

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- 097-21-311-0000

County Kiowa

C NE NE Sec. 21 Twp. 28 Rge. 17 X East West

Operator: License # Advantage #6926, Schulein #6785 4620 Ft. North from Southeast Corner of Section

Name: Advantage Resources, Inc., and Schulein Company

660 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Address 1775 Sherman Street #1375

Lease Name Ronald Ross Well # 1

City/State/Zip Denver, CO 80203

Field Name unnamed

Purchaser: _____

Producing Formation _____

Operator Contact Person: Edward J. Ackman

Elevation: Ground 2205 KB 2214

Phone (303) 831-1912

Total Depth 4896 PBDT _____

Contractor: Name: Sterling Drilling Company RECEIVED

License: 5142 STATE CORPORATION COMMISSION

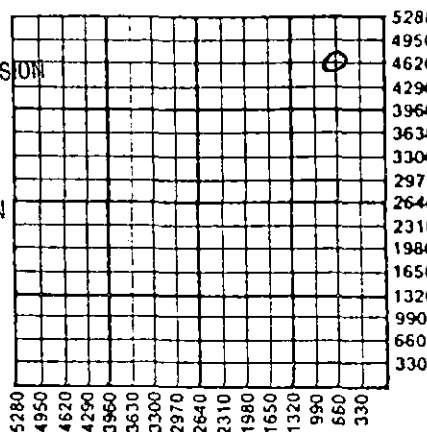
Wellsite Geologist: Ed Ackman, Roger Welty JUL 02 1991

Designate Type of Completion

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

CONSERVATION DIVISION
Wichita, Kansas

7-2-91



AITI DVA

If OWO: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Amount of Surface Pipe Set and Cemented at 397 KB Feet

Multiple Stage Cementing Collar Used? _____ Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 397 KB

feet depth to Surface w/ 200 sx cmt.

Drilling Method: _____ Mud Rotary _____ Air Rotary _____ Cable

4/26/91 5/2/91 5/3/91

Spud Date Date Reached TD Completion Date

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.

ADVANTAGE RESOURCES, INC.

Signature By: Louis C. Bortz

Title Vice President Date 6/28/91

Subscribed and sworn to before me this 28th day of June, 1991.

Notary Public Bonnie Murphy

Date Commission Expires 7-24-91

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)

Advantage Resources, Inc.,

SIDE TWO

Operator Name and Schulein Company

Lease Name Ronald Ross

Well # 1

Sec. 21 Twp. 285 Rge. 17

East

County Kiowa

West

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
(Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy.)

1 DST - See attached

Formation Description		
	<input checked="" type="checkbox"/> Log	<input type="checkbox"/> Sample
Name	Top	Bottom
Anhydrite	1105	+1092
Heebner	4048	-1851
Lansing	4227	-2030
Base K.C.	4604	-2407
Mississippian	4786	-2589
Kinderhook Shale	4812	-2615

Sample log attached

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	397 KB	60/40 Poz	200	2% gel 3% CCL

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 Size Set At Packer At Liner Run Yes No

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 Bbls.	Gas Mcf	Water 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 _____

