

SIDE TIX

Operator Name Amoco Production Company Lease Name Mater G.U. A Well # 3HI

East

County Stanton

Sec. 13 Twp. 27 Rge. 39 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

Log Sample

Name Top Bottom

Chase 2301'

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"	24#	577'	Lite C	130	CACL2 2%
Production	7-7/8"	5-1/2"	15.5#	2569'	Premium C Pacesetter Premium C	150 600 100	Floccite Celloseal Celloseal

PERFORATION RECORD

Shots Per Foot Specify Footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

Frac with 868,300# 8/16 sand and 174,600 gal. gelled water 2308-2568'

TUBING RECORD

Size Set At Packer At

Liner Run Yes No

Date of First Production SL Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil bbls. Gas Mcf Water bbls. Gas-Oil Ratio Gravity

1500

Disposition of Gas:

METHOD OF COMPLETION

Production Interval

Vented Sold Used on Lease (If vented, submit ACO-18.)

Open Hole Perforation Usually Completed Conningled

Other (Specify) Slotted Casing

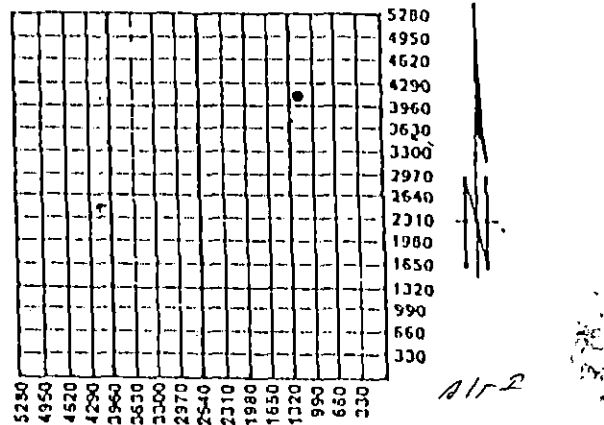
2308-2568'

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 # 5952
 Name: Amoco Production Company
 Address P.O. Box 800, Rm. 1833
 City/State/Zip Denver, CO 80201
 Purchaser: _____
 Operator Contact Person: J. A. Victor
 Phone (303) 830-4009
 Contractor: Name: Cheyenne Drilling
 License: 5382
 Wellsite Geologist: _____
 Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)
 If OMAO: old well info as follows:
 Operator: N/A
 Well Name: _____
 Comp. Date _____ Old Total Depth _____
 Drilling Method:
 Mud Rotary Air Rotary Cable
3/7/90 3/11/90
 Spud Date Date Reached ID Completion Date

API NO. 15- 187-20484-6000
 County Stanton
 SW NE NE Sec. 13 Twp. 27 Rge. 39 East West
4030 Ft. North from Southeast Corner of Section
1250 Ft. West from Southeast Corner of Section
 (NOTE: Locate Well in section plat below.)
 Lease Name Mater G.U. A Well # 3HI
 Field Name Hugoton
 Producing Formation Chase
 Elevation: Ground 3155' KB 3167'
 Total Depth 2569' PB1D _____



Amount of Surface Pipe Set and Cemented at 577 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 cnt.

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 J. Hampton
 Title Sr. Staff Admin. Supv. Date 9/6/90
 Subscribed and sworn to before me this 6th day of September, 19 90.
 Notary Public Julie A. Victor
 Date Commission Expires 4/7/94

K.C.C. OFFICE USE ONLY

F Letter of Confidentiality Attached
 C Wireline Log Received
 C Drillers Time Log Received

Distribution
 KCC SWD/Rep HGPA
 KGS Plug Other (Specify)

SEP 10 1990

SIDE TWO

Operator Name Amoco Production Company Lease Name Mater G.U. A Well # 3HI

Sec. 13 Twp. 27 Rge. 39
 East
 West

County Stanton

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	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample Name: <u>Chase</u> Top: <u>2301'</u> Bottom:
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Electric log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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"	24#	577'	Lite C	130	CACL2 2%
Production	7-7/8"	5-1/2"	15.5#	2569'	Premium C	150	Flocele
					Pacesetter	600	Celloseal
					Premium C	100	Celloseal

PERFORATION RECORD

Shots Per Foot Specify footage of Each Interval Perforated

Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First Production Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (if vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perforation Dually Completed Conningled Other (Specify) _____

Production Interval _____

WESTERN PETROLEUM
SERVICES

CEMENTING REPORT

DATE 03/10/90 DISTRICT Perryton F.R.# L123924
 OPERATOR Amoco Production Company
 WELL NAME & NUMBER Hia-Mater #3
 LOCATION: SEC. 13 BLOCK OR TOWNSHIP 27S SURVEY OR RANGE 39W
 COUNTY Stanton STATE Kansas
 STAGE NUMBER 1 TYPE JOB Long-String

TBG/DP: Size	Weight	Disp	Conductor	Surface	Int.	Prod.	Liner
Perforated Interval			Size			5 1/2	
Pkr. Type <u>Float Collar</u> Set at <u>2321.65</u>			Weight			15.5	
Open Hole Size	Formation		Thread			8rd	
Stage Collar Type	Set at		Capacity			61.39	
Estimated Wash Out %			Depth			2579.81	

