

FORM MUST BE TYPED

CONFIDENTIAL

SIDE ONE 15-129-21446-00-00

ORIGINAL

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

City/State/Zip LIBERAL, KANSAS 67905-0351

Purchaser: NONE

Operator Contact Person: J. L. ASHTON

Phone (316) 624-6253

Contractor: Name: NORSEMAN DRILLING

License: 3779

Wellsite Geologist: N/A

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: **RELEASED**

Operator: _____

Well Name: **OCT 15 1998**

Comp. Date _____ Old Total Depth _____

FROM CONFIDENTIAL
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

8-28-96 9-7-96 9-7-96**
Spud Date Date Reached TD Completion Date
**DRY DEEP- TO BE COMPLETED AS HUGOTON INFILL

API NO. 15 _____
County MORTON
SE SE Sec. 16 Twp. 34 Rge. 41 E W

660 Feet from SX (circle one) Line of Section

660 Feet from EX (circle one) Line of Section

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

Lease Name WILBUR "A" Well # 2

Field Name WILBURTON

Producing Formation NONE

Elevation: Ground 3424.9 KB _____

Total Depth 5550 PBDT **

Amount of Surface Pipe Set and Cemented at 1482 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 D-4A, 10-5-98 UC
(Data must be collected from the Reserve Pit)

Chloride content 2800 ppm Fluid volume 700 bbls

Dewatering method used NATURAL EVAPORATION

Location of fluid disposal if hauled offsite:
12-5-96

Operator Name NUU

Lease Name DEC License No. _____

Quarter CONFIDENTIAL 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 David W. Kapple
Title DIVISION DRILLING ENGINEER Date 12/2/96

Subscribed and sworn to before me this 2nd day of December 1996.

Notary Public Freda L. Hinz
Date Commission Expires _____

FREDA L. HINZ
Notary Public - State of Kansas
My Appl. 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)

SIDE TWO

CONFIDENTIAL

Operator Name ANADARKO PETROLEUM CORPORATION

Lease Name

WILBUR "A"

Well #

2

Sec. 16 Twp. 34 Rge. 41

East West

County MORTON

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.)

Samples Sent to Geological Survey

Cores Taken

Electric Log Run (Submit Copy.)

List All E.Logs Run: DIL, ML, CNL-LDT, MSFL, CBL-GR.

DST REPORT ATTACHED.

Log Formation (Top), Depth and Datums Sample

Table with 3 columns: Name, Top, Datum. Rows include B/CIMARRON, WELLINGTON ANHY., HERINGTON, KRIDER, WINFIELD, TOWANDA, FT. RILEY, WABAUNSEE, MORROW, CHESTER.

CASING RECORD

New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Table with 8 columns: 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.

ADDITIONAL CEMENTING/SQUEEZE RECORD

Table with 5 columns: Purpose, Depth Top Bottom, Type of Cement, #Sacks Used, Type and Percent Additives.

Table with 3 columns: 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.

TUBING RECORD table with columns: Size, Set At, Packer At, Liner Run (Yes/No).

Table with 2 columns: Date of First, Resumed Production, SWD or Inj., Producing Method (Flowing, Pumping, Gas Lift, Other).

Table with 5 columns: Estimated Production Per 24 Hours, Oil Bbls., Gas Mcf, Water Bbls., Gas-Oil Ratio, Gravity.

Disposition of Gas: METHOD OF COMPLETION Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled

Other (Specify)

1100

CONFIDENTIAL

ORIGINAL

**NORSEMAN DRILLING, INC.
WICHITA, KANSAS
DRILLERS' WELL LOG**

15-129-21446

RELEASED

OCT 15 1998

FROM CONFIDENTIAL

**WELL NAME: WILBUR A-2
SECTION 16-34S-41W
MORTON COUNTY, KANSAS**

COMMENCED: August 26, 1996

COMPLETED: September 9, 1996

OPERATOR: ANADARKO PETROLEUM CORPORATION

Depth		Formation	Remarks
From	To		
0	1022	Sand & Redbed	Ran 36 jts of 23# of
1023	1216	Glorietta Sand	8 5/8" csg set @ 1493';
1217	3024	Redbed	w/270 SX Lead;
3025	5500	Lime & Shale	Tailed w/100 SX ; Plug down at 8:15 p.m. on 08/29/96.

