

ORIGINAL

SIDE ONE

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

API NO. 15- 189-21,432-00-00
County Stevens ✓
APP NE Sec. 28 Twp. 33S Rge. 37 X East: West:
4030 ✓ Ft. North from Southeast Corner of Section
1440 ✓ Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)
Lease Name Patterson "D" ✓ Well # 3
Field Name Panoma Council Grove
Producing Formation Council Grove
Elevation: Ground 3120 KB NA
Total Depth 3151 PBTD 3140

Operator: License # 4549
Name: Anadarko Petroleum Corporation
Address P.O. Box 351
City/State/Zip Liberal, Kansas 67905-0351
Purchaser: Panhandle Eastern Pipe Line Company
(Transporter)
Operator Contact Person: J. L. Ashton
Phone (316) 624-6253

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

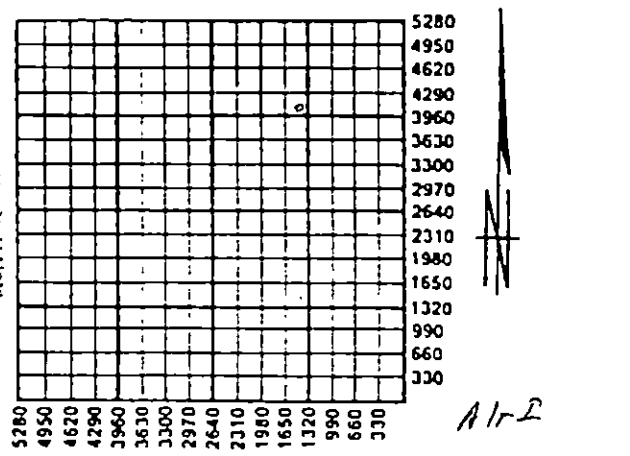
Wellsite Geologist: NA

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
7-30-90 8-2-90 12-9-90
Spud Date Date Reached TD Completion Date

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JAN 9 1991
Wichita, Kansas



Amount of Surface Pipe Set and Cemented at 750 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.

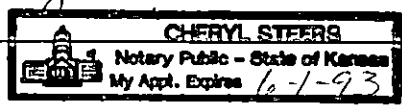
INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 apply. Information on side two of this form will be held confidential 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 Beverly J. Williams
Title Engineering Technician Date 1-11-91

Subscribed and sworn to before me this 4th day of January, 1991.

Notary Public Cheryl Steers
Date Commission Expires _____



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)

91

Operator Name Anadarko Petroleum Corporation Lease Name Patterson "D" Well # 3

Sec. 28 Twp. 33S Rge. 37
 East
 West

County Stevens

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.

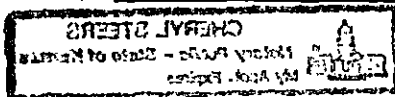
Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample <table border="1"> <thead> <tr> <th>Name</th> <th>Top</th> <th>Bottom</th> </tr> </thead> <tbody> <tr> <td>Blaine</td> <td>942</td> <td>1168</td> </tr> <tr> <td>Cedar Hills</td> <td>1168</td> <td>1633</td> </tr> <tr> <td>Stone Corral</td> <td>1633</td> <td>2566</td> </tr> <tr> <td>Chase</td> <td>2566</td> <td>2974</td> </tr> <tr> <td>Council Grove</td> <td>2974</td> <td>3151</td> </tr> <tr> <td>TD</td> <td>3151</td> <td></td> </tr> </tbody> </table> <p style="text-align: center;"><i>SEE ATTACHED</i></p>	Name	Top	Bottom	Blaine	942	1168	Cedar Hills	1168	1633	Stone Corral	1633	2566	Chase	2566	2974	Council Grove	2974	3151	TD	3151	
Name	Top		Bottom																				
Blaine	942		1168																				
Cedar Hills	1168		1633																				
Stone Corral	1633	2566																					
Chase	2566	2974																					
Council Grove	2974	3151																					
TD	3151																						
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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No																						

