

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

Operator: License # 5952
Name: AMOCO PRODUCTION COMPANY
Address P.O. Box 800 Room 720C
City/State/Zip Denver, Colorado 80201
Purchaser: Williams Natural Gas
Operator Contact Person: Debra L. Kerps
Phone (303) 830-4224
Contractor: Name: Cheyenne Drilling
License: 5382
Wellsite Geologist: n/a
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SIOW 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 PSTD
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

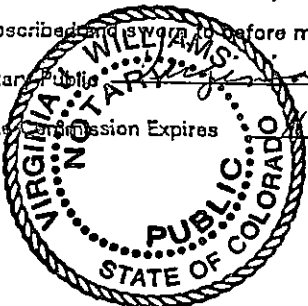
6/19/98 6/21/98 7/13/98
Spud Date Date Reached TD Completion Date

API No. 15 - 093-21621-0000 **ORIGINAL**
County Kearny
SE - SE - NW - SW Sec. 15 Twp. 24S Rge. 37 East West
1390 Feet from S (circle one) Line of Section
1250 Feet from EW (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW, or SW (circle one)
Lease Name DOTSON GAS UNIT Well # 4HI
Field Name Hugoton
Producing Formation Chase
Elevation: Ground 3194' KB _____
Total Depth 2725' PBDT 2719'
Amount of Surface Pipe Set and Cemented at 364' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 2719'
feet depth to 5' w/ 500 sx cmt.
Drilling Fluid Management Plan A14.2, 10-14-98 U.C.
(Data must be collected from the Reserve Pit)
Chloride content 58,000 ppm Fluid Volume 700 bbls
Dewatering method used dried and filled
Location of fluid disposal if hauled offsite **RECEIVED**
KANSAS CORPORATION COMMISSION
Operator Name _____ 10-14-98
Lease Name OCT 14 1998 License No. _____
Quarter _____ Sec. CONSERVATION DIVISION S. Rng. _____ E/W
WICHITA, KS
County _____ Docket No. _____

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 to the best of my knowledge.

Signature [Signature]
Title Permitting Representative Date October 13, 1998
Subscribed and sworn to before me this 13th day of October 1998
Notary Public J. Williams
Date of Commission Expires 10-14-1998



K.C.C. OFFICE USE ONLY	
F	<input type="checkbox"/> Letter of confidentiality Attached
C	<input checked="" type="checkbox"/> Wireline Log Received
C	<input type="checkbox"/> Drillers Time-log Received
Distribution	
<input checked="" type="checkbox"/>	KCC <input type="checkbox"/> SWD/Rep <input type="checkbox"/> NGPA
<input type="checkbox"/>	KGS <input type="checkbox"/> Plug <input type="checkbox"/> Other (Specify)

Operator Name AMOCO PRODUCTION COMPANY Lease Name DOTSON GAS UNIT Well # 4HT

AMIGO

County Kearny

Sec. 15 Twp. 24S Rge. 37 East

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 (Attach Additional Sheets.) Yes No

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run (Submit Copy.) Yes No

List All E. Logs Run:
 Compensated Spectral Natural
 Gamma Ray Log

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
Chase	2502'	KB
Council Grove	2792'	KB

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#	364	prem plus	200	2%cc; 1/4# flocele
production	7-7/8"	5-1/2"	14#	2719	class C light wt	500	1/4# flocele

n/a **ADDITIONAL CEMENTING/SQUEEZE RECORD**

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
2	2530-2540'; 2540-2560'; 2590-2610'; 2650-2660'; and 2696-2706	frac w/122,000# 12/20 Brady 2530 - 2706' sand and 780 bbls N ₂ foam

TUBING RECORD Size 2-3/8" Set At 2693' Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj _____ Producing Method Flowing Pumping Gas Lift Other (Explain) _____

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

Disposition of Gas: Vented Sold Used on Lease

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

(If vented, submit ACO-18) Other (Specify) _____

Production Interval 2530 - 2706'

ORIGINAL

15-093-21621-0000

RECEIVED

KANSAS CORPORATION COMMISSION

DRILLERS LOG

AMOCO PRODUCTION COMPANY
DOTSON GU 4 HI
SECTION 15-T24S-R37W
KEARNY COUNTY, KANSAS

OCT 14 1998

CONSERVATION DIVISION
WICHITA KS

COMMENCED: 06-19-98
COMPLETED: 06-21-98

SURFACE CASING: 364' OF 8 5/8" CMTD
W/200 SKS PREMIUM PLUS LITE + 2% CC
+ 1/4 #/SK FLOCELE.