Ran 58 jts 5 1/2" 15.5#, Set @ 2429'; w/170 SX . Midcon 2; 2%CC; 1/4# SX Flocele; Mixed w/12.8; Plug down 1:00 p.m. on 9/09/96; Rig Rel at 2:00 p.m. on 09/09/96.

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

NORSEMAN DRILLING, INC.

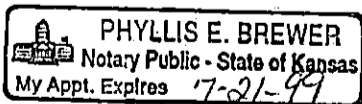
James P. Reilly
JAMES P. REILLY, PRESIDENT

Subscribed & sworn to before me this September 16, 1996

My Appointment Expires:

July 21, 1999

Phyllis E. Brewer
Phyllis E. Brewer, Notary Public
11817 Jamesburg
Wichita, KS 67212





HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

WELL DATA
LIBERAL, KS

BILLED ON TICKET NO.

KOL
106712

FIELD WILBURTON SEC 16 TWP 34S RNG 4/W COUNTY Morton STATE KS

FORMATION NAME 15-129-21446
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD. OIL _____ BPD WATER _____ BPD GAS _____
 PRESENT PROD. OIL _____ BPD WATER _____ BPD GAS _____
 COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC DATA _____ TOTAL DEPTH _____

CONFIDENTIAL

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	N	23	8 5/8	SURF	1492	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>INSERT</u>	1	()
FLOAT-SHOE <u>FILL-UP</u>	1	()
GUIDE SHOE	1	()
CENTRALIZERS	5	()
BOTTOM PLUG		
TOP PLUG		
HEAD <u>BASKET</u>	1	1000
PACKER <u>PLUG CONTAINER</u>	1	()
OTHER <u>WELD R</u>	1	()

MATERIALS
 TREAT. FLUID _____ DENSITY _____ LB/GAL. API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API
 PROP. TYPE _____ SIZE _____ LB
 PROP. TYPE _____ SIZE _____
 ACID TYPE _____ GAL
 ACID TYPE _____ GAL
 ACID TYPE _____ GAL
 SURFACTANT TYPE _____ GAL
 NE AGENT TYPE _____ GAL
 FLUID LOSS ADD. TYPE _____ GAL-LB. IN
 GELLING AGENT TYPE _____ GAL-LB. IN
 FRIC. RED. AGENT TYPE _____ GAL-LB. IN
 BREAKER TYPE _____ GAL-LB. IN
 BLOCKING AGENT TYPE _____ GAL-LB.
 PERFPAC BALLS TYPE _____ QTY.
 OTHER _____
 OTHER _____

RELEASED
OCT 15 1998
FROM CONFIDENTIAL

JOB DATA

CALLS OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>8-29-96</u> TIME <u>11:00</u>	DATE <u>8-29-96</u> TIME <u>15:40</u>	DATE _____ TIME _____	DATE _____ TIME _____

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION

DEPARTMENT CONCRETE
 DESCRIPTION OF JOB CEMENT 896 HEADUCION
CASING

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X OJ J. Luch
 HALLIBURTON OPERATOR R. PRITTON - 21054 COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	300	P.M.C.		B	370 CC 1/2" Max Hincele	3.22	11.1
2	100	P+		B	270 CC 1/2" Max Hincele	1.32	14.8

PRESSURES IN PSI _____ SUMMARY _____ VOLUMES _____

CIRCULATING _____ DISPLACEMENT _____ PRESURUSH: BBL-GAL _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL. BBL-GAL _____

SHUT-IN: INSTANT _____ 5-MIN _____ 15-MIN _____ CEMENT SLURRY (BBL-GAL) (1) 172 (2) 23.503

ORDERED _____ AVAILABLE _____ USED _____ TOTAL VOLUME: BBL-GAL _____ REMARKS _____

TREATING _____ DISPL. _____ CEMENT LEFT IN PIPE _____

FEET 40 35 REASON SHOC JOINT



JOB LOG HAL-2013-C

CUSTOMER: Kim Sucks WELL NO: 7 LEASE: WILBUR A JOB TYPE: 858 Surface TICKET NO: 106712

