STATE CORPORATION COMMISSION OF KANSAS OIL & GAS COMSERVATION DIVISION WELL COMPLETION FORM ACO-1 WELL HISTORY	API NO. 15- 171-20,403-00-00
DESCRIPTION OF WELL AND LEASE	
Operator: License # 5565	3620 Ft. North from Southeast Corner of Section
Name: National Cooperative Refinery Ass	Ft. West from Southeast Corner of Section (NOTE: Locate well in section plat below.)
Address 6000 W. 10th 3	Lease Name Hattendorf Well # 1
	Field Name Wildcat
city/State/Zip Great_Bend, Ks. 67530	Producing Formation
Purchaser:	
Operator Contact Person: Steve Brackeen	Etevation, Ground
Phone (316) 793-7824.	Total Depth 5000' PBTD 5280
Contractor: Name: Abercrombie-Drilling, Inc.	4950 4620 4290
License: 5422	3960
Wellsite Geologist:	3300
Designate Type of Completion X New Well Re-Entry Workover Oil SWD Temp. Abd. Gas Inj Delayed Comp. X Dry Other (Core, Water Supply, ett.) If OMMO: old well info as follows: Operator: N/A Well Name: Comp. Date Old Total Depth Drilling Method: X Mud Rotary Air Rotary Cable O1-23-90 O2-04-90 2-5-90 Spud Date Date Reached TD Completion Date INSTRUCTIONS: This form shall be completed in triplicate and Derby Building, Wichita, Kansas 67202, within 120 days	Amount of Surface Pipe Set and Cemented at
writing and submitted with the form. See rule 82-3 wireline logs and drillers time log shall be attached with form with all plugged wells. Submit CP-111 form with conversion of a well requires filing of ACO-2 within 120 days and regulations promuted the statutes, rules and regulations promuted the statutes.	this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 all temporarily abandoned wells. Any recompletion, workover or ays from commencement date of such work.
with and the statements herein are complete and correct to	the best of my knowledge.
Signature Stublacker	K.C.C. OFFICE USE ONLY Letter of Confidentiality Attached
Title District Foreman Date	8/9/90 (c) Wireline Log Received Drillers Timelog Received
Subscribed and sworn to before me this $3rd$ day of Mc 19 90.	DistributionNGPA
Notary Public Tabricia Schuly	KGS Plug Other (Specify)
Date Commission EXPLARY PUBLIC - State of Kansas PATRICIA SCHULTZ My Appt. Exp. 1-29-93	EOPT ACO-1 (7-89)

Form ACO-1 (7-89)

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				,		e tos	
			SIDE TWO				इ :
perator Name National	L Cooperativ	e Refinery	Asspease Name	Hattend	lorf	Well #	1
	☐ _{Eas}	t	County	Scott	, ,		· .
ec. <u>34</u> Twp. <u>195</u> Rge	· 34 🖺 🖂	•					
•						•	
ISTRUCTIONS: Show import nterval tested, time to vdrostatic pressures, bo f more space is needed.	ol open and clos ttom hole tempera	sed, flowing a ture, fluid re	and shut-in pres	sures, whetl	ner shut-in pre	ssure read	hed static leve
rill Stem Tests Taken (Attach Additional She		es No		·	Formation Desc	ription	
amples Sent to Geologica	П	es 🗆 No		~ ;	Log	Sample	
		es No	Name		Тор		om .
ores Taken		es No	Halle	* ***********************************	10 p	Bott	en eggenerale
lectric Log Run (Submit Copy.)	, th	es - No					*
		- '- '- - '-			,		
		SEE A	TTACHMEN	<u>TS</u>	•	,	•
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Purpose of String S	Report all stri	ngs set-condu	Ctor, surface, ii		production, et	c. # Sacks	Type and Perce
]	Orilled Se	t (In O.D.)	Lbs./Ft.	Depth	Cement	Used	Additives
Surface . 1	24" 8	3 5/8"	24#	310.63'	60/40 poz	250	2% gel, 3%
· · · · · · · · · · · · · · · · · · ·		•				1	<u> </u>
	PERFORATION RECOR	=	Perforated		Fracture, Shot, d Kind of Mater		ueeze Record Depth
		- <u> </u>	· · · · · · · · · · · · · · · · · · ·		n sin gariran an	raer w	
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TUBING RECORD Siz	ze S	et At	Packer At	Liner Run	☐ _{Yes} ☐	No	
Date of First Production	n Producing Meth	od Flowing	Pumping G	as Lift 🗆	Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbl	s. Gas	Mcf Water	Bbls.	Gas-Oil	Ratio	Gravity
isposition of Gas:		. ME	THOO OF COMPLETE	ON		P	roduction Interv
Vented Sold (If vented, submit			Hole Perfor	ration 🗆	Dually Complete	d Comm	ingled
		□ Othe	r (Specify)	<u> </u>			
		•			ic - Bak of Kenus	ALCO	- file
			•		CIA SCHULTZ	3 1501 YM	

