FORM MUST BE TYPED

ORIGINAL

SIDE ONE

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

Operator: License # 4549

Name: ANADARKO PETROLEUM CORPORATION

Address P. O. BOX 351

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: TEXACO TRADING & TRANSPORTATION, INC.

Operator Contact Person: DAVID W. KAPPLE

Phone (316) 624-6253

Contractor: Name: CHEYENNE DRILLING

License: 5382

Wellsite Geologist:

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

X Oil ____ SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
____ Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover:

Operator:

Well Name:

Comp. Date ____ Old Total Depth ____

____ Deepening ____ Re-perf. ____ Conv. to Inj/SWD
____ Plug Back ____ PBTD
____ Commingled Docket No. ____
____ Dual Completion Docket No. ____
____ Other (SWD or Inj?) Docket No. ____

9-15-97 Spud Date | 9-23-97 Date Reached TD | 11-10-97 Completion Date

API NO. 15- 175-21663-0000

County SEWARD

____ - ____ - SW - SW Sec. 30 Twp. 33 Rge. 32 ____ E X W

660 Feet from X/S (circle one) Line of Section

660 Feet from X/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name JACQUART "B" Well # 1

Field Name ARKALON

Producing Formation ST.LOUIS

Elevation: Ground 2810.1 KB

Total Depth 6450 PBTD 6385

Amount of Surface Pipe Set and Cemented at 1590 Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from ____

feet depth to ____ w/ ____ sx cmt.

Drilling Fluid Management Plan Alt. 1, 5-4-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 1300 ppm Fluid volume 700 bbls

Dewatering method used DRY, BACKFILL & RESTORE LOCATION.

Location of fluid disposal if hauled offsite:

Operator Name ____

Lease Name ____ License No. ____

____ Quarter Sec. ____ Twp. ____ S Rng. ____ E/W

County ____ Docket No. ____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, 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 and correct to the best of my knowledge.

Signature L. Marc Harvey
L. MARC HARVEY
Title DRILLING TECHNICAL ASSISTANT Date 1-7-98

Subscribed and sworn to before me this 7th day of January 19 98.

Notary Public Freda L. Hinz

Date Commission Expires

FREDA L. HINZ
Notary Public - State of Kansas
My Appt. Expires 5-15-99

K.C.C. OFFICE USE ONLY
F ____ Letter of Confidentiality Attached
C ✓ Wireline Log Received
C ____ Geologist Report Received

Distribution
✓ KCC ____ SWD/Rep ____ NGPA
____ KGS ____ Plug ____ Other (Specify)

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CONSERVATION DIVISION
Wichita, Kansas

Form ACO-1 (7-91)

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name JACQUART "B" Well # 1

Sec. 30 Twp. 33 Rge. 32 ☐ East ☒ West County SEWARD

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: SBT-CCL-GR, DIL, ML, CNL-LDT.

☒ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
CHASE	2614	
COUNCIL GROVE	2978	
HEEBNER	4283	
TORONTO	4306	
LANSING	4454	
MARMATON	5128	
CHEROKEE	5324	
MORROW	5674	
CHESTER	5890	
STE. GENEVIEVE	6178	
ST. LOUIS	6250	

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"	23.0	1590	P+ MIDCON 2/ P+ MIDCON 2.	310/100	3%CC, ¼#SK FLC/ 3%CC, ¼#SK FLC.
PRODUCTION	7-7/8"	5-1/2"	15.5	6447	50/50 POZ/ 50/50 POZ.	25/250	.75% HALAD-322, 10% SALT, ¼#SK FLC/ SAME.