CHART NO.	TIME	RATE (BPM)	VOLUME (BBB)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	17:00							CALL OUT
	17:25							ON LOCATION ORIGINAL
	19:10							Set up Equip.
	19:15							SAFETY MEETINGS
	19:30							Rig Circulate
	19:45							Hookup to Discharge
	19:48	6	172		X		156	START 11.1# CHRT
	19:56	6	23.5		X		100	START 14.8#
	20:00				X			SHUT DOWN - Drop Plug
	20:07	6	91		X		31	START Displacement
	20:17	2	80		X			SLOW RATE 2 BPM 80 BBL GONE
	20:25	2			X		310	PS. Before Plug Landed
	20:26	2	91		X		600	LAND PLUG
	20:27							✓ FLOAT - FLOAT HELD
	20:30							DEFCSG
								DEC
								CONFIDENTIAL
								RELEASED
								OCT 15 1998
								FROM CONFIDENTIAL
								(SskS TO P.T) ✓
								THANKS!
								R. CO
								Rome



HALLIBURTON

JOB SUMMARY

HALLIBURTON DIVISION
HALLIBURTON LOCATION

Mid-Continent
Liberal, KS

BILLED ON TICKET NO.

KCC
106068

WELL DATA

FIELD _____ SEC 16 TWP 34 S RNG 41 W COUNTY MORTON STATE KS

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
 COMPLETION DATE _____ MUD TYPE _____ MUD WT _____
 PACKER TYPE _____ SET AT _____
 BOTTOM HOLE TEMP. _____ PRESSURE _____
 MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	<u>N</u>	<u>15.5</u>	<u>5 1/2</u>	<u>KB</u>	<u>2429</u>	
LINER						
TUBING						
OPEN HOLE						SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

ORIGINAL

JOB DATA

CALLLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
<u>9-9-96</u>	<u>9-9-96</u>	<u>7-9-96</u>	<u>9-9-96</u>
DATE	DATE	DATE	DATE
TIME <u>0500</u>	TIME <u>0800</u>	TIME	TIME

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		<u>H</u>
FLOAT SHOE <u>INSERT 5/2</u>	<u>1</u>	
GUIDE SHOE <u>REG 5/2</u>	<u>1</u>	<u>O</u>
CENTRALIZERS <u>S-4 5/2</u>	<u>10</u>	
BOTTOM PLUG		<u>W</u>
TOP PLUG <u>S-W 5/2</u>	<u>1</u>	
HEAD <u>PK 5/2</u>	<u>1</u>	<u>C</u>
PACKER		
OTHER		<u>O</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL. API
 DISPL. FLUID _____ DENSITY _____ LB/GAL. API
 PROP. TYPE _____ SIZE _____ LB.
 PROP. TYPE _____ SIZE _____ LB.
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 ACID TYPE _____ GAL. _____ %
 SURFACTANT TYPE _____ GAL. _____ IN
 NE AGENT TYPE _____ GAL. _____ IN
 FLUID LOSS ADD. TYPE _____ GAL.-LB. _____ IN
 GELLING AGENT TYPE _____ GAL.-LB. _____ IN
 FRIC. RED. AGENT TYPE _____ GAL.-LB. _____ IN
 BREAKER TYPE _____ GAL.-LB. _____ IN
 BLOCKING AGENT TYPE _____ GAL.-LB. _____
 PERFPAC BALLS TYPE _____ QTY. _____
 OTHER _____
 OTHER _____

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PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>AR Standridge</u>	<u>94453</u>	<u>Duncan</u>
	<u>70722</u>	<u>OK</u>
<u>J. Woodrow</u>	<u>53554</u>	<u>Liberal</u>
	<u>62573</u>	<u>KS</u>
<u>Stan Telford</u>		<u>Hugoton</u>
	<u>H4817</u>	<u>KS</u>
	<u>BULK</u>	

