

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

097-21,359 -00-00

API NO. 15- 097-21,359 -00-00
County Kiowa
NE NW SW 24 28 18 E
Sec. Twp. Rgs. X W

Operator: License # 6926
Name: Advantage Resources, Inc.
Address 1775 Sherman Street - Suite 1375
City/State/Zip Denver, CO 80203

2310 Feet from S (circle one) Line of Section
990 Feet from E (circle one) Line of Section

Purchaser: _____
Operator Contact Person: Lou Bortz
Phone (303) 831-1912

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

Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: J.E. Jespersen

Lease Name Byrd Hardy "C" Well # 1

Designate Type of Completion
 New Well Re-Entry Workover
 Jil SWD SOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, WSW, Expl., Cathodic, etc)

Field Name Hardy
Producing Formation Miss Chat (Osage)
Elevation: Ground 2220' KB 2229'

If Workover/Re-Entry: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBTB
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
11-29-93 12-07-93 2-03-94
Spud Date Date Reached TD Completion Date

Total Depth 5000' PBTB 4947

Amount of Surface Pipe Set and Cemented at 495' Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from 495

feet depth to Surface w/ 280 ex cat.

Drilling Fluid Management Plan ALT 1 JH 6-16-94
(Data must be collected from the Reserve Pit)

Chloride content 45,000 ppm Fluid volume 1800 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name RECEIVED 3-14-94
KANSAS CORPORATION COMMISSION

Lease Name _____
Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W
County _____ Docket No. _____
MAR 4 1994

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 Louis C Bortz
Title Vice President Date 3-10-94

Subscribed and sworn to before me this 10th day of March
19 94

Notary Public Sharon R. McDonald
Date Commission Expires February 18, 1996

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep MGPA
 KGS Plug Other
(Specify)

SIDE TWO

Operator Name Advantage Resources, Inc. Lease Name Byrd Hardy "C" Well # 1
 Sec. 24 Twp. 28 Rge. 18 East West
 County Kiowa

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<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	Anhydrite	1141	+1088
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	4067	-1838
List All E.Logs Run: Dual Induction Neutron/Density Porosity Radiation Guard		Lansing	4246	-2017
		B/Kansas City	4635	-2406
		Mississippi Chat	4818	-2589
		Kinderhook	4899	-2670
		TD	5000	-2771

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"	24#	495'	60/40 poz	280	2% gel 3% cc
Production	7-7/8"	4 1/2"	10.5#	4991'	ASC	200	

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
3	4866 - 4868	250 gal 10% HCl - NE	4866-4868
2	4818 - 4838	1500 gal 10% HCl - NE	4818-4838
		Frac'd with 37,000 #sand	4818-4838

TUBING RECORD	Size 2 3/8	Set At 4680.82	Packer At N/A	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. Waiting on pipeline	Producing Method <input checked="" type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls.	Gas 545 Mcf	Water 25 BW PH	Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACD-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify)

Production Interval: 4818-4838

ORIGINAL

API# 15-097-21359

Drill Stem Test #1

4823-4848

Gas to surface in 8 min. of IFP
Gauge: 10 min. 68.8 MCFPD
15 min. 78.1 MCFPD
Gauge: 10 min. 108.0 MCFPD
20 min. 94.5 MCFPD
30 min. 94.5 MCFPD
40 min. 94.5 MCFPD
50 min. 86.3 MCFPD
60 min. 86.3 MCFPD

Recovered: 80' GCM (90%M, 10%G)
Initial Flow Pressures: 96# to 86# / 15 min.
Initial Shut-In Pressure: 1175# / 60 min.
Final Flow Pressures: 75# to 53# / 60 min.
Final Shut-In Pressure: 1175# / 120 min.
Initial Hydrostatic Pressure: 2475#
Final Hydrostatic Pressure: 2401#
Bottomhole Temperature: 122 degrees

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 14 1994

COMMISSION DIVISION

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.