FORMATION

DEPTH

15-093-21621

SURFACE HOLE
RED BED
CHASE

0 - 364
364 -2640
2640 -2725 RTD

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

CHEYENNE DRILLING, INC.

WRAY VALENTINE

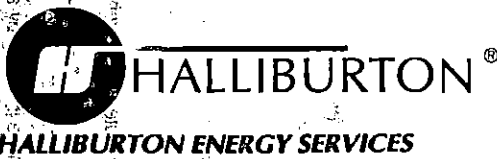
STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 23RD DAY OF JUNE, 1998.

JOLENE K. RUSSELL

NOTARY PUBLIC





CHARGE TO: Amoco Production
 ADDRESS: _____
 CITY, STATE, ZIP CODE: _____

CUSTOMER COPY
ORIGINAL No. 15-093-21621-0000
 TICKET 383088 - 2
 PAGE 1 OF 2

1908-Q

1. SERVICE LOCATIONS <u>25540 LIBERAL</u>	WELL/PROJECT NO. <u>4-117</u>	LEASE <u>DOTSON G.U.</u>	COUNTY/PARISH <u>KENNEY</u>	STATE <u>KS</u>	CITY/OFFSHORE LOCATION <u>LAKIN</u>	DATE <u>6-19-98</u>	OWNER <u>SAME</u>
2. <u>25535 HIGOTON</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR <u>CHEYENNE DRIG #8</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>WELL SITE</u>	ORDER NO.
3.	WELL TYPE <u>07</u>	WELL CATEGORY <u>01</u>	JOB PURPOSE <u>010 5-8 1/8 SURFACE</u>	WELL PERMIT NO.	WELL LOCATION <u>LAND SEC 15-245-37W</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
			LOC	ACCT	DF							
010	000-117		/			MILEAGE	176		M		3.65	642.4
	000-119		/			CRUISE MILEAGE	176		M		2.15	378.4
	001-016		/			PUMP CHARGE	364		FT		1630.00	1630.00
	030-018		/			5" W TOP PLUG	1	EA	8 7/8 IN		143.00	143.00
	24A	815-19507	/			INSERT FLOAT	1	EA	8 7/8 IN		207.00	207.00
	37	815-19415	/			FILL UP ASSY	1	EA	1.50 IN		81.00	81.00

RECEIVED
 KANSAS CORPORATION COMMISSION
 OCT 14 1998
 CONSERVATION DIVISION
 WICHITA KS

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

TYPE LOCK	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN		PAGE TOTAL	3081 80
BEAN SIZE	TYPE OF EQUALIZING SUB.	CASING PRESSURE	FROM CONTINUATION PAGE(S)	4536 10
DEPTH	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	7617 90
SPACERS	TREE CONNECTION	TYPE VALVE	SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE	

DATE SIGNED: _____ TIME SIGNED: _____
 A.M. P.M.

do do not require IPC (Instrument Protection). Not offered

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) <u>Joe Tuley</u>	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) <u>X</u>	HALLIBURTON OPERATOR/ENGINEER <u>JH Woodman</u>	EMP # <u>62573</u>	HALLIBURTON APPROVAL
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ORIGINAL
15-093-21621-0000

Halliburton Energy Services

DATE:06-19-1998 TIME:12:17:52 SERVICE TICKET: 383088

HUGOTON-25535 BULK TICKET ONLY: 801295

JOB PURPOSE: SURFACE COMPANY TRUCK: 6610 DRIVER: R. FERGUSON

CUSTOMER: AMOCO PRODUCTION

LEASE & WELL#: DOTSON G.U. 4HI

504-050	PREMIUM PLUS CEMENT	200	SKS.	15.69	3138.00
507-210	FLOCELE	50	LBS.	2.09	104.50
509-406	CALCIUM CHLORIDE	4	SKS.	46.90	187.60
500-207	SERVICE CHARGES	212	CU FT.	1.66	351.92
			TOTAL		3782.02
500-306	WEIGHT: 19151	MILES: 63	TON MILES: 603.26	1.25	754.08
	TOTAL BOOK PRICE OF BULK TICKET:				\$ 4536.10

