



#1 Blau 16C

615' FSL & 860' FWL

45' S & 130' W of E/2 SW/4 SW/4 Section 16-15S-36W

Logan County, Kansas

Dirks NW Prospect

2016 Drilling Program

API# 15-109-21472-0000

Elevation: GL: 3344', KB: 3349'

Sample Tops			Ref. Well
Anhydrite	2626'	+723	-5
B/Anhydrite	2644'	+705	-4
Topeka	3820'	-471	N/A
Heebner	4051'	-702	+4
Toronto	4070'	-721	+3
Lansing	4108'	-759	Flat
Muncie Shale	4277'	-928	+12
Stark Shale	4369'	-1020	+10
Hush Shale	4412'	-1063	+8
BKC	4452'	-1103	+9
Marmaton	4494'	-1145	+9
Altamont	4508'	-1159	+11
Pawnee	4605'	-1256	-2
Myrick	4645'	-1296	-1
Fort Scott	4660'	-1311	Flat
Cherokee	4690'	-1341	Flat
Johnson	4774'	-1425	+1
Morrow Shale	4830'	-1471	+3
Mississippian	4948'	-1599	-19
RTD	5020'	-1671	



CONSOLIDATED
Oil Well Services, LLC

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

7481
7378

Invoice #807530

TICKET NUMBER 51688

LOCATION Oakley, KS

FOREMAN Miles Shaukey

Walt Dinkel KS

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-3-17	7173	Blau C-16 #1	16	15.5	38W	Logan
CUSTOMER Ritchie Exploration			Russell Sprm Sec. 14/1 25 to Dakota 2 1/2 E 41/3			
MAILING ADDRESS P.O. Box 783188			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Wichita			STATE KS	ZIP CODE 67278-3188		
			731	Steven D		
			479	Travis W		
			697			
			703			

JOB TYPE Long String HOLE SIZE 7 7/8" HOLE DEPTH 5020 CASING SIZE & WEIGHT 5 1/2 15.5 #
 CASING DEPTH 5012 DRILL PIPE _____ TUBING _____ OTHER PC @ 2582
 SLURRY WEIGHT 13.8 SLURRY VOL 1.42 WATER gal/sk _____ CEMENT LEFT IN CASING 21'
 DISPLACEMENT 121 bbls DISPLACEMENT PSI 1000/1500 MIX PSI _____ RATE _____

REMARKS: Safety meetings and rig upon well drilling is #10 Run in casing
 Flood equip Turbulizers on Sats 1, 2, 4, 6, 8, 10, 15, 55, 57, 73 Baskets on Sat # 11 mudfills
 56 bottom, 72 bottom, PC on Sat # 56 @ 2582', Circulate casing 1 hr w. bottom mix
 seal mud flush. Mix 200 sx OWC with Reaction extend down casing shut down clear pump
 lines release plus a safety 121 bbls water with 1000 psi lift plus did land @ 1500 psi

Mix 200 sx R#

Thanks Miles Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0453	1	PUMP CHARGE	2800. ⁰⁰	2800. ⁰⁰
CE0002	25	MILEAGE	7.15	250.25
CE0710	10.81	Ton mileage delivery	52 21.75	662.11
CC5862	230 sx	OWC Cement	26. ⁰⁰	5980. ⁰⁰
CC5320	100 #	Salt	N/C	N/C
CC6000	54 #	CD-1 Friction reducer	7.85	423.90
CC6155	32 #	Cement defoamer	10.20	326.40
CC6077	1150 #	Kal Seal	1.50	575. ⁰⁰
CC6125	500 gal	mud flush	1.65	325. ⁰⁰
CP8254	1	5 1/2" latch down assembly plug	400. ⁰⁰	400. ⁰⁰
CP8425	1	5 1/2" Flood shoe AFU	585. ⁰⁰	585. ⁰⁰
CP8576	9	5 1/2" Turbulizer	110. ⁰⁰	990. ⁰⁰
CP8629	3	5 1/2" baskets	385. ⁰⁰	1155. ⁰⁰
CP8776	1	5 1/2" Port Collar	2850. ⁰⁰	2850. ⁰⁰
		Subtotal		17322.00
		less 45% discount		7785.19
		Subtotal		9527.49
		SALES TAX		598.86
		ESTIMATED TOTAL		10126.33

Ravin 3737

AUTHORIZATION

Gay Rowe

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.

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 process 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 at the well, and the premises 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 re-sell to Customer down hole equipment, including but not limited to float equipment, DV tools, port collars, 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.



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FIELD TICKET & TREATMENT REPORT
CEMENT

7490
7387

Invoice # 809535

TICKET NUMBER 51689
LOCATION Oakley, KS
FOREMAN Miles Shaw

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
2-7-17	7173	Blau C-16 #1	10	15S	38W	Logan	
CUSTOMER		Ritchie Exploration		Russell Springs Sec 11 & 25 to Dakota Rd 2 1/2 E N.S			
MAILING ADDRESS		P.O. Box 783188		TRUCK #	DRIVER	TRUCK #	DRIVER
CITY		STATE	ZIP CODE				
Wichita		KS	67218-3188	753	Steven O		
				597-127			

JOB TYPE Port collar HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT 5 1/2" 15.5#
 CASING DEPTH _____ DRILL PIPE _____ TUBING 2 1/4" OTHER RC @ 2552
 SLURRY WEIGHT 12.4 SLURRY VOL 1.9 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 13.5 bbls DISPLACEMENT PSI 520 MIX PSI _____ RATE _____

REMARKS: Safety meeting and rig up on well. Test tools to 1250 psi hold. Open tool establish circulation mix 300sx 60/40 8 1/4" 1 1/2" seal displaced 13 1/2 bbls water. Shut tool pressured to 1300 psi hold 5 min released off. Pull tubing 500# pressure up 5200 psi on casing. Shut in.

Thanks Miles & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	35	MILEAGE	250.25	250.25
CE0710	13.05 ton	Top m. large delivery	1.75	799.31
CC5831	300 sx	L to Weight Head VII 60/40 8 1/2" 1 1/2" seal	17.50	5250.00
CC6025	75 #	Cello Platte Glas seal	3.00	225.00
CC6050	500 #	Cotton Seed hulls	1.50	250.00
			Subtotal	8674.56
			less 75% discount	3903.55
			Subtotal	4771.01
			SALES TAX	251.90
			ESTIMATED TOTAL	5022.91

AUTHORIZATION Gay Rowe TITLE _____ DATE _____

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