



Fueling American Prosperity™

Oil and Gas Well Drilling

3137 Virginia Rd, Wellsville KS 66092

Owners: Clay Hughes

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Well Log

Magnum Exploration Kansas, LLC

Thrasher #10

Sec. 25 Twp. 13 Rng. 20

15-045-22254-00-00

01/09/15

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
2	Soil and Clay	2	
1	Lime	3	
12	Sandy Shale	15	
83	Shale	98	
18	Sand	116	Hard, grey, makes a little water
16	Lime	132	
6	Shale	138	
7	Lime	145	
14	Shale	159	
19	Lime	178	
9	Shale	187	
1	Lime	188	
25	Shale	213	
13	Lime	226	
7	Shale	233	
27	Lime	260	
34	Shale	294	
12	Lime	306	
2	Shale	308	
2	Lime	310	
13	Shale	323	
16	Lime	339	
16	Shale	355	
13	Lime	368	
7	Shale	375	
1	Lime	376	
3	Shale	379	
11	Lime	390	
2	Shale	392	
15	Lime	407	
11	Shale	418	

23	Lime	441	
3	Shale	444	
4	Lime	448	
5	Shale	453	
6	Lime	459	Base of Kansas City
168	Shale	627	
5	Lime	632	
5	Shale	637	
3	Lime	640	
2	Shale	642	
1	Coal	643	
6	Shale	649	
4	Lime	653	
15	Shale	668	
4	Lime	672	
7	Shale	679	
4	Lime	683	
25	Shale	708	
3	Lime	711	
2	Silty Shale	713	
6	Shale	719	
1	Silty Shale	720	
1	Broken Sand	721	20% brown sand, 80% shale, light bleed
2	Broken Sand	723	90% brown sand, thin shale and lime seems
1	Broken Sand	724	40% brown sand, 60% shale, ok bleed, gassy
1	Limey Sand	725	15% bleeding
1	Broken Sand	726	30% brown sand, 70% shale, ok bleed
2	Oil Sand	728	Soft brown sand, good bleed, few thin shale seems
2	Broken Sand	730	25% brown sand, 75% shale, light bleeding
4	Silty Shale	734	
38	Shale	772	
1	Broken Lime	773	
1	Shale	774	
1	Broken Sand	775	20% brown sand, 80% shale, ok bleed, gassy
1	Silty Shale	776	
1	Broken Sand	777	10% brown sand, 90% shale, light bleed
3	Silty Shale	780	
8	Shale	788	
7	Sand	795	Brown, no show
35	Shale	830	TD

Drill an 11" hole to 44'
Drilled a 5 5/8" hole to 830'

Set 44' of 7" surface casing, cemented with 14 sacks of cement.

Set 810' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 clamp, 1 float-shoe, and baffle.
Baffle set at 782'.



TICKET NUMBER 50757
 LOCATION Offawa, KS
 FOREMAN Cory 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
1/14/15	5700	Thunder # 10	SW 25	13	20	DB
CUSTOMER Magnum Exp Kansas LLC			TRUCK #			
MAILING ADDRESS 87128 County Rd 262			DRIVER			
CITY Clyde			TRUCK #			
STATE TX			DRIVER			
ZIP CODE 79510			TRUCK #			
			DRIVER			

JOB TYPE Long string HOLE SIZE 5 7/8" HOLE DEPTH 830' CASING SIZE & WEIGHT 2 7/8" EUE
 CASING DEPTH 810' DRILL PIPE _____ TUBING bottle - 782' OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 28'
 DISPLACEMENT 4.53 bbls DISPLACEMENT PSI _____ MIX PSI _____ RATE 4.5 bpm

REMARKS: held safety meeting, established circulation, mixed & pumped 200# Gel followed by 10 bbls fresh water, mixed & pumped 94 sks OWC cement w/ 1/2# Phenoseal per sk, cement to surface, Plural pump clean, pumped 2 1/2" rubber plug to bottle w/ 4.53 bbls fresh water, pressured to 800 PSI, well held pressure for 30 min MIT, released pressure, shut in casing.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE		1085.00
5406	30 mi	MILEAGE		126.00
5402	810'	casing footage		
5407	minimum	ten mileage		318.00
5502C	2 hrs	50 Vac		200.00
1126	94 sks	OWC cement	1856.50	
1118B	200 #	Gel	44.00	
1107A	47 #	Phenoseal	63.45	
		materials	1963.95	
		- 30%	589.19	
		subtotal		1374.76
4402	1	2 1/2" Rubber plug		29.50
			3914.98	
		7.15%	SALES TAX	100.40
			ESTIMATED TOTAL	3283.166

AUTHORIZATION _____ TITLE _____ DATE _____

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

TERMS

In consideration of the prices to be charged for Consolidated Oil Well Services, LLC (COWS) services, equipment and products and for the performance of services and supplying of materials, Customer agrees to the following terms and conditions.

