

Operator Name: John Herrick Lease Name: Brown Well #: 14
 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 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: <p style="text-align: center;">gamma ray/neutron</p>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum Base of Hertha 197 Peru Sand 332-353 Squirrel Sand 496-502 TD 580
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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"	7"		20.65	portland	8	
production	5 5/8	2 7/8		565	50/50 poz	87	

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 <i>(Amount and Kind of Material Used)</i>	Depth
2	496-503	spot acid on perfs and frac	
	332-346	with 30 sacks and gelled water	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1"						
Date of First, Resumerd Production, SWD or Enhr.		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	
	2		0		27	

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

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____

Production Interval: _____

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TICKET NUMBER 20194
 LOCATION Ottawa KS
 FOREMAN Fred Mader

PO Box 884, Chanute, KS 66720
 (20-431-9210 or 800-467-8676)

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9/29/09	3554	Brown #14	NE 30	17	22	MI
CUSTOMER John Herrick			TRUCK #			
MAILING ADDRESS 3553 Oregon Rd			DRIVER			
CITY Ottawa, KS			TRUCK #			
STATE KS			DRIVER			
ZIP CODE 66067			TRUCK #			
			DRIVER			

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 580' CASING SIZE & WEIGHT 2 1/2" EVE
 CASING DEPTH 565' DRILL PIPE Pin @ TUBING 560' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 2 1/2" Plug
 DISPLACEMENT 3 1/4 BBL DISPLACEMENT PSI _____ MIX PSI _____ RATE 5BPM

REMARKS: Establish circulation. Mix + Pump 100# Premium Gel
Flush. Mix + Pump 27 sks 50/50 Por Mix Cement 2 1/2"
Gel. Flush pump + lines clean. Displace 2 1/2" Rubber
Plug to casing Pin w/ 3 1/4 BBL Fresh Water. Pressure
to 500# PSI. Shut in Casing

Hughes Drilling Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE Cement Pump		870 ⁰⁰
5406	20 mi	MILEAGE Pump Truck		69 ⁰⁹
5402	565'	Casing footage		N/C
5407	Minimum	Ton Mileage		296 ⁰⁰
5502C	2 hrs	80 BBL Vac Truck		188 ⁰⁰
1124	85 sks	50/50 Por Mix Cement		786 ²⁵
1118B	246 #	Premium Gel		39 ³⁴
4402	1	2 1/2" Rubber Plug		22 ⁰⁰

WB 231401

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SALES TAX 55.52
 ESTIMATED TOTAL 2326.53

AUTHORIZATION

TITLE _____ DATE _____

Revin 3737

HUGHES DRILLING REPORT

Well No. 14
 Farm Brown
 SURFACE CASING
 Size 7"
 Feet 20.65
 Circulated 8 sx cement

PERMANENT CSG.
 Size 2 7/8" 8rd EUE
 Feet 556.45
Bolt at 554.45
 T. D. at Completion 560
 Contractor HUGHES DRILLING CO.

OPERATOR John Herrick

STRATA THICKNESS	FORMATION DRILLED	T.D.
4	Soil	4
6	Clay	10
10	Lime	20
8	Shale	28
5	Gr Sand	33
15	Shale	48
6	Lime	54
42	Shale	96
16	Lime	112
8	Shale	120
20	Lime	148
8	Shale	156
20	Lime	180
5	Shale	185
3	Lime	188
2	Shale	190
7	Lime	197
23	Shale	220
20	Sandstone	240
6	Shale	300
3	Lime	303
5	Sand	308
19	Shale	327
3	Red Bed	330
1	Shale	331
1	Lime	332
4	BRK	336
2	Lime & Sand	338
1	BRK Sand	339
7	Sdy Shale	346
7	BRK Sand	353
2	Shale	355
19	Lime	374
42	Shale	416
7	Lime	423
11	Shale	434
5	Lime	439
13	Shale	452
7	Lime	459
5	Shale	464
3	Red Bed	467

DATE	DRILLED		REMARKS - TYPE WORK - DRILLING REF.	PIPE TALLY
	FROM	TO		
9/22/09	=	4	Soil	(1) 21.50 - 21.5
	4	10	Clay	(2) 22.5 - 44.0
	10	20	Lime	(3) 22.5 - 66.5
20'	20	28	Shale	(4) 22.5 - 89.0
9/23/09	28	33	Gray Sand (Hard)	(5) 22.5 - 111.5
5 1/8" PVC	33	48	Shale	(6) 22.5 - 134.0
	48	54	Lime	(7) 22.5 - 156.5
	54	96	Shale	(8) 22.5 - 179.0
	96	112	Lime	(9) 22.5 - 201.5
	112	120	Shale	(10) 22.5 - 224.0
30'	120	148	Lime	(11) 22.5 - 246.5
	148	156	Shale (Slate 150-151)	(12) 22.5 - 269.0
20'	156	180	Lime	(13) 22.5 - 291.5
	180	185	Shale (Slate 184-185)	(14) 22.5 - 314.0
	185	188	Lime	(15) 22.5 - 336.5
	188	190	Shale	(16) 22.5 - 359.0
"Herrick"	190	197	Lime	(17) 22.5 - 381.5
	197	220	Shale (Slate 197-198)	(18) 22.5 - 404.0
	220	240	Sand (Kind Town) (Slat - case of)	(19) 22.5 - 426.5
	240	300	Shale	(20) 22.5 - 449.0
	300	303	Lime	(21) 22.5 - 471.5
	303	308	Sand	(22) 22.5 - 494.0
	308	327	Shale	(23) 22.5 - 516.5
	327	330	Red Bed	(24) 22.5 - 539.0
	330	331	Shale	
	331	332	Sandy Lime	
"Peru"	332	336	Broken Sand (Peru) (cone time pg 3)	

9/22/09
 set 20.65 of 7" surface
 pipe circulated 8 sx cement

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HUGHES DRILLING REPORT

SURFACE CASING

PERMANENT CSG.

