

SIDE ONE

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

Operator: License # 30451

Name: GeoMap, Inc.

Address 2101 West Maple

City/State/Zip Independence, KS 67301

Purchaser: \_\_\_\_\_

Operator Contact Person: \_\_\_\_\_

Phone ( 316 ) 331-3140

Contractor: Name: MOKAT Drilling

License: 5831

Wellsite Geologist: Vance Cain

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.  
 Gas  Inj  Delayed Comp.  
 Dry  Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

01-30-91 01-31-91 02-12-91  
Spud Date Date Reached TD Completion Date

API NO. 15- 125-29,523 0000

County Montgomery

NW NE SW Sec. 23 Twp. 32S Rge. 15  East West

2310 Ft. North from Southeast Corner of Section

3630 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)

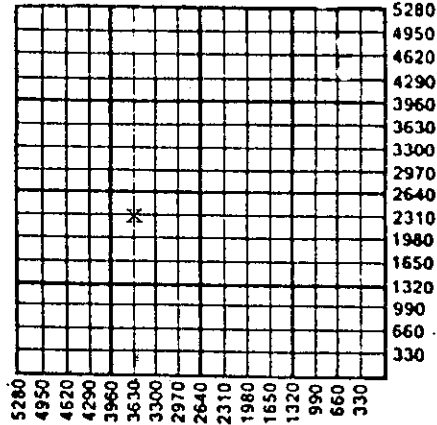
Lease Name Wint Well # G-1

Field Name Jefferson-Sycamore

Producing Formation Weir-Coal

Elevation: Ground 810 KB \_\_\_\_\_

Total Depth 1215 PBTD 1168



Amount of Surface Pipe Set and Cemented at 26.5 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from Surface

feet depth to 1168 w/ 131 sx cmt.

**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.

Signature Jerri L Bryant Cain

Title President Date 02/19/91

Subscribed and sworn to before me this 19<sup>th</sup> day of February, 19 91.

Notary Public Jeffrey S. [Signature]

Date Commission Expires 11/16-1991

**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)

**SIDE TWO**

Operator Name GeoMap, Inc. Lease Name Wint Well # G-1  
 Sec. 23 ~~T40~~ 32S Rge. 15  East  West  
 County Montgomery

**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.)

**Formation Description**

Log  Sample

Name Top Bottom

See 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	10.5	8.38		26.5	Portland	6 sx	None
Casing	6.25	4.5	9.5	1168	Portland		See attached

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth	
		4	951.5 - 956.5

**PIPE RECORD** Size 2.375" Set At 973 Packer At \_\_\_\_\_ Liner Run  Yes  No

Date of First Production \_\_\_\_\_ 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:  Vented  Sold  Used on Lease (if vented, submit ACO-18.)

**METHOD OF COMPLETION**  Open Hole  Perforation  Dually Completed  Commingled  Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

Well Name: Wint G-1  
Spot Location: NW NE SW  
2310 FSL, 3630 FEL  
S23-T32S-R15E  
Montgomery Co.

1-2-91

Contractor: MOKAT Drilling (Air Rotary)  
API No: 15-125-29,523  
Field: Jefferson - Sycamore  
SPD: 01-30-91  
DRLG COMP: 01-31-91  
RTD: 1215'

Wint G-1	01-28-91	SPUD, 26.5' surf pipe, cemented w/ 6 sx
	01-29-91	DRLG, T.D. 965' Gas test 695' - 1.0 psi on .5" orifice - 33.9 MCFD, Gas test - 780' - 1.5 psi on .5" orifice - 41.0 MCFD, Gas test - 940' - 8 psi on .5" orifice - 101 MCFD, Gas test - 960' - 28 psi on .5" orifice - 222 MCFD
	01-30-91	DRLG, T.D. 1215' Gas test - 965' - 1.5 psi on .5" orifice - 41.0 MCFD, Gas test - 1015' - 6.5 psi on .5" orifice - 90.1 MCFD, Gas test - 1120' - 9.5 psi on .5" orifice - 112 MCFD, Gas test - 1165' - 24 psi on .5" orifice, 200 MCFD Gas test - 1215' - 23 psi on .5" orifice - 193 MCFD. Gel hole w/ 15 sx Fr Wtr Gel
	02-01-91	MICT, Log (DIL, CNP-CD) MIPU, Run 1168' 4.5" 10.5# csg. Centralizers @ 1130', 1019', 828', & 674', Cmt csg w/ 130 sx Portland A, 1sx Flo-Seal, 3sx gel 5.5 sx Gilsonite
	02-08-91	MICT, Log (CBL, GRN) Perf (Weir Coal) 951.5 -956.5 4 HPFT HSC
	02-09-91	MIPU, Swd Dwn, A/400 gal 15% HCL, Brk dwn @ 900 psi, treated @ 3 bbl/min 1300 psi 3 bbl/min 900 psi. Frac (7 bbl/min) 180 bbl pad, 30# gel wtr, 12 sx 100 mesh, 120 sx 20x40 .5 ppg-100 mesh-1200 psi, 1.0 ppg-100 mesh-1200 psi, 1.5 ppg-100 mesh 1150 psi, 2.0 ppg-100 mesh-1150 psi, 2.0 ppg 20x40-1100 psi, 2.5 ppg-20x40-1100 psi, 3.0 ppg-20x40-1100 psi, (8.5 bbl/min) 4.0 ppg-20x40-1050 psi, 5.0 ppg-20x40- 1050 psi, scr out.
	02-12-91	MIPU, Wsh dwn, Run 972.4' 2.375" Tbg. 5' bbl, scrn, anchor, pump, etc.