DEC
CONFIDENTIAL

DEPARTMENT CEMENT

DESCRIPTION OF JOB CEMENT SB PRODUCTION CASING

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X O G Stuck
 HALLIBURTON OPERATOR ORSHALL
 COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>170</u>	<u>Pt midcon</u>	<u>SOUTHWEST</u>	<u>B</u>	<u>2% CC 1/2 flocc</u>	<u>2.01</u>	<u>12.8</u>
	<u>25</u>	<u>Premium</u>		<u>B</u>	<u>NCAT (RAI Holo)</u>		

PRESSURES IN PSI

CIRCULATING _____ DISPLACEMENT _____
 BREAKDOWN _____ MAXIMUM _____
 AVERAGE _____ FRACTURE GRADIENT _____
 SHUT-IN: INSTANT _____ S-MIN _____ 15-MIN. _____
 HYDRAULIC HORSEPOWER _____
 ORDERED _____ AVAILABLE _____ USED _____
 AVERAGE RATES IN BPM _____
 TREATING _____ DISPL. _____ OVERALL _____
 CEMENT LEFT IN PIPE _____
 FEET 42.62 REASON SHO JOINT

SUMMARY

VOLUMES

PRESLUSH: BBL-GAL. 12 TYPE SUPER FLUSH
 LOAD & BKDN: BBL-GAL. _____ PAD: BBL-GAL. _____
 TREATMENT: BBL-GAL. _____ DISPL: BBL-GAL. 50.8
 CEMENT SLURRY: BBL-GAL. 60.8
 TOTAL VOLUME: BBL-GAL. _____

REMARKS

FIELD OFFICE

CUSTOMER: ALPARKO
LEASE: WLLPBR
WELL NO: 21-8
JOB TYPE: 5 1/2 LOGS STEEL



JOB LOG HAL-2013-C

CUSTOMER ANADARKO	WELL NO. A-2	LEASE Wilbur	JOB TYPE 5 1/2 Longstring	TICKET NO. 106008
----------------------	-----------------	-----------------	------------------------------	----------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

	08:00							CALL OUT
	08:30							ON Location
	09:15							Safety mtg. ORIGINAL
	09:30							Run Float Equipment
	11:40							MIX 10 BBLs Superflush
	12:15	2	8			50		pump 8 BBL water Ahead Flush
	12:18	2	10			50		pump 10 BBLs Superflush
	12:24	2	8			50		pump 8 BBLs water Ahead cont.
	12:32	6	61			75		mix: pump 170 SKs Midcon Cmt. w/2% C.C., 1/4" / 5k. Floccle @ 12.8%, 2.01 yield, 11.6 gpm.
	12:41							Shut down, wash pump, Lines drop Top Plug
	12:46	8	57			350		pump 56.8 BBLs displacement
	12:55					1200		Bump Plug - Float Held
	13:00							Rig down

12:27 (mix: pump 25 SKs ^{Premium} Cmt. 4/Rat. mouse hole
2 BBL Slurry mouse - 3 BBLs Slurry Rat.)