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	750	Pozmix & Common	450	2% cc 3% cc
Production	7 7/8	5 1/2	14	3150	Class "C"	270	20% DCD 10% DCD
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	3022-31, 3007-13, 2999-3005, 2981-94			A/3400 gals 7 1/2% fe acid + 89 BS. Frac w/49,055 gals 2% gelled slick wtr & 85,000# 12/20 sand.		2981-3031	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Date of First Production 12-9-90		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 - Bbls.	Gas 500 Mcf	Water 218 Bbls.	Gas-Oil Ratio		Gravity	

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

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

Production Interval: 2981-3031



ORIGINAL

API No. 15-189-21,432
Patterson "D" No. 3
Section 28-33S-37W
Stevens County, Kansas

<u>NAME</u>	<u>TOP</u>	<u>BOTTOM</u>
Blaine	957	1708
Cedar Hills	1186	1349
Stone Corral	1633	1706
Chase	2566	2974
Council Grove	2974	NA
TD		3151

RECORDED
STATE COMMISSION
FEB 18 1991
CONSERVATION DIVISION
Wichita, Kansas

ORIGINAL

WELL NAME: PATTERSON D-3
SEC. 28-33S-37W
STEVENS COUNTY, KANSAS

COMMENCED: 7-30-90

COMPLETED: 8- 2-90

OPERATOR: ANADARKO PETROLEUM CORPORATION

Depth		Formation	Remarks
From	To		
0	96	Sand	
96	755	Sand-Redbed	Ran 18 jts of 24# 8 5/8" csg set at 750 w/300.
755	1176	Redbed	sk 25/75 Posmix - 2% CC
1176	1350	Glorietta Sand	1/4# FS - 40 sks Common
1350	2437	Redbed-Shale	3% CC - 1/4# FS
2437	3151	Lime-Shale	PD @ 12:45 AM 7-31-90

3151 TD

Ran 78 jts of 14# 5 1/2" csg set @ 3151' w/230 sks
Class C - 20% Diacel D
2% CC - 1/4# FS - 40 sks
class C - 10% Diacel D
2% CC - 1/4# FS
PD @ 4:45 pm 8-2-90
RR @ 5:45 PM 8-2-90

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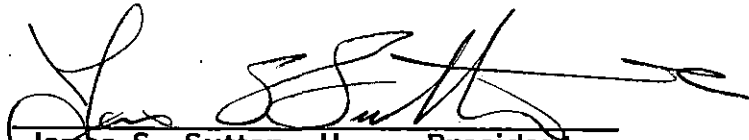
JAN 9 1991

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.

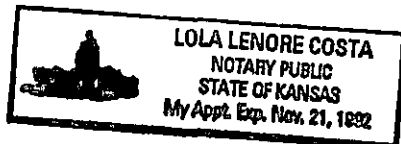
GABBERT-JONES, INC.


James S. Sutton, II. -- President

Subscribed & sworn to before me this
8th day of August, 1990


Lola Lenore Costa

My commission expires Nov. 21, 1992





INVOICE

HALLIBURTON SERVICES

A Halliburton Company

INVOICE NO.	DATE
014264	08/02/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
PATTERSON D-3		STEVENS		KS	SAME
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE	
LIBERAL		GABBERT & JONES		CEMENT PRODUCTION CASING	
TICKET DATE					
08/02/1990					
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
019595	JOHN SHILLING		33876	COMPANY TRUCK	99615

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

DIRECT CORRESPONDENCE TO:
SUITE 1300
LIBERTY TOWER
100 BROADWAY AVENUE
OKLAHOMA CITY, OK 73102-0000

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STATE CORPORATION COMMISSION

