

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 30555

Name: John Herrick

Address 1: 3553 Oregon

Address 2: _____

City: Ottawa State: KS Zip: 66067 + _____

Contact Person: John Herrick

Phone: (785) 242 6423

CONTRACTOR: License # 5682

Name: Hughes Drilling

Wellsite Geologist: none

Purchaser: Pacer Energy

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- 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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

9/30/10 10/1/10 10/8/10
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date Recompletion Date

API No. 15 - 121 28807 0000

Spot Description: NE/4 NW/4 SW/4 of NE/4

NE NW SW NE Sec. 30 Twp. 17 S. R. 22 East West

3795 Feet from North / South Line of Section

2000 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Miami

Lease Name: Low Well #: 23

Field Name: Paola-Rantoul

Producing Formation: Squirrel & Peru

Elevation: Ground: n/a Kelly Bushing: n/a

Total Depth: 545 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 20 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: 530

feet depth to: Ø w/ 133 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: n/a ppm Fluid volume: n/a 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 #: _____

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.

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.

Signature: 

Title: Partner Date: 12/20/10

KCC Office Use ONLY

Letter of Confidentiality Received

Date: _____

Confidential Release Date: _____

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: D/S Date: 12/29/10

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10-27-10
KCC WICHITA
12/29/10

Operator Name: John Herrick Lease Name: Low Well #: 23
 Sec. 30 Twp. 17 S. R. 22 East West County: Miami

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 complete copy of all Electric Wire-line 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

Electric Log Submitted Electronically Yes No
 (If no, Submit Copy)

List All E. Logs Run:

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
Base of Hertha	189	
Peru Sand	324-346	
Squirrel Sand	487-497	
TD	545	

gamma ray/neutron

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	8/5"	8"		20 ft.	portland	5 sacks	
Production	5 5/8	2 7/8"		530	50/50 poz	133 sacks	

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
2	488-497	spot acid pn perforations and	
2	323-330 & 338-345	fracked each zone with 35 sacks	
		of sand and gelled water	

TUBING RECORD:	Size: <u>1"</u>	Set At: <u>516</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR:	Producing Method:			
<u>12-10-10</u>	<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 Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio Gravity
	<u>1</u>		<u>0</u>	<u>28</u>

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
<input type="checkbox"/> Vented ; <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	<input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	<u>488-497, 323-330, 338-345</u>



PO Box 584, Chanute, KS 66720
620-431-9210 or 800-467-8676

TICKET NUMBER 27173
LOCATION Ottawa
FOREMAN Alan Maden

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-1-10	3554	LOWE 23	NE 30	17	22	DDM
CUSTOMER <u>John Herrick</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>3553 Oregon Rd</u>			<u>516</u>	<u>Alan M</u>	<u>Safety Meeting</u>	
CITY <u>Ottawa</u>			<u>495</u>	<u>Casey</u>	<u>CF</u>	
STATE <u>KS</u>	ZIP CODE <u>66067</u>		<u>369</u>	<u>Harold B</u>	<u>H5B</u>	
			<u>510</u>	<u>Derek M</u>	<u>DM</u>	

JOB TYPE long string HOLE SIZE 5 7/8 HOLE DEPTH 545 CASING SIZE & WEIGHT 2 3/8 Dnd
 CASING DEPTH 530 DRILL PIPE _____ TUBING _____ OTHER pin @ 52k
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING yes
 DISPLACEMENT 366t DISPLACEMENT PSI 700 MIX PSI 200 RATE 4 bpm

REMARKS: Held crew meeting. Checked well depth. Mixed & pumped 100 # gel to flush hole. Mixed & pumped 133 sk 50150 p02 27 gal. Circulated cement. Flushed pump. Pumped plug to pin @ 52k. Well held 700 PSI. Closed valve.

Hughes Drilling

Alan Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		925.00
5406	20	MILEAGE		73.00
5402	530	casing footage		
5407	1/2 min	ten miles		157.50
5502C	1 1/2	80 gal		150.00
1118.B	323 #	gel		64.60
1124	1.30 sk	50150 p02		1279.20
4402	1	2 1/2 plug		23.00
		WO# 257085		

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Ravin 3737
AUTHORIZATION [Signature] TITLE _____ DATE _____
SALES TAX 163.27
ESTIMATED TOTAL 2275.50

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.