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 Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	6283-6300.	ACID: 1400 GAL 15% FeHCl.	6283-6300
		FRAC: 8750 GAL FOAMED 15% HCL & 6285 GAL	6283-6300
		FOAMED 2% KCL.	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	6317		☐ Yes ☒ No

Date of First, Resumed Production, SWD or Inj.	Producing Method
11-12-97	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	59	TSTM	10	TSTM	35.6

Disposition of Gas:

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

METHOD OF COMPLETION

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify) _____

Production Interval

6283-6300

DRILLERS LOG

ANADARKO PETROLEUM CORPORATION
JACQUART B-1
SECTION 30-T33S-R32W
SEWARD COUNTY, KANSAS

ORIGINAL

15-175-21663

COMMENCED: 09-15-97
COMPLETED: 09-25-97

SURFACE CASING: 1589' OF 8 5/8" CMTD W/310 SKS PREMIUM PLUS MIDCON + 3% CC + 1/4 #/SK FLOCELE. TAILED IN W/100 SKS PREMIUM PLUS + 2% CC + 1/4 #/SK FLOCELE.

FORMATION	DEPTH
SURFACE HOLE	0 - 1590
LIMESTONE & SHALE	1590 - 6450 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

WRAY VALENTINE

STATE OF KANSAS : ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 1ST DAY OF OCTOBER, 1997.

JOLENE K. RUSSELL

Jolene K. Russell

NOTARY PUBLIC

JOLENE K. RUSSELL
State of Kansas
My Appt. Exp. 9-13-99

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CONSERVATION DIVISION
Wichita, Kansas

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JOB SUMMARY 4239-1

TICKET #	234843
TICKET DATE	9-16-97
REGION	North America
NWA/COUNTRY	Mid Continent
BDA / STATE	KS
COUNTY	Seward
MBU ID / EMP #	LT3101 G3601
EMPLOYEE NAME	D. McKane
PSL DEPARTMENT	Cement
LOCATION	Liberal
COMPANY	Anadarko Petroleum
CUSTOMER REP / PHONE	
TICKET AMOUNT	
WELL TYPE	01
API / UWI #	ORIGINAL
WELL LOCATION	Land
DEPARTMENT	Cement
JOB PURPOSE CODE	010
LEASE / WELL #	Jacquart B-1
SEC / TWP / RNG	30 33S 32W

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
E McDonald H9285							
T Sost G9775							
D Copeland H2441							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420045	26						
50947-75496	26						
50404-5610	60						
4115-75817	60						

Form Name _____ Type: _____
Form Thickness _____ From _____ To _____
Packer Type _____ Set At _____
Bottom Hole Temp. _____ Pressure _____
Misc. Data _____ Total Depth _____

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	9-16-97	9-16-97	9-16-97	9-16-97
TIME	0620	0800	1239	1339

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar Insert 8 5/8	1	H
Float Shoe		
Guide Shoe Reg 8 5/8	1	D
Centralizers 8 5/8	4	
Bottom Plug		W
Top Plug 5W 8 5/8	1	
Head P/C 8 5/8	1	C
Packer		
Other Basket 8 5/8	1	O

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	23	8 5/8		1604	
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid _____ Density _____ Lb/Gal
Disp. Fluid _____ Density _____ Lb/Gal
Prop. Type _____ Size _____ Lb. _____
Prop. Type _____ Size _____ Lb. _____
Acid Type _____ Gal. _____ % _____
Acid Type _____ Gal. _____ % _____
Surfactant _____ Gal. _____ In _____
NE Agent _____ Gal. _____ In _____
Fluid Loss _____ Gal/Lb _____ In _____
Gelling Agent _____ Gal/Lb _____ In _____
Fric. Red. _____ Gal/Lb _____ In _____
Breaker _____ Gal/Lb _____ In _____
Blocking Agent _____ Gal/Lb _____
Perfpac Balls _____ Qty. _____
Other _____
Other _____
Other _____
Other _____

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				See Job Log
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
ORDERED _____ Avail. _____ Used _____
AVERAGE RATES IN BPM
TREATED _____ Disp. _____ Overall _____
CEMENT LEFT IN PIPE
FEET 44 Reason Shoe Joint

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	310	Midcon Pt	B	3% CC 1/4 #/sk Flocele	1.22	11.1
	100	Prem Plus	B	2% CC 1/4 #/sk Flocele	1.32	14.8

