

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

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

ORIGINAL

OPERATOR: License # 33051
Name: C. D. OIL, Inc.
Address 1: 3236 Virginia Rd
Address 2: _____
City: Wellsville State: Ks Zip: 66092 + _____
Contact Person: Carl (Clay) Hughes
Phone: (913) 963-9127
CONTRACTOR: License # 5682
Name: Hughes Drilling Company
Wellsite Geologist: _____
Purchaser: High Sierra

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SIOW
 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 #: _____
10-31-11 11-2-11 11-10-11
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 045-21,753 - 0000
Spot Description: _____
SE SW NW SE Sec. 13 Twp. 14 S. R. 20 East West
1,595 Feet from North / South Line of Section
2,240 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Douglas
Lease Name: Schultz Well #: HB-3
Field Name: Vinland East
Producing Formation: Squirrel
Elevation: Ground: 923 (estimated) Kelly Bushing: _____
Total Depth: 785' Plug Back Total Depth: 769'
Amount of Surface Pipe Set and Cemented at: 43.5' Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: 769'
feet depth to: surface w/ 112 sx cmt.

Drilling Fluid Management Plan
(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 #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____
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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: Carl C. Hughes
Title: president Date: 3/28/12

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: DJG Date: 4/17/12

Operator Name: C. D. OIL, Inc. Lease Name: Schultz Well #: HB-3
 Sec. 13 Twp. 14 S. R. 20 East West County: Douglas

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 <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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Gamma Ray/Neutron	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum Hertha 410-416 1st Squirrel 709-729
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CASING RECORD <input type="checkbox"/> New <input 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	11"	7"	15#	43.5'	portland	14	
Production	5 5/8"	2 7/8"	7#	773'	50/50 poz	112	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	25 perfs- 711'-717'- 2" DTM RTG	fracture- 5,000#	711-717
3	41 perfs- 719'-729'- 2" DTM RTG		719-729

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. 11/11/11		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. 1	Gas Mcf trace
	Water Bbls. 1	Gas-Oil Ratio 24

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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CONSOLIDATED
Oil Well Services, LLC

TICKET NUMBER **33048**

LOCATION Ottawa KS

FOREMAN Fred Mader

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11/2/11	3645	Schultz # HB-2	SE 13	14	20	DG
CUSTOMER			TRUCK #			
H B Energy LLC			DRIVER			
MAILING ADDRESS			TRUCK #			
3236 Virginia Rd			DRIVER			
CITY			TRUCK #			
Wellsville			DRIVER			
STATE			TRUCK #			
KS			DRIVER			
ZIP CODE			TRUCK #			
66092			DRIVER			

JOB TYPE <u>Longstring</u>	HOLE SIZE <u>5 7/8</u>	HOLE DEPTH <u>785</u>	CASING SIZE & WEIGHT <u>2 7/8 EUE</u>
CASING DEPTH <u>723</u>	DRILL PIPE <u>Pin in</u>	TUBING @ <u>769</u>	OTHER
SLURRY WEIGHT	SLURRY VOL	WATER gal/sk	CEMENT LEFT in CASING <u>Plug + 4'</u>
DISPLACEMENT <u>4.47</u>	DISPLACEMENT PSI	MIX PSI	RATE <u>4 BPM</u>

REMARKS: Establish circulation. Mix + Pump 100# Premium Gel Flush
Mix + Pump - SKs = 50/50 per Mix Cement 2 7/8" Gel - Cement
to Surface. Flush pump + lines clean. Displace 2 1/2" Rubber
Plug to Pin in casing w/ 4.47 BBL Fresh water. Pressure to 600# PSI
Shot in casing

