

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1  
September 1999  
Form Must Be Typed

**ORIGINAL**

Operator: License # 5682  
 Name: Hughes Drilling Co.  
 Address: 122 N. Main  
 City/State/Zip: Wellsville, Ks. 66092  
 Purchaser: Crude Marketing  
 Operator Contact Person: Carl (Clay) Hughes  
 Phone: (785) 883-2235  
 Contractor: Name: company tools  
 License: \_\_\_\_\_  
 Wellsite Geologist: none  
 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/Re-entry: Old Well Info as follows:  
 Operator: \_\_\_\_\_  
 Well Name: \_\_\_\_\_  
 Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to Enhr./SWD  
 Plug Back     Plug Back Total Depth  
 Commingled    Docket No. \_\_\_\_\_  
 Dual Completion    Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No. \_\_\_\_\_  

<u>6/1/04</u>	<u>6/4/04</u>	<u>8/10/04</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

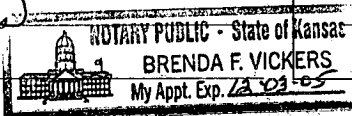
API No. 15 - 059-24,992-00-00  
 County: Franklin  
NE SW NE Sec. 7 Twp. 17 S. R. 21  East  West  
3050 feet from (S) / N (circle one) Line of Section  
2300 feet from (E) / W (circle one) Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 (circle one) NE (SE) NW SW  
 Lease Name: South Hughes Well #: 9  
 Field Name: Paola-Rantoul  
 Producing Formation: Squirrel  
 Elevation: Ground: na Kelly Bushing: \_\_\_\_\_  
 Total Depth: 601 Plug Back Total Depth: 572  
 Amount of Surface Pipe Set and Cemented at 24.8 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from 572  
 feet depth to surface w/ 77 sx cmt.

**Drilling Fluid Management Plan**  
 (Data must be collected from the Reserve Pit) *Ult. # KPR 3/4/08*  
 Chloride content \_\_\_\_\_ ppm Fluid volume \_\_\_\_\_ bbls  
 Dewatering method used \_\_\_\_\_  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: \_\_\_\_\_  
 Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
 Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
 County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**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 of 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: Carl C. Hughes  
 Title: partner Date: 2-24-05  
 Subscribed and sworn to before me this 24th day of February,  
 2005.  
 Notary Public: Brenda F. Vickers  
 Date Commission Expires: 12-03-05



**KCC Office Use ONLY**

\_\_\_\_\_ Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 \_\_\_\_\_ Wireline Log Received  
 \_\_\_\_\_ Geologist Report Received  
 \_\_\_\_\_ UIC Distribution

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Operator Name: Hughes Drilling Co. Lease Name: South Hughes Well #: 9  
 Sec. 7 Twp. 17 S. R. 21  East  West County: Franklin

**INSTRUCTIONS:** Show important tops and base 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. Attach copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  <b>Gamma Ray - Neutron</b>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Hertha</td> <td>247</td> <td>252</td> </tr> <tr> <td>#1 Squirrel</td> <td>531</td> <td>534</td> </tr> </table>	Name	Top	Datum	Hertha	247	252	#1 Squirrel	531	534
Name	Top	Datum								
Hertha	247	252								
#1 Squirrel	531	534								

CASING RECORD <input type="checkbox"/> New <input checked="" 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	7	15	24.8	portland	6	
production	5 1/2	2 7/8	7	572	50/50 poz	77	2 % gel

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	529.5-535.5	fracture-5 sx 20-40, 70 sx 12-20	529.5-535

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
---------------	------	--------	-----------	-------------------------------------------------------------------------------

Date of First, Resumerd Production, SWD or Enhr. <b>8/12/04</b>	Producing Method <input type="checkbox"/> Flowing <input checked="" 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
	1	trace	1/4		30