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Circulating _____ Displacement _____ Preflush: Gal - BBl 10 Type H2O
Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBl _____ Pad: BBl - Gal _____
Average _____ Frac Gradient _____ Treatment Gal - BBl _____ Disp: BBl - Gal 99.8
Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBl L.C. 177.5 T.C. 23.5
Total Volume Gal - BBl _____

Frac Ring #1	Frac Ring #2	Frac Ring #3	Frac Ring #4

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE Steve Pedersen

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JOB LOG 4239-5

		TICKET #	TICKET DATE
REGION: North America	NWA/COUNTRY	BDA / STATE	COUNTY
MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	ORIGINAL
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
LEASE / WELL #	SEC / TWP / RNG		

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

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS T	PUMPS C	PRESS. (psi) Tbg	PRESS. (psi) Csg	JOB DESCRIPTION / REMARKS
	0630							Job Ready Now
	0620							Called for Job
	0800							on Location Rig St. 11 Drilling Set up
								pump truck
	0930							Rig has hole made, & Circulating
	0940							Rig through Circulating
	0943							Tripping out D.P.
	1045							D.P out of hole
	1113							Start Running Csg & Float Equip.
	1215							Csg on Bottom
	1220							Hook up P/C & Circulating Iron
	1227							Start Circulating
	1235							through Circulating
	1238							Hook up to Halliburton
								Job Procedure 8 5/8 Surface
	1239	6.5	10		✓		0/80	Start Fresh water Ahead
	1241	6.5	177.5		✓		80	Start Lead Cement @ 11.1 #/Gal
	1317	6.5	23.5		✓		80	Start Tail Cement @ 14.8 #/Gal
	1321							through mixing Cement
	1322						0	Shut Down / Release plug
	1323	6.5	99.5		✓		0/250	Start Displacement
					✓		250	Max pressure before plug lands
	1339						250/800	Plug Landed / Release Plug
								Float Held
								~~Circulated 20 Bbls to pit~~ ✓
								~~34.8 sks to pit~~
								Danny & Crew

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JOB SUMMARY 4239-1

TICKET #	TICKET DATE
234850	9-24-97

REGION	NWA/COUNTRY	BDA / STATE	COUNTY
North America	Mid Continent	KS	Seward

MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT
LT0101 G3601	D. Mckane	Cement

LOCATION	COMPANY	CUSTOMER REP / PHONE
Liberal	Anadarko Petroleum	

TICKET AMOUNT	WELL TYPE	API / UWI #
	01	ORIGINAL

WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE
Land	Cement	035

LEASE / WELL #	SEC / TWP / RNG
Jacquart B-1	30 33S 32W

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
F. McDonald 419285							
C. Ashlow 440061							

HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES	HES UNIT NUMBERS	R/T MILES
420045	28						
52947-75496	28						
51984-77031	60						

Form Name _____ Type: _____
Form Thickness _____ From _____ To _____
Packer Type _____ Set At _____
Bottom Hole Temp. _____ Pressure _____
Misc. Data _____ Total Depth _____

	CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE	9-24-97	9-24-97	9-24-97	9-24-97
TIME	1530	1715	2127	2300

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY	MAKE
Float Collar Insert 8 5/8	1	H
Float Shoe		
Guide Shoe 8 5/8	1	O
Centralizers 5 1/2	16	
Bottom Plug		W
Top Plug SW 8 5/8	1	
Head PLC 5 1/2	1	C
Packer		
Other		O

WELL DATA

	NEW/USED	WEIGHT	SIZE	FROM	TO	MAX ALLOW
Casing	U	15.5	5 1/2	KB	6461	—
Liner						
Liner						
Tbg/D.P.						
Tbg/D.P.						
Open Hole						SHOTS/FT.
Perforations						
Perforations						
Perforations						

