

PLEASE INFORM YOU THAT WE HAVE COMPLETED  
 A PORTION OF THE ACO-1. PLEASE COMPLETE  
 FORM AND MAIL TO THE STATE CORPORATION  
 COMMISSION.

IDE ONE

083-21,306-0000

**Amended**  
**OIL & GAS CONSERVATION DIVISION**  
**WELL COMPLETION OR RECOMPLETION FORM**  
**ACO-1 WELL HISTORY**  
**DESCRIPTION OF WELL AND LEASE**

Operator: License # 3721  
 Name AOP Operating Corporation  
 Address 1999 Bryan Street, Suite 3330  
 City/State/Zip Dallas, TX 75201

Purchaser.....

Operator Contact Person Mr. George Ricks, Jr.  
 Phone 214-754-0789

Contractor: License # 5107  
 Name H-30 Drilling, Inc.

Wellsite Geologist.....  
 Phone.....

Designate Type of Completion  
 New Well     Re-Entry     Workover  
 Oil     SWD     Temp Abd  
 Gas     Inj     Delayed Comp.  
 Dry     Other (Core, Water Supply etc.)

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

**WELL HISTORY**

Drilling Method:  
 Mud Rotary     Air Rotary     Cable  
4-11-88    4-18-88    4-18-88  
 Spud Date    Date Reached TD    Completion Date  
4554'  
 Total Depth    PBD

Amount of Surface Pipe Set and Cemented at 226 feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set.....feet  
 If alternate 2 completion, cement circulated  
 from.....feet depth to.....w/.....SX cmt  
 Cement Company Name .....  
 Invoice # .....

*AIT II D+A*

API No. 15-.....  
 County Hodgeman  
 SE SE NW Sec. 20 Twp. 21S Rge. 22 East  
 ..... West

2970 Ft North from Southeast Corner of Section  
2970 Ft West from Southeast Corner of Section  
 (Note: Locate well in section plat below)

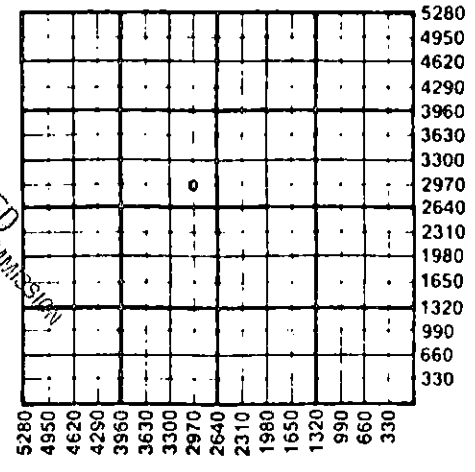
Lease Name Todd Well # 1

Field Name.....

Producing Formation.....

Elevation: Ground 2306 KB 2311

Section Plat



RECEIVED  
 JUL 25 1988  
 STATE CORPORATION COMMISSION  
 CONSERVATION DIVISION  
 Wichita, Kansas

**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) Purchased from landowner's small pond  
 (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 Sharon Figueroa

Title Production Administrator Date 7/22/88

Subscribed and sworn to before me this 22 day of July 1988

Notary Public Joanne Kopczyński

Date Commission Expires.....



JOANNE KOPCZYNSKI  
 Notary Public-State of Texas  
 My Comm. Expires April 30, 1989

**K.C.C. OFFICE USE ONLY**

F  Letter of Confidentiality Attached  
 C  Wireline Log Received  
 C  Drillers Time Log Received

**Distribution**

KCC     SWD/Rep     NGPA  
 KGS     Plug     Other  
 (Specify)

7-25-88 X

Form ACO-1 (5-86)

Section 21, Rge. 22

Operator Name AOP Operating Corporation Lease Name Todd Well # 1

Sec. 20 Twp. 21S Rge. 22  East  West County Hodgeman

WELL LOG

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  Yes  No  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

Formation Description  
 Log  Sample

Drill Stem Tests: See Western Testers  
 Formation Test enclosed

Formation Tops: Anhy. 1495'  
 Topeka 3715'  
 Heebner Sh. 3828'  
 Lans.-K.C. 3882'  
 B/K.C. 4209'  
 Marmaton 4244'  
 Pawnee 4328'  
 Ft. Scott 4398'  
 Cherokee 4420'  
 Miss. Warsaw 4482'  
 Miss. Osage 4496'

