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FEB 19 2002

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

KCC WICHITA
 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: Hughes Drilling Co.
 License: 5682
 Wellsite Geologist: none
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW 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. _____
4/17/01 4/19/01 6/18/01
 Spud Date or Date Reached TD Completion Date or Recompletion Date
 Recompletion Date

API No. 15 - 059-24,889
 County: Franklin
 SE-NE-SW-NE Sec. 7 Twp. 17 S. R. 21 East West
3500 feet from (S) / N (circle one) Line of Section
1500 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 #: 1
 Field Name: Paola-Rantoul
 Producing Formation: Squirrel
 Elevation: Ground: na Kelly Bushing: _____
 Total Depth: 680 Plug Back Total Depth: 666
 Amount of Surface Pipe Set and Cemented at 21.5 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set: _____ Feet
 If Alternate II completion, cement circulated from 666
 feet depth to surface w/ 85 sx cmt.

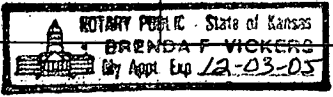
Drilling Fluid Management Plan Oct. II RGR 1/4/08
 (Data must be collected from the Reserve Pit)
 Chloride content _____ ppm Fluid volume _____ bbls
 Dewatering method used _____
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License No.: _____
 Quarter _____ 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: 2/13/02
 Subscribed and sworn to before me this 13th day of February,
2002
 Notary Public: Brenda F. Vickers
 Date Commission Expires: Dec. 03, 2005

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



X

Operator Name: Hughes Drilling Co. Lease Name: South Hughes Well #: 1

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 Yes No
(Attach Additional Sheets)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
(Submit Copy)

List All E. Logs Run:
Gamma-Ray Neutron

Log Formation (Top), Depth and Datum Sample

Name Top Datum

Hertha 302-307

#1 Squirrel 583-588

#2 Squirrel 630-635

(core details attached)
(drillers log 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	# Sacjs Used	Type and Percent Additives
surface	9 7/8	6 1/4	15	21.5	portland	5	none
production	5 1/4	2 1/2	7	666	50/50poz	85	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	630-636	fracture-5sx 20/40 sand	
		45sx 12/20 sand	

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.	Producing Method
6/19/01	<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	2		33

Disposition of Gas (trace) **METHOD OF COMPLETION** Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled 630-636
(If vented, Sumit ACO-18.) Other (Specify)

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FEB 19 2002

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

KCC WICHITA

TICKET NUMBER 14296

LOCATION *Delaware, KS*

TREATMENT REPORT

FOREMAN *Jim Lavin*

DATE	CUSTOMER ACCT #	WELL NAME	QTR/QTR	SECTION	TWP	RGE	COUNTY	FORMATION
4-19-01	3425	<i>Shaker #1</i>		7	17	27	ER	
CHARGE TO <i>Hughes Drilling</i>				OWNER				
MAILING ADDRESS <i>122 Main</i>				OPERATOR				
CITY <i>Wellsville</i>				CONTRACTOR <i>Hughes Drilling</i>				
STATE <i>Ks</i> ZIP CODE <i>66092</i>				DISTANCE TO LOCATION <i>15</i>				
TIME ARRIVED ON LOCATION <i>6:00 PM</i>				TIME LEFT LOCATION <i>7:00 PM</i>				

WELL DATA	
HOLE SIZE	<i>5 7/8"</i>
TOTAL DEPTH	<i>680'</i>
CASING SIZE	<i>2 3/8"</i>
CASING DEPTH	<i>665'</i>
CASING WEIGHT	
CASING CONDITION	
TUBING SIZE	
TUBING DEPTH	
TUBING WEIGHT	
TUBING CONDITION	
PACKER DEPTH	
PERFORATIONS	
SHOTS/FT	
OPEN HOLE	
TREATMENT VIA	
INSTRUCTIONS PRIOR TO JOB	

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		
SURFACE PIPE	THEORETICAL	INSTRUCTED
ANNULUS LONG STRING		
TUBING		

Cement One Well

JOB SUMMARY

DESCRIPTION OF JOB EVENTS *Establish circulation, mix and pump 15 bags to flush hole. Followed with mix and pump 85 cu yds 90% port cement 2 3/8" rubber plug to total depth of casing. Circulating cement to surface. Pressure well up to 700' RTZ held good, close valve in*

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

HUGHES DRILLING REPORT

ORIGINAL

2p. - Hughes Drilling Co

SET IN PIPE

PERMANENT CSG.