Customer Supplied H2O
Hughes Drilling
Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	975 ⁰⁰
5406	25mi	MILEAGE	495	100 ⁰⁰
5402	723	Casing footage		N/C
5407	Minimum	Ten Miles	510	330 ⁰⁰
1124	112 SKS	50/50 per Mix Cement		1170 ⁴⁰
118B	288#	Premium Gel		5760
4402	1	2 1/2" Rubber Plug		28 ⁰⁰
			7.3%	SALES TAX
				91 ⁶⁸
				ESTIMATED
				TOTAL
				2752 ⁶⁸

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245598

Revin 3737
[Signature]

AUTHORIZATION _____ TITLE _____ DATE _____
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

Well No. **HB-3**
 Farm **Schultz**
 SURFACE CASING
 Size **7" New**
 Feet **43.50**
 Circulated **14** sx cement

PERMANENT CSG.
 Size **2 7/8" 8rd L&E**
 Feet **773' (Baltat 769')**

OWNER
 OPERATOR **HB Energy L.L.C.**
 op. - **CD oil, Inc.**

T. D. at Completion **7.85**
 Contractor **HUGHES DRILLING CO.**

1595 FSL 2240 FEL
 API# 15-045-21753-00-00

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
10/31/11	0	2	Soil	(1) 21.5-21.5
43'	2	35	clay	(2) 22.5-44.0
11-1-11	35	58	Shale	(3) 22.5-66.5
5 7/8"	58	61	Lime	(4) 22.5-89.0
PDC	61	69	Shale	(5) 22.5-111.5
	69	89	Lime	(6) 22.5-134.0
	89	96	Shale	(7) 22.5-156.5
	96	104	Lime	(8) 22.5-179.0
	104	111	Shale	(9) 22.5-201.5
	111	134	Lime	(10) 22.5-224.0
	134	137	Shale	(11) 22.5-246.5
	137	140	Lime	(12) 22.5-269.0
	140	160	Shale	(13) 22.5-291.0
	160	181	Lime (Brk 145-150)	(14) 22.5-314.0
	181	239	Shale	(15) 22.5-338.0
	239	247	Lime	(16) 22.5-359.0
	247	250	Shale	(17) 22.5-381.0
	250	269	Lime	(18) 22.5-404.0
	269	283	Shale	(19) 22.5-428.0
	283	285	Lime	(20) 22.5-449.0
	285	323	Shale (slate 305-306)	(21) 22.5-471.5
	323	330	Lime	(22) 22.5-494.0
	330	344	Shale (Brk 332-334)	(23) 22.5-516.5
30'	344	368	Lime	(24) 22.5-539.0
	368	377	Shale (slate 370-371)	(25) 22.5-561.5
20'	377	400	Lime	(26) 22.5-584.0
	400	404	Shale (slate 401-402)	(27) 22.5-606.5

STRATA THICKNESS	FORMATION DRILLED	T.D.
2	Soil	2
33	clay	35
23	Shale	58
3	Lime	61
8	Shale	69
20	Lime	89
7	Shale	96
8	Lime	104
7	Shale	111
23	Lime	134
3	Shale	137
3	Lime	140
20	Shale	160
21	Lime	181
58	Shale	239
8	Lime	247
3	Shale	250
19	Lime	269
14	Shale	283
12	Lime	285
28	Shale	323
7	Lime	330
14	Shale	344
30'	24 Lime	368
	11 Shale	377
20'	23 Lime	400
	4 Shale	404
	3 Lime	407
	3 Shale	410
"H"	6 Lime	416
	8 Shale	424
	5 Gray Sand	429
	120 Shale	549
	12 Red Red	561
	1 Lime	562
bleeding sand	3 Lt Brown	565
	14 Shale	579
	8 Lime	587
	3 Shale	590
	6 Lime	596
	5 Shale	601

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HUGHES DRILLING REPORT

1595 FSL 2240 FEL
 API # 15-045-21753-00-00

Well No HB-3 Size _____ Size _____
 Farm Schultz Feet _____ Feet _____
 Circulated _____ sx cement

OPERATOR L.P. Oil Inc. T. D. at Completion 785
 Owner H.B. Energy L.L.C. Contractor HUGHES DRILLING CO.