Name	Top	Bottom
Sand and Shale	0	80'
Shale, Shells and Sand	80'	227'
Sand and Shale	227'	900'
Sand, Shale and Lime	900'	1,553'
Shale and Lime	1,553'	2,020'
Lime and Shale	2,020'	4,534'
Lime	4,534'	4,554'
Rotary Total Depth		4,554'

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 STATE CORPORATION COMMISSION  
 CONSERVATION DIVISION  
 Wichita, Kansas

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"	23#	226'	60/40 Poz	140	3% cc. 2% 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
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Size	Set At	Packer at					
Date of First Production		Producing Method					
		<input 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		
	Bbls	MCF	Bbls	CFPB			

METHOD OF COMPLETION Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) .....  
 Used on Lease  Dually Completed .....  
 Conmingled .....

# FORMATION TEST REPORT

RECEIVED  
STATE CORPORATION COMMISSION

AUG 26 1988

CONSERVATION DIVISION  
Wichita, Kansas



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

RECOVERED : 1340 FT OF: WATER

CHLORIDES: 23000 PPM

Total Barrels Fluid = 18.80  
Total Fluid Prod Rate = 451.09 BFPD  
Indicated Wtr Rate = 451.09 BWPD

REMARK 1 :  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) :	7:30 AM	TIME STARTED OFF BOTTOM :	10:15 AM
WELL TEMPERATURE :	134		
INITIAL HYDROSTATIC PRESSURE		(A)	2336
INITIAL FLOW PERIOD MIN:	30	(B)	110 PSI TO (C) : 310
INITIAL CLOSED IN PERIOD MIN:	48	(D)	1358
FINAL FLOW PERIOD MIN:	30	(E)	402 PSI TO (F) : 571
FINAL CLOSED IN PERIOD MIN:	63	(G)	1361
FINAL HYDROSTATIC PRESSURE		(H)	2309