500-225 RETURN SERVICE CHARGES _____ 20% COST OF RET. MATERIALS
1.66

500-306 WEIGHT: _____ RETURN MILES: 63 TON MILES: _____ 1.25

RECEIVED
KANSAS CORPORATION COMMISSION

OCT 14 1998

CONSERVATION DIVISION
WICHITA, KS



HALLIBURTON

ORIGINAL

15-093-21621-0000

Halliburton Energy Services

DATE:06-19-1998

TIME:12:17:52

SERVICE TICKET: 383088

HUGOTON-25535

BULK TICKET ONLY: 801295

JOB PURPOSE: SURFACE COMPANY TRUCK: 6619 DRIVER: R. FERGUSON

CUSTOMER: AMOCO PRODUCTION

LEASE & WELL#: DOTSON G.U. 4H1

504-050 PREMIUM PLUS CEMENT 200 SKS. 15.69 3138.00

507-210 FLOCELE 50 LBS. 2.09 104.50

509-406 CALCIUM CHLORIDE 4 SKS. 46.90 187.60

500-207 SERVICE CHARGES 212 CU FT 1.66 351.92

TOTAL 3782.02

500-306 WEIGHT: 19151 MILES: 63 TON MILES: 603.26 1.25 754.08

TOTAL BOOK PRICE OF BULK TICKET: \$ 4536.10

500-225 RETURN SERVICE CHARGES 20% COST OF RET. MATERIALS 1.66

500-306 WEIGHT: RETURN MILES: 63 TON MILES: 1.25

RECEIVED
KANSAS CORPORATION COMMISSION

OCT 14 1998

CONSERVATION DIVISION
WICHITA, KS



HALLIBURTON ENERGY SERVICES

1906-Q

CHARGE TO:

Amoco Production ORIGINAL

CUSTOMER COPY

TICKET

No.

383807 - 6

ADDRESS

Ulysses operations Center 2225 W. Oklahoma Ave.

CITY, STATE, ZIP CODE

Ulysses KS 67880

15-093-21621-0000

PAGE 1 OF 2

SERVICE LOCATIONS 1 025540	WELL/PROJECT NO. 41-4-E	LEASE Dotson G.O.	COUNTY/PARISH Kearny	STATE KS	CITY/OFFSHORE LOCATION W Lakin	DATE 6-21-98	OWNER Same
2 025535	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	NITROGEN JOB? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	CONTRACTOR Cheyenne Digs # 8	RIG NAME/NO. 8	SHIPPED VIA CT	DELIVERED TO Well Site	ORDER NO.
3	WELL TYPE OZ	WELL CATEGORY O1	JOB PURPOSE O35	WELL PERMIT NO.	WELL LOCATION Land		
4	REFERRAL LOCATION	INVOICE INSTRUCTIONS					

JOB PURPOSE	PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT
			LOC	ACCT.	DF			U/M		U/M		
	000-117					MILEAGE	200	MI		RT	3.65	730.00
	000-119					crew mileage	200	MI		RT	2.15	430.00
	001-016					Pump Charge	2719	FT		HR	1798.00	1798.00
	030-016					5 wiper plug	5 1/2	in		EA	66.00	66.00
	045-050					Portable Data Acquisition	1	Job		EA	760.00	760.00
	26	847.6318				Insert Float Shoe	5 1/2	in		EA	416.00	415.00
	27	815.19311				Fill tube	1.5	in		EA	87.00	87.00
	40	806.60022				Centralizers	5 1/2	in		EA	70.00	420.00
	350	890.10802				Weld-A	1	lb		EA	18.43	18.43

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 KANSAS CORPORATION COMM. DIVISION
 OCT 14 1998
 CONSERVATION DIVISION

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DATE SIGNED _____ TIME SIGNED _____

A.M. P.M.