Sacks or Bbls.	Composition of Cement and Spacer	Gals/sk H ₂ O	Weight Lb/Gal	Yield Ft 3	Pump Time Hours	TOTAL Cu. Ft.	TOTAL Bbls.
600 sks.	PSL Prem. + 1/2 #/sk Cello Seal	12.01	12.3	2.03		1218	216.9
100 sks.	C + 1/2 #/sk Cello Seal + .2% CF-2 + .1% TF-4	6.32	14.8	1.33		133	23.68

Total Mix H₂O 186.7 Bbls. Total Displacement 55.25 Bbls, Type H₂O Total Products 240.6 Bbls

p.m. Time	Remarks	Rate	Pressure	
			Tubing	Casing
6:05	Casing on Bottom, Rig up Head			
6:10	Pump Truck, Arrive on Loc., Rig up to Circulate			
6:30	Circulate w/Rig Pump			
7:30	Bulk Truck Arrive on Loc., Rig them up			
7:45	Drop Ball to Set Float Packer			
7:55	Bring Pressure up to Set Float Packer	1.3	0 to 1250	
8:05	Packer Set & Open	.3	1250 to 0	
8:06	Pump 10 Bbls. H ₂ O Ahead	5.2	300	
8:08	Mix & Pump 216.9 Bbls. of Lead Slurry	5.6	350	
8:44	Mix & Pump 23.68 Bbls. of Tail Slurry	5.0	200	
8:48	Shutdown to Change Valves on Head			
8:51	Drop Plug	4	200	
8:52	Displace	5	0 to 600	
9:00	Slow Rate w/19 Left	3	600 to 800	
9:06	Bump Plug	2.8	800 to 1600	
9:07	Check Float; It Held		1600 to 0	

RECEIVED

Break Down At BPM At PSI Running Hesitation PSI
 Squeezed To PSI Running Hesitation PSI
 Reversed out BBL Slurry at PSI
 Customer considered service Satisfactory Unsatisfactory
 Customer Rep: Dan Bell Service Supervisor D. M. Herral

Max Pressure 1600 Differential Press. 800
 Bumped Plug X Yes No Pressure to 1600
 Cmt. Circ. to surface Yes Sacks 50
 Float Held X Yes No
 Shut in with -0- PSI

CONSERVATION
Wichita, Kansas

HALLIBURTON SERVICES

Duncan, Oklahoma 73536

A Division of Halliburton Company

TICKET NO. **917989-6**

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME MATER 60 341		COUNTY STANTON	STATE KS	CITY / OFFSHORE LOCATION	DATE 3-8-90
CHARGE TO CHEYENNE DRILLING		OWNER AMICO PRODUCTIONS	TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOI YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR Cheyenne Rig 1	LOCATION 1 LIBERAL		CODE 50340
CITY, STATE, ZIP		SHIPPED VIA HAWCO	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2 HUGOTON
WELL TYPE 02	WELL CATEGORY 01	WELL PERMIT NO. B- 836919	DELIVERED TO LOCATION		CODE 50325
TYPE AND PURPOSE OF JOB 010		ORDER NO.	REFERRAL LOCATION		

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
					QTY	MEAS	QTY	MEAS			
000-117		1		MILEAGE	1	QUIT	22	MI	2.20	48	40
001-016				Pumpjack Service	8	HR	577	!		505	80
030-016				SW Top Pump	8	EA	1	EA		92	00
40	807-93059			CENTRALIZERS	2	EA	8	EA	53.00	106	00
597	825-1269			BAFFLE	1	EA	8	EA		39	00

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO. **B- 836919**

2577 05

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? **SEP 1 1990**

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

CLARDE NORWOOD
CUSTOMER OR HIS AGENT (PLEASE PRINT)

CLARDE NORWOOD
CUSTOMER OR HIS AGENT (SIGNATURE)

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

Kurt
HALLIBURTON OPERATOR

HAWCO
HALLIBURTON APPROVAL

FIELD OFFICE

✓ SUB TOTAL **3368 25**

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

DRILLERS LOG

AMOCO PRODUCTION COMPANY
 MATER G.U. "A" NO. 3 HI
 SECTION 13-T27S-R39W
 STANTON COUNTY, KANSAS

COMMENCED: 03-07-90
 COMPLETED: 03-11-90

SURFACE CASING: 565' OF 8 5/8"
 CMTD W/130 SX LT. "C", 2% C.C.,
 1/4#/SX FLO-SEAL; TAILED IN W/150
 SX PREM. PLUS, 2% C.C., 1/4#/SX
 FLO-SEAL

FORMATION	DEPTH
SURFACE HOLE	0- 577
RED BED, ANHYDRITE, & SAND	577-1530
SAND, CLAY, & SHALE	1530-1863
SHALE & LIME	1863-2569 RTD

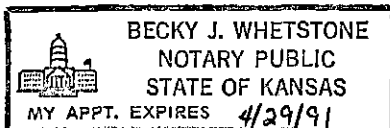
I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

CHEYENNE DRILLING, INC.

A. J. Jacques
 A.J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 12TH DAY OF MARCH, 1990.



Becky J. Whetstone
 BECKY J. WHETSTONE, NOTARY PUBLIC

RECEIVED
 STATE CORPORATION COMMISSION

MAR 19 1990

CONSERVATION DIVISION
 Wichita, Kansas

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