CONFIDENTIAL
DEC 2 1996

Thanks
Porky, Wendy, STAN

RELEASED
OCT 15 1998
FROM CONFIDENTIAL

REC'D - 5 A.M. 11/7
TRANSACTS
REC'D - 11/7

CONFIDENTIAL

ORIGINAL

ANADARKO PETROLEUM CORPORATION	
LEASE :	WILBUR
WELL NO. :	A-2
TEST NO. :	1

15-129-21446
K.W.
DEC 2
CONFIDENTIAL

TICKET NO. 10664200
11-SEP-96
LIBERAL

RELEASED
OCT 15 1998
FROM CONFIDENTIAL

WILBUR
LEASE NAME
MORTON
COUNTY
KANSAS
STATE

FIELD AREA

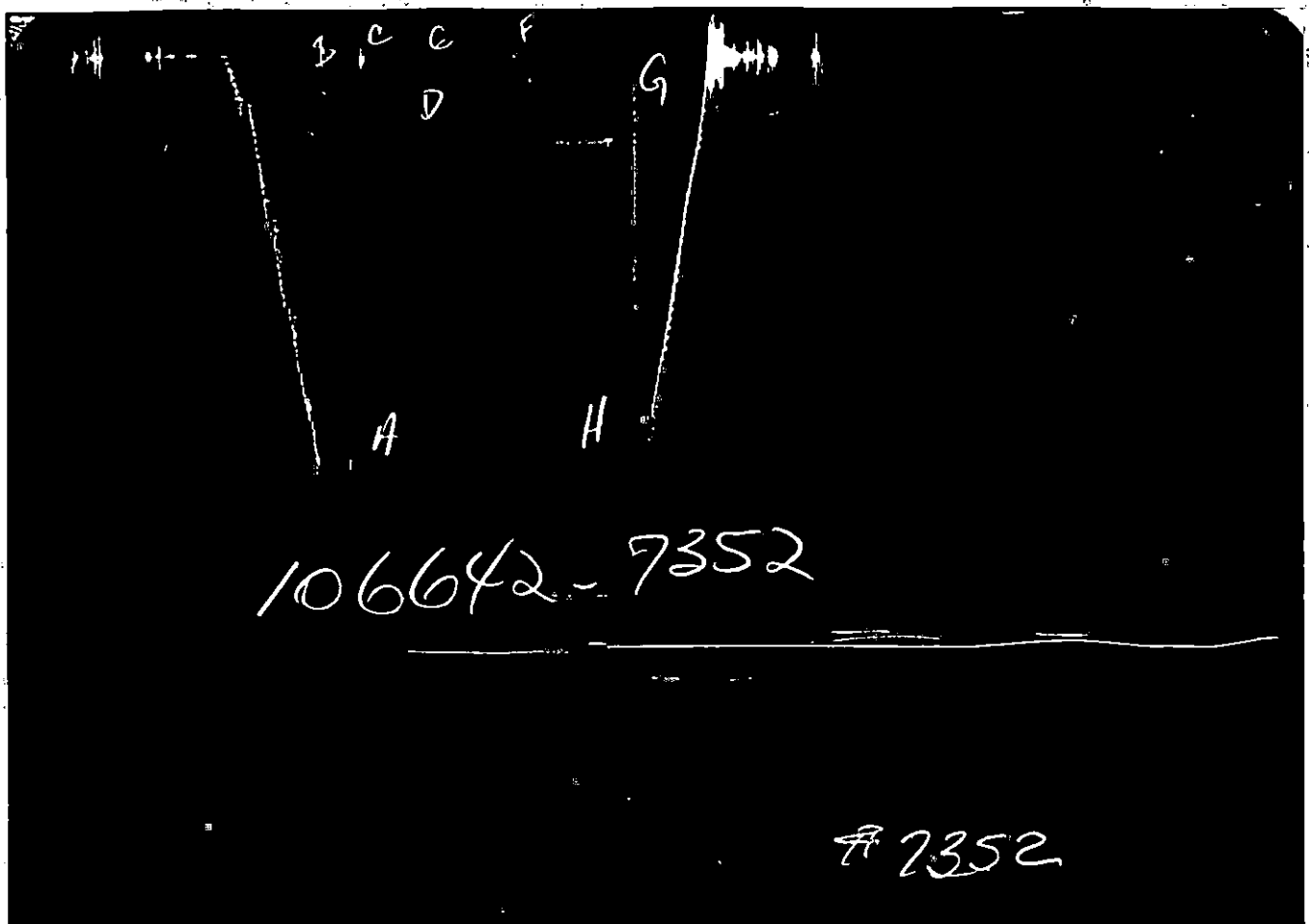
TEST NO. 1

WELL NO. B-2

5070.2 - 5080.0
TESTED INTERVAL

ANADARKO PETROLEUM CORPORATION