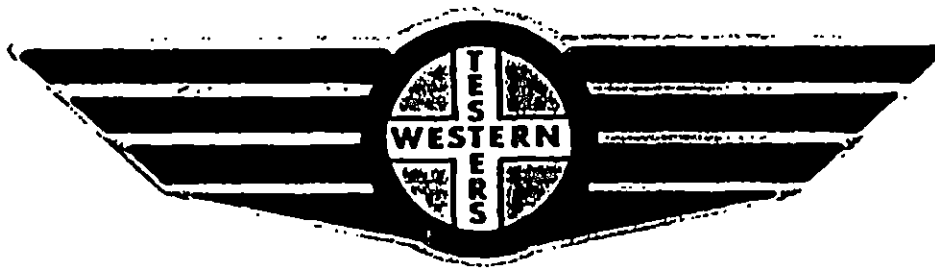
COMPANY : AOP OPERATING CORP.  
WELL : #1  
GAUGE # : 13540  
DATE : 17/ 4/88

FIELD : TODD  
JOB # : 13731  
DEPTH : 4524  
TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P $P_i - P_{(i-1)}$
1	7:30:0	0.000	110.000	134.00	0.000
2	7:34:59	0.083	122.000	134.00	12.000
3	7:40:0	0.167	156.000	134.00	34.000
4	7:45:0	0.250	200.000	134.00	44.000
5	7:49:59	0.333	248.000	134.00	48.000
6	7:55:0	0.417	288.000	134.00	40.000
7	8:0:0	0.500	310.000	134.00	22.000
8	8:3:0	0.550	1083.000	134.00	773.000
9	8:6:0	0.600	1217.000	134.00	134.000
10	8:9:0	0.650	1253.000	134.00	36.000
11	8:12:0	0.700	1276.000	134.00	23.000
12	8:15:0	0.750	1292.000	134.00	16.000
13	8:18:0	0.800	1304.000	134.00	12.000
14	8:21:0	0.850	1314.000	134.00	10.000
15	8:24:0	0.900	1324.000	134.00	10.000
16	8:27:0	0.950	1330.000	134.00	6.000
17	8:30:0	1.000	1335.000	134.00	5.000
18	8:33:0	1.050	1340.000	134.00	5.000
19	8:36:0	1.100	1344.000	134.00	4.000
20	8:39:0	1.150	1349.000	134.00	5.000
21	8:42:0	1.200	1352.000	134.00	3.000
22	8:45:0	1.250	1356.000	134.00	4.000
23	8:48:0	1.300	1358.000	134.00	2.000
24	8:49:0	1.317	402.000	134.00	-956.000
25	8:52:59	1.383	410.000	134.00	8.000
26	8:58:0	1.467	435.000	134.00	25.000
27	9:3:0	1.550	476.000	134.00	41.000
28	9:7:59	1.633	516.000	134.00	40.000
29	9:13:0	1.717	552.000	134.00	36.000
30	9:18:0	1.800	571.000	134.00	19.000
31	9:21:0	1.850	1054.000	134.00	483.000
32	9:24:0	1.900	1227.000	134.00	173.000
33	9:27:0	1.950	1254.000	134.00	27.000
34	9:30:0	2.000	1274.000	134.00	20.000
35	9:33:0	2.050	1287.000	134.00	13.000
36	9:36:0	2.100	1297.000	134.00	10.000
37	9:38:59	2.150	1307.000	134.00	10.000
38	9:42:0	2.200	1315.000	134.00	8.000
39	9:45:0	2.250	1320.000	134.00	5.000
40	9:48:0	2.300	1327.000	134.00	7.000
41	9:51:0	2.350	1332.000	134.00	5.000
42	9:54:0	2.400	1337.000	134.00	5.000
43	9:56:59	2.450	1340.000	134.00	3.000
44	10:0:0	2.500	1344.000	134.00	4.000
45	10:3:0	2.550	1347.000	134.00	3.000
46	10:6:0	2.600	1349.000	134.00	2.000
47	10:9:0	2.650	1351.000	134.00	2.000
48	10:11:59	2.700	1354.000	134.00	3.000
49	10:15:0	2.750	1357.000	134.00	3.000
50	10:18:0	2.800	1359.000	134.00	2.000
51	10:21:0	2.850	1361.000	134.00	2.000

WESTERN TESTING CO. INC.

# FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

COMPANY AOP OPERATING CORPORATION LEASE & WELL NO. TODD #1 SEC. 20 TWP. 21S RGE. 22W TEST NO. 2 DATE 4/18/88

WESTERN TESTING CO. INC.  
SUBSURFACE PRESSURE SURVEY

DATE	: 4-18-88	TICKET	: 13732
CUSTOMER	: AOP OPERATING CORP.	LEASE	: TODD
WELL	: #1 TEST: 2	GEOLOGIST	: B. MAY
ELEVATION	: 2305 GL	FORMATION	: MISSISSIPPI
SECTION	: 20	TOWNSHIP	: 21S
RANGE	: 22W	COUNTY	: HODGEMAN
GAUGE SN#	: 13549	RANGE	: 4100
		STATE	: KANSAS
		CLOCK	: 12

INTERVAL FROM : 4439 TO : 4500 TOTAL DEPTH : 4554

DEPTH OF SELECTIVE ZONE	:		:	
PACKER DEPTH	:	4434	SIZE	: 6.63
PACKER DEPTH	:	4439	SIZE	: 6.63
PACKER DEPTH	:	4500	SIZE	: 6.63
PACKER DEPTH	:	4505	SIZE	: 6.63

DRILLING CON.	:	H-30 RIG 7		
MUD TYPE	:	CHEMICAL	VISCOSITY	: 47
WEIGHT	:	9.4	WATER LOSS (CC)	: 9.2
CHLORIDES (PPM)	:	14000		
JARS-MAKE	:	-	SERIAL NUMBER	: -
DID WELL FLOW ?	:	-	REVERSED OUT ?	: -

DRILL COLLAR LENGTH	:	0	FT	I.D. inch	:	0.00
WEIGHT PIPE LENGTH	:	0	FT	I.D. inch	:	0.00
DRILL PIPE LENGTH	:	4411	FT	I.D. inch	:	3.80
TEST TOOL LENGTH	:	28	FT	TOOL SIZE	:	5.50
ANCHOR LENGTH	:	61	FT	ANCHOR SIZE	:	5.50
SURFACE CHOKE SIZE	:	.75	IN	BOTTOM CHOKE SIZE	:	.75
MAIN HOLE SIZE	:	7.875	IN	TOOL JOINT SIZE	:	4.5 XH

BLOW COMMENT #1 : INITIAL FLOW-WEAK BLOW THROUGHOUT.  
 BLOW COMMENT #2 : FINAL FLOW-NO BLOW.  
 BLOW COMMENT #3 :  
 BLOW COMMENT #4 :

RECOVERED : 5 FT OF: MUD / WITH OIL SPECKS

Total Barrels Fluid = 0.07  
Total Fluid Prod Rate = 1.68 BFPD  
Indicated Wtr Rate = 0.17 BWPO

