



KANSAS CORPORATION COMMISSION 1087189  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 32278  
Name: Tengasco, Inc.  
Address 1: 1327 NOOSE RD  
Address 2: PO BOX 458  
City: HAYS State: KS Zip: 67601 + 9744  
Contact Person: Gary Wagner  
Phone: ( 785 ) 625-6374  
CONTRACTOR: License # 33493  
Name: American Eagle Drilling LLC  
Wellsite Geologist: Mike Bair  
Purchaser: Coffeyville Resources

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>05/24/2012</u>	<u>06/02/2012</u>	<u>06/13/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24031-00-00  
Spot Description: \_\_\_\_\_  
E2 SW SE SE Sec. 17 Twp. 9 S. R. 18  East  West  
330 Feet from  North /  South Line of Section  
940 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Rooks  
Lease Name: Harrison A Well #: 12  
Field Name: Paradise Creek West  
Producing Formation: Arbuckle  
Elevation: Ground: 2146 Kelly Bushing: 2153  
Total Depth: 3620 Plug Back Total Depth: 3594  
Amount of Surface Pipe Set and Cemented at: 264 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: 1521 Feet  
If Alternate II completion, cement circulated from: 1521  
feet depth to: 0 w/ 275 sx cmt.

Drilling Fluid Management Plan  
(Data must be collected from the Reserve Pit)  
Chloride content: 51000 ppm Fluid volume: 320 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: Tengasco, Inc.  
Lease Name: Mosher License #: 32278  
Quarter SW Sec. 33 Twp. 8 S. R. 18  East  West  
County: Rooks Permit #: D-20839

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: Deanne Gertler Date: 07/12/2012



1087189

Operator Name: Tengasco, Inc. Lease Name: Harrison A Well #: 12  
 Sec. 17 Twp. 9 S. R. 18  East  West County: Rooks

**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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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:  <small>Dual Induction Density Neutron/PE Micro</small>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached 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	12.25	8.625	23	264	Com	170	3% CC, 2% gel
Production	7.875	5.5	14	3619	ASC	150	10% salt, 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input checked="" type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-1521	60/40	275	4% gel, 1/4# flo seal/ sx

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
6	3370-73	150 gal 15% MA	

TUBING RECORD: Size: <u>2-7/8</u> Set At: <u>3576</u> Packer At: <u>N/A</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>06/15/2012</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>23</u> Gas Mcf _____ Water Bbls. <u>15</u> Gas-Oil Ratio _____ Gravity _____

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) _____	PRODUCTION INTERVAL: <u>Arb 3370-73</u>
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Form	ACO1 - Well Completion
Operator	Tengasco, Inc.
Well Name	Harrison A 12
Doc ID	1087189

Tops

Name	Top	Datum
Anhydrite	1493	+660
Topeka	3074	-921
Heebner	3284	-1131
Toronto	3303	-1152
Lansing	3325	-1172
BKC	3544	-1391
Arbuckle	3564	-1411
LTD	3617	-1464

**MUD LOG**  
**WellSight Systems**

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Harrison A #12  
Location: Sec. 17 ;Twnsp. 9s.; Rge. 18w.  
License Number: 32278  
Spud Date: 5-24-2012  
Surface Coordinates: E2 SW SE SE  
330' FSL & 940' FEL  
Bottom Hole Coordinates:  
Ground Elevation (ft): 2146' K.B. Elevation (ft): 2153'  
Logged Interval (ft): 2800' To: 3615' Total Depth (ft): L 3617  
Formation: Arbuckle  
Type of Drilling Fluid: Chemical  
Region: Rooks County, KS  
Drilling Completed: 6-2-2012

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

**OPERATOR**

Company: TENGASCO, INC.  
Address: 1327 Noose Rd.  
Hays, KS. 67601

**GEOLOGIST**

Name: Mike Bair  
Company: Basin Resources L.L.C.  
Address: Longmont, CO.

**FORMATION TOPS**

FORMATION	LOG TOP	SAMPLE TOP
Anhydrite	1493 (+660)	
Topeka	3074 (-921)	3077 (-924)
Heebner	3284 (-1131)	3288 (-1135)
Toronto	3303 (-1152)	3306 (-1155)
Lansing	3325 (-1172)	3328 (-1175)
BKC	3544 (-1391)	3546 (-1393)
Arbuckle	3564 (-1411)	3570 (-1417)
TD	3617 (-1464)	3620 (-1467)

**DSTs**

None

**Comments**

Production casing was ran to further test the potential of the Arbuckle formation.