LEASE OWNER/COMPANY NAME

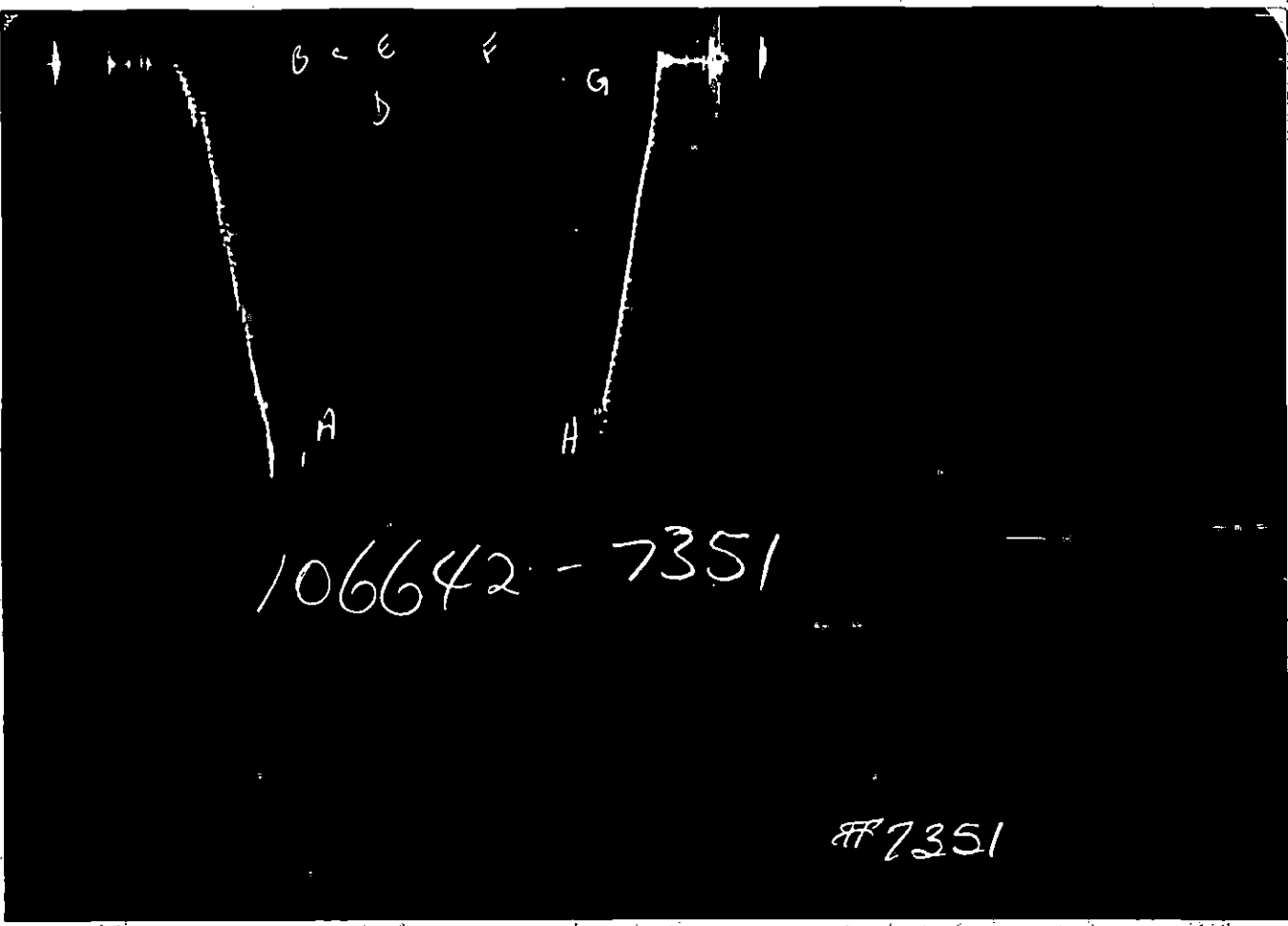
LEAS. LOCATION
SEC. - TWP. - RANG.



7352

GAUGE NO: 7352 DEPTH: 5049.5 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2557	2419.3			
B	INITIAL FIRST FLOW	31	10.5			
C	FINAL FIRST FLOW	31	13.6	30.0	30.0	F
C	INITIAL FIRST CLOSED-IN	31	13.6			
D	FINAL FIRST CLOSED-IN	93	99.2	60.0	60.0	C
E	INITIAL SECOND FLOW	31	23.9			
F	FINAL SECOND FLOW	31	25.8	120.0	120.0	F
F	INITIAL SECOND CLOSED-IN	31	25.8			
G	FINAL SECOND CLOSED-IN	124	130.0	120.0	120.0	C
H	FINAL HYDROSTATIC	2494	2411.6			