Disposition of Gas:  Vented  Sold  Used on Lease *(If vented, Submit ACO-18.)*

**METHOD OF COMPLETION**

Open Hole  Perf.  Dually Comp.  Commingled 529.5-535.5

Other (Specify) \_\_\_\_\_

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

CONSOLIDATED OIL WELL SERVICES, INC.  
 211 W. 14TH STREET, CHANUTE, KS 66720  
 620-431-9210 OR 800-467-8676

TICKET NUMBER **29056**  
 LOCATION Ottawa  
 FOREMAN Alan Madu

**TREATMENT REPORT**

DATE <u>6-4-01</u>	CUSTOMER # <u>3425</u>	WELL NAME <u>S Hughes</u>	FORMATION <u>#9</u>
SECTION <u>7</u>	TOWNSHIP <u>17</u>	RANGE <u>21</u>	COUNTY <u>Fr</u>
CUSTOMER <u>Hughes Drilling</u>			
MAILING ADDRESS <u>122 Main</u>			
CITY <u>Wellsville</u>			
STATE <u>KS</u>		ZIP CODE <u>66092</u>	
TIME ARRIVED ON LOCATION			

TRUCK #	DRIVER	TRUCK #	DRIVER
<u>386</u>	<u>A Madu</u>		
<u>164</u>	<u>H Berthle</u>		
<u>144</u>	<u>J Polidore</u>		

WELL DATA	
HOLE SIZE <u>5 1/2</u>	PACKER DEPTH
TOTAL DEPTH <u>601</u>	PERFORATIONS
	SHOTS/FT
CASING SIZE <u>2 7/8</u>	OPEN HOLE
CASING DEPTH <u>572</u>	
CASING WEIGHT	TUBING SIZE
CASING CONDITION	TUBING DEPTH
<u>Pin @ 571</u>	TUBING WEIGHT
	TUBING CONDITION
TREATMENT VIA	

TYPE OF TREATMENT	
<input type="checkbox"/> SURFACE PIPE	<input type="checkbox"/> ACID BREAKDOWN
<input checked="" type="checkbox"/> PRODUCTION CASING	<input type="checkbox"/> ACID STIMULATION
<input type="checkbox"/> SQUEEZE CEMENT	<input type="checkbox"/> ACID SPOTTING
<input type="checkbox"/> PLUG & ABANDON	<input type="checkbox"/> FRAC
<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> FRAC + NITROGEN
<input type="checkbox"/> MISP. PUMP	<input type="checkbox"/>
<input type="checkbox"/> OTHER	<input type="checkbox"/>

PRESSURE LIMITATIONS		
	THEORETICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTION PRIOR TO JOB Mixed pumped 1x gel followed by 5 bbl water.  
Mixed & pumped 79sx 50/100 20% gel. Circulated cement. Flashed pump  
pumped plug top @ 571'. Well held 850 PSI for 30 min MIT  
 AUTHORIZATION TO PROCEED \_\_\_\_\_ TITLE \_\_\_\_\_ DATE Alan Madu

TIME AM / PM	STAGE	BBL'S PUMPED	INJ RATE	PROPPANT PPG	SAND / STAGE	PSI	
							BREAKDOWN PRESSURE
							DISPLACEMENT
						<u>300</u>	MIX PRESSURE
							MIN PRESSURE
						<u>850 PSI</u>	ISIP
						<u>850 PSI</u>	15 MIN <b>RECEIVED</b>
						<u>5 bbl</u>	MAX RATE
							MIN RATE <b>FEB 28 2001</b>
							<b>KCC WICHITA</b>

## TERMS

In consideration of the prices to be charged for our services, equipment and products as set forth in Consolidated Oil Well Services, Inc's (COWS) current Price Schedule, and for the performance of services and supplying of materials; customer agrees to the following terms and conditions.