REMARK 1 :  
REMARK 2 :  
REMARK 3 :  
REMARK 4 :

SET PACKER(S) : 4:40 AM

TIME STARTED OFF BOTTOM : 7:25 AM

WELL TEMPERATURE : 134

INITIAL HYDROSTATIC PRESSURE

(A) 2329

INITIAL FLOW PERIOD MIN: 30

(B) 70 PSI TO (C) : 70

INITIAL CLOSED IN PERIOD MIN: 51

(D) 818

FINAL FLOW PERIOD MIN: 30

(E) 71 PSI TO (F) : 71

FINAL CLOSED IN PERIOD MIN: 60

(G) 640

FINAL HYDROSTATIC PRESSURE

(H) 2305



WESTERN TESTING CO. INC.  
WICHITA-KANSAS

Pressure Transient Report

COMPANY : AOP OPERATING CORP.  
RIG : HODGEMAN-KANSAS  
FIELD : TODD  
WELL : #1  
DATE : 4-18-88  
GAUGE NO : 13549

OPERATIONAL COMMENTS

COMPANY : AOP OPERATING CORP.

WELL : #1

GAUGE # : 13549

DATE : 18/ 4/88

FIELD : TODD

JOB # : 13732

DEPTH : 4554

TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
1	4:40:0	0.000	70.000	134.00	0.000
2	4:44:59	0.083	70.000	134.00	0.000
3	4:50:0	0.167	70.000	134.00	0.000
4	4:55:0	0.250	70.000	134.00	0.000
5	4:59:59	0.333	70.000	134.00	0.000
6	5:05:0	0.417	70.000	134.00	0.000
7	5:10:0	0.500	70.000	134.00	0.000
8	5:13:0	0.550	82.000	134.00	12.000
9	5:16:0	0.600	117.000	134.00	35.000
10	5:19:0	0.650	170.000	134.00	53.000
11	5:22:0	0.700	229.000	134.00	59.000
12	5:25:0	0.750	290.000	134.00	61.000
13	5:28:0	0.800	350.000	134.00	60.000
14	5:31:0	0.850	415.000	134.00	65.000
15	5:34:0	0.900	472.000	134.00	57.000
16	5:37:0	0.950	523.000	134.00	51.000
17	5:40:0	1.000	568.000	134.00	45.000
18	5:43:0	1.050	612.000	134.00	44.000
19	5:46:0	1.100	648.000	134.00	36.000
20	5:49:0	1.150	693.000	134.00	45.000
21	5:52:0	1.200	725.000	134.00	32.000
22	5:55:0	1.250	756.000	134.00	31.000
23	5:58:0	1.300	785.000	134.00	29.000
24	6:01:0	1.350	818.000	134.00	33.000
25	6:02:0	1.367	71.000	134.00	-747.000
26	6:05:59	1.433	71.000	134.00	0.000
27	6:11:0	1.517	71.000	134.00	0.000
28	6:16:0	1.600	71.000	134.00	0.000
29	6:20:59	1.683	71.000	134.00	0.000
30	6:26:0	1.767	71.000	134.00	0.000
31	6:31:0	1.850	71.000	134.00	0.000
32	6:34:0	1.900	77.000	134.00	6.000
33	6:37:0	1.950	83.000	134.00	6.000
34	6:40:0	2.000	112.000	134.00	29.000
35	6:43:0	2.050	145.000	134.00	33.000
36	6:46:0	2.100	181.000	134.00	36.000
37	6:49:0	2.150	224.000	134.00	43.000
38	6:52:0	2.200	264.000	134.00	40.000
39	6:55:0	2.250	302.000	134.00	38.000
40	6:58:0	2.300	340.000	134.00	38.000
41	7:01:0	2.350	375.000	134.00	35.000
42	7:04:0	2.400	407.000	134.00	32.000
43	7:07:0	2.450	440.000	134.00	33.000
44	7:10:0	2.500	467.000	134.00	27.000
45	7:13:0	2.550	500.000	134.00	33.000
46	7:16:0	2.600	522.000	134.00	22.000
47	7:19:0	2.650	542.000	134.00	20.000
48	7:22:0	2.700	572.000	134.00	30.000
49	7:25:0	2.750	594.000	134.00	22.000
50	7:28:0	2.800	620.000	134.00	26.000
51	7:31:0	2.850	640.000	134.00	20.000

WESTERN TESTING CO. INC.