

FORM MUST BE TYPED

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 # 4549  
Name: ANADARKO PETROLEUM CORPORATION  
Address P. O. BOX 351  
LIBERAL, KANSAS 67905-0351  
Purchaser: TEXACO TRADING & TRANSPORTATION, INC.  
Operator Contact Person: J. L. ASHTON  
Phone ( 316 ) 624-6253  
Contractor: Name: BIG "A" DRILLING  
License: 31572  
Wellsite Geologist: \_\_\_\_\_  
Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover:  
Operator: ANADARKO PETROLEUM CORPORATION  
Well Name: RAY "C" No. 5  
Comp. Date 8/27/96 Old Total Depth 5650  
**XX RAN 2 1/8" LINER**  
 Deepening  Re-perf.  Conv. to Inj/SWD  
 Plug Back  PBD  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_  
(SIDETRACK #3) WLE# 194,772-C (C-28,021)  
1/10/97 1/17/97 2/18/97  
**Date OF START Date Reached TD Completion Date OF**  
**OF WORKOVER WORKOVER**

API NO. 15- 081-21044-0003  
County HASKELL  
150' E OF \_\_\_\_\_ E  
SE - SE Sec. 21 Twp. 29S Rge. 34 X W  
SHL: 660 FSL  
BHL: 965 Feet from (S)X (circle one) Line of Section  
SHL: 510 FEL  
BHL: 519 Feet from (E)X (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE, (SE), NW or SW (circle one)  
Lease Name RAY "C" Well # 5  
Field Name EUBANK  
Producing Formation NONE  
Elevation: Ground 2977.6 KB \_\_\_\_\_  
5426 (TVD)  
Total Depth 5585 (MD) PBDT 5585 (MD)  
Amount of Surface Pipe Set and Cemented at \_\_\_\_\_ 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.

Drilling Fluid Management Plan **REWORK JR 4-3-97**  
(Data must be collected from the Reserve Pit)  
Chloride content 1000 ppm Fluid volume \_\_\_\_\_ bbls  
Dewatering method used NATURAL EVAPORATION  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name \_\_\_\_\_  
Lease Name \_\_\_\_\_ License No. \_\_\_\_\_  
\_\_\_\_\_ Quarter Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S Rng. \_\_\_\_\_ E/W  
County \_\_\_\_\_ Docket No. \_\_\_\_\_  
**1997 APR - 3 D**  
**KANSAS CORP COMM**  
**RECEIVED**  
**4-3-97**

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: David W. Kapple  
Title DIVISION DRILLING ENGINEER Date 4/2/97  
Subscribed and sworn to before me this 2nd day of April 1997.  
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)

ORIGINAL

SIDE TWO

Operator Name ANADARKO PETROLEUM CORPORATION Lease Name RAY "C" Well # 5

Sec. 21 Twp. 29 Rge. 34  East  West County HASKELL

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	<input type="checkbox"/> Log Formation (Top), Depth and Datums	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	LOG TOPS FROM ORIGINAL COMPLETION.	
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	B/STONE CORRAL	1809
List All E.Logs Run: NO NEW LOGS RUN.		CHASE	2522
		COUNCIL GROVE	2850
		HEEBNER	3972
		LANSING "A"	4066
		KANSAS CITY "A"	4514
		MARMATON	4670
		MORROW	5212
		CHESTER	5354
		ST. LOUIS	5556

BOTTOM HOLE SURVEY ATTACHED.