. HATTENDORF No. 1

FORMATION TOPS	FC	RM	ATTO	M	TOPS
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		•	-
Formation	Sample Top	Log Top	Subsea
Base Stone Corral	2276	2272	775
Herrington	2694	2690	357
Krider	2724	2722	325
Winfield	•	2766	281
Towanda		2827	220
Ft. Riley		2865	182
Werford		2990	57
Concil Grove		3015	31
Funston		3037	10
Grouve		3058	-11
Bader		3124	- 77
Neva		3180	-133
Red Eagle		3250	-203
Foraker	•	3311	-264
Woodsiding		3359	-312
Tarkio		3518	-471
Howard		3632	-585
Topeka		3669	-622
Heebner	3926	3933	-886
Toronto		3945	-898
Lansing	3976	3974	-927
Base K. C.	4440	4440	-1393
Marmaton	4460	4467	-1420
Cherokee	4590	4590	- 1543
Morrow	4770	4759	-1712
Morrow Sandstone	4808	4807	-1760
Mississippian	4846	4858	-1811

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STATE "

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MAR 2 0 1990

GONSERVATION DIVISION Wighita, Kansas

HATTENDORF No. 1

15-171-20403-00-00

D.S.T. #1

Formation

Chase Group

Interval

2825-2927

Testing Company

Trilobite Testing Co.

Tester

Rod Steinbrink

Type

Bottom hole conventional test with no water cushion. Used two packers. Down hole choke

was 3/4".

Initial Flow

2115-2125hrs

Open with weak surface blow. Built to 2"

in 10min

Initial Shut In

2125-2155hrs

Blow died in 18min

Final Flow

2155-2255hrs

Open with weak surface blow. Built to 2"

and held

Final Shut In

2255-0155hrs

Blow died in 22min

Recovery

90' water cut mud

PRESSURES

Chart Depth

2830

Initial Hydrostatic Initial Flow

1362 78-78

Intital Shut in

695

Final Flow

90-112

Final Shut In Final Hydrostatic

695 1328

Sampler Chamber

3200cc mud 300cc filtrate 7000ppm cl at 60psi

Bottom Hole Temp.

102°F

Bedrich Western

STATE

MAR 2 0 1990

CONSERVATION DIVISION Wighita, Kansas

15-171-20403-00-00

HATTENDORF No. 1

D.S.T. #2

Formation

Topeka

Interval

3890-3940

Testing Company

Trilobite TEsting Co.

Tester

Rod Steinbrink

Type

Bottom hole conventional test with no water cushion. Used two packers. Down hole choke was 3/4"

Initial Flow

1048-1058hrs

Open with 1" blow. Built to 18" in 7mim

Initial Shut In

1058-1128hrs

Weak surface throughout:

Final Flow

1128-1228hrs

Open with surface blow. Built to 5oz on a 1/8" choke in 15min. Dropped to 1" in 60min

Final Shut In

1228-1428hrs

Blow died immediately

Recovery

945! of salt 58000ppm CL

PRESSURES

Chart Depth

3935 1980

Initial Hydrostatic Initial Flow

78-146

Initial Shut In

1040

Final Flow Finial Shut In

180-450 1051

Final Hydrostatic

1892

Bottom Hole Temp.

112°F

Sampler Chamber

3500cc salt water at 50psi 58000ppm

FINCHIE

MAR 2 0 1990

CONSERVATION LILLION Wichita, Kansas

HATTENDORF No.1

15-171-20403-00-00

D.S.T. #3

Formation Marmaton
Interval 4540-4589

Testing Company Trilobite Testing Co.

Tester Rod Steinbrink

Type Bottom hole conventional test with no water

cushion. Used two packers. Down hole choke

was 3/4".