TUBING

Well No. #1 Size 6 1/4 (5 SX) Size _____ Size _____
 Farm South Hughes Feet 21.50 (Cement Circ. To Surface) Feet _____ Feet _____
 Water Streak @ _____ Cond. good Cond. _____ Cond. _____
 Water Level @ _____ Top Sand _____ T. D. at Completion 680'
 Approved _____ Contractor **HUGHES DRILLING CO.**
 Superintendent _____

S. 7th T 17 N 21 E
 3500 FSL
 1500 FEL
 FORMATION DRILLED
 API 15-059-24 889

STRATA THICKNESS	FORMATION DRILLED	T.O.
2	Soil	2
5	Clay	7
13	Lime	20
27	shale	47
4	G sand	51
65	shale	116
19	Lime	135
6	shale	141
8	sand	149
13	shale	162
4	Lime	166
47	shale	213
4	Lime	217
19	shale	236
30'	26 Lime	262
6	shale	268
20'	22 Lime	290
4	shale	294
4	Lime	298
4	shale	302
Hertha	5 Lime	307
152	shale	459
9	Lime	468
50	shale	518
8	Lime	526
12	shale	538
3	Lime	541
11	shale	552
5	Lime	557
9	shale	566
2	Lime	568
2	shale	570
5	Lime	575
8	shale	583
Squigg	5 sand	588
32	shale	621
1	Lime	622
7	shale	629
1	Lime	630
#2	5 oil sand	635
14	shale	649

DATE	HOURS OF TOUR	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
		FROM	TO		
1/17/01		0	2	Soil	22.0 - 22.0
		2	7	Clay	22.5 - 44.5
21		7	20	Lime	22.5 - 67.0
4/18/01		20	47	shale (Gray sand 22-25)	22.5 - 89.5
5/4	afternoon	47	51	Gray sand	22.8 - 112.0
		51	116	shale (Black shale 53-54)	22.5 - 134.5
		116	135	Lime	22.5 - 157.0
		135	141	shale	22.5 - 179.5
		141	149	Gray sand (Hard)	22.5 - 202.0
		149	162	shale	22.5 - 224.5
		162	166	Lime	22.5 - 247.0
		166	213	shale	22.5 - 269.5
		213	217	Lime	22.5 - 292.0
		217	236	shale	22.5 - 314.5
30'		236	262	Lime	22.5 - 337.0
		262	268	shale (slate 266-268)	22.5 - 359.5
20'		268	290	Lime	22.5 - 382.0
		290	294	shale	22.5 - 404.5
		294	298	Lime	22.5 - 427.0
		298	302	shale	22.5 - 449.5
Hertha		302	307	Lime	22.5 - 472.0
3:17 to 3:19		307	459	shale (Brk 312-314)	22.5 - 494.5
Drag 3:1		459	468	Lime	22.5 - 517.0
		468	518	shale (sdy 480-486)	22.5 - 539.5
		518	526	Lime	22.5 - 562.0
		526	538	shale	22.5 - 584.5
		538	541	Lime (Brown, Hard)	22.5 - 607.0

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KCC WICHITA

HUGHES DRILLING REPORT

ORIGINAL 1 Pg. 2

Well No. #1 Size
 Location South Hughes Feet
 Water Streak @ Cond.
 Water Level @ Top Sand
 Approved
 Superintendent

PERMANENT CSG. TUBING
 Size
 Feet
 Cond.
 T. D. at Completion 680'
 Contractor HUGHES DRILLING CO.

FORMATION DRILLED

STRATA THICKNESS	FORMATION DRILLED	T.D.
3	Sand	652
23	shale	675
2	Lime	677
3	shale	680
		TO

DATE	HOURS OF TOUR	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
		FROM	TO		
		541	552	Shale	(28) 22.5-629.5
		552	557	Lime (Broken)	(29) 22.5-652.0
		557	566	shale	(30) 22.5-674.5
		566	568	Lime	
		568	570	shale	
		570	575	Lime Soft, Fossil (Good Bleeding oil) (Hard)	(570-573) (574-577)
		575	583	shale	
2/23	Squid	583	588	sand (conc. remarks pg. 3)	
1/19		588	621	shale	RECEIVED
		621	622	Lime	FEB 19 2002
		622	629	shale	KGG WICHITA
		629	630	Lime	
#2	Squid	630	635	Oil sand (core time pg. 4)	
		635	649	shale	
#3	Squid	649	652	sand (Core Time pg. 4)	
		652	675	shale	
		675	677	Lime	
		677	680	shale	
				TO	
4/19/01				Set 666.75' of 2 1/2" 8rd upset pipe used 3 centralizers Ball in bottom	

START CORE - 586
 Kelly Down 1'
 JTS Left

Start core - 631
 Kelly Down 1'
 20 JTS Left

HUGHES DRILLING CO.