106642-7351

#7351

GAUGE NO: 7351 DEPTH: 5076.9 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	2628	2435.7			
B	INITIAL FIRST FLOW	32	35.4			
C	FINAL FIRST FLOW	64	31.5	30.0	30.0	F
C	INITIAL FIRST CLOSED-IN	64	31.5			
D	FINAL FIRST CLOSED-IN	96	109.8	60.0	60.0	C
E	INITIAL SECOND FLOW	32	29.9			
F	FINAL SECOND FLOW	32	33.0	120.0	120.0	F
F	INITIAL SECOND CLOSED-IN	32	33.0			
G	FINAL SECOND CLOSED-IN	128	136.8	120.0	120.0	C
H	FINAL HYDROSTATIC	2563	2423.7			

EQUIPMENT & HOLE DATA

FORMATION TESTED: MORROW

NET PAY (ft): _____

GROSS TESTED FOOTAGE: 9.8 PACKER TO T.D.

ALL DEPTHS MEASURED FROM: G.L.

CASING PERFS. (ft): _____

HOLE OR CASING SIZE (in): 7.875

ELEVATION (ft): 3430.0 AT GROUND LEVEL

TOTAL DEPTH (ft): 5080.0

PACKER DEPTH(S) (ft): 5064, 5070

FINAL SURFACE CHOKE (in): 0.25000 (B. HOSE)

BOTTOM HOLE CHOKE (in): 0.750

MUD WEIGHT (lb/gal): 9.10

MUD VISCOSITY (sec): 49

ESTIMATED HOLE TEMP. (°F): _____

ACTUAL HOLE TEMP. (°F): e ft

TICKET NUMBER: 10664200

DATE: 09-05-96 TEST NO: 1

TYPE DST: OPEN HOLE

FIELD CAMP: LIBERAL

TESTER: M. KELLY

WITNESS: D.J. STUCK

DRILLING CONTRACTOR: NORSEMAN RIG #1

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>PIT</u>	<u>1.950 @ 78 °F</u>	<u>4178 ppm</u>
<u>RECOVERY</u>	<u>1.970 @ 80 °F</u>	<u>10862 ppm</u>
<u>SAMPLER</u>	<u>1.970 @ 80 °F</u>	<u>10862 ppm</u>
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

P_{sig} AT SURFACE: 33.0

cu.ft. OF GAS: 0.006

cc OF OIL: _____

cc OF WATER: _____

cc OF MUD: 1950.0

TOTAL LIQUID cc: 1950.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F

GAS/OIL RATIO (cu.ft. per bbl): _____

GAS GRAVITY: _____

CUSHION DATA

TYPE	AMOUNT	WEIGHT
_____	_____	_____
_____	_____	_____



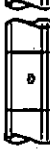












RECOVERED: _____

10 FT OF DRILLING MUD

MEASURED FROM TESTER VALVE

REMARKS:

CHARTS INDICATE PARTIAL PLUGGING OF THE ANCHOR PERFORATIONS DURING THE FIRST FLOW PERIOD ONLY.

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.500	3.826	4380.1	
3		DRILL COLLARS.....	6.000	2.250	556.7	
50		IMPACT REVERSING SUB.....	6.000	3.000	1.0	4937.3
3		DRILL COLLARS.....	6.000	2.250	93.3	
5		CROSSOVER.....	6.000	3.000	1.0	
11		HANDLING SUB & CHOKE ASSEMBLY...	5.000	3.860	4.7	
13		DUAL CIP SAMPLER.....	5.000	0.750	6.6	
60		HYDROSPRING TESTER.....	5.000	0.750	5.0	5047.4
80		RP RUNNING CASE.....	5.000	2.250	4.1	5049.5
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	2.8	
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	5064.4
70		OPEN HOLE PACKER.....	6.750	1.530	5.8	5070.2
20		FLUSH JOINT ANCHOR.....	5.000	2.370	4.0	
81		BLANKED-OFF RUNNING CASE.....	5.000		4.1	5076.9
TOTAL DEPTH						5080.0