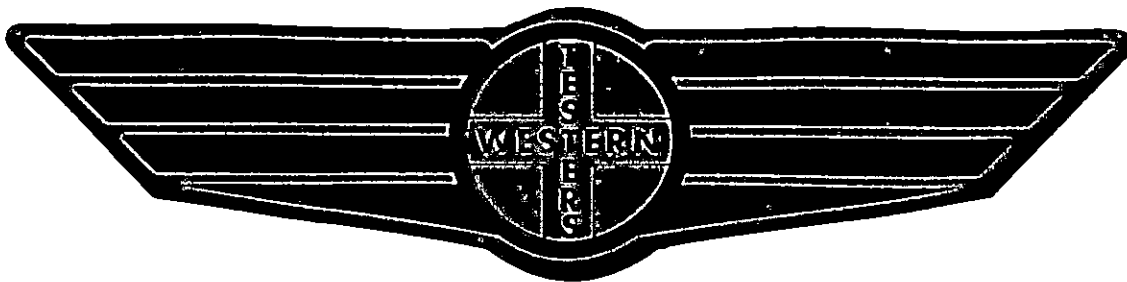
ORIGINAL

FORMATION TEST REPORT

RECEIVED
STATE CONSERVATION COMMISSION

JUL 02 1991

CONSERVATION DIVISION
Wichita, Kansas



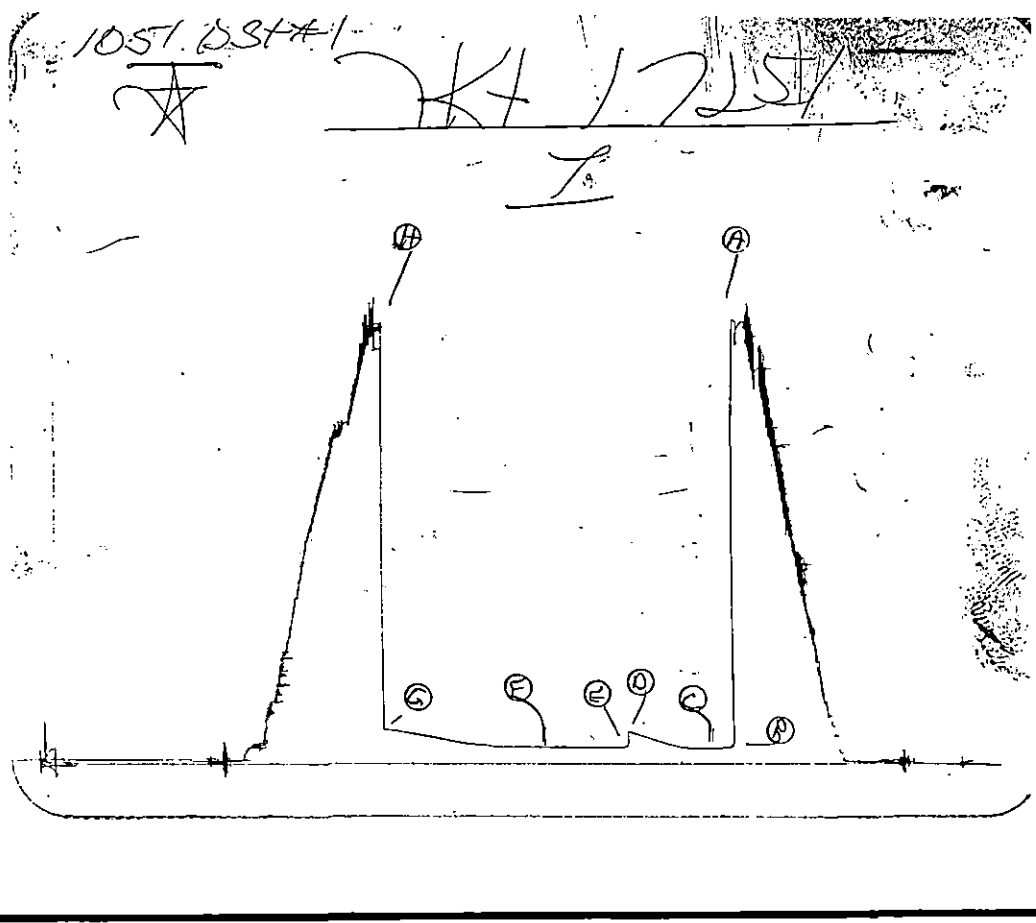
Home Office:

