START DISP.

START DOWN WASH TO PIT

DROP TOP PLUG START DISP

LOWER RATE

PSI CHECK

BUMP TOP PLUG

CHECK Float - Bled P

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REMARKS

FROM CONFIDENTIAL

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED	
					BBLs	DENSITY
1.	325	3.23	C + 3% D 79 + 2% S-1 + 0.2% D46 + 1/4 #/SK D29			11.1
2.						
3.	150	1.34	C + 2% S-1 + 1/4 #/SK D29			14.8
4.						
5.						
6.						

BREAKDOWN FLUID TYPE

HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. 45 Bbls

Washed Thru. Perfs YES NO TO FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO TO CUSTOMER REPRESENTATIVE HAWK DEMOSS DS SUPERVISOR