

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

Operator: License # 4549
Name Anadarko Petroleum Corporation
Address P.O. Box 351
City/State/Zip Liberal, KS 67905-0351

Purchaser NA - Waiting on pipeline connection

Operator Contact Person M. L. Pease
Phone (316) 624-6253

Contractor: License # 5842
Name Gabbert-Jones, Inc.

Wellsite Geologist Robert W. Acree
Phone (303) 595-3326

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD Temp Abd
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply etc.)

If ONWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable

6/17/89 6/30/89 8/1/89
Spud Date Date Reached TD Completion Date

6550' 6450'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 1677 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2882 feet
If alternate 2 completion, cement circulated from feet depth to w/SX cmt
Cement Company Name Halliburton Services
Invoice # 803010

API NO. 15-189-21,344-00-001 D.1 PSL

County Stevens FROM CONFIDENTIAL

SE. SE. Sec. 15 Twp. 33S. Rge. 39 East West

1250 Ft North from Southeast Corner of Section
1250 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

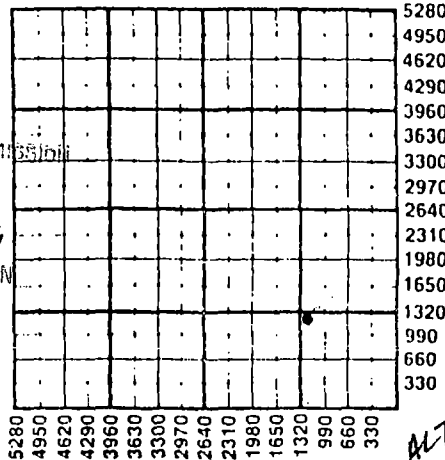
Lease Name CHRISTOPHER "A" Well # 1

Field Name Demuth

Producing Formation Keyes Sand

Elevation: Ground 3220 KB 3234

Section Plat



RECEIVED
AUG 30 1989
8-30-89
CONSERVATION DIVISION
Wichita, Kansas

ACT I
11-6-80

WATER SUPPLY INFORMATION

Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner of Sec Twp Rge East West

Surface Water Ft North from Southeast Corner (Stream, pond etc) Ft West from Southeast Corner Sec Twp Rge East West

Other (explain) supplied by contractor (purchased from city, R.W.D. #)

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. 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 M. L. Pease KANSAS GEOLOGICAL SURVEY

Title Division Production Manager Date 8/28/89

Subscribed and sworn to before me this 28th day of August 1989

Notary Public Cheryl Steers

Date Commission Expires

CHERYL STEERS
Notary Public - State of Kansas
My Appl. Expires 6-1-93

K.C.C. OFFICE USE ONLY
 Letter of Confidentiality Attached
 Wireline Log Received
 Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Operator Name Anadarko Petroleum Corporation... Lease Name CHRISTOPHER "A"... Well # 1...

Sec. 15... Twp. 33S... Rge. 39... East West County Stevens... **RELEASED**...

WELL LOG

JAN 01 1991

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cones. Report **FROM CONFIDENTIAL** 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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

Name	Top	Bottom
Sand-Clay-Redbed	0	507
Redbed-GYP	507	1150
Redbed-GYP-Sand	1150	1477
GYP-Redbed	1477	1540
GYP-Redbed-ANHY	1540	1680
Shale	1680	1935
Shale-Lime	1935	2300
Lime-Shale	2300	6550
TD	6500	

* SEE ATTACHED FM. TOPS

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	24	1677	1 See Below		
Production	7 7/8	4 1/2	11.6	6547	2 See Below		
(DV Tool)				2882	Liteweight	100	6% Gel

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
2	St. Louis 6504-10	Acid w/1700 g. 15% FeHCL	6540-10
	Non Commercial	Set CIRP above St. Louis	6450
4	Keyes 6100-08	Natural	6100-08

TUBING RECORD	Size	Set At	Packer at	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
	2 3/8"	6090			

Date of First Production	Producing Method
NA-waiting on pipeline connection	<input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....

Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity
	1 Bbls	1000 MCF	2 Bbls	1000000 CFPB	45

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold waiting on pipeline connection Other (Specify) 6100-6108.....
 Used on Lease

Dually Completed
 Commingled

- 8 5/8" cmt with 600 sxs 50/50 Poz, 4% gel, 2% cc. 200 sxs common, 2% cc. Cmt annulus with 150 sxs common down 1" tbg.
- 4 1/2" cmt with 75 sxs liteweight 65/35 Poz, 6% gel, 1/2#/sx Flocele + 275 sxs Thixset Class "H", 5% KCL, 1/4#/sx Flocele.

CHRISTOPHER A #1
SEC. 15-33S-39W
STEVENS CO., KANSAS

Drillers Well Log

COMMENCED: 6-17-89
COMPLETED: 6-30-89
OPERATOR: ANADARKO PETROLEUM CORPORATION

DEPTH		FORMATION	REMARKS
From	To		
0	507	Sand-Clay-Redbed	Ran 39 jts of 24# 8 5/8" csg LD @ 1677' w/600 sks Posmix 4% Gel - 2% CC - 200 sks Common 2% CC - PD @ 5:00 AM 6-19-89. 1" - 150 sks Common Job Complete @ 7:45 AM 6-19-89.
507	1150	Redbed-Gyp	
1150	1477	Redbed-Gyp-Sand	
1477	1540	Gyp-Redbed	
1540	1680	Gyp-Redbed-Anhy	
1680	1935	Shale	
1935	2300	Shale-Lime	
2300	6550	Lime-Shale	
6550 TD			

RECEIVED
STATE CORPORATION COMMISSION
JUL 30 1989
CONSERVATION DIVISION
Wichita, Kansas

STATE OF KANSAS]
]
COUNTY OF SEDGWICK]

I, the undersigned, being duly sworn on oath,
state that the above Drillers Well Log is true
and correct to the best of my knowledge and
belief and according to the records of this office.