JAN 9 1991

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	CONSERVATION DIVISION Wichita, Kansas MILEAGE	32	MI	2.35	75.20
001-016	CEMENTING CASING	3151	FT	1,095.00	1,095.00
030-018	CEMENTING PLUG SW, PLASTIC TOP	5.5	IN	53.00	53.00
018-315	MUD FLUSH	1260	GAL	.45	567.00
314-163	CLAYFIX II	2	GAL	20.00	40.00
504-050	PREMIUM PLUS CEMENT	270	SK	7.08	1,911.60
507-210	FLOCELE	68	LB	1.30	88.40
509-406	ANHYDROUS CALCIUM CHLORIDE	5	SK	26.25	131.25
500-959	CELITE	4700	LB	.42	1,974.00
500-207	BULK SERVICE CHARGE	561	CFT	1.10	617.10
500-306	MILEAGE CMTG MAT DEL OR RETURN	30.548	THI	.75	50.00MN*
INVOICE SUBTOTAL					6,602.55
DISCOUNT - (BID)					2,310.88-
INVOICE BID AMOUNT					4,291.67
*-KANSAS STATE SALES TAX					133.30
*-SEWARD COUNTY SALES TAX					31.36
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					\$4,456.33

1100-2041

John Shilling

8-13-90

TERMS: INVOICE IS VALID FOR 90 DAYS FROM DATE OF ISSUE. CUSTOMER SHALL PAY AMOUNT OF CUSTOMER'S ACCOUNT BY THE LAST DAY OF THE MONTH FOLLOWING THE MONTH IN WHICH THE INVOICE IS DATED. CUSTOMER SHALL AGREE TO PAY INTEREST ON UNPAID BALANCE AT THE RATE OF 10% PER ANNUM. CONTRACT RATE APPLICABLE TO ALL INVOICES. CUSTOMER'S ACCEPTANCE OF THIS INVOICE SHALL BE DEEMED AS ACCEPTANCE OF ALL TERMS AND CONDITIONS OF SERVICE. CUSTOMER'S ACCEPTANCE OF THIS INVOICE SHALL BE DEEMED AS ACCEPTANCE OF ALL TERMS AND CONDITIONS OF SERVICE. CUSTOMER'S ACCEPTANCE OF THIS INVOICE SHALL BE DEEMED AS ACCEPTANCE OF ALL TERMS AND CONDITIONS OF SERVICE.



REMIT TO:
 P.O. BOX 951046
 DALLAS, TX 75395-1046

HALLIBURTON SERVICES ORIGINAL

INVOICE

A Halliburton Company

INVOICE NO.	DATE
925447	07/30/1990

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
PATTERSON D-3		STEVENS		KS	SAME
SERVICE LOCATION	CONTRACTOR	JOB PURPOSE		TICKET DATE	
PERRYTON	G & J	CEMENT SURFACE CASING		07/30/1990	
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
019595	JOHN SHILLING		53876	COMPANY TRUCK	79165

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

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

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 STATE CORPORATION COMMISSION

PRICE REF. NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
000-117	MILEAGE	30	MI	2.35	70.50
001-016	CEMENTING CASING	755	FT	630.00	630.00
504-043	PREMIUM CEMENT	375	SK	6.85	2,568.75
506-105	POZMIX A	75	SK	3.91	293.25
506-121	HALLIBURTON-GEL 2X	2	SK	.00	N/C
509-406	ANHYDROUS CALCIUM CHLORIDE	12	SK	26.25	315.00
507-210	FLOCELE	113	LB	1.30	146.90
500-207	BULK SERVICE CHARGE	474	CFT	1.10	521.40
500-306	MILEAGE CMTG MAT DEL OR RETURN	1	TMI	50.00	50.00
INVOICE SUBTOTAL					4,595.80
DISCOUNT-(BID)					1,378.73-
INVOICE BID AMOUNT					3,217.07
A--KANSAS STATE SALES TAX					115.88
INVOICE TOTAL - PLEASE PAY THIS AMOUNT					(\$3,332.95)

JAN 9 1991

CONSERVATION DIVISION
 Wichita, Kansas

Jim Prater

1100-4-7A041

8-7-90
 11-1-89

TERMS: A 30 DAY PAYMENT PERIOD FROM DATE OF INVOICE...
 FORM 1900-R3