Terms. Cash in advance unless satisfactory credit is established. On credit sales, invoices are payable within 30 days of the invoice date. On all invoices not paid within 30 days, Customer agrees to pay COWS interest at the rate of 18% per annum or the maximum rate allowed by law, whichever is higher. In the event COWS retains an attorney to pursue collection of any account, Customer agrees to pay all collection costs and attorney's fees incurred by COWS.

Any applicable federal, state or local sales, use occupation, consumer's or emergency taxes shall be added to the quoted price. All franchise license fees required to be paid to others will be added to the scheduled prices.

All COWS' prices are subject to change without notice.

SERVICE CONDITIONS

Customer warrants that the well is in proper condition to receive the services, equipment, products and materials to be supplied by COWS. The Customer shall at all time have complete care, custody, and control of the well, the drilling and production equipment of the well, and the promises about the well. A responsible representative of the Customer shall be present to specify depths, pressures, or materials used for any service which is to be performed.

(a) COWS shall not be responsible for any claim, cause of action or demand (hereinafter referred to as a "claim") for damage to property, or injury to or death of employees and representatives of Customer or the well owner (if different from Customer), unless such damage, injury or death is caused by the willful misconduct or gross negligence of COWS, including but not limited to sub-surface damage and surface damage arising from sub-surface damage.

(b) Unless a claim is the result of the sole willful misconduct or gross negligence of COWS, Customer shall be responsible for and indemnify and hold COWS harmless from any claim for: (1) reservoir loss or damage, or property damage resulting from sub-surface pressure, losing control of the well and/or a well blowout; (2) damages as a result of a subsurface trespass, or an action in the nature thereof, arising from a service operation performed by COWS; (3) injury to or death of persons, other than employees of COWS, or damage to property (including, but not limited to, injury to the well), or any damages whatsoever, irrespective of cause, growing out of or in any way connected with the use of radioactive material in the well hole; and (4) well damage or reservoir damage caused by (i) loss of circulation, cement invasion, cement misplacement, pumping cement or cement plugs on wells with loss of circulation, including the failure to displace plug to proper depth, (ii) sub-surface pressure and resulting failure to complete pumping of cement or cement plug, including dehydration of cement slurry or flashing, plugged float shoe, annulus bridging or plugging, or (iii) down hole tools being lost or left in the well, or becoming stuck in the well for any reason and by any cause. COWS may furnish down hole tools and may supply supervision for the running and placement of such tools but will not be liable for any damage, loss or result caused by the use of such tools.

Furthermore, Customer will be responsible for the cost to replace such tools if they are lost or left in the well.

(c) COWS makes no guarantee of the effectiveness of any COWS' products, supplies or materials, or the results of any COWS' treatment or services.

(d) Because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, COWS is unable to guarantee the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by COWS. COWS' personnel will use their best efforts in gathering such information and their best judgement in interpreting it, but Customer agrees that COWS shall not be responsible for any damage arising from the use of such information except where due to COWS' gross negligence or willful misconduct in the preparation or furnishing of it.

(e) COWS may buy and resell to Customer down hole equipment, including but not limited to float equipment, DV tools, portedurs, type A & B packers, and Customer agrees that COWS is not an agent or dealer for the companies who manufacture such items, and further agrees that Customer shall be solely responsible for and indemnify COWS against any claim with regard to the effectiveness, malfunction of, or functionality of such items.

WARRANTIES - LIMITATION OF LIABILITY

COWS warrants title to the products, supplies and materials, and that the same are free from defects in workmanship and materials. THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, NOR ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE, WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. COWS's liability and Customer's exclusive remedy in any claim (whether in contract, tort, breach of warranty or otherwise,) arising out of the sale or use of any COWS' products, supplies, materials or services is expressly limited to the replacement of such products, supplies, materials or services or their return to COWS or, at COWS' option, an allowance to Customer of credit for the cost of such items.

Customer waives and releases all claims against COWS for any special, incidental, indirect, consequential or punitive damages.