Well No. 14 Size _____
 Farm Brown Feet _____
 Circulated _____ ex cement

Size 2 7/8" 8rd EUE
 Feet 556.45
 Bolt at 554.45

T. D. at Completion 560'
 Contractor HUGHES DRILLING CO.

OPERATOR _____

STRATA THICKNESS	FORMATION DRILLED	T.D.
9	Shale	476
4	Lime	480
4	Shale	484
4	Lime	488
7	Shale	495
1	Sdy Lime	496
#1 sq. 6	Oil sand	502
58	Shale	560
		TD

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
9/28/09	336	338	Lime & Shale	
	338	339	Bk sand	} core time pg 3
	339	346	Sdy shale	
	346	353	BKN sand	
	353	355	shale	
	355	374	Lime	
	374	416	shale (slate 409-410)	
	416	423	Lime	
	423	434	shale	
	434	439	Lime (Brown)	
	439	452	Shale (slate 439-440)	
	452	459	Lime	
	459	464	shale	
	464	467	Red bed	
	467	476	shale	
	476	480	Lime	
	480	484	shale (slate 483-484)	
	484	488	Lime	
	488	495	shale	
	495	496	Sdy Lime	
9/27	#1 sq. 496	502	Oil sand (core time pg 4)	
9/29		502	560 shale	
			TD	
9/29/09 - Set 556.45' of 2 7/8 8rd EUE pipe				
Bolt at 554.45				
Used 3 centralizers				

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120

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 Brown #14

FORMATION Peru

DATE: 9/28/09

(RPM) 3" Shave Bit

FROM	FEET TO	TIME	MINUTES	REMARKS
		chip sample		
331	332	"	-	sdylime (oil trace)
332	333	"	-	Solid sand (bleeding oil)
① 333	334	12:39-12:39:45	:45	} sand lamin. w/shale (B.O.)
② 334	335	12:40:45	1:00	
③ 335	336	12:44:00 ^{stop}	3:15	} sdylime bleeding oil
④ 336	337	12:48:00 -12:50:00	2:09	
⑤ 337	338	12:51:45	1:45	shale
⑥ 338	339	12:53:00	1:15	sand slightly lamin. w/shale (B.O.)
⑦ 339	340	12:54:30	1:30	}
⑧ 340	341	12:56:30	2:00	
⑨ 341	342	12:59:30	3:00	sdylime + shale
⑩ 342	343	1:00:45	1:15	} A few strips of oil sand
⑪ 343	344	1:02:45	2:00	
⑫ 344	345	1:03:45	1:00	344-344.5 oil sand (B.O.)
⑬ 345	346	1:05:15	1:30	shale
⑭ 346	347	1:10:30	5:15	346-346.7 (oil sand - hard) (B.O.) lime 346.7-347.2
⑮ 347	348	1:12:00	1:30	} sand lamin. w/shale (B.O.)
⑯ 348	349	1:16:30	4:30	
⑰ 349	350	1:17:45	1:15	347.2-352
⑱ 350	351	1:19:30	1:45	(2" of lime at 349)
⑲ 351	352	1:20:45	1:15	} shale 352-352.5 sdylime 352.5-353 (B.O.)
⑳ 352	353	1:25:00	4:15	

353-354 chip sample - shale

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HUGHES DRILLING CO.

Pg. 4

Wellsville, Kansas 66092

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

CORE TIME

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

LEASE Brown #14
FORMATION 1st Squirrel
DATE: 9/29/09

(BPM) 3" Shave Bit

FROM	FEET TO	TIME	MINUTES	REMARKS
495	496	Chip Sample	-	Sdy lime (No oil)
496	497	" "	-	Solid sand (bleeding)
① 497	498	9:38:00-9:38:30	:30	496-497.8
② 498	499	9:39:15	:45	Sdy shale 497.8 - 498.3
③ 499	500	9:40:00	:45	Solid sand 498.3 - 499.8 (B.O.)
④ 500	501	9:40:45	:45	Sand very lamin, w/shale (B.O.)
⑤ 501	502	9:41:30	:45	499.8 - 502
⑥ 502	503	9:42:30	1:00	Shale
⑦ 503	504	9:43:15	:45	Sand lamin w/shale 503 - 503.5 (B.O.)
⑧ 504	505	9:44:15	1:00	Shale
⑨ 505	506	9:45:15	1:00	
⑩ 506	507	9:46:15	1:00	
⑪ 507	508	9:47:15	1:00	
⑫ 508	509	9:48:00	:45	
⑬ 509	510	9:49:00	1:00	
⑭ 510	511	9:50:00	1:00	
⑮ 511	512	9:	-	
⑯ 512	513	STOP		
⑰ 513	514			
⑱ 514	515			
⑲ 515	516			
⑳ 516	517			

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