STRATA THICKNESS	FORMATION DRILLED	T.D.
7	Lime	608
16	Shale	624
2	Lime	626
4	Shale	630
5	Lime	635
8	Shale	643
5	Lime	646
21	Shale	667
6	Lime	673
22	Shale	695
9	Lt. Br. sand	704
5	Brk. Sand	709
10	Shale	719
20	oil sand	729
56	shale	785
		TD

DATE	DRILLED		REMARKS - TYPE WORK - BILLING REF.	PIPE TALLY
	FROM	TO		
11/1/11	404	407	Lime	(28) 2.5-629.0
	407	410	Shale	(29) 2.5-651.5
"Hertha"	410	416	Lime	(30) 2.5-674.0
	416	424	Shale (BRK 421-425)	(31) 2.5-696.5
	424	429	Gray Sand	(32) 2.5-719.0
	429	549	Shale	(33) 2.5-741.5
	549	561	Red Bed	(34) 2.5-764.9
	561	562	Lime	
	562	565	Lt brown sand (bleeding oil)	
	565	579	Shale	
	579	587	Lime (BRK 584-587)	
	587	590	Shale	
	590	596	Lime (BRK 593-596)	
	596	601	Shale	
	601	608	Lime	
	608	624	Shale	
	624	626	Lime (Brown)	
	626	630	Shale	
	630	635	Lime	
	635	643	Shale (slate 635) (Gray sand 640-643)	
	643	646	Lime	
	646	667	Shale (Slate 665-667)	
	667	673	Lime	
	673	695	Shale (lamin. w/ Lt. Br. sand 680-695)	
	695	704	Lt. Br. sand	
	704	709	Broken sand	
"Squirrel"	709	729	oil sand (core Time pg 3)	
	729	785	shale (Sd 754-760)	

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11/2/11 - set 773' of 2 7/8" 8rd EUE
 Bolt at 769'
 used 3 centralizers

HUGHES DRILLING CO.

Wellsville, Kansas 66092

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

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

LEASE Schultz HB-3
FORMATION #1 Squirrel
DATE: 11/1/11

(RPM) 3" Shave Bit

FROM FEET	TO	TIME	MINUTES	REMARKS	
704	705	Chip	-	704-709 Sand very lamin w/shale (Bleeding oil)	
705	706	Chip	-		
706	707				
①	707	708	2:31:00 - 2:31:45	:45	709-715 Sand slightly lamin w/sh Good Bleeding (Kind of a watered Type Sand (Tiger sand))
②	708	709	2:32:30	:45	
③	709	710	2:33:00	:30	
④	710	711	2:33:30	:30	
⑤	711	712	2:34:15	:45	
⑥	712	713	2:34:45	:30	Sand lamin w/shale (Bleed sdy shale)
⑦	713	714	2:35:30	:45	
⑧	714	715	2:36:00	:30	
⑨	715	716	2:37:00	1:00	717-717.5 solid sand (Good Bleed)
⑩	716	717	2:37:30	:30	
⑪	717	718	2:38:45 ^{Stop Add TNT}	1:15	sdy shale 717.5-718.5
⑫	718	719	2:44:00 - 2:44:30	:30	
⑬	719	720	2:45:00	:30	Solid Sand (Good Bleed)
⑭	720	721	2:45:30	:30	
⑮	721	722	2:46:00	:30	
⑯	722	723	2:46:30	:30	
⑰	723	724	2:47:00	:30	sdy shale 723.5-724.5
⑱	724	725	2:47:45	:45	
⑲	725	726	2:48:15	:30	Solid Sand (exc Bleed)
⑳	726	727	2:48:45	:30	
727	728	Chip	-	-	
728	729				724.5-729 A few shale streaks 726-727 RECEIVED
729	730				

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Shale
(Best Perf Zone 709-729)
CCH

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