

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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 C. Hughes  
Phone: (785) 883-2235  
Contractor: Name: HUGHES DRILLING CO.  
License: 5682  
Wellsite Geologist: none

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp.  AB  
 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. \_\_\_\_\_

8/15/00 8/17/00 9/18/00  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 091-22,915-0000  
County: JOHNSON  
NE - NE SW NE Sec. 36 Twp. 14 S. R. 21  East  West  
3795 feet from  S / N (circle one) Line of Section  
1630 feet from  E / W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE  SE NW SW  
Lease Name: BRAUN Well #: 15-I  
Field Name: LONGANECKER

Producing Formation: BARTLESVILLE  
Elevation: Ground: na Kelly Bushing: \_\_\_\_\_  
Total Depth: 898 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at 22.45 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If Yes, show depth set \_\_\_\_\_ Feet  
Alternate II completion, cement circulated from 889  
feet depth to surface w/ 119 sx cmt.

KANSAS CORPORATION COMMISSION  
RECEIVED  
WICHITA, KS

DEC 29 2000

CONSERVATION DIVISION  
WICHITA, KS

**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: 12/27/00  
Subscribed and sworn to before me this 27 day of December  
2000  
Notary Public: Kathy Hinderliter  
Date Commission Expires: 8-2-2004

**KCC Office Use ONLY**  
 Letter of Confidentiality Attached  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**NOTARY PUBLIC**  
KATHY HINDERLITER  
My Appt. Exp. 8-2-2004  
STATE OF KANSAS

Operator Name: HUGHES DRILLING CO. Lease Name: BRAUN Well #: 15-I  
 Sec. 36 Twp. 14 S. R. 21  East  West County: JOHNSON

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input checked="" 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	HERTHA	401 407
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	BARTLESVILLE	854 861
List All E. Logs Run:	GAMMA-RAY/NEUTRON		

**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	# Sacjs Used	Type and Percent Additives
SURFACE	9 7/8	7"	15	22.45	portland	5	none
PRODUCTION	5 1/4	2 1/2	7	889	50/50POZ	119	2%gel

**ADDITIONAL CEMENTING / SQUEEZE RECORD**

Purpose	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
Perforate				
Protect Casing				
Plug Back TD				
Plug Off Zone				

**PERFORATION RECORD - Bridge Plugs Set/Type**  
 Specify Footage of Each Interval Perforated

**Acid, Fracture, Shot, Cement Squeeze Record**  
 (Amount and Kind of Material Used)

Shots Per Foot	Footage	Material	Depth
3	852-859	150gal. 15% HCL ACID	852-859

**TUBING RECORD** Size Set At Packer At Liner Run  Yes  No

Date of First Resumard Production, SWD or Enhr. applying for Enhr approval 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** Production Interval

Vented  Sold  Used on Lease  Open Hole  Perf.  Dually Comp.  Commingled  Other (Specify)

*(If vented, Submit ACO-18.)*

ORIGINAL

CONSOLIDATED INDUSTRIAL SERVICES, INC.  
211 W. 14TH STREET, CHANUTE, KS 66720  
316-431-9210 or 800-467-8676

TICKET NUMBER **07360**  
LOCATION *Ottawa, Mo*  
FOREMAN *Jim Green*

TREATMENT REPORT

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
8-17-00	3925	Braun #15-E		36	14	21	30	
CHARGE TO <i>Hughes Drilling Co</i>				OWNER				
MAILING ADDRESS <i>122 Main</i>				OPERATOR <i>Clay Hughes</i>				
CITY <i>Wellsville,</i>				CONTRACTOR <i>Hughes Drilling</i>				
STATE <i>Ks</i>		ZIP CODE <i>66092</i>		DISTANCE TO LOCATION <i>35</i>				
TIME ARRIVED ON LOCATION <i>5:00 PM</i>				TIME LEFT LOCATION <i>6:30 PM</i>				

WELL DATA

HOLE SIZE	<i>5 1/4"</i>
TOTAL DEPTH	<i>897'</i>
CASING SIZE	<i>2 7/8"</i>
CASING DEPTH	<i>889'</i>
CASING WEIGHT	
CASING CONDITION	
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
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"/> MISC PUMP	<input type="checkbox"/> FOAM FRAC
<input type="checkbox"/> OTHER	<input type="checkbox"/> NITROGEN

