

HAT DRILLING
 12371 KS HWY 7
 MOUND CITY, KS 66056
 LICENSE # 33734

Ayres #I-1
 API # 15-121-29721-00-00
 SPUD DATE 12-03-13

Footage	Formation	Thickness	Set 20' of 7"
2	Topsoil	2	TD 436'
7	clay	5	Ran 432' of 2 7/8 on 12-04-13
16	lime	9	
26	shale	10	
42	lime	16	
68	shale	26	
82	lime	14	
94	shale	12	
114	lime	20	
128	shale	14	
154	lime	26	
161	shale	7	
173	lime	12	
190	shale	17	
192	oil sand	2	good bleed
317	shale	125	
328	sand oil	11	slight odor, 75% sand, 25% shale
338	oil sand/shale	10	better bleed, good odor, 80% sand
342	shale	4	
348	sandy shale	6	65% sand, 35% shale, little bleed
361	shale	13	
371	lime	10	
379	shale	8	
382	lime	3	
396	shale	14	
400	lime	4	
436	shale	36	

TICKET NUMBER 44914

LOCATION Ottawa KS

FOREMAN Fred Maden

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
12.4.13	8553	Ayres # I-1	NE 19	17	23	MI
CUSTOMER Vast Petroleum of Kansas LLC			TRUCK #			
MAILING ADDRESS 10939 N Alpine Hwy			DRIVER			
CITY Highland		STATE UT	ZIP CODE 84003		TRUCK #	
			DRIVER			
			712 Fred Mad			
			495 Har Bec			
			369 Jas Ric			
			503 Dan Det			

JOB TYPE Long string HOLE SIZE 5 7/8 HOLE DEPTH 436' CASING SIZE & WEIGHT 2 7/8 EUE
 CASING DEPTH 432 DRILL PIPE Baffle in TUBING @ 402 OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 30' x Plug
 DISPLACEMENT 2.3 Bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE 5 BPM

REMARKS: Hold crew safety meeting. Establish circulation. Mix + Pump 100# Gel
flush. Mix + Pump 81 sizes 50/50 Poz Mix Cement 290 Gel 290 Calcium
chloride 1/4" Flo Seal/sk. Cement to surface. Flush pump + lines clean.
Displace 2 1/2" Rubber plug to Baffle in casing. Pressure to 800# ASI.
Hold + Monitor Pressure for 30 min MIT. Release pressure to
set float Valve. Shut in casing.

Next Drilling

Fred Maden

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	495	1083.00
5406	30 mi	MILEAGE	495	126.00
5402	432.	Casing Footage		N/C
5407	Minimum	Ton Miles	503	368.00
55020	2 hrs	80 Bbl Vac Truck	369	180.00
1124	81.5 k5	50/50 Poz Mix Cement		921.50
11150	236*	Premium Gel		57.92
1102	136*	Calcium Chloride		106.08
1107	20*	Flo Seal		49.40
4402	1	2 1/2" Rubber Plug		29.50
			7.65%	SALES TAX
				ESTIMATED TOTAL
				3016.28

SCANNED

AUTHORIZATION No Co Rep on Site

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.