Terms: Cash in advance unless satisfactory credit is established. On credit sales, invoices payable to P.O. Box 884, Chanute, KS 66720. Invoices payable within 30 days of invoice date. Charges subjected to interest after 30 days from invoice date. Interest will be charged at Maximum rate allowed by law. In the event it is necessary to employ an attorney to enforce collection of such account, customer agrees pay all collection costs and attorney's fees in the amount of 20% of said amount.

Any applicable federal, state or local sales, use, occupation, consumer's or emergency taxes shall be added to the quoted price.

A sales tax reimbursement of 2% is applied to chemical and product charges for all services performed on oil and gas wells in the State of Texas.

All process license fees required to be paid to others will be added to the scheduled prices.

All prices are subject to change without notice.

## SERVICE CONDITIONS

**Customer warrants that the well is in proper condition to receive the services, equipment, products, and materials to be supplied by COWS.**

**"The customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment at the well, and the premises about the well. A responsible representative of the customer shall be present to specify depths, pressures, or materials used for any service which is to be performed."**

(a) COWS shall not be responsible for, and customer shall secure COWS against any liability for damage to property of customer and of the well owner (if different from customer), unless caused by the willful misconduct or gross negligence of COWS, this provision applying to but not limited to sub-surface damage and surface damage arising from subsurface damage.

(b) Customer shall be responsible for and secure COWS against any liability for reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout, unless such loss or damage is caused by the willful misconduct or gross negligence of COWS.

(c) Customer shall be responsible for and secure COWS against any and all liability of whatsoever nature for damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS hereunder.

(d) Customer shall be responsible for and secure COWS against any liability for injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole, unless such damage shall be caused by the willful misconduct or gross negligence of COWS.

(e) COWS makes no guarantee of the effectiveness of the products, supplies or materials, nor of the results of any treatment or services.

(f) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS gross negligence or willful misconduct in the preparation or furnishing of it.

## WARRANTIES - LIMITATION OF LIABILITY

COWS warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OR MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to COWS or, at COWS's option, to the allowance to the customer of credit for the cost of such items. In no event, shall COWS be liable for special, incidental, indirect, punitive or consequential damages.

COWS personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be liable for and CUSTOMER SHALL INDEMNIFY AGAINST ANY DAMAGED ARISING FROM THE USE OF SUCH INFORMATION, even if such is contributed by the COWS negligence or fault.

CO OIL #3210 for Hughes Drilling Co.  
South Hughes  
Well #9

Trendel Lumber Co. Inc.  
1516 S. Main St.  
Please remit to: P.O. Box 76  
Ottawa KS 66067  
85) 242-8144 Fax (785) 242-81

June 01, 2004 011:04 A.M  
Invoice Number: 54966

Stock Number	Description	
Quantiti	Unit Price	Total
PORT 94LB PORTLAND CEMENT		
5.00	\$9.45	\$47.25
Tender-Check \$50.75 Change: 00		
0.00	\$0.00	\$0.00
Tender-Check Check Number: 3210		
0.00	\$0.00	\$0.00
Sub-Total		\$47.25
Sales Tax		\$3.50
Total		\$50.75

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OP - Hughes Drilling Co. #5682  
**HUGHES DRILLING REPORT**

S. 7, T17S, R 21E

3050 FSL

2300 FEL

FORMATION DRILLED

API # 15-059-24992

Well No. # **9** SET IN PIPE PERMANENT CSG. TUBING  
 Size **7"** (Circ.) Size..... Size.....  
 Feet **24.8'** (Cement) Feet..... Feet.....  
 Water Streak @ Cond. **good** Cond..... Cond.....  
 Water Level @ Top Sand T. D. at Completion **601**  
 approved Contractor **HUGHES DRILLING CO.**