Initial Flow 1542-1552hrs

Open with 2" blow. Built to 18" in $4\min$

Initial Shut In 1552-1622hrs

Weak blow throughout

Final Flow 1622-1722hrs

Open with strong blow. Built to 8oz in 30min.

Dropped to 7oz in 60min on 1/8" choke

Final Shut In 1722-1922hrs

Blow died quickly

Recovery 1400 salt water with trace oil 46000ppm Cl

PRESSURES

 Chart Depth
 4584

 Initial Hydrostatic
 2368

 Initial Flow
 90-202

 Initial Shut In
 1184

 Final Flow
 259-640

 Final Shut in
 1173

Sample Chamber 3500cc salt water at 100psi 50000ppm C1

Bottom Hole Temp. 115°F

EL MINE

MAR 2 0 1990

CONSERVATION DIVISION Wichita, Kansas

. HATTENDORF No. 1

15-171-20403-00-00

D.S.T. #4

Formation

Interval

Testing Company

Tester.

Type

Morrow

4790-4806

Trilobite Testing Co.

Rod Steinbrink

Bottom hole conventional test with no water cushion. Used two packers. Down hole choke

was 3/4"

Misrun

MAR 2 D 1990

Sitti-

CONSERVATION DIVIDION Wighita, Kansas

. . HATTENDORF No. 1

15-171-20403-00-00

D.S.T. #5

Formation

Interval

Testing Company

Tester

Type

Initial Flow

Initial Shut In

Final Flow

Final Shut In

Chart Depth

Initial Hydrostatic Initial Flow Initial Shut In Final Flow Final Shut In

Final Hydrostatic

Sample Chamber

Pipe recovery

Bottom Hole Temp.

Section

Morrow

4746-4806

Trilobite Testing Co.

Rod Steinbrink

Bottom hole conventional test with no water

cushion. Used two packers. Down hole choke

was 3/4"

0730-0740hrs

Weak surface blow throughout

0740-0810hrs

Dead

0810-0910hrs

Dead

0910-1210hrs

Dead

PRESSURES

4796 2417

23-23 70

23-23 70

2382

3500cc mud

10' mud

115°F

MAR 2 0 1990

CONSERVATION DIVISION Wichita, Kansas



REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO. DATE 908211 01/23/1990

			_				300211	01/	23/133
	WELL LEASE NO /PLANT N	AME ***	WELL/I	PLANTLO	CATION ~	STATE	well/	PLANT OWN	R
HATTENDO	ORF 1		SCOTT			KS	SAME		
SER	ICE LOCATION	CONT	RACTOR	\$	JOB PURI	POSE	4	TICKE	T DATE
ក្នុង ពេក ា	Y	ABERCROM	BIE	CEME	NT SURFACE	CASI	NG	01/2	3/1990
ACCT. NO.	CUSTOMER A	GENT	VENDOR NO.		CUSTOMER P.O.	NUMBER	SHIPPE	D'VIA	FILE NO.
622920	OM BERGIN			π Ω			COMPANY	TRUCK	89389
**				III					

NATIONAL COOPERATIVE REFINERY ASSOCIATION 6000 W. 10TH GREAT BEND, KS 67530

DIRECT CORRESPONDENCE TO: SUITE 600 COLORADO DERBY BUILDING WICHITA, KS 67202-0000

	13/19/1				
PRICE REF. NO.	DESCRIPTION	QUANTITY	*U/M	UNIT PRICE	AMOUNT
PRICING ARE	A - MID CONTINENT				
000-117	MILEAGE	71	MI	2.20	156.20
		1	UNT		
001-016	CEMENTING CASING	311	FT	399.40	399.40
	·	1	UNT		
030-503	CMTG PLUG LA-11,CP-1,CP-3,TOP	8 5/8	IN	59.00	59.00
:		- 1	EA		
40	CENTRALIZER 8-5/8" MODEL 5-4	1	EA	53.00	53.00
807.93059					
24A	INSERT FLOAT VALVE - 8 5/8"8RD	1	EA	171.00	171.00
815.19502		,			•
27	FILL-UP UNIT 7"- 8 5/8"	1	EA	29.00	29.00
815.19419					
504-308	STANDARD CEMENT	150	SK	5.45	817.50
506-105	POZMIX A	100	SK	2.88	288.00
506-121	HALLIBURTON-GEL 2%	4	SK	.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	6	SK	26.25	157.50
500-207	BULK SERVICE CHARGE	262	CFT	. 95	248.90
500-306	MILEAGE CMTG MAT DEL OR RETURN	794.490	TMI	.70	556.14
•					ás.
	·				,
	INVOICE SUBTOTAL	Compage 18 pmg			2,935.64
	317 ***	F. 1777			
	DISCOUNT-(BID)		İ		587.12-
	INVOICE BID AMOUNT	MAD 2 D 1000			2,348.52
		MAR 20 1990		7. See 1	
	KANSAS STATE SALES	TAX			78.92
Che	cked by	Michia ADDONY	0		
Dat	2-5-50	Wichita, IAPPROVE	<u>ا</u>		•
	oved as to current month operating	y steve bracke			•
o to	filling ipvoicing only.	ATE 1-30-	90		
	Mary Bell		0-0	60	
	Production Department	Hrc 1-C	1		
	" O SECTION CADERGEON				
	INVOICE TOTAL - PLEASE PAY THI	S AMOUNT ==	====		V\$2,427.44
				L	





