

**ORIGINAL**  
PAGE ONE

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

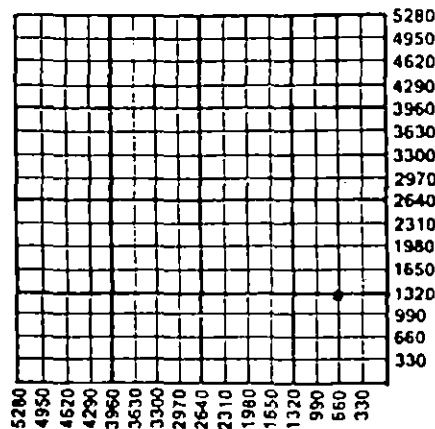
Operator: License # 5703  
Name: J. M. Huber Corporation  
Address 7120 I-40 West  
  
City/State/Zip Amarillo, Texas 79106  
Purchaser: N/A  
Operator Contact Person: Rashmi Shah  
Phone (806) 353-9837  
Contractor: Name: Murfin Drilling Company  
License: 6033  
Wellsite Geologist: N/A

Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  Temp. Abd.  
 Gas  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  
9-11-90 9-25-90 11-18-90  
Spud Date Date Reached TD Completion Date

API NO. 15- 129-21,056 - 0000  
County Morton  
C E/2 SE Sec. 19 Twp. 32S Rge. 40  East West  
1320 Ft. North from Southeast Corner of Section  
660 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)  
Lease Name Fortenbaugh Well # 19-2  
Field Name East Richfield  
Producing Formation Morrow  
Elevation: Ground 3356.0 KB 3367.5  
Total Depth 5610' PBTD 5250'



Amount of Surface Pipe Set and Cemented at 1704 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ 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 Robert Cornelius  
Title District Engineer Date 11-28-90  
Subscribed and sworn to before me this 28th day of November, 19 90.  
Notary Public Patty Thomas  
Date Commission Expires 1-29-94

**RECEIVED**  
STATE CORPORATION COMMISSION  
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)

**PATTY THOMAS**  
Notary Public, State of Texas  
My Commission Expires 1-29-94

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SIDE TWO

Operator Name J. M. Huber Corporation Lease Name Fortenbaugh Well # 19-2  
 Sec. 19 Twp. 32S Rge. 40  East County Morton  
 West

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
B/Heebner		3667'
Lansing	3789'	
Marmaton	4420'	
Cherokee Marker	4784'	
Atoka	4918'	
Morrow	5029'	
Morrow D	5146'	
Morrow E	5215'	
Keyes	5471'	
Miss Chester	5526'	

See attached sheet

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
Conductor	30"	20"		40'	Grout	4yds	
Surface	12-1/4"	8-5/8"	24#	1704'	Pozmix C	550 W/6% gel, 2% CaCl <sub>2</sub> & 1/4#/sx Flocele	
Production	7-7/8"	5-1/2"	14#	5608'	Poz H	355	**

PERFORATION RECORD		Second Stage w/DV @ 3407'	Cement Squeeze Record
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	5472-80'	W/1000 gal 7-1/2% FEHCl	
		CIBP @ 5460' W/10' cmt	
4	5390-5412'	w/2500 gal 7-1/2% FEHCl,	
		17,100 GGW, 130 T CO <sub>2</sub> &	
		25,000 # 20-40 sd	
		CIBP @ 5246'	
4	5214-24'		

TUBING RECORD Size 2 3/8" Set At 5177' Packer At 5170' Liner Run  Yes  No

Date of First Production 11-18-90 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	-	1496	3		

Disposition of Gas: SIWOPL METHOD OF COMPLETION  Open Hole  Perforation  Dually Completed  Commingled  
 Vented  Sold  Used on Lease (If vented, submit ACO-18.)  other (Specify) \_\_\_\_\_ Production Interval 5214-24'

\*w/2% gel, 10% salt, 10#/sx Kolite & 0.3D65  
 \*\* Same additives on second stage

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COPY

Attachment ACO-1  
Fortenbaugh 19-2

DST #1 5195-5235'

IHP: 2509 psi  
10 min IFP: 312-390 psi  
30 min ISIP: 1633 psi  
60 min FFP: 490-593 psi  
180 min FSIP: 1630 psi  
FHP: 2454 psi  
BHT: 118° F

630' total fluid recovery

30' GCM & 600' GCSW

GTS in 3 mins on initial flow

60 min flow rate 2258 MCFD on final flow

DST #2 5363-5455'

IHP: 2607 psi  
10 min IFP: 96-96 psi  
30 min ISIP: 629 psi  
60 min FFP: 112-129 psi  
180 min FSIP: 1337 psi  
FHP: 2591 psi  
BHT: 136° F

Rec'd 120' drlg mud

RECEIVED  
STATE CORPORATION COMMISSION

NOV 30 1990

CONSERVATION DIVISION  
Wichita, Kansas

NOV 30 1990

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FROM CONFIDENTIAL