

Operator Name: Ritchie Exploration, Inc. Lease Name: Engel 1A Well #: 1
 Sec. 1 Twp. 12 S. R. 32 East West County: Logan

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Induction Log Compensated Density/Neutron Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum SEE ATTACHED
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	23#	228'	common	175	3%cc, 2% gel
Production	7-7/8"	4-1/2"	10.5#	4763	ASC	225	10% salt, 2% gel, 5#/sx gilsonite

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	4611.5' - 4616' (1/12/12)	500 gals 15% NE	

TUBING RECORD: Size: <u>2-3/8"</u> Set At: <u>4698'</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		CONFIDENTIAL
Date of First, Resumed Production, SWD or ENHR: <u>1/27/12</u>		MAR 21 2014
Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u> </u>	Estimated Production Per 24 Hours: Oil <u>4.74</u> Bbls. Gas <u> </u> Mcf Water <u>14</u> Bbls. Gas-Oil Ratio KCC Gravity <u>39.5</u>	

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) <u> </u>	PRODUCTION INTERVAL: <div style="text-align: center; border: 1px solid black; padding: 5px;">RECEIVED</div>
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RITCHIE

EXPLORATION, INC.
Wichita, Kansas

#1 Engel 1A

2298' FNL & 1140' FEL

12' N & 150' W of SW SE NE Section 1-12S-32W

Logan County, Kansas

API# 15-109-21047-0000

Elevation: 2989' GL: 2999' KB

Sample Tops			Ref. Well
Anhydrite	2530'	+469	+3
B/Anhydrite	2554'	+445	+3
Heebner	4021'	-1022	-3
Toronto	4049'	-1050	-3
Lansing	4068'	-1069	-3
Muncie Shale	4201'	-1202	-1
Stark Shale	4288'	-1289	-2
Hush.	4324'	-1325	-3
BKC	4356'	-1357	flat
Marmaton	4380'	-1381	-1
Altamont	4403'	-1404	-1
Pawnee	4479'	-1480	-2
Myrick	4518'	-1519	-2
Fort Scott	4536'	-1537	+2
Cherokee Shale	4563'	-1564	flat
Johnson	4608'	-1609	-2
Morrow Sand	4626'	-1627	-2
Mississippian	4650'	-1651	+13
RTD	4770'	-1771	

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MAR 21 2014

KCC

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MAR 22 2012

KCC WICHITA

ALLIED CEMENTING CO., LLC. 036125

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

SERVICE POINT: Daklay, Kas

DATE <u>11-22-11</u>	SEC. <u>1</u>	TWP. <u>12</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>6:18 pm</u>	JOB FINISH <u>2:00 pm</u>
LEASE # <u>Engel 1A</u>	WELL # <u>1</u>	LOCATION <u>Daklay, SS, 22, Kas</u>			COUNTY <u>Hogans</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one)		<u>Wm7D</u>					

CONTRACTOR <u>Mertin #19</u>	OWNER <u>Seane</u>
TYPE OF JOB <u>Surface</u>	CEMENT
HOLE SIZE <u>12 1/8" T.D. 231'</u>	AMOUNT ORDERED <u>175 sks Com 32 cc</u>
CASING SIZE <u>8 7/8" DEPTH 231.58'</u>	<u>R. Legal</u>
TUBING SIZE _____ DEPTH _____	
DRILL PIPE _____ DEPTH _____	
TOOL _____ DEPTH _____	
PRES. MAX _____ MINIMUM _____	COMMON <u>175 sks @ 16.25 2845.75</u>
MEAS. LINE _____ SHOE JOINT _____	POZMIX _____ @ _____
CEMENT LEFT IN CSG. <u>15'</u>	GEL <u>3 sks @ 21.25 63.75</u>
PERFS. _____	CHLORIDE <u>6 sks @ 58.70 347.20</u>
DISPLACEMENT <u>1376661</u>	ASC _____ @ _____
EQUIPMENT _____	_____ @ _____
PUMP TRUCK # <u>431</u> CEMENTER <u>Lobane</u>	_____ @ _____
HELPER <u>Darren</u>	_____ @ _____
BULK TRUCK # <u>409</u> DRIVER <u>Tyler</u>	_____ @ _____
DRIVER _____	_____ @ _____
	HANDLING <u>184 sks @ 2.25 414.00</u>
	MILEAGE <u>164.5 hrs @ 16.1 2649.22</u>
	TOTAL <u>3834.62</u>

REMARKS:
Mix 175 sks down casing
wash pump & lines
displace with water
Cement did circulate

Thank you

CHARGE TO: Ritchie Exploration Inc
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE	
DEPTH OF JOB <u>231.58'</u>	
PUMP TRUCK CHARGE	<u>1125.00</u>
EXTRA FOOTAGE @ _____	
MILEAGE <u>81.2</u> @ <u>2.00</u>	<u>162.00</u>
MANIFOLD <u>54 sealge</u> @ _____	<u>325.00</u>
<u>Light Vehicle w/day</u> @ <u>4.00</u>	<u>64.00</u>
TOTAL	<u>1676.00</u>

PLUG & FLOAT EQUIPMENT	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
TOTAL	_____

To 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 Craig Clark
SIGNATURE Craig Clark