REMIT TO: P.O. BOX 951046 DALLAS, TX 75395-1046

NUTICE HALLIBURTON SERVICES

A Halliburton Company

835925 02/05/199

WELL LEASE NO /PLANT NAME			WELL/F	LANT LOC	CATION	STATE	· WEL	L/PLANT OWNE	ER
HATTENDO	ORT 1		scorr			KS	SAME		
SERV	VICE LOCATION -	CONTRA	CTOR		JOB PURP	OSE	and the second	TICKE	T DATE
		ABERCROMBI	ie į	PLUG	TO ABANDON	٧.		02/0	5/1990
ACCT, NO.	CUSTOMER AC	GENT	VENDOR NO.		CUSTOMER P.O.	NUMBER	×+ SHIP	PED VIA	FILE NO.
622920 G	GARY L. CLARK		TTIEsco	EN TO			COMPANY	' TRUCK	90099
			TIMESTITE .	1 Sec. 1					_

NATIONAL COOPERATIVE
REFINERY ASSOCIATION FEB 1 9 1990
CRUDE OIL DIV HEADQUARTERS
1775 SHERMAN ST STE 3000
DENVER, CO 80203

DIRECT CORRESPONDENCE TO: SUITE 600 COLORADO DERBY BUILDING WICHITA, KS 67202-0000

PRICE REF. NO.	DESCRIPTION	QUANTITY	∮U/M ≥	UNIT PRICE	AMOUNT
PRICING ARE	A - MID CONTINENT	<u> </u>		And the second s	The same of the sa
000-117	MILEAGE	71	MI	2.20	156.20
		1.	דאט		
090-910	MISCELLANEOUS PUMPING JOB	1.	TRK	370.00	370.00
030-503	CMTG PLUG LA-11,CP-1,CP-3,TOP	8 5/8		59.00	59.00
		1.	EA		
	STANDARD CEMENT	1.41		. 5.45	768.45
	POZMIX A	94	SK	2.88	270.72
	HALLIBURTON-GEL 2%	4	SK	,00	N/C
	HALLIBURTON-GEL BENTONITE	8	SK	13.00	104.00
	FLOCELE	25		1.23	30.75
	BULK SERVICE CHARGE	235		. 95	223.25
500-306	MILEAGE CMTG MAT DEL OR RETURN	760.943	TMI	. 70	532.66
					·
	INVOICE SUBTOTAL				2,515.03
	INVOICE SOUTOTHE				JULUKYU
	DISCOUNT-(BID)				503.00
	INVOICE BIO AMOUNT				2,012.03
	*-KANSAS STATE SALES	TAX			83.51
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2	INTE OF SOCIAL STOCK	ar in the second	Checke	d has	
٥	IMIE : 70Y			007	
	MAR 2 0 1990		Date -	d 00 to 0	
	MAU & A 1880		C* drillin	d as to current month ope	rating
	CONSERVATION DEPOSITION	0-060	20	-21	
	Wichitas Kanaas		110	mo De	
	The state of the s	•		Production Departme	rit
F	EB 1 2 1990 MAR 2 0 1990				·
~ '	- 1 1 1 1 1 2 1 while to be so ship				
O	FFICE MGR. CONSERVATION DIVIDIGIN				
~~[Wichita, Kansas				
	INVOICE TOTAL - PLEASE PAY THI	== TKUOMA 8	=======		\$2,095.54