

DRILLERS LOG

API NO: 15 - 031 - 23756 - 00 - 00

OPERATOR: HARGON ENERGY INC LLC

ADDRESS: 1749 SE 5th LN, P.O. BOX 292, LEROY, KS 66857

WELL #: HI - 10 LEASE NAME: REMER 2

S. 28	T. 22	R. 16	<u>E.</u>	W.
LOCATION: <u>SW NE NW SE</u>				
COUNTY: <u>COFFEY</u>				
ELEV. GR.: <u>1009</u>				
DF: _____ KB: _____				

FOOTAGE LOCATION: 2140 FEET FROM (N) (S) LINE 1965 FEET FROM (E) (W) LINE

CONTRACTOR: FINNEY DRILLING COMPANY GEOLOGIST: HARVEY FRANCIS

SPUD DATE: 12/3/2013 TOTAL DEPTH: 1076 P.B.T.D. _____

DATE COMPLETED: 12/5/2013 OIL PURCHASER: COFFEYVILLE RESOURCES CRUDE TRANSPORTATION

CASING RECORD

REPORT OF ALL STRINGS - SURFACE, INTERMEDIATE, PRODUCTION, ETC.

PURPOSE OF STRING	SIZE HOLE DRILLED	SIZE CASING SET (In O.D.)	WEIGHT LBS/FT	SETTING DEPTH	TYPE CEMENT	SACKS	TYPE AND % ADDITIVES
SURFACE:	12.2500	7	19	40	OWC	61	SERVICE COMPANY
PRODUCTION:	5.8750	2.8750	6.5	1064	OWC	119	SERVICE COMPANY

WELL LOG

CORES: #1 - 1004 - 1019
RECOVERED:
ACTUAL CORING TIME:

- RAN: 1 - FLOAT SHOE
 1 - COLLAR
 1 - SEATING NIPPLE
 3 - CENTRALIZERS
 1 - CLAMP

FORMATION	TOP	BOTTOM
TOP SOIL	0	3
CLAY	3	15
SAND GRAVEL	15	30
LIME	30	32
SHALE	32	204
LIME	204	247
SHALE	247	332
LIME	332	351
SHALE	351	361
LIME	361	363
SHALE	363	366
LIME	366	460
SHALE	460	471
LIME	471	473
SHALE	473	516
LIME	516	574
SHALE	574	578
LIME	578	606
SHALE	606	610
LIME	610	631
SHALE	631	785
LIME	785	790
SHALE	790	806
LIME	806	809
SHALE	809	816
LIME	816	818
SHALE	818	820
LIME	820	825
SHALE	825	837
LIME	837	841
SHALE	841	883
LIME	883	887
SHALE	887	910
LIME	910	914
SHALE	914	930
LIME	930	937
SHALE	937	952
LIME	952	954
SHALE	954	963
LIME	963	968
SHALE	968	1000

FORMATION	TOP	BOTTOM
CAP LIME	1000	1002
SHALE	1002	1003
CAP LIME	1003	1004
OIL SAND	1004	1017
SAND & SHALE	1017	1061
LIME	1061	1063
SHALE	1063	1076 T.D.

GOOD SHOW



CONSOLIDATED
Oil Well Services, LLC

264534

TICKET NUMBER 44894

LOCATION Ottawa, KS

FOREMAN Casey Kennedy

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
12/3/13	5023	Reamer # AI-10	NE 28	22	14	CO
CUSTOMER Hacco Energy			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 1749 5th Lane			729	Casey	✓ Safety Meeting	
CITY LeRoy			666	Garmon	✓	
STATE KS				MerRob	✓ Eureka	
ZIP CODE 66857			370	Kei Car	✓	

JOB TYPE surface HOLE SIZE 12 1/4" HOLE DEPTH 40' CASING SIZE & WEIGHT 7"
 CASING DEPTH 40' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 4
 DISPLACEMENT 1.5 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed + pumped 33 sts 50/50 Pozmix cement w/ 2% gel per st, cement to surface, displaced cement w/ 1.5 bbls fresh water, shut in casing.

[Handwritten Signature]

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE		870.00
5406	an lease	MILEAGE		
5403	40'	casing footage		
5407	minimum	ton mileage		368.00
5502C	1.5 hrs	80 Vac		135.00
1124	33 sts	50/50 Pozmix cement		379.50
118B	55 #	Premium Gel		12.10
		6.15%	SALES TAX	24.08
			ESTIMATED TOTAL	1788.68

Flavin 3737

AUTHORIZATION Harvey was there 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



CONSOLIDATED
Oil Well Services, LLC

264643

TICKET NUMBER 44861

LOCATION Ottawa

FOREMAN Alan Made

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
12-5-13	5023	Reamer #1-10	SE 28	22	16	CF
CUSTOMER Harcen Resources			TRUCK #			
MAILING ADDRESS 1749 5th Ln SE			DRIVER			
CITY LeRoy			TRUCK #			
STATE KS			DRIVER			
ZIP CODE			TRUCK #			
JOB TYPE <u>log string</u>			DRIVER			
HOLE SIZE <u>5 7/8</u>			TRUCK #			
HOLE DEPTH <u>1076</u>			DRIVER			
CASING DEPTH <u>1066</u>			TRUCK #			
DRILL PIPE			DRIVER			
SLURRY WEIGHT			TRUCK #			
SLURRY VOL			DRIVER			
WATER gal/sk			TRUCK #			
CEMENT LEFT in CASING <u>yes</u>			DRIVER			
DISPLACEMENT <u>6.2</u>			TRUCK #			
DISPLACEMENT PSI <u>800</u>			DRIVER			
MIX PSI <u>200</u>			TRUCK #			
RATE <u>4 bpm</u>			DRIVER			

REMARKS: Held meeting. Established rate down casing.
Mixed & pumped 100 # gel followed by 156 sk 50/50 cem.
plus 2% gel, 5% salt, 5# kdiseal per sack. Circulated
cement. Flushed pump. Pumped plug to casing TD
Well held 800 PSI. Set float. Closed valve.

Kurt Finney

Alan Made

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	368	1085.00
5406	45	MILEAGE	368	189.00
5402	1066	casing footage	368	
5407A	326.43	ten miles	503	460.27
5502C	2 1/2	80 vac	675	225.00
1124	156	50/50 cement		1794.00
1118B	362 #	gel		79.64
1111	301 #	salt		117.39
1110A	780 #	kdiseal		358.80
4402	1	2 1/2 plug		29.50
SALES TAX				146.33
ESTIMATED TOTAL				4486.93

Revin 8737

AUTHORIZATION [Signature]

TITLE

DATE

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