Wichita, Kansas 67201

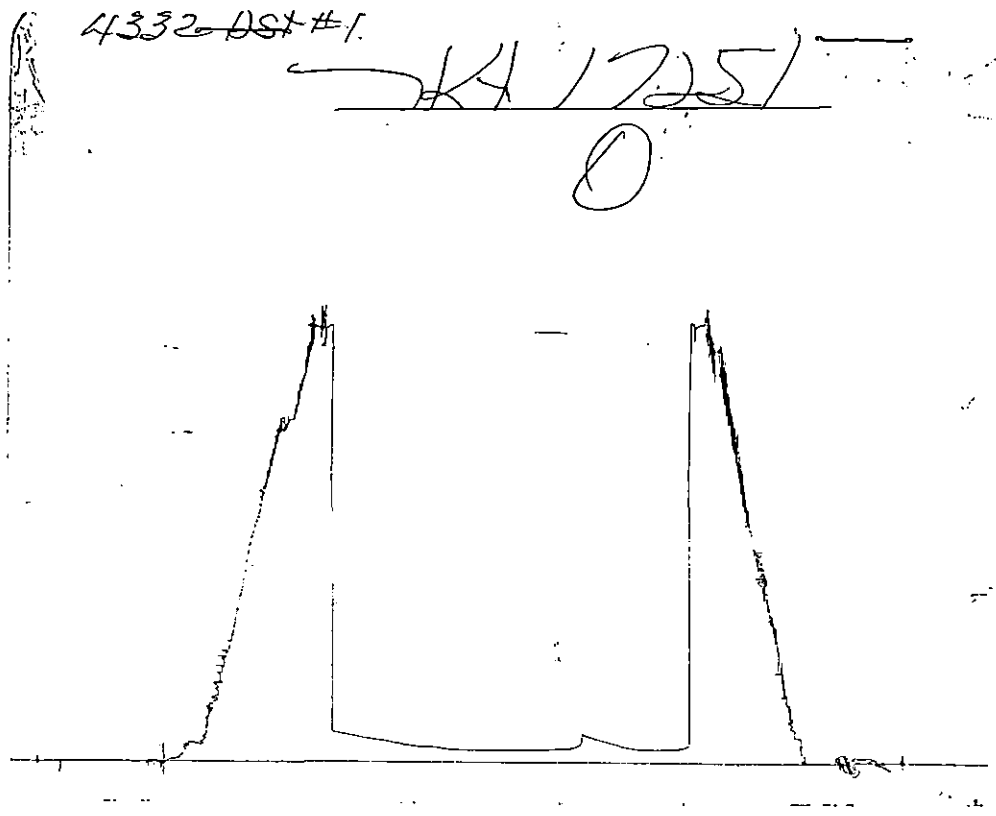
P.O. Box 1599

Phone 1 - 800 - 688 - 7021

COMPANY ADVANTAGE RESOURCES, INC. LEASE & WELL NO. RONALD ROSS #1 SEC. 21 TWP. 28S RGE. 17W TEST NO. 1 DATE 5-1-91



Inside Recorder



Outside Recorder

ORIGINAL

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE : 5-1-91 TICKET : 17251
CUSTOMER : ADVANTAGE RESOURCES INC. LEASE : RONALD ROSS
WELL : 1 TEST: 1 GEOLOGIST : R. WELTY
ELEVATION : 2214 KB FORMATION : MISSISSIPPIAN
SECTION : 21 TOWNSHIP : 28S
RANGE : 17W COUNTY : KIOWA STATE : KANSAS
GAUGE SN# : 1051 RANGE : 4250 CLOCK : 12

INTERVAL FROM : 4790 TO : 4825 TOTAL DEPTH : 4825
DEPTH OF SELECTIVE ZONE :
PACKER DEPTH : 4785 SIZE : 6.63
PACKER DEPTH : 4790 SIZE : 6.63
PACKER DEPTH : SIZE :
PACKER DEPTH : SIZE :

DRILLING CON. : STERLING DRILLING CO.
MUD TYPE : CHEMICAL VISCOSITY : 45
WEIGHT : 9.4 WATER LOSS (CC) : 10.4
CHLORIDES (PPM) : 6000
JARS-MAKE : W.T.C. SERIAL NUMBER : 404
DID WELL FLOW ? : NO REVERSED OUT ? : NO

DRILL COLLAR LENGTH : 427 FT I.D. inch : 2.50
WEIGHT PIPE LENGTH : 0 FT I.D. inch : 0.00
DRILL PIPE LENGTH : 4335 FT I.D. inch : 3.80
TEST TOOL LENGTH : 28 FT TOOL SIZE : 5.50
ANCHOR LENGTH : 35 FT ANCHOR SIZE : 5.50
SURFACE CHOKE SIZE : .75 IN BOTTOM CHOKE SIZE : .75
MAIN HOLE SIZE : 7.875 IN TOOL JOINT SIZE : 4.5XH

BLOW COMMENT #1 : INITIAL FLOW PERIOD WEAK BLOW-BUILDING TO
BLOW COMMENT #2 : A 5 INCH BLOW.
BLOW COMMENT #3 : FINAL FLOW PERIOD GOOD 9 INCH BLOW. NO GAS
BLOW COMMENT #4 : TO SURFACE.

