

ORIGINAL

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

Operator: License # 6927

Name: ADVANTAGE RESOURCES, INC.

Address 1665 SHERMAN ST., SUITE 1375

City/State/Zip DENVER, CO 80203

Purchaser: NONE

Operator Contact Person: DAVID PAULY

Phone (316) 264-0490

Contractor: Name: DUKE DRILLING

License: 5929

Wellsite Geologist: JERRY JESPERSON

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: ADVANTAGE RESOURCES, INC.

Well Name: HARDY #1

Comp. Date 12/92 Old Total Depth 4940

Deepening Re-perf. Conv. to Inj (SWD)

Plug Back PBTB

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

FOR

8-26-95 8-31-95 9-25-95

Spud Date of REENTRY Date Reached TD Completion Date

API NO. 15- 097-21, 3480001

County KIOWA

SW - NW - NE - SE sec. 24 Twp. 28S Rge. 18 X W

3980 Feet from (S)N (circle one) Line of Section

2300 Feet from (E)W (circle one) Line of Section

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

Lease Name HARDY "owwo" Well # "B" #1

Field Name HARDY

DISPOSAL Producing Formation ARBUCKLE

Elevation: Ground 2209 KB 2218

Total Depth 5500 PBTB 5251

Amount of Surface Pipe Set and Cemented at 480 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 REENTRY JJK 4-22-96
(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used HAULED WATER/FLUID

Location of fluid disposal if hauled offsite:

Operator Name PETER BEREN

Lease Name KOHN License No. _____

SW/4 Quarter Sec. 28 Twp. 29S S Rng. 18 W

County KIOWA Docket No. 0-5617

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 [Signature]

Title Agent Date 10-2-95

Subscribed and sworn to before me this 2nd day of October, 19 95.

Notary Public Ronda S. Alberg

Date Commission Expires 3/26/96

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> NGPA
<input type="checkbox"/>		<input type="checkbox"/> Other
(Specify)		

RECEIVED
KANSAS CORPORATION COMMISSION

RONDA S. ALBERG
Notary Public - State of Kansas
My Appt. Expires 3/26/96

OCT 04 1995

Form ACO-1 (7-91)

CONSERVATION DIVISION
WICHITA, KS

Operator Name ADVANTAGE RESOURCES, INC.

Lease Name HARDY

Well # "B" #1

Sec. 24 Twp. 28S Rge. 18

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.)

List All E.Logs Run: GAMMA RAY/NEUTRON

Log Formation (Top), Depth and Datums Sample

Name	Top	Datum
HEBNER	4060	1842
LANSING	4238	2020
MISSISSIPPI	4822	2640
KINDERHOOK	4874	2660
VIOLA	4968	2750
SIMPSON	5108	2890
ARBUCKLE	5205	2987

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	10 1/4"	8 5/8"	24	480	60-40	250	
PRODUCTION	7 7/8"	5 1/2"	15.5	5251	ASC	250	5# KOLSEAL

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		NONE		
<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
NONE	OPEN HOLE 5251-5500'	3,000 GAL 15% HCL	

TUBING RECORD

Size 2 7/8" Set At 5225' Packer At 5225' Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 9-2-95 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: **METHOD OF COMPLETION** Injection ~~Production~~ Interval

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

Open Hole Perf. Dually Comp. Commingled 5251'-5500'

Other (Specify) _____

ALLIED CEMENTING CO., INC. 001359

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT
Med Lodge, KS.

ORIGINAL

DATE <u>8-31-95</u>	SEC. <u>24</u>	TWP. <u>28S</u>	RANGE <u>18W</u>	CALLED OUT <u>2:00 A.M.</u>	ON LOCATION <u>7:30 A.M.</u>	JOB START <u>11:50 A.M.</u>	JOB FINISH <u>3:15 P.M.</u>
LEASE <u>Hardy</u>	WELL # <u>1-SWD</u>	LOCATION <u>Brenham, 1/2w-2s-1/2w-51th</u>			COUNTY <u>Nowa</u>	STATE <u>Ks</u>	

OLD OR NEW (Circle one)

CONTRACTOR Duke Drig #4
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5248'
 CASING SIZE 5 1/2 x 15.5 DEPTH 5238
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 x 16.60 DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1500 MINIMUM 500
 MEAS. LINE _____ SHOE JOINT 11.20
 CEMENT LEFT IN CSG. _____
 PERFS. _____