HUGHES DRILLING REPORT

Sec 30, Twp 17, Rng 22

M Co., Kansas

3795 FSL 7000 FEL

API # 15-121-28807

Well No. 23 Size 8"
 Farm Lowe Feet 20'
 Circulated 5 sx cement

PERMANENT CSG.
 Size 2 7/8 8rd EUE
 Feet 530.05 (80ft at 526)

OPERATOR John Herrick

T. D. at Completion 545
 Contractor HUGHES DRILLING CO.

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
30/10	0	4	Soil + Clay	(1) 21.5 - 21.5
	10 7/8	4	Lime	(2) 22.5 - 44.0
20'	12	44	shale	(3) 22.5 - 66.5
5 5/8" POC	44	46	lime	(4) 22.5 - 89.0
21/10	46	87	shale	(5) 22.5 - 111.5
	87	103	lime	(6) 22.5 - 134.0
	103	112	shale	(7) 22.5 - 156.5
30	112	138	lime	(8) 22.5 - 179.0
	138	145	shale (slate 143-144)	(9) 22.5 - 201.5
20'	145	171	lime	(10) 22.5 - 224.0
	171	177	shale (slate 176-177)	(11) 22.5 - 246.5
	177	180	lime	(12) 22.5 - 269.0
	180	182	shale	(13) 22.5 - 291.5
"Herrick"	182	189	lime	(14) 22.5 - 314.0
	189	218	shale (Bank 192-195)	(15) 22.5 - 336.5
	218	229	sand ("Knobtown") (gas odor)	(16) 22.5 - 359.0
	229	319	shale (slate 317-318)	(17) 22.5 - 381.5
	319	323	Red Bed	(18) 22.5 - 404.0
	323	324	shale (sdy) (oil show)	(19) 22.5 - 426.5
	324	336	sand	(20) 22.5 - 449.0
"Peru"	336	339	shale } remarks on 3	(21) 22.5 - 471.5
				(22) 22.5 - 494.0
				(23) 22.5 - 516.5
				(24) 22.5 - 539.0
	408	408	shale	
	408	416	lime	
	416	427	shale	
	427	430	lime (Brown)	

STRATA THICKNESS	FORMATION DRILLED	T.D.
4	Soil	4
8	Lime	12
32	shale	44
2	lime	46
41	shale	87
16	lime	103
9	swale	102
30	lime	138
7	shale	145
20	lime	171
6	shale	177
3	lime	180
2	shale	182
Herrick 7	lime	189
29	shale	218
11	sand	229
90	shale	319
4	Red Bed	323
1	shale	324
12	sand	336
Peru 3	shale	339
7	sand	346
17	lime	363
45	shale	408
8	lime	416
11	shale	427
3	lime	430
13	shale	443
7	lime	450
9	shale	459
4	Red bed	463
5	shale	468
4	lime	472
4	shale	476
5	lime	481
6	shale	487
10	sand	497
48	shale	545
		T.D.

Drillers - Isaac Burbank
 Eric Schulz

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HUGHES DRILLING CO.

(Pg. 3)

Wellsville, Kansas 66092

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

CORE TIME

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

LEASE Lowe #23

FORMATION Peru

DATE: 10/1/12

(REM Chip Sample)

FROM	FEET TO	TIME	MINUTES	REMARKS
323	324	}		sand very lamin. w/shale (some Bleeding)
324	325			
325	326			
326	327	}		solid sand (Bleeding)
327	328			
328	329	}		sand very lamin. w/shale (Little Bleeding)
329	330			
330	331			
331	332	}		Sand lamin. w/shale (Bleeding)
332	333			
333	334			
334	335			
335	336	}		shale
336	337			
337	338			
338	339	}		Solid sand (Bleeding)
339	340			
340	341			
341	342	}		Sandy lime
342	343			
343	344	}		solid sand (Good Bleeding)
344	345			
345	346	}		sdy Lime (Oil Trace)
346	347			
346	347			Lime

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