

Mud-Co / Service Mud Inc.

Operator Ritchie Exploration County Gove State Kansas Pump 6 X 15 X 9.34 SPM Casing Program 8.5/8 " @ 212 ft.
 Well #1 Hanna Unit Location _____ BPM _____ " @ _____ ft.
 Contractor Murfin Drilling Co. #14 Sec 18 TWP 14S RNG 31W D.P. 4.5 in. 230 FT/AMIN R.A. _____ ft.
 Stockpoint Pratt, Ks. Date 5/23/2012 Engineer Reid Atkins Collar 6.25 in. 530 ft. 419 FT/AMIN R.A. _____ ft.
 Total Depth 4600' ft.

DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY		GELS 10 sec / 10 min.	PH	FILTRATION ANALYSIS			SAND %	RETORT			Pump Press. PSI	CUMULATIVE COST	REMARKS AND TREATMENT	
			Sec API @ 30°F	PV @ 30°F			Yp	ml API	Cake 32nds		Pres. #BBL	Cl ppm	Ca ppm				Solids %
5/23	0																
5/25	2274	9.9	29			7.0									6,516	0	Rig up
5/26	3509	8.6	54	13	17	11.0	6.4	1	35M	Hvy	20	90.7	Tr		9,226	3	Drig.
5/27	3980	9.0	57	18	17	10.0	7.2	1	2,000	20	80	98.0	3		11,154	3	Drig.
5/28	3951	9.1	67	20	19	14/40	8.0	2	3,500	80	80	95.3	3		12,368	3	Drig.
5/29	4085	9.2	64	22	19	13/38	9.5	2	4,000	120	120	94.7	3		13,851	3	CFS
5/30	4180	9.1	55	15	18	12/27	10.5	1	4,400	40	40	93.9	4		16,355	4	CFS
5/31	4358	9.3	56	18	17	13/34	10.5	1	4,800	40	40	94.5	3		15,979	3	CFS
6/1	4454	9.2	58	16	22	15/39	10.5	1	4,400	40	40	94.0	4		16,454	4	DST 5
6/2	4564	9.2	58	25	21	15/41	10.0	2	4,500	80	80	94.1			16,633		Drig.
6/3	4600														16,720		Final: LTD - 4600', 6 DST's, Plugged Well.

MATERIALS	Sacks		Amount		Sacks	Amount
	Materials	Materials	Materials	Materials		
C/S HULLS	150	2,692.50				
CAUSTIC SODA	25	1,653.75				
CO-POLY-L	1	184.00				
DRILL PAK	6	1,980.00				
LIME	4	44.00				
PREMIUM GEL	473	8,703.20				
SODA ASH	40	1,034.00				
SUPER LIG	15	429.00				
TOTAL COST						
Total Mud Cost						16,720.45
Trucking Cost						1,809.79
Trucking Surcharge						
Taxes						
TOTAL COST						18,530.24

MUD-CO / SERVICE MUD INC.
 100 S. Main Suite #310
 Wichita, Ks. 67202
 316/264-2814 Fax: 316/264-5024
DRILLING MUD RECAP



#1 Hanna Unit
1175' FNL & 2590' FEL
185' S & 50' E S/2 N/2 N/2 Section 18-14S-31W
Gove County, Kansas
API# 15-063-21997-00-00
Elevation: 2815' GL, 2825' KB

Sample Tops			Ref. Well
Anhydrite	2293'	+532	+5
B/Anhydrite	2313'	+512	+8
Heebner	3818'	-993	+8
Toronto	3840'	-1015	+5
Lansing	3855'	-1030	+10
LKC "C"	3896'	-1071	+8
Muncie Shale	4021'	-1196	+2
LKC "H"	4034'	-1209	+7
Stark Shale	4105'	-1280	+6
Hush	4132'	-1307	+13
BKC	4193'	-1368	-2
Altamont	4248'	-1423	+3
Pawnee	4310'	-1485	+5
Myrick	4349'	-1524	+4
Fort Scott	4362'	-1537	+7
Cherokee	4390'	-1565	+7
Johnson	4432'	-1607	+5
Morrow Sand	4475'	-1650	+11
Mississippian	4508'	-1683	-7
RTD	4600'	-1775	

C.

ALLIED CEMENTING CO., LLC. 034492

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Dakla, KS

DATE <u>6-2-12</u>	SEC <u>18</u>	TWP <u>14</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>11:30pm</u>	JOB START <u>2:00pm</u>	JOB FINISH <u>7:00am</u>
WELL # <u>1</u>	LOCATION <u>Dakla, KS 208, 2E,</u>	COUNTY <u>Gove</u>	STATE <u>KS</u>	OLD OR NEW (Circle one) <u>NEW</u>			

CONTRACTOR Murphy #14

TYPE OF JOB well

BOLE SIZE 7 7/8" T.D. 4600

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2" DEPTH 2300'

COOL _____ DEPTH _____

RES. MAX _____ MINIMUM _____

WEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 29,156 bbl

EQUIPMENT _____

PUMP TRUCK CEMENTER Lakane

423/281 HELPER Jerry

BULK TRUCK _____

347 DRIVER Brandon

BULK TRUCK _____

DRIVER _____

OWNER same

CEMENT AMOUNT ORDERED 2205ks @ 65/100 flo-seal

COMMON 1305ks @ 16.25 2112.50

POZMIX 905ks @ 8.50 7692.50

GEL 85ks @ 2.625 223.125

CHLORIDE _____ @ _____

ASC _____ @ _____

flo-seal 55# @ 2.70 148.50

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING 286.29 ft³ @ 2.10 600.21

MILEAGE 7.87 hrs @ 22.35 173.86

TOTAL 4202.89

REMARKS:

mix 25 ks at 2300'

mix 100 ks at 1340'

mix 405 ks at 260'

mix 105 ks w/wooden plug top 40'

mix 20 ks movable

mix 30 ks rat hole

- 225 Thank you

CHARGE TO: Ritchie Exploration

TRETT _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB 2300'

PUMP TRUCK CHARGE 1250.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 22 @ 7.00 154.00

MANIFOLD _____ @ _____

L.C. Mileage 22 @ 4.00 88.00

TOTAL 1492.00

I, _____ of Allied Cementing Co., LLC. you are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Greg Clark

SIGNATURE Greg Clark

PLUG & FLOAT EQUIPMENT

wooden plug @ 72.00

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL 72.00

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