OWNER Advantage Resources
 CEMENT _____

AMOUNT ORDERED 500 Gals mud Sweep
250 SLS 60/40/6% Gel
250 SLS ASC + 5# Col-Seal

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____

EQUIPMENT
 PUMP TRUCK CEMENTER Arny D
 # 255-265 HELPER Carl B
 BULK TRUCK
 # 257-250 DRIVER Tim S
 BULK TRUCK
 # _____ DRIVER _____

TOTAL _____

REMARKS:
mix + Pump 500 Gals mud Clean
Pump 450 SLS Rathole - 10 SLS mouse hole
w/ 60/40/6% Gel Cement w/ 250 SLS
Class A, ASC w/ 5# Col-Seal stop pumps
washout pump lines, Release Plug
Displace w/ Fresh #2 w/ 12 R/S SLS
Bump Plug Release PST Float Hold

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 PLUG Rubber _____ @ _____
 _____ @ _____

TOTAL _____

CHARGE TO: Advantage Resources
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

Baker 5/8
1- Triplex Shoe @ _____
1- Float Collar @ _____
2- Centerizers @ _____
1- Thread-Lok @ _____
 _____ @ _____

TOTAL _____

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS

RECEIVED
 KANSAS CORPORATION COMMISSION
 OCT 04 1995
 CONSERVATION DIVISION
 WICHITA, KS

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE [Signature]

Phone 913-483-2627, Russell, Kansas

Phone 316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

11.05

Home Office P. O. Box 31

Russell, Kansas 67663

New
 Date 12-17-92 Sec 24 Twp. 28 Range 18 Called Out 8:30PM On Location 11:30AM Job Start 2:30AM Finish 3:30AM
 Lease Harry Well No. #1 Location Breton, W. 1/4 MM 11.5, 1/4 W, 3/4 S Kiowa County KS

Contractor Duke Rig #5
 Type Job Surface
 Hole Size 12 1/4" I.D. 480
 Csg. 8 3/8" 25' New Depth 480'
 Tbg. Size Depth
 Drill Pipe Depth
 Tool Depth
 Cement Left in Csg. 15' Shoe joint
 Press Max. Minimum
 Meas Line Displace 29 3/4 bbl
 Perf.

Owner Advantage
 To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.
 Charge To Duke Drilling Co., Inc.
 Street Box 823
 City Great Bend Kans. 67531
 The above was done to satisfaction and supervision of owner agent or contractor.
 Purchase Order No.
 X. [Signature]
 CEMENT

Amount Ordered 280 SKS @ 49cc = 27620

EQUIPMENT

#	No.	Cementer	TIM
Pumpark	181	Helper	Cary
	No.	Cementer	
Pumpark		Helper	
#		Driver	Yancy
Bulktrk	179	Driver	

DEPTH of Job

Reference:	Hamrick Change	380.00
25	Hamrick Mileage	50.00
1	8 3/8" Wooden Plug	42.00
	180' at .39	70.20
	Total	542.20

Remarks: Cement did circulate,
 [Signature]

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 KANSAS CORPORATION COMMISSION

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CONSERVATION DIVISION
 WICHITA, KS



CEMENTING LOG ORIGINAL STAGE NO.

Date 8-31-95 District Med. Lodge Ticket No. 1359
 Company Advantage Resources Rig Dee #4
 Lease Hardy Well No. 1-SWD
 County Kiowa State KS
 Location Brenham Elevator Field 24-283-18
Low-125-1aw-3/4 into

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 5 1/2 Type F-55 Weight 14.00 Collar _____

Burst Collapse
4,270 PSI 3,120 PSI

Casing Depths: Top _____ Bottom _____

Drill Pipe: Size 4 1/2 Weight 16.60 Collars x-4016
 Open Hole: Size 7 7/8 T.D. 5948 ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0238 Lin. ft./Bbl. 40.98
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.5993
 Drill Pipe: Bbls/Lin. ft. .0142 Lin. ft./Bbl. 70.32
 Annulus: Bbls/Lin. ft. .0309 Lin. ft./Bbl. 32.4065
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: mud sweep
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

500 Gallons
 LEAD: Pump Time _____ hrs. Type Class A 60/40/0
Gel Excess _____
 Amt. 25 Skys Yield 1.58 ft³/sk Density 13.8 PPG

TAIL: Pump Time _____ hrs. Type Class A
Asbestos Kol-seal Excess _____
 Amt. 250 Skys Yield 1.57 ft³/sk Density 14.5 PPG
 WATER: Lead 7.8 gals/sk Tail 7.23 gals/sk Total _____ Bbls.