CASING RECORD							
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
EXTERNAL PRODUCTION LINER-NOT SLOTTED	4-3/4	3-1/2	9.3	4844-5552	CLASS H	75	.65% FL-52, .3% SM 3% SALT.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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
	OPEN HOLE: 5552-5585.	ACID: 1400 GAL 7-1/2% FeHCL.	5552-5585.
TUBING RECORD	Size 2/3/8 Set At 4779 Packer At	Liner Run 4844-5552' (EXTERNAL-NOT SLOTTED) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Date of First, Resumed Production, SWD or Inj. 2/19/97	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 135 Bbls.	Gas TSTM Mcf	Water 21 Bbls. Gas-Oil Ratio Gravity

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: 5552-5585'

15-081-21044-0003

ORIGINAL

ANADARKO PETROLEUM CORPORATION  
 RAY C-5, slot #1  
 HASKELL COUNTY, KANSAS

SURVEY LISTING Page 1  
 Your ref : Sidetrack #3 s#1796  
 Last revised : 17-Jan-97

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert Depth	RECTANGULAR COORDINATES	Dogleg Deg/100ft	Vert Sect	
5504.00	62.50	355.20	5398.48	229.38 N ✓	5.33 W ✓	9.10	228.97 Sidetrack #3 tie-in 5504 MD (KB)
5532.00	67.60	356.50	5410.29	254.69 N	7.16 W	18.69	254.35
5537.00	69.00	357.60	5412.13	259.33 N	7.40 W	34.67	258.99
5542.00	69.80	357.80	5413.89	264.01 N	7.59 W	16.43	263.66
5547.00	70.70	358.00	5415.58	268.71 N	7.76 W	18.39	268.36
5552.00	71.50	358.00	5417.20	273.44 N	7.93 W	16.00	273.09
5557.00	72.30	358.00	5418.76	278.19 N	8.09 W	16.00	277.83
5562.00	73.20	357.80	5420.24	282.96 N	8.27 W	18.40	282.60
5567.00	73.90	357.60	5421.65	287.75 N	8.46 W	14.52	287.39 Sidetrack #3 KOP 5570 MD (KB)
5572.00	74.50	357.50	5423.02	292.56 N	8.67 W	12.15	292.20
5575.00	74.80	357.20	5423.81	295.45 N	8.80 W	13.89	295.09
5585.00	74.80	357.20	5426.43	305.09 N	9.27 W	0.00	304.73 Projection to end of Sidetrack #3.

660                      510  
 965.09                    519.27  
965 FSL                519 FSL

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All data is in feet unless otherwise stated.  
 Coordinates from slot #1 (and TVD from rotary table).  
 Bottom hole distance is 305.23 on azimuth 358.26 degrees from wellhead.  
 Vertical section is from wellhead on azimuth 355.00 degrees.  
 Calculation uses the minimum curvature method.  
 Presented by Baker Hughes INTEQ



BJ Services Company

CEMENT JOB DETAIL SHEET

ORIGINAL

CUSTOMER <i>Andersko Production</i>	DATE <i>1-16-95</i>	F.P.# <i>423836</i>	SER. SUP. <i>B.G. Rebe</i>	TYPE JOB <i>Lease</i>
LEASE & WELL NAME-OCSG <i>Key C-5</i>	LOCATION <i>Sec. 21 - 29s - 34w</i>	COUNTY-PARISH-BLOCK <i>Haskell, Kansas</i>		
DISTRICT <i>Princeton</i>	DRILLING CONTRACTOR RIG.# <i>Big A Drilling</i>	OPERATOR <i>Andersko Production</i>		

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS	LIST-CSG-HARDWARE	SQ MANI FOLD	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES					
					SLURRY WGT PPG	SLURRY YLD FT <sup>3</sup>	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
<i>20 BBI Mud Clean II</i>	<i>B.O.T.</i>	<i>B.O.T.</i>							<i>20</i>	<i>20</i>
<i>20 BBI 2% KCl water</i>		<i>Cement Liner</i>							<i>20</i>	<i>20</i>
<i>75 SKS IDCC +.65% FL-52 +.3% S.M. +.3% Salt</i>					<i>14.9</i>	<i>1.15</i>	<i>4.7B</i>		<i>15.4</i>	<i>8.5</i>
Available Mix Water _____ Bbl. Available Displ. Fluid _____ Bbl.									TOTAL	<i>55.4</i> <i>48.5</i>

HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	SIZE	WGT.	TYPE	DEPTH	SIZE	WGT.	TYPE	SHOE	FLOAT	STAGE
<i>4 3/4"</i>			<i>2 3/8"</i>	<i>10.5"</i>	<i>H-90</i>	<i>3675'</i>	<i>3 1/2"</i>	<i>9.2#</i>		<i>668.7</i>	<i>5552'</i>	
				<i>HEAVY</i>	<i>-</i>	<i>1168'</i>						
LAST CASING			PKR-CMT RET-BR PL(LINER)			PERF. DEPTH		TOP CONN		WELL FLUID		
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE		TOP	BTM	SIZE	THREAD	TYPE	WGT.	
<i>5 1/2"</i>	<i>15.5#</i>		<i>5040'</i>	<i>Bakercoil Tools</i>			<i>4875</i>	<i>2"</i>	<i>1502</i>	<i>Mud</i>		
CAL. DISPL. VOL.-Bbl.			CAL. PSI		OP. MAX PSI		MAX TBG PSI		MAX CSG PSI		DISPL. FLUID	WATER SOURCE
<i>16.88</i>	<i>4.83</i>	<i>5.82</i>	<i>27.53</i>								<i>mud</i>	<i>Rig</i>

EXPLANATION: TROUBLE SETTING TOOL RUNNING CSG ETC. PRIOR TO CEMENTING:  
*Submer length 5511' + 4768' for Tools = 5558.2' + 629' for Slurries (5552.4')*

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR: MIN.	PRESSURE-PSI		RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input checked="" type="checkbox"/>	
	PIPE	ANNULUS				TEST LINES	3000 PSI
<i>0130</i>						<input checked="" type="checkbox"/> CIRCULATING WELL-RIG <input type="checkbox"/> WPS <input type="checkbox"/>	
<i>1000</i>						<i>Arrive on location - safety meeting - spot equipment</i>	
<i>1130</i>						<i>Log line to Rig - wait for Rig to Run lines</i>	
<i>1450</i>	<i>3000</i>					<i>Hook Rig to Circulate Lines</i>	
<i>1506</i>	<i>700</i>		<i>2.4</i>		<i>MCI</i>	<i>wait for wireline unit to Run Depth check</i>	
<i>1515</i>	<i>700</i>		<i>2.4</i>	<i>20</i>	<i>2%KCl</i>	<i>Line Test</i>	
<i>1523</i>	<i>500</i>		<i>1.8</i>	<i>12</i>	<i>2%KCl</i>	<i>Start mud Flush</i>	
<i>1538</i>	<i>1200</i>		<i>.4</i>	<i>15</i>	<i>2%KCl</i>	<i>Start KCl water</i>	
<i>1541</i>	<i>2000</i>		<i>.8</i>	<i>17</i>	<i>2%KCl</i>	<i>Stop Pump</i>	
<i>1543</i>	<i>2900</i>		<i>.8</i>	<i>19</i>	<i>2%KCl</i>	<i>SET ECP</i>	
<i>1549</i>	<i>400</i>		<i>2</i>		<i>IDCC</i>	<i>SET HANGER</i>	
<i>1558</i>	<i>100</i>		<i>1.6</i>	<i>15</i>	<i>IDCC</i>	<i>Open Tool</i>	
<i>1603</i>	<i>800</i>		<i>2.4</i>		<i>mud</i>	<i>Start cement</i>	
<i>1615</i>	<i>2000</i>		<i>2.4</i>	<i>27 1/2</i>	<i>mud</i>	<i>Drop Plug - start Displacement</i>	
<i>1616</i>						<i>Ramp Plug - latch - in</i>	
						<i>Test Plug - (Hold OK)</i>	
						<i>Final Pump Pressure before Plug Bump</i>	
						<i>400 PSI @ 2.4 RPM</i>	

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BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	TOTAL Bbl. PUMPED	Bbl. CMT RETURNS/ REVERSED	PSI LEFT ON CSG	SPOT TOP CEMENT	SER. SUP. <i>B.G. Rebe</i>
<i>(Y) N</i>	<i>2000</i>	<i>(Y) N</i>					CUSTOMER REP <i>D. Livingston</i>