Wint G-1

<u>FORMATION</u>	<u>DEPTH</u>	<u>DATUM</u>	<u>SHOWS</u>
Altamont LS	459-489	+351	
Pawnee LS	601-630	+209	
Oswego LS	701-770	+109	
Mulky Coal	770-776	+ 40	Gas
Breezy Hill LS	776-784	+ 34	
Iron Post Coal	791-794	+ 19	
Bevier Coal	820-821	- 10	
Croweburg Coal	857-859	- 47	
Weir Coal	947-953	-137	Gas
Secor Coal	1016-1020	-206	
Bartlesville SS	1040-1110	-230	Gas
Riverton Coal	1128-1132	-318	Gas
Mississippi Cht	1173-1212	-363	Bleeding Oil
Mississippi LS	1212-1215 TD	-402	

STATION Chanute OPERATOR Ray H. Hurd

Ticket 83542

**CONSOLIDATED OIL WELL SERVICES, INC.**

P.O. Box 884  
Chanute, Kansas 66720  
Phone (316) 431-9210

Date <u>2-1-91</u>	Customer's Acct. No. <u>2139</u>	Sec. <u>23</u>	Twp. <u>32</u>	Range <u>15</u>	Well No. & Farm <u>G-1</u> <u>WINT</u>	Place or Destination <u>Independence</u>
Charge To <u>CAIN, VANCE</u>			Owner			County <u>M/C</u>
Mailing Address <u>1702 Overlook DR</u>			Contractor			State <u>KS</u>
City & State <u>Independence, KS 67301</u>			Well Owner Operator Contractor			

**CEMENTING SERVICE DATA**

TYPE OF JOB	CASING		HOLE DATA		PLUGS AND HEAD		PRESSURE		CEMENT LEFT IN CASING	
Surface	New		Bore Size	<u>6 1/4</u>	Bottom	<u>Rubber Plug</u>	Circulating	<u>0</u>	Requested	
Production	Used	<input checked="" type="checkbox"/>	Total Depth	<u>1215</u>	Top	<u>PC</u>	Minimum	<u>100</u>	Necessity	
Squeeze	Size	<u>4 1/2</u>	Cable Tool		Head		Maximum	<u>400</u>	Measured	
Pumping	Weight		Rotary	<u>Air</u>	FLOAT EQUIPMENT		Sacks Cement	<u>130 SK</u>	Type & Brand	<u>portland-A</u>
Other	Depth	<u>1168</u>					Admixes	<u>G. L. ... Flo-Seal</u>		
	Type	<u>8" x 2"</u>								

**FRACTURING - ACIDIZING SERVICE DATA**

Type of Job	At Intervals of					
Bbls Fracturing Fluid	Breakdown Pressure from	psi to	psi	Avg. Pump Rate	GPM/BPM	Close In
Treating Pressures: Maximum	psi	Minimum	psi			ps
Sand	Gals. Treating Acid	Type	Open Hole Diameter			
Well Treating Through: Tubing	Casing	Annulus	Size	Weight		
Remarks:						
No. Perforations	Pay Formation Name	Depth of Job	ft			

**CEMENTING INVOICE SECTION FRACTURING - ACIDIZING**

Pumping Charge	Office Use	Pumping Charge	Office Use
<u>1307</u> Sacks Bulk Cement @ <u>540</u>	<u>1101</u> \$ <u>687.50</u>	12x30 Sand @	
Ton Mileage on Bulk Cement <u>45</u>	<u>6601</u> \$ <u>130.00</u>	10x20 Sand @	
<u>3</u> x Premium Gel @	<u>1301</u> \$ <u>20.70</u>	x Sand @	
<u>1</u> x Flo-Seal @	<u>1302</u> \$ <u>30.00</u>	Ton Mileage @	
Calcium Chloride @		Gals., Acid @	
<u>1-4 1/2</u> Plug <input checked="" type="checkbox"/> @	<u>3008</u> \$ <u>23.50</u>	Chemicals @	
Equipment @			
<u>5 1/2</u> SK G. L. ... @	<u>1304</u> \$ <u>98.50</u>		
		Potassium Chloride @	
		Rock Salt @	
Granulated Salt @		Water Gel @	
Transport Truck ( Hrs.) @		Transport Truck ( Hrs.) @	
Vac Truck ( <u>4 1/2</u> Hrs.) @	<u>16301</u> \$ <u>198.00</u>	Vac Truck ( Hrs.) @	
	Tax <u>44.58</u>		Tax

A Finance Charge computed at 1 1/4% per month (annual percentage rate of 21%) will be added to balance over 30 days.