Pump Trucks Used 255-265 Carl B.
 Bulk Equip. 257-251 Tim S.

Float Equip: Manufacturer Baker 5/2
 Shoe: Type Triplex Shoe Depth 5234
 Float: Type Float Collar Depth 5236.8
 Centralizers: Quantity 8 Plugs Top Runner Btm. _____
 Stage Collars Baskets - 2
 Special Equip. Thread Lok
 Disp. Fluid Type Fresh H₂O Amt. 128 1/2 Bbls. Weight 8.34 PPG
 Mud Type Chemical Weight 9.3 PPG

COMPANY REPRESENTATIVE Dave Pauly

CEMENTER Jimmy J. Dierling

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
1:15			500			Pipe in B + in Circ w/ Rig Pump
1:58	1200					Stop Pumps. Drop Ball to Open Triplex
2:13	500		12	3	4	Triplex open. Stop Pumps. Drop BALL
2:20	50		3	1	2	thead Hard mix + Pump. 500 Gals mud Sweep
2:25	400					Plug Article w/ 15 SKS 60/40/10% Gel
2:38			70		5	Plug Article w/ 15 SKS 60/40/10% Gel Mud + Pump 250 SKS. A Seal 5#
2:39	50		8	2	4	Kol-seal Per sk Cement In. Stop Pumps
2:40	100		30	6	5	Wash out Pump Lines
	200		42	2	5	Release Plug.
	300		54	2	5	Displace Plug w/ Fresh H ₂ O
	450		83	6	5	mud sweep Turn shoe
	900		120	2	2	Cement Turn shoe
3:05	1500		128 1/2	4	2	RST lift
						Decrease Rate
						Bump Plug
						Release RST
						Float Hold

ALLIED CEMENTING CO., INC. 1359

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

ORIGINAL

SERVICE POINT: med. ledge, ks.

DATE <u>8-31-95</u>	SEC. <u>24</u>	TWP. <u>28S</u>	RANGE <u>18W</u>	CALLED OUT <u>2:00 A.M.</u>	ON LOCATION <u>7:30 A.M.</u>	JOB START <u>1:15 P.M.</u>	JOB FINISH <u>3:15 P.M.</u>
LEASE <u>Hardy</u>		WELL# <u>1-SW0</u>	LOCATION <u>Brehan, 1/2W-1/2S-1/2W-5110</u>		COUNTY <u>Howa</u>	STATE <u>Ks</u>	

OLD OR NEW (Circle one)

CONTRACTOR Duke Dalg #4
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 5048'
 CASING SIZE 5 1/2 x 16.5 DEPTH 5238
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE 4 1/2 x 16.60 DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 1500 MINIMUM 500
 MEAS. LINE _____ SHOE JOINT 11.20
 CEMENT LEFT IN CSG. _____
 PERFS. _____

OWNER Advantage Resources
 CEMENT _____

AMOUNT ORDERED 500 Gals. mid Sweep
250 SLS. 60/40/1% Gel
250 SLS. ASC + 5 # Vol-Seal

COMMON _____ @ _____
 POZMIX _____ @ _____
 GEL _____ @ _____
 CHLORIDE _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING _____ @ _____
 MILEAGE _____ @ _____

EQUIPMENT

PUMP TRUCK CEMENTER Harry D
 # 255-265 HELPER Carl B.
 BULK TRUCK _____
 # 257-250 DRIVER Tim S
 BULK TRUCK _____
 # _____ DRIVER _____

TOTAL _____

REMARKS:

mix + Pump 500 Gals mid Clean
Pump 55 SLS Rathole - 10 SLS mouse hole
w/ 60/40/1% Gel Cement w/ 250 SLS
Class A, ASC w/ 5 # Vol-Seal Stop Pumps
washout Pump lines, Release Plug
Displace w/ Fresh #2 w/ 12 8/13 SLS
Bump Plug Release PST Float Hold

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____
 EXTRA FOOTAGE _____ @ _____
 MILEAGE _____ @ _____
 PLUG Rubber _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

CHARGE TO: Advantage Resources
 STREET _____
 CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

Baker - 5/8
 1- Triplex Shoe _____ @ _____
 1- Float Collar _____ @ _____
 8- Centerizers _____ @ _____
 1- Thread-10K _____ @ _____
 _____ @ _____

TOTAL _____

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CONSERVATION DIVISION
 WICHITA, KS

To Allied Cementing Co., Inc.
 You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE [Signature]

TAX _____
 TOTAL CHARGE _____
 DISCOUNT _____ IF PAID IN 30 DAYS