RECOVERED : 10 FT OF: MUD

Total Barrels Fluid = 0.06
Total Fluid Prod Rate = 1.17 BFPD
Indicated Wtr Rate = 0.12 BWPD

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

SET PACKER(S) : 2:45 P.M.

TIME STARTED OFF BOTTOM : 7:00 P.M.

WELL TEMPERATURE : 122

INITIAL HYDROSTATIC PRESSURE

(A) 2456

INITIAL FLOW PERIOD MIN: 15

(B) 96 PSI TO (C) : 96

INITIAL CLOSED IN PERIOD MIN: 63

(D) 184

FINAL FLOW PERIOD MIN: 60

(E) 100 PSI TO (F) : 100

FINAL CLOSED IN PERIOD MIN: 120

(G) 197

FINAL HYDROSTATIC PRESSURE

(H) 2411

ORIGINAL

WESTERN TESTING CO. INC.
WICHITA-KANSAS

Pressure Transient Report

COMPANY : ADVANTAGE RESOURCES INC.
RIG : KIOWA-KANSAS
FIELD : RONALD ROSS
WELL : 1
DATE : 5-1-91
GAUGE NO : 1051

OPERATIONAL COMMENTS

COMPANY : ADVANTAGE RESOURCES INC.
 WELL : 1
 GAUGE # : 1051
 DATE : 1/ 5/91

FIELD : RONALD ROSS
 JOB # : 17251
 DEPTH : 4825
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
INITIAL FLOW PERIOD					
2	2:45:0	0.000	96.000	122.00	0.000
3	2:49:59	0.083	96.000	122.00	0.000
4	2:55:0	0.167	96.000	122.00	0.000
5	3:0:0	0.250	96.000	122.00	0.000
INITIAL SHUT-IN PERIOD					
6	3:3:0	0.300	96.000	122.00	0.000
7	3:6:0	0.350	96.000	122.00	0.000
8	3:9:0	0.400	96.000	122.00	0.000
9	3:12:0	0.450	96.000	122.00	0.000
10	3:15:0	0.500	96.000	122.00	0.000
11	3:18:0	0.550	96.000	122.00	0.000
12	3:21:0	0.600	98.000	122.00	2.000
13	3:24:0	0.650	101.000	122.00	3.000
14	3:27:0	0.700	104.000	122.00	3.000
15	3:30:0	0.750	109.000	122.00	5.000
16	3:33:0	0.800	116.000	122.00	7.000
17	3:36:0	0.850	123.000	122.00	7.000
18	3:39:0	0.900	128.000	122.00	5.000
19	3:42:0	0.950	135.000	122.00	7.000
20	3:45:0	1.000	144.000	122.00	9.000
21	3:48:0	1.050	152.000	122.00	8.000
22	3:51:0	1.100	159.000	122.00	7.000
23	3:54:0	1.150	165.000	122.00	6.000
24	3:57:0	1.200	174.000	122.00	9.000
25	4:0:0	1.250	181.000	122.00	7.000
26	4:3:0	1.300	184.000	122.00	3.000
FINAL FLOW PERIOD					
27	4:4:0	1.317	100.000	122.00	-84.000
28	4:7:59	1.383	100.000	122.00	0.000
29	4:13:0	1.467	100.000	122.00	0.000
30	4:18:0	1.550	100.000	122.00	0.000
31	4:22:59	1.633	100.000	122.00	0.000
32	4:28:0	1.717	100.000	122.00	0.000
33	4:33:0	1.800	100.000	122.00	0.000
34	4:37:59	1.883	100.000	122.00	0.000
35	4:43:0	1.967	100.000	122.00	0.000
36	4:48:0	2.050	100.000	122.00	0.000
37	4:52:59	2.133	100.000	122.00	0.000
38	4:58:0	2.217	100.000	122.00	0.000
39	5:3:0	2.300	100.000	122.00	0.000
FINAL SHUT-IN PERIOD					
40	5:6:0	2.350	100.000	122.00	0.000
41	5:8:59	2.400	100.000	122.00	0.000
42	5:12:0	2.450	100.000	122.00	0.000
43	5:15:0	2.500	100.000	122.00	0.000
44	5:18:0	2.550	100.000	122.00	0.000
45	5:21:0	2.600	100.000	122.00	0.000
46	5:23:59	2.650	100.000	122.00	0.000
47	5:27:0	2.700	100.000	122.00	0.000
48	5:30:0	2.750	100.000	122.00	0.000