Total \$ 1624.08 1624.08

115430

NSCO-1893

No. \_\_\_\_\_  
 Company Geo MAP Date 2-8-91  
 Address \_\_\_\_\_ Cust. Order No. \_\_\_\_\_  
 Well Wint # G 1 Field \_\_\_\_\_  
 County Montgomery State KS  
 Location 2310 FSLK 3630' FEL API # 15-125-01, 026  
 NW NE SW Section 23 Township 32 S Range 15 E

Office: 431-2120  
 Home: 763-2301  
 629 So. Santa Fe Chanute, Kansas 66720

**CHARGES**

GAMMA-RAY NEUTRON LOG ..... 200.00  
 BOND LOG ..... 200.00  
 MILEAGE CHARGES .....  
 BRIDGE PLUGS " @ .....  
 PORTABLE MAST .....  
 PERFORATION 10 HOLES HSC, 400.00  
 EXTRA HOLES 11 @ 10.00 ..... 110.00  
 SHOOT OFF PIPE .....  
 EXTRA RUNS .....  
 EXTRA HOLES @ .....  
 SET-UP CHARGE .....  
 DEPTH CHARGE .....  
 STANDBY TIME .....  
 SALES TAX .....  
 TOTALS 910.00

TYPE OF LOG	G/RAY	BOND PERT.	NEUTRON
Run No. & Well Classification	<u>2-NW</u>	<u>2-NW</u>	<u>2-NW</u>
Date	<u>2-8-91</u>	<u>2-8-91</u>	<u>2-8-91</u>
Present Depth (Log)	<u>1167.8</u>	<u>1162.3</u>	<u>1167.8</u>
Present Depth (Driller)			
Type of Fluid in Hole	<u>Wm</u>	<u>WI</u>	<u>W</u>
Fluid Level	<u>Full</u>	<u>Full</u>	<u>Full</u>
No. of Sacks Cement			
Company			
Resistivity & Temp.			
Max. Recorded Temp.			
O. D. of Down Hole Equip.	<u>1 1/16</u>	<u>2 3/8 1 3/4</u>	<u>1 1/16</u>
Time Constant — Sec's.	<u>4</u>	<u>4</u>	<u>4</u>
Logging Speed Ft./Min.	<u>25</u>	<u>25</u>	<u>25</u>
Sensitivity:			
Bottom of Logged Interval	<u>1161</u>	<u>1158</u>	<u>1166</u>
Top of Logged Interval	<u>20</u>	<u>10</u>	<u>20</u>
Feet Recorded	<u>1141</u>	<u>1148</u>	<u>1146</u>

BILLING  
 Bill To: \_\_\_\_\_  
 Address Jan  
 Company \_\_\_\_\_  
 PERFORATION DATA HSC  
 Type and Size 3/8 Owe p.m.t.  
 Spacing 4 ft Total Holes 21  
21 Holes From 951.5 To 956.5  
 Holes From \_\_\_\_\_ To \_\_\_\_\_  
 Holes From \_\_\_\_\_ To \_\_\_\_\_  
 Holes From \_\_\_\_\_ To \_\_\_\_\_  
 Holes From \_\_\_\_\_ To \_\_\_\_\_  
 Holes From \_\_\_\_\_ To \_\_\_\_\_

PRINT DISTRIBUTION  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Qty. 12  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Qty. \_\_\_\_\_  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 Qty. \_\_\_\_\_

Log Meas. From GL Elev. 810  
 Drlg. Meas. From \_\_\_\_\_ Elev. \_\_\_\_\_  
 Perm. Datum \_\_\_\_\_ Elev. \_\_\_\_\_  
 Recorded By: Dettweiler Witnessed By: M Larsh

CASING RECORD

Run No.	Size, In.	Wt., Lbs.	Interval
	<u>4 1/2</u>		<u>6 To TD</u>
			To _____

Remarks:  
 \_\_\_\_\_  
 \_\_\_\_\_  
Thank you

Ck. No. \_\_\_\_\_ Discount \$ \_\_\_\_\_  
 Paid on Loc. \_\_\_\_\_  
 I certify that the services ordered have been completed and that the estimated charges, subject to correction by the invoicing department are as shown above.  
 By: Bills Dettweiler  
 ADAMS JETWELL SERVICE, INC.

TO: ADAMS JETWELL SERVICE, INC. Chanute, Kansas:  
 The above requested services have been performed and are hereby accepted and approved for payment in accordance with the terms and conditions of your current price schedule. If signed by an agent in behalf of the undersigned customer, said agent represents that he has full authority to sign for his principal.  
 Customer: \_\_\_\_\_  
 By: \_\_\_\_\_  
 Customer's Authorized Rep.