STRATA THICKNESS	FORMATION	T.O.
2	Soil	2
14	clay	16
52	shale	68
21	Lime	89
7	shale	96
5	sand	101
17	shale	118
6	Lime	124
28	shale	152
8	Lime	160
21	shale	181
30'	27 Lime	208
7	shale	215
20'	21 Lime	236
4	shale	240
4	Lime	244
3	shale	247
Hertha	5 Lime	252
153	shale	405
8	Lime	413
13	shale	426
6	sand	432
33	shale	465
7	Lime	472
12	shale	484
3	Lime	487
11	shale	498
10	lime	508
3	shale	511
3	Lime	514
1	shale	515
5	Lime	520
8	shale	528
#1	3 Sdy shale	531
29	3 sand	534
33	shale	567
1	Lime	568
8	shale	576
1	lime	577
2	shale	580
3	shale	587

DATE	HOURS OF TOUR	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
		FROM	TO		
	6/1/04	0	2	Soil	① 21.0 - 21.0
		2	16	clay	② 22.5 - 43.5
24'		16	68	shale	③ 22.5 - 66.0
	6/2	68	89	Lime	④ 22.5 - 88.5
(5 1/2' Button new Reed)		89	96	shale	⑤ 22.5 - 111.0
		96	101	Gray sand (Hard 98-101)	⑥ 22.5 - 133.5
		101	118	shale	⑦ 22.5 - 156.0
		118	124	Lime	⑧ 22.5 - 178.5
		124	152	shale	⑨ 22.5 - 201.0
		152	160	Lime	⑩ 22.5 - 223.5
		160	181	shale	⑪ 22.5 - 246.0
30'		181	208	Lime	⑫ Put on Drag Bit
		208	215	shale (slate 209-211)	⑬ 22.5 - 269.5
20'		215	236	Lime	⑭ 22.5 - 292.0
		236	240	shale (slate 238-239)	⑮ 22.5 - 314.5
		240	244	Lime	⑯ 22.5 - 337.0
		244	247	shale	⑰ 22.5 - 359.5
"Hertha"		247	252	Lime	⑱ 22.5 - 382.0
Bit Trip	261	252	405	shale (Bnk 257-261)	⑲ 22.5 - 404.5
Drag Bit		405	413	Lime	⑳ 22.5 - 427.0
		413	426	shale	㉑ 22.5 - 449.5
448'		426	432	Gray sand	㉒ 22.5 - 472.0
6/3		432	465	shale (slate 458-459)	㉓ 22.5 - 494.5
		465	472	Lime	㉔ 22.5 - 517.0
		472	484	shale	㉕ 22.5 - 539.5
		484	487	Lime (Brown)	㉖ 22.5 - 562.0
		487	498	shale (slate 483-489)	

(6/1/04 - sat 24.8' of 7" pipe  
 6 sacks cement circulated to surface)

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# HUGHES DRILLING REPORT

Well No. **#9**      Size.....      Size.....  
 Farm **South Hughes** Feet.....      Feet.....  
 Water Streak @      Cond.....      Cond.....  
 Water Level @      Top Sand .....      T. D. at Completion **601**  
 Approved .....      Contractor **HUGHES DRILLING CO.**  
Superintendent

## FORMATION DRILLED

STRATA THICKNESS	FORMATION DRILLED	T.O.
6	shale	593
6	sd y shale	599
2	shale	601
		TD

DATE	HOURS OF TOUR	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
		FROM	TO		
		498	508	Lime (Broken)	
		508	511	shale	
		511	514	Lime	
		514	515	shale	
		515	520	Lime (Soft Fossil 515-518 Bleeding Oil)	
		520	528	shale	
		528	532	sd y shale	
		532	539	Brown sand (core time pg 3)	
		539	567	shale	
		567	568	Lime	
		568	576	shale	
		576	577	Lime	
		577	580	shale	
		580	587	sd y shale core time pg 4	
		587	593	shale	
		593	599	sd y shale core time pg 4	
		599	601	shale	
				TD	
6/1/64 - Set 572' of 2 7/8" 8rd upset pipe used 3 centralizers Belt in bottom					

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KD. 12'  
 Start core 529  
 25 Jts. on Trailer