PRESSURE LIMITATIONS

	THEORITICAL	INSTRUCTED
SURFACE PIPE		
ANNULUS LONG STRING		
TUBING		

INSTRUCTIONS PRIOR TO JOB  
*Cement One Well  
& Perfrom a 30 min MIT on well*

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS *Establish circulation, mix and pump 2 cu Premier gel to flush hole. Flush a 10 bbl pad behind gel. Mix and pump 119 cu 50750 Per mix cement with 27 gal, circulating cement to surface. Flush pump clear of cement. Pump 2 3/8" rubber plug to total depth of casing. Pressure well up to 650\* PSI Held for 30 min MIT Good  
*Jim Green**

PRESSURE SUMMARY

BREAKDOWN or CIRCULATING	psi
FINAL DISPLACEMENT	psi
ANNULUS	psi
MAXIMUM	psi
MINIMUM	psi
AVERAGE	psi
ISIP	psi
5 MIN SIP	psi
15 MIN SIP	psi

TREATMENT RATE

BREAKDOWN BPM	
INITIAL BPM	
FINAL BPM	
MINIMUM BPM	
MAXIMUM BPM	
AVERAGE BPM	
HYD HHP = RATE x PRESSURE x 40.8	

AUTHORIZATION TO PROCEED TITLE DATE

## TERMS

In consideration of the prices to be charged for our services, equipment and products as set forth in Consolidated Industrial Services, Inc's (CIS) 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 to 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 CIS.**

**"The customer shall at all times 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) CIS shall not be responsible for, and customer shall secure CIS 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 CIS, 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 CIS 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 CIS.

- (c) Customer shall be responsible for and secure CIS 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 CIS hereunder.
- (d) Customer shall be responsible for and secure CIS against any liability for injury to or death of persons, other than employees of CIS, 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 CIS.
- (e) CIS 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, CIS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by CIS. CIS personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but customer agrees that CIS shall not be responsible for any damage arising from the use of such information except where due to CIS gross negligence or willfull misconduct in the preparation or furnishing of it.

## WARRANTIES – LIMITATION OF LIABILITY

CIS 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 OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. CIS'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 CIS or, at CIS's option, to the allowance to the customer of credit for the cost of such items. In no event, shall CIS be liable for special, incidental, indirect, punitive or consequential damages.

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

# HUGHES DRILLING REPORT ORIGINAL

3795 FSL  
1630 FEL  
526 T 14 R 21 E  
FORMATION DRILLED  
API 15-091-22915

Hughes Drilling  
SET IN PIPE

PERMANENT CSG.

TUBING

No. 15-I Size 7" Size \_\_\_\_\_ Size \_\_\_\_\_  
 arm BROWN Feet 22.45 Feet \_\_\_\_\_ Feet \_\_\_\_\_  
 Water Streak @ \_\_\_\_\_ Cond. Used Cond. \_\_\_\_\_ Cond. \_\_\_\_\_  
 Water Level @ \_\_\_\_\_ Top Sand \_\_\_\_\_ T.D. at Completion 898  
 Approved \_\_\_\_\_ Contractor HUGHES DRILLING CO.  
 Superintendent \_\_\_\_\_

DATE	HOURS OF TOUR	DRILLED		REMARKS - TYPE WORK - DRILLING LOG	PIPE TALLY
		FROM	TO		
8/15/00		0	2	Soil	(1) 22.0 - 22.0
22	8/16/00	2	21	Clay	(2) 22.5 - 44.5
5 1/2	Bottom	21	48	Shale	(3) 22.5 - 67.0
	Bit	48	51	Lime	(4) 22.5 - 89.5
		51	55	Sandy Shale	(5) 22.5 - 112.9
		55	72	Lime	(6) 22.5 - 134.5
		72	78	Shale	(7) 22.5 - 157.0
		78	88	Lime	(8) 22.5 - 179.5
		88	94	Shale	(9) 22.5 - 202.0
		94	113	Lime	(10) 22.5 - 224.5
		113	124	Shale (Red Bol 118-120)	(11) 22.5 - 247.0
		124	139	Gray Sand	(12) 22.5 - 269.5
		139	163	Lime	(13) 22.5 - 292.0
		163	173	Shale	(14) 22.5 - 314.5
		173	184	Gray sand	(15) 22.5 - 337.0
		184	196	Lime	(16) 22.5 - 359.5
		196	225	Shale	(17) 22.5 - 382.0
		225	235	Lime	(18) 22.5 - 404.5
		235	244	Shale	(19) 22.5 - 427.9
		244	255	Lime	(20) 22.5 - 449.5
		255	271	Shale	(21) 22.5 - 472.0
		271	280	Lime	(22) 22.5 - 494.5
		280	285	Shale	(23) 22.5 - 517.0
		285	294	Lime	(24) 22.5 - 539.5
		294	324	Shale	(25) 22.5 - 562.9
		324	326	Lime	(26) 22.5 - 584.5
		326	335	Shale	(27) 22.5 - 607.0

