



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1204606
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that 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.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1204606

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems 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 test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ 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: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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#2 Hess 21C

2200' FSL & 1625' FWL

110' S & 25' W of NW NE SW Section 21-13S-31W

Gove County, Kansas

API# 15-063-22178-0000

Elevation: 2873' GL, 2881' KB

Sample Tops			Ref. Well
Anhydrite	2368'	-513	+2
B/Anhydrite	2394'	+487	-1
Heebner	3885'	-1004	+3
Toronto	3912'	-1031	+2
Lansing	3928'	-1047	+3
Muncie Shale	4074'	-1193	+1
Stark	4162'	-1281	+2
Hush	4195'	-1314	+1
BKC	4227'	-1346	+2
Marmaton	4263'	-1382	+2
Altamont	4295'	-1414	-2
Pawnee	4360'	-1479	-1
Myrick	4394'	-1513	+2
Fort Scott	4412'	-1531	+4
Cherokee	4438'	-1557	+3
Johnson	4480'	-1599	+3
Morrow	4508'	-1627	+9
Mississippian	4516'	-1635	+8
RTD	4670'	-1789	

ALLIED OIL & GAS SERVICES, LLC. 062550

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT
Oakley, KS

DATE <u>2-19-14</u>	SEC. <u>21</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>1113am</u>	JOB START <u>12:00pm</u>	JOB FINISH <u>1:05pm</u>
LEASE <u>Hess 212</u>	WELL # <u>2</u>	LOCATION <u>Oakley, KS, SE, 45,</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NBW (Circle one)			<u>3/4 ED, info</u>				

CONTRACTOR Discovery #1 OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 2301 CEMENT AMOUNT ORDERED 165 skocem 3% CC

CASING SIZE 8 7/8 DEPTH 230.31' AMOUNT ORDERED 240 gal

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 151

PERFS.

DISPLACEMENT 13.76 bbl

EQUIPMENT

PUMP TRUCK CEMENTER LaRone G. Wentz

431 HELPER Andreo Forslund

BULK TRUCK DRIVER Talon Jones

376/306 DRIVER

BULK TRUCK DRIVER

DRIVER

REMARKS:

Mix 165 sks cement
Displace with water
Cement did circulate

Thank you

CHARGE TO: Rite Live Exploration
STREET _____
CITY _____ STATE _____ ZIP _____

COMMON 165 sks @ 12.70 2953.50
POZMIX @ _____
GEL 3 sks @ 23.40 70.20
CHLORIDE 6 sks @ 64.00 384.00
ASC @ _____

HANDLING 178.42 sks @ 2.48 442.48
MILEAGE 8.15/mi x 21 x 2.60 444.99

TOTAL 4297.57

SERVICE

DEPTH OF JOB 230.31'

PUMP TRUCK CHARGE 1512.25

EXTRA FOOTAGE @ _____

MILEAGE 21 @ 2.70 76.70

MANIFOLD @ 4.90 225.00

21 @ 4.90 92.40

TOTAL 2041.35

PLUG & FLOAT EQUIPMENT

TOTAL _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) 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 and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE [Signature]

SALES TAX (if Any) _____

TOTAL CHARGES 6,338.92

DISCOUNT 1,394.56 IF PAID IN 30 DAYS

4,944.35 Net.



CONSOLIDATED
Oil Well Services, LLC

266358

TICKET NUMBER 43111
LOCATION Oakley, KS
FOREMAN Dane Reteloff

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8876

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	KS COUNTY
3-3-14	7173	#2 Hess a/c	21	13s	31w	Gove
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Mailing Address			405	Jordan		
CITY			566	Lerney		
STATE				Jake		
ZIP CODE			Supervisor	Fuzzy		

JOB TYPE Production HOLE SIZE 7 7/8 HOLE DEPTH 4672 CASING SIZE & WEIGHT 4.50, 10.50
 CASING DEPTH 4665 DRILL PIPE 4.5 TUBING _____ OTHER _____
 SLURRY WEIGHT 14.2 SLURRY VOL 1.56 WATER gal/sk 6.97 CEMENT LEFT in CASING 21.04
 DISPLACEMENT 73.03 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting on Discovery Rig #1. Rig up pumptruck. Run float equipment
 turbos on 1, 3, 5, 8, 11, 16, 55, 57 Baskets on 10, 55, 70, 89. Port collar
 on 96. Circulate 15 mins. Drop ball. circulate 45 mins. 5 BBL ahead mix mud with 3 BBL
 Plug RT 30 SKS M# 20 SKS. Pump out 5 SKS. shut down. wash pump & lines
 Displace 73 BBLs. Lift pressure ¹¹⁰⁰ psi. Landed plug at ¹¹⁰⁰ psi
 Bleed back to 500 psi shut in. Rig Down