GABBERT- JONES, INC.

James S. Sutton, II
James S. Sutton, II - President

Subscribed & sworn to before me this
6th day of JULY, 1989.

Lola Lenore Costa
Lola Lenore Costa

LOLA LENORE COSTA
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 11/21/92

ATTACHMENT

CHRISTOPHER "A" NO. 1
SECTION 15-33S-33W
STEVENS COUNTY, KANSAS

API #15-189-21,344

~~CONFIDENTIAL~~
ORIGINAL

RELEASED

JAN 0 1 1991

FROM CONFIDENTIAL

FORAMTION

DEPTH

SUBSEA (GL 3220)

BASE STONE CORRAL	1630	+1530
TOP CHASE GROUP	2468	+752
TOP COUNCIL GROVE	2780	+440
TOP ADMIRE	3002	+218
TOP WABAUNSEE	3216	+4
TOP TOPEKA	3478	-258
TOP HEEBNER	4022	-802
TOP TORONTO	4044	-824
TOP LANSING	4206 ✓	-986
TOP MARMATON	4858 ? 6	-1638
TOP CHEROKEE	5090 ✓	-1870
TOP MORROW	5648 ✓	-2428
TOP CHESTER	6128	-2908
TOP STE. GENEVIEVE	6230 ✓	-3010
TOP ST. LOUIS	6392	-3172

RECEIVED
STATE CORPORATIONS COMMISSION

DEC 7 1990

COMPTROLLER GENERAL
STATE OF KANSAS

HALLIBURTON SERVICES

ORIGINAL

INVOICE

A Halliburton Company

INVOICE NO.	DATE
803010	06/19/1989

WELL LEASE NO./PLANT NAME	WELL/PLANT LOCATION	STATE	WELL/PLANT OWNER
A-1 CHRISTOPHER	STEVENS	KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE	TICKET/DATE
LIBERAL	GABBERT & JONES #12	CEMENT SURFACE CASING	06/19/1989
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER
019595	JOHN SHILLING		33876
		SHIPPED VIA	FILE NO.
		COMPANY TRUCK	78054

ANADARKO PETROLEUM CORP
P. O. BOX 351
LIBERAL, KS 67905-0351

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STATE CORPORATION COMMISSION
AUG 30 1989
CONSERVATION DIVISION
Wichita, Kansas

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

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	10	MI	2.20	22.00
		1	UNT		
001-016	CEMENTING CASING	1680	FT	883.00	883.00
		1	UNT		
030-018	CEMENTING PLUG SW, PLASTIC TOP	8 5/8	IN	98.00	98.00
		1	EA		
504-043	PREMIUM CEMENT	300	SK	6.85	2,055.00
506-105	POZMIX A	300	SK	3.91	1,173.00
506-121	HALLIBURTON-GEL 2%	10	SK	.00	N/C
507-277	HALLIBURTON-GEL BENTONITE	10	SK	13.00	130.00
509-406	ANHYDROUS CALCIUM CHLORIDE	14	SK	25.75	360.50
504-043	PREMIUM CEMENT	200	SK	6.85	1,370.00
500-207	BULK SERVICE CHARGE	828	CFT	.95	786.60
500-306	MILEAGE CMTG MAT DEL OR RETURN	361.680	TMI	.70	253.18
504-043	PREMIUM CEMENT	150	SK	6.85	1,027.50
500-306	MILEAGE CMTG MAT DEL OR RETURN	23.5	TMI	.70	16.45
500-225	CEMENTING MATERIALS RETURNED	50	CFT	.32	16.00
500-207	BULK SERVICE CHARGE	200	CFT	.95	190.00
500-306	MILEAGE CMTG MAT DEL OR RETURN	94	TMI	.70	65.80

4344-2041
INVOICE SUBTOTAL

DISCOUNT-(BID)
INVOICE BID AMOUNT

*-KANSAS STATE SALES TAX
*-SEWARD COUNTY SALES TAX

FINAL APPROVAL

LIBERAL OPERATIONS RECEIVED

JUN 22 1989

APPROVED

DATE 6-23-89

LOCATION

IDC

TANGIBLE

INVOICE TOTAL - PLEASE PAY THIS AMOUNT =====> \$5,823.41

TERMS: 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.

DISTRICT Liberal Ks

DATE 6-19-89

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Andawko Petroleum Corp. (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 1# LEASE Christopher SEC. 15 TWP. 33 RANGE 39W

FIELD _____ COUNTY Stevens STATE Ks OWNED BY Andawko Petco. Corp.

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
BORE HOLE							
INITIAL PROD: OIL BPD, H ₂ O BPD, GAS MCF							
PRESENT PROD: OIL BPD, H ₂ O BPD, GAS MCF							

NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>N</u>	<u>2 1/4</u>	<u>8 3/8</u>	<u>K13</u>	<u>1691</u>
LINER					
PERFORATIONS					
PERFORATIONS					

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED

Cement 8 3/8 Surface w 600 SK 3/4 P82 1/4 14% Gel 2% CL
700 SK Premium 2% CL

Displacement w H₂O + 1" Cement w 150 SK Premium

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default 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 attorneys 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.
 - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.

The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether in the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its division subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
 - That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the product, supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - That 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 OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in an cause of action (whether in contract, tort, 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.
 - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing unit returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT.

SIGNED [Signature] CUSTOMER

DATE _____

We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or in the services furnished under this contract.

TIME _____ A.M. P.M.

CUSTOMER