STRATA THICKNESS	FORMATION DRILLED	T.O.
2	SOIL	2
19	Clay	21
25	Shale	46
5	Lime	51
4	Sandy Shale	55
17	Lime	72
6	Shale	78
10	Lime	88
6	Shale	94
19	Lime	113
11	Shale	124
15	Gray Sand	139
24	Lime	163
10	Shale	173
11	Gray sand	184
12	Lime	196
29	Shale	225
10	Lime	235
9	Shale	244
11	Lime	255
16	Shale	271
9	Lime	280
5	Shale	285
9	Lime	294
30	Shale	324
2	Lime	326
9	Shale	335
27	Lime	362
4	Shale	366
22	Lime	388
4	Shale	392
5	Lime	397
4	Shale	401
6	Lime	407
3	Shale	440
7	Gray sand	447
130	Shale	577
4	Lime	581
18	Shale	599
5	Lime	604
13	Shale	617

T.D. 425'  
K.D. 20' 30 Jts on Trailer

# HUGHES DRILLING REPORT

ORIGINAL

375 FSL  
1630 FEL  
S36 T14 221E  
Pg 2

SET IN PIPE

PERMANENT CSG.

TURNS

FORMATION DRILLED

ASUS: 291-22915

5-I Size \_\_\_\_\_ Feet \_\_\_\_\_  
 Brown Cond. \_\_\_\_\_  
 Water Level @ \_\_\_\_\_ Top Sand \_\_\_\_\_  
 Approved \_\_\_\_\_  
 T.D. at Completion 798  
 HUGHES DRILLING CO.

FORMATION DRILLED	T.D.
5 Lime	622
5 Shale	629
9 Lime	638
5 Shale	643
9 Red Bed	652
5 Shale	657
3 Lime	660
52 Shale	712
1 Lime	713
11 Shale	724
1 Lime	725
15 Shale	736
2 Sand	738
24 Shale	762
2 Lime	764
82 Shale	846
2 Red Bed	848
6 Shale	854
7 Oil Sand	861
6 Shale	867
1 Lime	868
30 Shale	898
	TO

DATE	HOURS OF TOUR	DRILLED		FORMATION	PIPE TALLY
		FROM	TO		
30/		335	362	Lime	(28) 22.5-629.5
		362	366	Shale	(29) 22.5-652.0
20/		366	388	Lime	(30) 22.5-674.5
		388	392	Shale (Slate 389-390)	(31) 22.5-697.0
		392	397	Lime	(32) 22.5-719.5
		397	401	Shale	(33) 22.5-742.0
		401	407	Lime (Hertha)	(34) 22.5-764.5
4/23 3/7		407	440	Shale (Brkn Lime 411-415)	(35) 22.5-787.0
11/27 5/27		440	447	Gray Sand	(36) 22.5-809.5
Drill 8/7		447	527	Shale (Broken Lime 523-527) (Slate 562-568)	(37) 22.5-832.0
4/25		527	581	Lime	(38) 22.5-854.5
8/17		581	599	Shale (Lime 587-588)	(39) 22.5-877.9
		599	604	Lime	
		604	617	Shale	
		617	622	Lime (Brown)	
		622	629	Shale	
		629	638	Lime	
		638	643	Shale	
		643	652	Red Bed	
		652	657	Shale (Lime 659-661)	
		657	660	Lime	
		660	712	Shale	
		712	712	Lime	
		713	724	Shale	
		724	725	Lime	
		725	736	Shale	
2 Squirrel		736	738	Sand (no show)	



# HUGHES DRILLING CO.

ORIGINAL  
Pg. 4

Wellsville, Kansas 66092

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

CORE TIME

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

LEASE BRAUN #15-I

FORMATION BARTLESVILLE

DATE: 8/17/00

(RPM) clay sample

FROM	FEEET TO	TIME	MINUTES	REMARKS
854	855	solid sand (A few strips of sdy line) 854-856		Good Bleeding oil
855	856			
856	857	solid sand (Good Bleeding oil) 856-859		
857	858			
858	859			
859	860	sand lamin. w/shale		(Bleeding Oil)
860	861	sand slightly lamin. w/shale		(Bleeding Oil)
861	862	shale (some thin strips of sand 861-862)		
862	863			
863	864			
<p>Best Perf Zone 854 - 861 ccr</p>				