Thanks Dane Fuzzy & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	3175.00	3175.00 ✓
5406	15	MILEAGE	5.25	78.75 ✓
5407a	12.9	Tan Mileage Delivery (min)	1.75	430.00 ✓
1126	275 SKS	OWC	23.70	6517.50 ✓
1137	69	CDI-26	10.20	703.80 ✓
1146	38	CAF-38	10.20	387.60 ✓
1110A	1375	KOLSEAL	.54	770.00 ✓
11446	500 Gal	mudflush	1.00	500.00 ✓
4111	1	4.5 Aft float shoe (w)	359.25	359.25 ✓
4453	1	4.5 latch down plug Assy (I)	290.00	290.00 ✓
4129	8	4.5 Turbolizers (w)	60.00	480.00 ✓
4103	4	4.5 Baskets (w)	275.00	1100.00 ✓
4284	1	4.5 Port Collar (I)	1984.00	1984.00 ✓
1111	100	salt	8.66	1677.50 ✓
			1236 10/10	1677.59 ✓
			3.66	15098.21 ✓
			7.9	930.85 ✓
			SALES TAX	930.85 ✓
			ESTIMATED TOTAL	16029.16 ✓

Rev'n 3737

AUTHORIZATION [Signature] TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

HEADER

WellSight Systems
Scale 1:240 (5"-100') Imperial
Measured Depth Log

Well Name: #2 HESS 21C
Location: sec 21 - Twp 13S - Rge 31W Gove County
License Number: API 15-063-22,178
Spud Date: 19 FEB 2014
Surface Coordinates: 2,200 FSL & 1,625' FWL
Bottom Hole Coordinates: @ 4,670 RTD
Ground Elevation (ft): 2,873 K.B. Elevation (ft): 2,881
Logged Interval (ft): 3,500 To: 4,670 Total Depth (ft): 4,670
Formation: WABASUNEE to MISSISSIPPIAN
Type of Drilling Fluid: CHEMICAL: dispalace @ approximately 3,400
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Ritchie Exploration, Inc. license # 4767
Address: P.O. Box 783188
Wichita, Kansas 67278-3188

GEOLOGIST

Name: Ted Jochems, Jr.
Company: Consulting Geologist
Address: 212 North Market ste 517
Wichita, Kansas 67202

COMMENTS

CONTRACTOR: Discovery Drilling rig #1
MUD: Mud-Co (Red Atkins, Tyler Lang)
DRILL STEM TESTS: Superior Testers
ELECTRIC LOGS: Nabers Services (Jeff Luebbbers)
SURFACE CASING: 8.625" @ MISSISSIPPIAN
PRODUCTION CASING: 4.5" @ MISSISSIPPIAN

DRILL STEM TEST #1

3,348 - 3,970 30 - 45 - 45 - 60 LKC ZONE
COMMENT: one joint of drill collar above tool
ISIP: no blowback
FFP: weak blow built to 1"
FSIP: surface blowback at end of shut-in period
REC: 25' OCM (4% O, 96% DM)
25' total fluid
FP: 41 - 57# / 57-59#
SIP: 1,010 - 1,972#
HP: 1,964 - 1,887#
COMMENT: charts indicate fair permeability.

DRILL STEM TEST #2

3,969 - 4,022 30 - 45 - 45 - 60 LKC D-E-F zones
COMMENT: one joint of drill collar above tool
ISIP: no blowback
FFP: weak surface blowback at end of shut-in period
FSIP: good blow built to BOB
REC: 183' OCWIM (1% O, 79% M, 20% W)
71' very slightly oil spotted SW (100% W)
CHLORIDES: 42,000 ppm recovery (2,400 ppm system)
Rw: 0.2 ohms @ 56 degrees F
FP: 59 - 118# / 120 - 176#
SIP: 1,154 - 1,118#
SIP: 1,996 - 1,924#
BHT: 117 degrees F
COMMENT: shut-in curves indicate very good permeability.

DRILL STEM TEST #3

4,072 - 4,130 30 - 45 - 45 - 60 LKC H&I zones
COMMENT: one joint of drill collar above tool
ISIP: no blow built to 1.5"
FFP: weak blow built to 2"
FSIP: weak surface blowback at end of shut-in period
REC: 28' DM (100% M)
28' total fluid
FP: 56 - 62# / 64 - 71#
SIP: 335 - 333#
BHT: 2,065 - 2,034#
BHT: 121 degrees F
COMMENT: shut-in curves indicate fair permeability

DRILL STEM TEST #4

4,128 - 4,158 30 - 45 - 45 - 60 LKC J zone
COMMENT: one joint of drill collar above tool
ISIP: weak surface blowback
FFP: fair blow built to 7.5"
FSIP: weak surface blowback
COMMENT: tester advises that blowback is probably due to very cold pipe warming downhole
REC: 135' muddy SW (20% M, 80% W)
135' total recovery
CHLORIDES: 32,000 ppm recovery (2,600 ppm system)
Rw: 0.23 ohms @ 55 degrees F
FP: 42 - 75# / 77 - 107#
SIP: 443 - 411#
HP: 2,003 - 1,960#
BHT: 110 degrees F
COMMENT: shut-in curves indicate good permeability