MATERIALS

Treat Fluid _____ Density _____ Lb/Gal
Disp. Fluid _____ Density _____ Lb/Gal
Prop. Type _____ Size _____ Lb. _____
Prop. Type _____ Size _____ Lb. _____
Acid Type _____ Gal. _____ % _____
Acid Type _____ Gal. _____ % _____
Surfactant _____ Gal. _____ In _____
NE Agent _____ Gal. _____ In _____
Fluid Loss _____ Gal/Lb _____ In _____
Gelling Agent _____ Gal/Lb _____ In _____
Fric. Red. _____ Gal/Lb _____ In _____
Breaker _____ Gal/Lb _____ In _____
Blocking Agent _____ Gal/Lb _____
Perfpac Balls _____ Qty. _____
Other _____
Other _____
Other _____
Other _____

HOURS ON LOCATION		OPERATING HOURS		DESCRIPTION OF JOB
DATE	HOURS	DATE	HOURS	
				See Job Log
TOTAL		TOTAL		

HYDRAULIC HORSEPOWER
ORDERED _____ Avail. _____ Used _____

AVERAGE RATES IN BPM
TREATED _____ Disp. _____ Overall _____

CEMENT LEFT IN PIPE
FEET 42 Reason Shoe Joint

CEMENT DATA

STAGE	SACKS	CEMENT	BULK/SKS	ADDITIVES	YIELD	LBS/GAL
	25	50/50 Poz	B	10% Salt 1/4# Flake .75% Halad-322 Gas Block		
	25	50/50 Poz	B			
	250	50/50 Poz	B	10% Salt 1/4# Flake 1.25% Halad-322	1.28	14.4

Circulating _____ Displacement _____ Preflush: Gal - BBI _____ Type _____
Breakdown _____ Maximum _____ Load & Bkdn: Gal - BBI _____ Pad: BBI - Gal _____
Average _____ Frac Gradient _____ Treatment Gal - BBI _____ Disp: BBI - Gal 152.7
Shut In: Instant _____ 5 Min _____ 15 Min _____ Cement Slurr Gal - BBI 57
Total Volume Gal - BBI _____

Frac Ring #1	Frac Ring #2	Frac Ring #3	Frac Ring #4

THE INFORMATION STATED HEREIN IS CORRECT

CUSTOMER'S REPRESENTATIVE SIGNATURE John Smillie

HALLIBURTON

JOB LOG 4239-5

TICKET #		TICKET DATE	
REGION: North America	NWA/COUNTRY	BDA / STATE	COUNTY
MBU ID / EMP #	EMPLOYEE NAME	PSL DEPARTMENT	
LOCATION	COMPANY	CUSTOMER REP / PHONE	
TICKET AMOUNT	WELL TYPE	API / UWI #	ORIGINAL
WELL LOCATION	DEPARTMENT	JOB PURPOSE CODE	
LEASE / WELL #	SEC / TWP / RNG		

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
[illegible]							
C Adkins 94061							

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS T	PUMPS C	PRESS. (psi) Tbg	PRESS. (psi) Csg	JOB DESCRIPTION / REMARKS
	1530							Job Ready Now
								Called For Job
	1715							On Location Set up pump truck
	1730							Running Csg & Float Equip
	2030							Csg on Bottom
	2035							Hook up P/C & Circulating Iron
	2045							Start Circulating
	2120							Through Circulating
	2125							Hooking to Halliburton
								Job Procedure 5 1/2 Long String
	2127	3	6		✓		0	Plug RH & MH with 25 sks
	2130	7	8		✓		0/100	Start Fresh water
	2131	7	10		✓		100	Start Super Flush
	2132	7	8		✓		100	Start Fresh water
	2133	7	10		✓		100	Start Scavenger Cement @ 10 #/Gal
	2134	7	57		✓		150	Start Cement @ 14.4 #/Gal
	2147							Through mixing Cement
	2148							Shut Down / Release Plug
	2149							Wash up pumps & lines
	2152	7	152.7		✓		0/200	Start Displacement
	2207	7			✓		200/350	Caught Cement 111 Bbls out
	2258				✓		550	Max Pressure Before Plug lands
	2300						1500	Plug landed / Release Float
	2301							Float Held
								Thank You For Calling Halliburton
								Danny & Crew

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