Start core 581  
 KD 19  
 23 Jts left

# HUGHES DRILLING CO.

Pg. 3

Wellsville, Kansas 66092

Roger 913-883-2235  
Darrel 913-883-4027

Ron 913-883-4655  
Clay 913-883-4383

CORE TIME  
LEASE S. Hughes #9  
FORMATION #1 Squirrel  
DATE: 6-3-04

(RPM Shave Bit)

FROM	FEET TO	TIME	MINUTES	REMARKS	
528	529	Chip Sample			
① 529	530	10:45:00 - 10:46:00	1:00	dry shale (trace)	
② 530	531	10:46:00 - 10:47:00	1:00		
③ 531	532	10:47:00 - 10:48:00	1:00	Sand very lamin. w/ shale (o.o.)	
④ 532	533	10:48:00 - 10:48:30	:30	Solid Sand (Brown)	
⑤ 533	534	10:48:30 - 10:49:15	:45	bleeding oil <del>MINUTE</del> 532 - 533.5	
⑥ 534	535	10:49:15 - 10:50:30	1:15	Gray Hard Sand - 533.5 - 534 sand very lamin. w/ shale (oil trace)	
⑦ 535	536	10:50:30 - 10:52:00	1:30		
⑧ 536	537	10:52:00 - 10:53:45	1:45		
⑨ 537	538	10:53:45 - 10:55:15	1:30	shale	
⑩ 538	539	10:55:15 - 10:57:15	2:00	sand streak at 538.5 (oil show)	
⑪ 539	540	STOP			
⑫ 540	541			SHALE	
⑬ 541	542				
⑭ 542	543				
⑮ 543	544				
⑯ 544	545				
⑰ 545	546			(Best Perf Zone) 529.5 - 535.5	
⑱ 546	547				
⑲ 547	548				
⑳ 548	549				

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# HUGHES DRILLING CO.

Wellsville, Kansas 66092

Roger 913-883-2235  
Darrel 913-883-4027

### CORE TIME

Ron 913-883-4655  
Clay 913-883-4383

LEASE S. Hughes #9

FORMATION 2<sup>nd</sup> & 3<sup>rd</sup> Squirrel

DATE: 6-3-04

(RPM Shave Bit)

FROM	FEET TO	TIME	MINUTES	REMARKS
580	581	Chip Sample		
① 581	582	2:41:00 - 2:42:00	1:00	Sandy shale Scattered thin strips of sand (oil show)
② 582	583	2:42:00 - 2:43:45	1:45	
③ 583	584	2:43:45 - 2:45:15	1:30 <sup>stop</sup> <sub>add</sub> <sub>joint</sub>	
④ 584	585	2:51:00 - 2:53:15	1:15	
⑤ 585	586	2:53:15 - 2:54:45	1:30	
⑥ 586	587	2:54:45 - 2:56:00	1:15	
⑦ 587	588	2:56:00 - 2:57:45	1:45	SHALE
⑧ 588	589	2:57:45 - 2:59:30	1:45	
⑨ 589	590	2:59:30 - 3:01:00	1:30	
⑩ 590	591	3:01:00 - 3:02:15	1:15	
⑪ 591	592	3:02:15 - 3:03:30	1:15	
⑫ 592	593	3:03:30 - 3:04:30	1:00	
⑬ 593	594	3:04:30 - 3:05:30	1:00	
⑭ 594	595	3:05:30 - 3:06:30	1:00	
⑮ 595	596	3:06:30 - 3:07:45	1:15	
⑯ 596	597	3:07:45 - 3:09:15	1:30	
⑰ 597	598	3:09:15 - 3:10:30	1:15	shale
⑱ 598	599	3:10:30 - 3:11:45	1:15	
⑲ 599	600	3:11:45 - 3:13:45	2:00	
⑳ 600	601	3:13:45 - 3:15:45	2:00	

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