do do not require IPC (Instrument Protection). Not offered

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT) Joe Easley	CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE) X	HALLIBURTON OPERATOR/ENGINEER D M Lane	EMP # 63601	HALLIBURTON APPROVAL
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TYPE LOCK	SUB SURFACE SAFETY VALVE WAS: <input type="checkbox"/> PULLED & RETURN <input type="checkbox"/> PULLED <input type="checkbox"/> RUN			PAGE TOTAL 4724 43
BEAN SIZE	TYPE OF EQUALIZING SUB.	CASING PRESSURE		FROM CONTINUATION PAGE(S) 9521 57
DEPTH	TUBING SIZE	TUBING PRESSURE	WELL DEPTH	14246
SPACERS	TREE CONNECTION	TYPE VALVE		SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE



JOB LOG ORIGINAL

TICKET #	383507	TICKET DATE	6-21-98
BDA / STATE	KS	COUNTY	Wichita
PSL DEPARTMENT	Zach Taylor		
CUSTOMER REP / PHONE	15-093-21621-0000		
API / UWI #	035		
JOB PURPOSE CODE	235		

REGION	North America	NWA/COUNTRY	Mexico
MBU ID / EMP #	171101 C3601	EMPLOYEE NAME	D. McLean
LOCATION	Field	COMPANY	Amer
TICKET AMOUNT	14247	WELL TYPE	07
WELL LOCATION	Field	DEPARTMENT	Zach Taylor
LEASE / WELL #	D. McLean 4 HT	SECT TWP / RNG	15 24E 37W

HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS	HES EMP NAME/EMP#/(EXPOSURE HOURS) HRS
D. McLean C3601			
J. K. T 2614			
J. Wood T 1679			
P. ... T 1617			

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESS. (psi)		JOB DESCRIPTION / REMARKS
				T	C	Tbg	Csg	
	0450							Job Ready
	0430							on location Rig Keying Down D.P
	0435							Set up pump trucks
	0439							D. Paint of hole
	0450							Rig up to run
	0500							Start Csg & Float Equip
	0505							Csg on Bottom
	0505							Hook up Pk & Circulating Trn
	0509							Start Circulating
	0512							thru Circulating
	0513							Hook up to pump truck
								Job Procedure 5 1/2 Long String
	0615	6	5			0/100		Start Fresh water
	0616	6	143			250/150		Start Cement @ 12.3 #/gal
	0649							Thin mixing Cement
	0645							Shut Down / Release Plug
	0646							Wash up pumps & lines
	0649	6	64.7			0/100		Start Displacement
	0651					00/350		Displacement Caught Cement
	0657	3				200/150		Slow Down Rate
	0700					150/100		Plug Landed
								Release Float

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OCT 14 1998

CONSERVATION DIVISION
WICHITA KS

① Cemented 7.4 Bbl to pit
Stc to P.L

Thank You For Calling Halliburton

Danna (Crew)



HALLIBURTON

ORIGINAL

15-093-21421-0000

Halliburton Energy Services

DATE:06-20-1998

TIME:23:41:25

SERVICE TICKET: 383807

HUGOTON-25535

BULK TICKET ONLY: 801299

JOB PURPOSE:LONG STRING

COMPANY TRUCK:6610 DRIVER: R.FERGUSON

CUSTOMER: AMOCO PRODUCTION

LEASE & WELL#:DOTSON-4HI

504-120 HLC PREMIUM PLUS 500 SKS. 12.90 6450.00

507-210 FLOCELE 125 LBS. 2.09 261.25

500-207 SERVICE CHARGES 562 CU FT 1.66 932.92

TOTAL 7644.17

500-306 WEIGHT: 46935 MILES: 64 TON MILES: 1501.92 1.25 1877.40

TOTAL BOOK PRICE OF BULK TICKET: \$ 9521.57

500-225 RETURN SERVICE CHARGES 20% COST OF RET. MATERIALS
1.66

500-306 WEIGHT: RETURN MILES: 64 TON MILES: 1.25

RECEIVED
KANSAS CONSERVATION COMMISSION

OCT 14 1998
10-14-1998

CONSERVATION DIVISION
WICHITA, KS