SALES TAX (If Any) _____
TOTAL CHARGES CONFIDENTIAL
DISCOUNT _____ IF PAID IN 30 DAYS
MAR 21 2012

KCC

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KCC WICHITA

TR

ALLIED CEMENTING CO., LLC. 036131

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

SERVICE POINT:
Dakley, KS
12-6-11

DATE <u>12-5-11</u>	SEC. <u>1</u>	TWP. <u>12</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION <u>6:00pm</u>	JOB START <u>12:00am</u>	JOB FINISH <u>1:00am</u>
LEASE <u>Engel 1A</u>	WELL # <u>1</u>	LOCATION <u>Dakley, SS, 2E, 1/2 S,</u>			COUNTY <u>Logan</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>W</u>				<u>Wells</u>			

CONTRACTOR Murphy 14

TYPE OF JOB production

HOLE SIZE 7 7/8 T.D. 4770

CASING SIZE 4 1/2 DEPTH 4763'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 20'

CEMENT LEFT IN CSG. 20'

PERFS.

DISPLACEMENT 75.36661

OWNER same

CEMENT

AMOUNT ORDERED 275 sks ASC 290gel

1090 salt 5# gilsonite

500 gal WFR 2

COMMON 255sk @

POZMIX @

GEL 55sk @ 21.25 1062.5

CHLORIDE @

ASC 275 sks @ 19.00 5225.00

EQUIPMENT

PUMP TRUCK CEMENTER Lakene

431 HELPER Darren

BULK TRUCK

404 DRIVER Dane/Brandon

BULK TRUCK

DRIVER

salt 265sk @ 23.75 622.70

gilsonite 1375# @ .89 1233.75

WFR-2 500gal @ 1.27 635.00

HANDLING 354 sks @ 2.25 786.50

MILEAGE 118 sk/mile 311.52

TOTAL 8920.72

REMARKS:

pump ball through circulate 3/4 hr
mix wfr-2 plug rat hole & mouse hole
mix 225 sks down casing & displace
with water.
hand plug at 1400 ft float head

SERVICE

DEPTH OF JOB 4763'

PUMP TRUCK CHARGE 2405.00

EXTRA FOOTAGE @

MILEAGE @ 7.00 36.00

MANIFOLD head @ 200.00

2.00 mileage @ 4.00 32.00

CHARGE TO: Ritchie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

TOTAL 2693.00

4 1/2 PLUG & FLOAT EQUIPMENT

(1) port collar 2485.00

(1) (6) turbolizers @ 7200 46200

(1) (1) insert @ 248.00

(1) (4) baskets @ 270.00 1080.00

(1) (1) guide shoe @ 192.00

(1) Rubber plug @ 70.00

TOTAL 4532.00

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SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____

CONFIDENTIAL

MAR 21 2012
IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE [Signature]



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MAR 22 2012
KCC WICHITA

ALLIED CEMENTING CO., LLC. 036053

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

SERVICE POINT: Darkley KS

EN621A1

DATE <u>12/12/14</u>	SEC. <u>1</u>	TWP. <u>12</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00pm</u>	JOB FINISH <u>5:30pm</u>
LEASE <u>Enel 14</u>	WELL # <u>1</u>	LOCATION <u>Darkley SE 1/4 S Winto</u>			COUNTY <u>Wagon</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR _____ OWNER Same

TYPE OF JOB Part collar

HOLE SIZE _____ T.D. _____

CASING SIZE 4 1/2 DEPTH 4720

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL Part collar DEPTH 2523

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

CEMENT AMOUNT ORDERED 900 SKs 60/40

60 gal 1/2 Flo Seal

1000 lb Hells on side

COMMON	<u>420</u>	@ <u>16.25</u>	<u>6825.00</u>
POZMIX	<u>280</u>	@ <u>8.25</u>	<u>2380.00</u>
GEL	<u>26</u>	@ <u>21.25</u>	<u>765.00</u>
CHLORIDE		@	
ASC		@	
<u>Flo Seal</u>	<u>175</u>	@ <u>2.20</u>	<u>472.50</u>
<u>Hells</u>	<u>800 (lb - 16SK)</u>	@ <u>31.85</u>	<u>509.60</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>400 SKs 763</u>	@ <u>2.25</u>	<u>1716.25</u>
MILEAGE	<u>112 SK/mile</u>	@ <u>6.71</u>	<u>751.52</u>
TOTAL			<u>13340.20</u>

REMARKS:

Test tool to 1200 PSI, Open tool, Est. flow & take logs.
 Mix Cement, 450 SKs, down 4 1/2, w/ 300 lb Hells.
 Lost circulation w/ 400 SKs, Mix gel, Mix
 lost 50 SKs w/ 1000 lb Hells, 5 shut down
 FACIN a MIX 250 SKs w/ 300 lb Hells
 Close tool - test to 1200. Held, run 5 WTS
 Reverse Clean
 Cement did NOT Frank
 Circulate Alex, Brandon

SERVICE

DEPTH OF JOB	<u>2523'</u>		
PUMP TRUCK CHARGE			<u>2225.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>8</u>	@ <u>7.00</u>	<u>56.00</u>
MANIFOLD		@	
Lite Vehicle	<u>8</u>	@ <u>4.00</u>	<u>32.00</u>
		@	

TOTAL 2213.00

CHARGE TO: Ritchie Exp

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL _____		

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SALES TAX (If Any) _____

TOTAL CHARGES **CONFIDENTIAL**

DISCOUNT MAR 21 2014 IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE [Signature]

KCC

RECEIVED
 MAR 22 2012
 KCC WICHITA