Pg. 3

Wellsville, Kansas 66092

ORIGINAL

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

CORE TIME

LEASE South Hughes #1

FORMATION #1 Squirrel

DATE: 4/18/01

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

(~~Shave~~ Shave Bit)

FROM	FEEET TO	TIME	MINUTES	REMARKS
583	584	Chip Sample	-	Very lamin. w/shale (Some Bleeding Oil)
584	585	Chip	-	} Sand lamin. w/shale Bleeding Oil
585	586	Chip	-	
① 586	587	4:30:00 - 4:32:00	1:00	
② 587	588	4:32:00 - 4:33:15	1:15	} Very lamin. w/shale (Little Bleeding Oil)
③ 588	589	4:33:15 - 4:34:30	1:15	
④ 589	590	4:34:30 - 4:35:45	1:15	} SHALE
⑤ 590	591	4:35:45 - 4:37:15	1:30	
⑥ 591	592	4:37:15 - 4:39:00	1:45	
⑦ 592	593	4:39:00 - 4:40:30	1:30	
⑧ 593	594	4:40:30 - 4:42:00	1:30	
⑨ 594	595	4:42:00 - 4:43:45	1:45	
⑩ 595	596	4:43:45 - 4:45:30	1:45	
⑪ 596	597	4:45:30 - 4:47:00	1:30	
⑫ 597	598	4:47:00 - 4:48:45	1:45	
⑬ 598	599	4:48:45 - 4:50:45	2:00	
⑭ 599	600	4:50:45 - 4:52:15	1:30	
⑮ 600	601	4:52:15 - 4:53:45	1:30	
⑯ 601	602	4:53:45 - 4:55:30	1:45	
⑰ 602	603	4:55:30 - 4:57:00	1:30	
⑱ 603	604			
⑲ 604	605			
⑳ 605	606			

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KCC WICHITA

HUGHES DRILLING CO.

Wellsville, Kansas 66092

ORIGINAL

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

CORE TIME RECEIVED

FEB 19 2002

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

LEASE S. Hughes #1

FORMATION # 2 Squirrel

DATE: 4/19/01

KCC WICHITA

(RPM Shave Bit)

FROM	FEET TO	TIME	MINUTES	REMARKS
629	630	chip sample		- Lime
630	631	chip sample		- sand lamin w/shale (bleeding oil)
① 631	632	10:45:00 - 10:45:45	:45	} solid sand (bleeding oil)
② 632	633	10:45:45 - 10:46:15	:30	
③ 633	634	10:46:15 - 10:46:45	:30	
④ 634	635	10:46:45 - 10:47:30	:45	
⑤ 635	636	10:47:30 - 10:48:45	1:15	} Best perf zone 630-635 shale
⑥ 636	637	10:48:45 - 10:50:00	1:15	
⑦ 637	638	10:50:00 - 10:51:45	1:45	
⑧ 638	639	10:51:45 - 10:53:15	1:30	
⑨ 639	640	10:53:15 - 10:55:00	1:45	
⑩ 640	641	10:55:00 - 10:56:30	1:30	
⑪ 641	642	10:56:30 - 10:58:15	1:45	
⑫ 642	643	10:58:15 - 11:00:00	1:45	
⑬ 643	644	11:00:00 - 11:01:45	1:45	
⑭ 644	645	11:01:45 - 11:03:30	1:45	
⑮ 645	646	11:03:30 - 11:05:15	1:45	} Perfed 630-636 6/8/01 gun - 3 per ft midwest survey
⑯ 646	647	11:05:15 - 11:07:00	1:45	
⑰ 647	648	11:07:00 - 11:09:15	2:15	
⑱ 648	649	11:09:15 - 11:10:45	1:30	
⑲ 649	650	11:10:45 - 11:11:45	1:00	} sand very lamin w/shale Some bleeding oil
⑳ 650	651	11:11:45 - 11:13:00	1:15	

651 652 chip

652 653 chip

shale