5840

Home Office P. O. Box 31

Russell, Kansas 67665

NEW WELL

Date	11-29-93	Sec.	24	Twp.	28	Range	18W	Called Out	6:00 P	On Location	8:00 P	Job Start	11:30 P	Finish	11:30 P
Lease	BYRD HARDY	Well No.	"0"-1		Location	GREENSBURG 20-15-4/5			County	KANSAS		State	KANSAS		
Contractor	DUKE DRILLING #5														
Type Job	SURFACE														
Hole Size	12 1/4				T.D.	500 FT									
Csg.	8 5/8 24 #				Depth	495 FT									
Tbg. Size					Depth										
Drill Pipe					Depth										
Tool					Depth										
Cement Left in Csg.	15 FT				Shoe Joint										
Press Max.					Minimum										
Meas Line					Displace	30.75 Fresh H ₂ O									
Perf.															

Owned ADVANTAGE RESOURCES, INC.
 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 listed.

Charge To Duke Drilling Co. Inc.
 Street Box 823
 City Great Bend State Ko 67530
 The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. X
[Signature]
CEMENT

EQUIPMENT

Pump/Trk	No.	Cementer	272	NEAL R
		Helper		CARL B
Pump/Trk	No.	Cementer		
		Helper		
Bulk/Trk	No.	Driver		MARK B
		Driver		

Amount Ordered	2805x 69/40 2% GEL + 5% C.C
Consisting of	
Common	168 5.75 966.00
Fuz. Mix	112 3.00 336.00
Gel.	6 2.00 12.00
Chloride	8 25.00 200.00
Quicksat	
Handling	280 1.00 280.00
Mileage	30 336.00
Total	2160.00

DEPTH of Job	495'
Reference:	PUMP TRUCK 430.00
	30 Mileage 67.50
	1 8 5/8 Wooded Rubber Cup 42.00
	195' at .39 76.05
	Total 615.55

Floating Equipment
 TOTAL \$ 2775.55
 Disc - 555.11
 \$ 2220.44

Remarks:
 CEMENT DID CIRCULATE!
 (original bid for 480')

KANSAS CORPORATION COMMISSION

MAR 1 1994

REGISTRATION DIVISION
WICHITA, KS

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.

5847

Home Office P. O. Box 31

Russell, Kansas 67665

New Well

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
12-7-93	24	28	18W	8:00 AM	11:30 A	6:00 P	8:30 P
Lease	Well No.	Location		County	State		
Byrd-Hardy	C-1	Greensburg 2E-1/2S-W/5		KIOWA	KAUS.		

Contractor	Duke Drig. Rig #5
Type Job	PRODUCTION STRONG
Hole Size	7 7/8
Csg.	4 1/2 10.5
Tbg. Size	
Drill Pipe	
Tool	
Cement Left in Csg.	30'
Press Max.	1994 Minimum
Meas Line	Displacement 1974 Feet H ²
Perf.	

Owner	ADVANTAGE RESOURCES
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 listed.	
Charge To	ADVANTAGE RESOURCES
Street	1775 SHARMAN ST. SUITE 1375
City	DENVER State Col. 80203
The above was done to satisfaction and supervision of owner agent or contractor.	
Purchase Order No.	
X	
	CEMENT

RECEIVED
 KANSAS CORPORATION
 MAR 1994
 CONSERVATION
 WICHITA, KS

EQUIPMENT

No.	Cementer	272	NEAL R.
Pumptrk	265	Helper	CAL B.
No.	Cementer		
Pumptrk		Helper	
		Driver	MARK B.
Bulktrk	256	Driver	

Amount	500 GAL MUD SWEEP
Ordered	2005x A.S.C. + 5* Kol Seal
Consisting of	
Common	200 ASC 2.50 1500.00
Poz. Mix	
Gel.	
Chloride	Kol Seal 1000 1.36 360.0
Quickset	
Mud Sweep	500 gals. 1.80 900.00
Handling	200 1.00 200.0
Mileage	30 240.00
Total	\$ 5475.50
Disc	- 1095.10
Total	\$ 4380.40

DEPTH of Job	4991'
Reference:	Pump Truck 1101.00
	30 Mileage 67.50
	1 4 1/2 Top Rubber Plug 33.00
	Total 1201.50

Floating Equipment	BAKER / ARROW
	1-4 1/2 Slip on Guide Shoe - 109.00
	1-4 1/2 A.F.U. INSERT - 169.00
	17-4 1/2 Recip. Scratches - 425.00
	7-4 1/2 CENTRALIZERS (A) - 371.00
	Total 1074.00

Remarks: Plug RATHOLE & Mouse hole 25SK
 FLOAT Held @
 Repsi Csg to 600# Shut TNB