

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

API NO. 15- 129-21185-0000 ORIGINAL

County MORTON

E2 - NE - - Sec. 31 Twp. 32S Rge. 40 XX W

1320 Feet from S (circle one) Line of Section

660 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name LEMON TRUST Well # 1-31

Field Name WILDCAT

Producing Formation MORROW

Elevation: Ground 3377' KB 3384'

Total Depth 5915' PBD 5700'

Amount of Surface Pipe Set and Cemented at 1626 Feet

Multiple Stage Cementing Collar Used? Yes XX No

If yes, show depth set Feet

If Alternate II completion, cement circulated from

feet depth to w/ sx cmt.

Drilling Fluid Management Plan ALT 1 5-28-93
(Data must be collected from the Reserve Pit)

Chloride content 1100 ppm Fluid volume 200 bbls

Dewatering method used

Location of fluid disposal if hauled offsite:

Operator Name RELEASED

Lease Name License No.

Quarter APP. 1 1996 S Rng. E/W

County Docket No.

FROM CONFIDENTIAL

Operator: License # 3871

Name: Hugoton Energy Corporation

Address 229 E. William, Suite 500

City/State/Zip Wichita, KS 67202

Purchaser: NA

Operator Contact Person: Jim Gowens

Phone (316) 262-1522

Contractor: Name: MURFIN DRILLING COMPANY

License: 30606

Wellsite Geologist: KARL OSTERBUHR

Designate Type of Completion

X New Well Re-Entry Workover

X Oil SWD SLOW Temp. Abd.

 Gas ENHR SIGW

 Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator:

Well Name:

Comp. Date Old Total Depth

 Deepening Re-perf. Conv. to Inj/SWD

 Plug Back PBD

 Commingled Docket No.

 Dual Completion Docket No.

 Other (SWD or Inj?) Docket No.

03-26-93 04-08-93 04-25-93

Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 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 geologist well report 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.

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 [Signature]

Title Jim Gowens, Exploration Manager Date 5-20-93

Subscribed and sworn to before me this 20 day of May, 1993.

Notary Public [Signature]

Date Commission Expires 9-22-96

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
RECEIVED
STATE CORPORATION COMMISSION
Distribution
 KCC SDR
 KGS Plug Other
MAY 21 1993
(Specify)
CONSERVATION DIVISION
Wichita, Kansas



Operator Name **JANIGIRO** Hugoton Energy Corporation Lease Name **LEMON TRUST** Well # **1-31**
 Sec. **31** Twp. **32S** Rge. **40** East West County **MORTON**

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	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	HEEBNER	3735	-351
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	MARMATON	4395	-1011
List All E.Logs Run:		MORROW SH	5105	-1721
		MORROW E SAND	5295	-1911
		MORROW F SAND	5422	-2038
		KEYES	5568	-2184
		CHESTER	5646	-2262
		ST LOUIS POR	5865	-2481

DIL, CND, MICRO

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> 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	25#	1626	LITE	725	
PRODUCTION	7 7/8	4 1/2	10.5	5750	CLASS C	150	

ADDITIONAL CEMENTING/SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone	2001	1 99A		

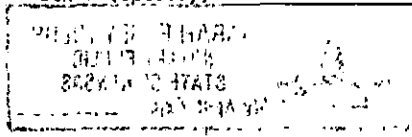
Shots Per Foot	* A PERFORATION RECORD (Specify Footage of Each Interval Perforated)	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	5325-5233		
2	5304-5310	ACIDIZE W/500 GAL. 15% MSR	

TUBING RECORD		Size 2 3/8	Set At 5310	Packer At NA	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj. SI		Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil 75 Bbls.	Gas 0 Mcf	Water 150 Bbls.	Gas-Oil Ratio	Gravity

