



1250585

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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

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				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

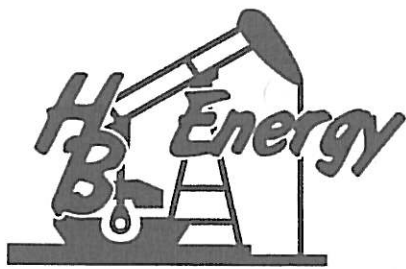
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ 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: <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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Fueling American Prosperity™

Oil and Gas Well Drilling

3137 Virginia Rd, Wellsville KS 66092

Owners: Clay Hughes
Isaac Burbank

Well Log

DE & TZ LLC

Knabe Well #: I-23

Sec. 31 Twp. 14 Rng. 22

FSL: 4090 FEL: 620

API: 15-091-24411

Start: 03/16/15

End: 03/17/15

Phone: (785) 979-9493

(913) 963-9127

Fax: (785) 883-2305

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
24	Soil and Clay	24
1	Lime	25
5	Shale	30
1	Lime	31
36	Shale	67
4	Lime	71
1	Shale	72
17	Lime	89
7	Shale	96
8	Lime	104
7	Shale	111
19	Lime	130
21	Shale	151
14	Lime	165
2	Shale	167
12	Lime	179
36	Shale	215
31	Lime	246
14	Shale	260
9	Lime	269
21	Shale	290
5	Lime	295
2	Shale	297
10	Lime	307
32	Shale	339
1	Lime	340
10	Shale	350
7	Lime	357
3	Shale	360
17	Lime	377
5	Shale	382
24	Lime	406
3	Shale	409

5	Lime	414	
3	Shale	417	
7	Lime	424	Base of Kansas City / Hertha
30	Shale	454	
2	Silty Shale	456	
4	Broken Sand	460	Grey sand & shale, very light gas odor
2	Silty Shale	462	
73	Shale	535	
7	Silty Shale	542	
52	Shale	594	
6	Lime	600	
3	Shale	603	
1	Lime	604	
11	Shale	615	
3	Lime	618	Light oil show
4	Shale	622	
1	Lime	623	
14	Shale	637	
3	Lime	640	
3	Shale	643	
1	Coal	644	
11	Shale	655	
1	Lime	656	
9	Shale	665	
13	Shale	678	Red bed
7	Lime	685	
2	Shale	687	
3	Lime	690	
3	Shale	693	
3	Silty Shale	696	
2	Sand	698	Grey, no odor
2	Silty Shale	700	
35	Shale	735	
1	Lime & Shells	736	
12	Shale	748	
1	Lime & Shells	749	
10	Shale	759	
1	Broken Sand	760	10% brown sand, 90% shale, faint oil odor, no bleed
2	Silty Shale	762	
3	Broken Sand	765	Brown & grey sand, no oil, no gas
8	Silty Shale	773	
11	Shale	784	
1	Coal	785	
4	Shale	789	
3	Lime	792	

30	Shale	822	
4	Silty Shale	826	
13	Shale	839	
5	Silty Shale	844	
16	Shale	860	
1	Coal	861	
23	Shale	884	
3	Lime	887	
2	Lime & Shale	889	
1	Sand	890	White soft sand, no oil
1	Broken Sand	891	80% white sand, 20% black sand, light bleed
2	Oil Sand	893	Black, minimal oil show
3	Broken Sand	896	Black & white sand, minimal oil show
5	Sand	901	Black sand, no oil show
1	Broken Sand	902	Laminated grey & black sand, no show
5	Silty Shale	907	
2	Shale	909	
1	Coal	910	
54	Shale	964	
3	Lime	967	
11	Shale	978	TD

Drilled an 11" hole to 45'

Drilled a 5 5/8" hole to 978'

03/16/15 set 45' of 7" surface casing, cemented with 14 sacks of cement.

03/17/15 chip sampled Bartlesville zone.

03/17/15 set 963' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp, 1 float-shoe, and baffle.

Baffle set at 935'.



CONSOLIDATED
Oil Well Services, LLC

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

FIELD TICKET & TREATMENT REPORT
CEMENT

TICKET NUMBER 50894
LOCATION Ottawa KS
FOREMAN Fred Mader

2456
Invoice # 8037567342

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
3-17-15	2355	Knabe # I-23.23	NE 31	14	22	JO
CUSTOMER			TRUCK # DRIVER TRUCK # DRIVER			
DE+T2 % DE Exploration			712 Fred Mader			
MAILING ADDRESS			495 Blair Bee			
P.O. Box 128			675 Kel Det			
CITY			804 Gar Man			
Wellsville						
STATE						
KS						
ZIP CODE						
66092						

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 978 CASING SIZE & WEIGHT 2 7/8" EUE
CASING DEPTH 9 6/3 DRILL PIPE Baffle in TUBING @ 935 OTHER _____
SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 28' + Plug
DISPLACEMENT 5.4488 DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Hold Safety meeting Establish pump rate. Pump 1/2 Gal HE 100 Polymer
Flush. Circulate well to condition hole. Mix + Pump 100# Gal
Flush. Mix + Pump 136 sks 50/50 for Mix Cement 2% Gal 5% Salt
5# Kol Seal/sk. Cement to Surface. Flush pump + lines clean.
Displace 2 1/2" Rubber plug to baffle in casing. Pressure to 800#
PSI. Release pressure to set float valve. Shut in casing.

Witnessed by Phil Frick
H B Energy Fred Mader

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1495	1085 ⁰⁰
5406	NIC	MILEAGE	495	NIC
5402	963	Casing footage		NIC
5407	Minimum	Ton Miles	368 ⁰⁰	
5502C	1 1/2 hr	80 BBL Vec Truck	675	1500 ⁰⁰
		Less 10%		-160 ⁰⁰
		Sub Total		1442 ⁰⁰
1124	136 sks	50/50 Por Mix Cement	1564 ⁰⁰	
1188	329#	Premium Gel	723 ⁸⁰	
1111	274#	Granulated Salt	106 ⁸⁶	
1110A	680#	Kol Seal	312 ⁸⁰	
		Material	2056 ⁸⁴	
		Less 30%	616 ⁸¹	
		Total		1439 ²³
4402	1	2 1/2" Rubber Plug		29 ⁰⁰
1401	1/2 Gal	HE 100 Polymer		23 ⁵³
		7.375%	SALES TAX	110 ⁰⁶
			ESTIMATED TOTAL	3045 ¹²

Ravin 3737 AUTHORIZATION Buyer Miller TITLE _____ DATE 386272

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.