COMPANY : ADVANTAGE RESOURCES INC.
 WELL : 1
 GAUGE # : 1051
 DATE : 1/ 5/91

FIELD : RONALD ROSS
 JOB # : 17251
 DEPTH : 4825
 TEST :

DATA No.	REAL TIME HR:MN:SS	ELAPSE TIME DELTA HOURS	PRESSURE PSIG	TEMP DEG F	DELTA P Pi-P(i-1)
49	5:33: 0	2.800	100.000	122.00	0.000
50	5:36: 0	2.850	100.000	122.00	0.000
51	5:39: 0	2.900	100.000	122.00	0.000
52	5:41:59	2.950	102.000	122.00	2.000
53	5:45: 0	3.000	107.000	122.00	5.000
54	5:48: 0	3.050	110.000	122.00	3.000
55	5:51: 0	3.100	111.000	122.00	1.000
56	5:54: 0	3.150	112.000	122.00	1.000
57	5:56:59	3.200	115.000	122.00	3.000
58	6: 0: 0	3.250	117.000	122.00	2.000
59	6: 3: 0	3.300	120.000	122.00	3.000
60	6: 6: 0	3.350	124.000	122.00	4.000
61	6: 9: 0	3.400	128.000	122.00	4.000
62	6:11:59	3.450	132.000	122.00	4.000
63	6:15: 0	3.500	137.000	122.00	5.000
64	6:18: 0	3.550	142.000	122.00	5.000
65	6:21: 0	3.600	146.000	122.00	4.000
66	6:24: 0	3.650	150.000	122.00	4.000
67	6:27: 0	3.700	153.000	122.00	3.000
68	6:30: 0	3.750	158.000	122.00	5.000
69	6:33: 0	3.800	161.000	122.00	3.000
70	6:36: 0	3.850	166.000	122.00	5.000
71	6:39: 0	3.900	170.000	122.00	4.000
72	6:42: 0	3.950	174.000	122.00	4.000
73	6:45: 0	4.000	177.000	122.00	3.000
74	6:48: 0	4.050	180.000	122.00	3.000
75	6:51: 0	4.100	185.000	122.00	5.000
76	6:54: 0	4.150	188.000	122.00	3.000
77	6:57: 0	4.200	191.000	122.00	3.000
78	7: 0: 0	4.250	195.000	122.00	4.000
79	7: 3: 0	4.300	197.000	122.00	2.000

WESTERN TESTING CO. INC.

ORIGINAL

STERLING DRILLING COMPANY

BOX 129

STERLING, KANSAS 67579

SAMPLE LOG ----- -RONALD ROSS #1
C NE NE, Sec. 21-T28S-R17W, Kiowa County, Kansas

OPERATOR: Advantage Resources Inc.
Schuelin Company

ROTARY DRILLING CONTRACTOR: Sterling Drilling Company

COMMENCED: April 25, 1991
COMPLETED: May 2, 1991

TOTAL DEPTH 4875' Driller TD
4871' Log TD

- LOG -

0 - 150' Surface soil & sand
150 - 400' Shale & Sand
400 - 1116' Lime & Shale
1116 - 4875' Lime & Shale

CASING RECORD

Spud at 10:30 AM 4-25-91 Drilled 400' of
12 1/4" hole. Ran 9 joints new 8 5/8"
20# casing. 384.98' pipe set at 397' KB.
Cemented with 200 sacks 60/40 Pozmix, W/
2% gel, 3% cc. Plug down at 4:30 PM 4-25-91
by Allied Cementing. Good returns to surface.

Plugged as follows:

Filled hole with heavy mud W/ 50 sacks at
1140', 80 sacks at 575', 50 sacks at 400',
10 sacks 40' to surface, 15 sacks in rathole.
10 sacks in mousehole. Used 215 sacks 60/40 Pozmix
W/ 6% gel. Job complete at 10:30 PM May 2,
1991 By Allied Cementing. State Plugger - Steve
Middleton W/ KCC was not present. Tom Myers
was Sterling Drilling witness

RECEIVED
STATE CORPORATION COMMISSION

JUL 02 1991

CONSERVATION DIVISION
Wichita, Kansas

DEVIATION SURVEYS:

4825' - 1/4°