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: 5304-5333 OA



REPORT

DOWELL SCHLUMBERGER INCORPORATED



TREATMENT NUMBER	DATE	
03-12-5129	3-28-93	
STAGE	DS	DISTRICT
1		Ulysses, KS

NAME AND NO. **Lemon Trust #1-31** LOCATION (LEGAL) **sec. 31-325-40W**

FIELD-POOL **Morton** FORMATION **KCC**

COUNTY/PARISH **Morton** STATE **KS** API. NO. **KCC**

NAME **Hugoton Energy** AND **MAY 20**

ADDRESS _____ ZIP CODE _____

RIG NAME: **Murfin**

WELL DATA: **1626** BOTTOM **8 5/8"** TOP

BIT SIZE	CSG/Liner Size	1626	8 5/8"
TOTAL DEPTH	WEIGHT	25#	25#
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE	1628	
MUD TYPE	GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD	6.625	
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)	4.422	TOTAL
MUD VISC.	Disp. Capacity	1583.78	100.8

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

SPECIAL INSTRUCTIONS **Provide materials and services to safely cement 8 5/8" casing into 1626" hole, as per customer's request.**

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE **697** PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)

PRESSURE LIMIT **650** PSI BUMP PLUG TO _____ PSI

ROTATE RPM _____ RECIPROCATE _____ FT No. of Centralizers **3**

SHOE / TYPE **orifice fill / Ins.** TYPE _____

DEPTH **1583.78** DEPTH _____

SHOE / TYPE **Texas Pattern** TYPE _____

DEPTH **1628'** DEPTH _____

Head & Plugs TBG D.P. SQUEEZE JOB

Double WEIGHT TOOL TYPE

Single GRADE DEPTH

Swage GRADE TAIL PIPE: SIZE DEPTH

Knockoff THREAD TUBING VOLUME Bbls

TOP OR NEW USED CASING VOL. BELOW TOOL Bbls

BOT OR DEPTH TOTAL Bbls

ANNUAL VOLUME Bbls

JOB SCHEDULED FOR TIME: **1000** DATE: **3-28-93** ARRIVE ON LOCATION TIME: **0945** DATE: **3-28-93** LEFT LOCATION TIME: **1345** DATE: **3-28-93**

TIME	PRESSURE		VOLUME PUMPED BBL		INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
	TBG OR D.P.	CASING	INCREMENT	CUM				
1152						H ₂ O	8.34	PRE-JOB SAFETY MEETING psi test to 2000
1155		90	10		5.1	H ₂ O	8.34	start H ₂ O Ahead
1157		120	215	10	5.1	cmt.	12.2	start lead slurry
1236		180	35	225	5.2	cmt.	14.8	Start Tail Cement
1245		0	0	260	0	H ₂ O	8.34	Shutdown drop top Plug
1248		520	90	260	5.2	H ₂ O	8.34	start displacement
1306		540	11	350	2.0	H ₂ O	8.34	lower rate
1311		420		361	0	H ₂ O	8.34	Shutdown check float

RELEASED

APR 1 1996

ORIGINAL

FROM CONFIDENTIAL

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS		SLURRY MIXED BBLs DENSITY	
					BBLs	DENSITY
1.	575	2.1	4 1/2 % 100# + 6% D20 + 2% S1 + 1/4 #SK D29		215	12.2
2.	150	1.32	Class "C" + 2% S1 + 1/4 #SK D29		35	14.8
3.						
4.						
5.						
6.						

RECEIVED STATE COMMISSION MAY 21 1993

BREAKDOWN FLUID TYPE VOLUME DENSITY PRESSURE MAX.

HESITATION SQ. RUNNING SQ. CIRCULATION LOST YES NO Cement Circulated To **50** Bbls

BREAKDOWN PSI FINAL PSI DISPLACEMENT VOL. **160.8** Bbls TYPE OF WELL OIL GAS STORAGE INJECTION BEING WATER WILDCAT

Washed Thru Perforations YES NO TO _____ FT. MEASURED DISPLACEMENT WIRELINE

PERFORATIONS TO _____ TO _____ CUSTOMER REPRESENTATIVE **David Cooper** DS SUPERVISOR **Steve Mersch**

CEMENTING SERVICE REPORT

2 of 2



DOWELL SCHLUMBERGER INCORPORATED

TREATMENT NUMBER	DATE
03-12-5156	4-7-93
STAGE	DS DISTRICT
1	Ulysses, KS

DS-496 PRINTED IN U.S.A.