DRILL STEM TEST #5

4,160 - 4,226 30 - 45 - 45 - 60 LKC K & L zones
COMMENT: one joint of drill collar above tool
ISIP: no blowback
FFP: good blow built to BOB
REC: 387' MW w/ SO (25% M, 75% W)
387' total recovery
CHLORIDES: 65,000 ppm recovery (4,200 ppm system)
Rw: 0.133 ohms @ 56 degrees F
FP: 66 - 163# / 167 - 240#
SIP: 742 - 625#
HP: 2,084 - 2,075#
BHT: 113 degrees F
COMMENT: shut-in curves indicate fair to good permeability

DRILL STEM TEST #6

4,380 - 4,473 30 - 45 - 45 - 60 MYROCK STATION - FORT SCOTT - CHEROKEE LIMES
COMMENT: one joint of drill collar above tool
ISIP: weak blow built to 2.75"
FFP: no blowback
FSIP: weak blow built to 4.5"
REC: 50' oily DM (15% O, 85% M)
50' total recovery
FP: 73 - 88# / 82 - 89#
SIP: 965 - 907#
HP: 2,125 - 2,185#
BHT: 119 degrees F
COMMENT: shut-in curves indicate very poor permeability

DRILL STEM TEST #7

4,461 - 4,495 30 - 45 - 45 - 60 JOHNSON zone
COMMENT: one joint of drill collar above tool
ISIP: good blow built to BOB 9 min
FFP: good blow built to BOB / 6 min
FSIP: good blow built to 5" / 60 min
REC: 124' CGMO (10% G, 70% O, 20% M)
83' CGO (5% G, 95% O)
1,085' (100% G) total fluid
GRAVITY: 31 degrees API (corrected)
FP: 51 - 79# / 85 - 124#
SIP: 1,317 - 1,230#
HP: 2,278 - 2,242#
BHT: 117 degrees F
COMMENT: shut-in curves indicate very good permeability, possibly with a second pressure source kicking in halfway through both shut-in periods.

DAILY PENETRATION

Table with columns: DATE, DEPTH, REMARKS. Shows penetration data from 19 FEB 2014 to 02 MAR.

MUD LOG

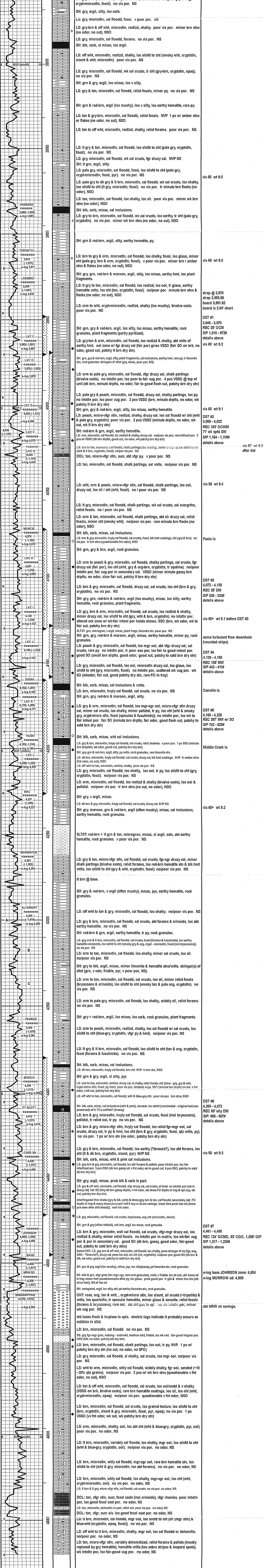
Table with columns: RPT DEPTH, WT, VIS, FIL, pH, PV, YP, GELS, CHLOR, SOLIDS, BTMS UP. Shows mud log data from 2 to 11.

ROCK TYPES

Legend for rock types: Anhy, Bent, Rec, Cht, Clyst, Coal, Congl, Dol, Gyp, Igne, Lmst, Meta, Mst, Salt, Shale, Shcol, Shst, Shst, Sst, Tll.

OTHER SYMBOLS

Legend for other symbols: OIL SHOW, Even, Spotted, Cues, Dead Gas, INTERVAL, Core, Dst, EVENT, Conn, Rft, Sidewall.



RTD 4,670

LTD 4,672
Ritchie Exploration, Inc.
#2 Hess 21C
2,200 FSL & 1,625' FWL
sec 21 - Twp 13S - Rge 31W
Gove County, Kansas
GL 2,873 KB 2,881