WELL NAME AND NO.	LOCATION (LEGAL)	
Lemon Trust #1-31	Sec 31-32s-40w	
FIELD-POOL	FORMATION	
COUNTY/PARISH	STATE	APL. NO.
Morton	Kansas	

RIG NAME:	- Murfin 21		
WELL DATA:	BOTTOM	TOP	
BIT SIZE	CSG/Liner Size		
7 7/8"	4 1/2		
TOTAL DEPTH	WEIGHT		
	10.5		
<input type="checkbox"/> ROT <input type="checkbox"/> CABLE	FOOTAGE		
	5755		
MUD TYPE	GRADE		
<input type="checkbox"/> BHST <input type="checkbox"/> BHCT	THREAD		
MUD DENSITY	LESS FOOTAGE SHOE JOINT(S)		
	40	ORIGINAL	TOTAL
MUD VISC.	Disp. Capacity		
	5715		

NAME Hugoton

AND _____

ADDRESS _____

ZIP CODE _____

SPECIAL INSTRUCTIONS

Provide Materials & Services to safely cement the 1st Stage of a 4 1/2" long string

Float	TYPE	Auto fill Insert	TYPE	
	DEPTH	5715	DEPTH	
SHOE	TYPE	Cement Nose	TYPE	
	DEPTH	5755	DEPTH	

IS CASING/TUBING SECURED? YES NO

LIFT PRESSURE 3800 PSI CASING WEIGHT + SURFACE AREA (3.14 x R²)

PRESSURE LIMIT 1500 PSI BUMP PLUG TO 1100 PSI

ROTATE 0 RPM RECIPROCATE 0 FT No. of Centralizers 8

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"/> OR <input type="checkbox"/> W	<input type="checkbox"/> NEW <input type="checkbox"/> USED	CASING VOL. BELOW TOOL	Bbls	
BOT <input type="checkbox"/> OR <input type="checkbox"/> W	DEPTH	TOTAL	Bbls	
		ANNUAL VOLUME	Bbls	

TIME	PRESSURE	VOLUME PUMPED BBL	JOB SCHEDULED FOR TIME: 1100 DATE: 4-7-93	ARRIVE ON LOCATION TIME: 1030 DATE: 4-7-93	LEFT LOCATION TIME: 1900 DATE: 4-7-93
0001 to 2400	TBG OR D.P.	CASING	INJECT RATE	FLUID TYPE	FLUID DENSITY

TIME	TBG OR D.P.	CASING	INCREMENT	CUM	INJECT RATE	FLUID TYPE	FLUID DENSITY	SERVICE LOG DETAIL
1746	250	12	0	6	Wash	8.35	Start Chemical Wash	
1749	300	8	12	6	H ₂ O	8.74	Start Water	
1751	250	36	20	6	cmf	14.8	Start cement slurry	
1758	0	0	56				Shutdown / Drop Plug / Wash up lines	
1803	250	80	56	5.5	H ₂ O	8.34	Start Displacement	
1819	410	11	136	2.0	H ₂ O	8.34	lower Rate	
1825	1000		147				Bump Plug / Shutdown / check float float holds Release DS!	

RELEASED

APR 1 1996

FROM CONFIDENTIAL

REMARKS

SYSTEM CODE	NO. OF SACKS	YIELD CU. FT/SK	COMPOSITION OF CEMENTING SYSTEMS	SLURRY MIXED BBLs	DENSITY
1.	150	1.32	Class "C" + 2% SI + 0.5% D60 + 1/4% K D29 RECEIVE	5.3	14.8
2.					
3.					
4.					
5.					
6.					

MAY 21 1993

CONSERVATION DIVISION

BREAKDOWN FLUID TYPE	VOLUME	DENSITY	PRESSURE
<input type="checkbox"/> HESITATION SQ.	<input type="checkbox"/> RUNNING SQ.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Max. Rate: 1700 MIN: 0
CIRCULATION LOST	DISPLACEMENT VOL.	Cement Circulated To Surf.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	90.9 Bbls		
Washed Thru Perfs <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	MEASURED DISPLACEMENT	TYPE OF WELL	<input type="checkbox"/> STORAGE <input type="checkbox"/> BRINE WATER
		<input checked="" type="checkbox"/> OIL <input type="checkbox"/> GAS	<input type="checkbox"/> INJECTION <input type="checkbox"/> WILDCAT
PERFORATIONS	CUSTOMER REPRESENTATIVE	DS SUPERVISOR	