3000

3050

3100

3150

ROP (min/ft) 10  
Gas (units) 100

TOPEKA 3078  
(-925)

1000

vis 53  
wt 8.4  
LCM 11#

Ls, tan, wkstn; sh, gry, ns, n/o

Ls, gry-tan, shly, fxl to pkstn, foss, ns, n/o

Ls, crm, gran, poss ixgran por, ns, n/o

Ls, crm, a/a to slst, grn, fri, ns, n/o

Sh, gry-blk; Ls, gry-tan, mdstn to wkstn, ns, n/o

Ls, crm-tan, mdstn, nvp, ns, sl cky, n/o

Ls, crm-gry, some shly, ns, n/o

Ls, gry, shly, some foss frags, ns, n/o

Sh, blk; Ls, crm, fxl to wkstn, ns, some cal rexln, n/o

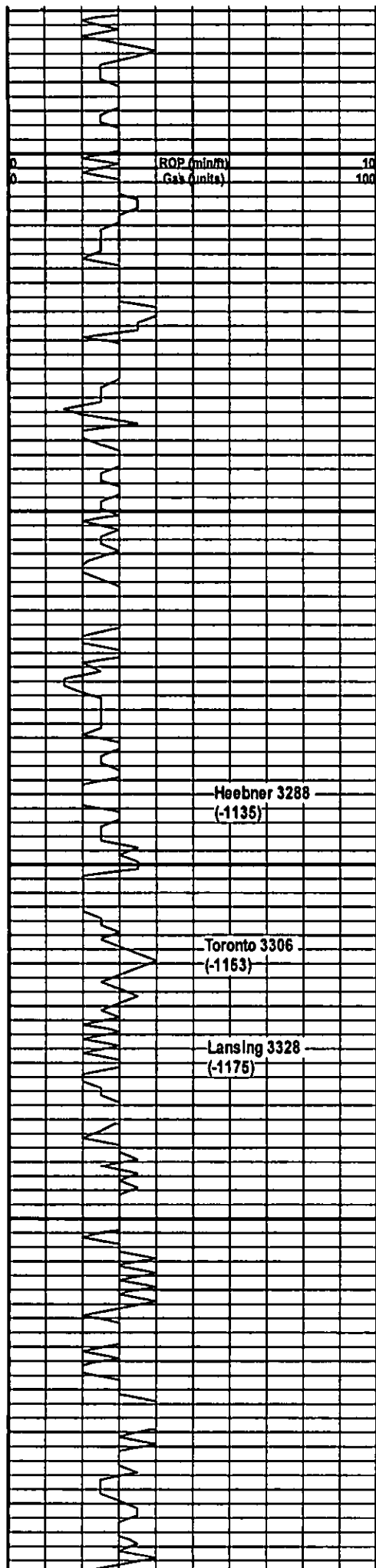
Ls, crm-tan, fxl to foss, pr vis por, ns, n/o

Ls, crm-gry, foss to shly, r pc Chert, gry, fresh, dse, ns, n/o

Ls, crm-tan-gry, fxl to foss, pkstn, ns, n/o

Ls, crm-tan, gran, poss sl ixgran por, ns, n/o

vis 55  
wt 8.8  
LCM 11#



Sh, blk: Ls, crm, gran, ixgran por, ns, n/o

Ls, wh-crm, mdstn, wkstn, ns, n/o

a/a; r pc Chert, transl, foss, fresh, dse, ns, n/o

Ls, crm-gry, pr vis por, ns, n/o

Ls, crm-tan, fxl, wkstn to Ls, gry, sl shly, ns, n/o

r pc Sh, blk; Chert, wh, dense, fresh, ns, n/o

Ls, crm, fxl to sl gran, sp'd stn, sl sfo wh bxn, pr to sl ixgran por, sl odor 3250

Ls, crm, sl gran, foss, nvp, nsfo, sl odor

Ls, crm-brn, foss to shly, ns, n/o

a/a, sc'd Chert, gry-brn, fresh, dns, ns, n/o

Sh, blk, sl carb, platy; r pc Ls, crm, pr por, sl stn, nsfo, n/o

Ls, gry-tan, mealy, some w micro pyrite xls, slst, grn, ns, n/o

Ls, crm-tan, fxl, r p[c w sh incl, sl cky, ns, n/o

Ls, crm, fxl, pr vg por, sp'd stn, r sfo, low rep, n/o 3320

Ls, wh, cky, vnp to Ls, crm, v f gran, sl por, sp'd stn, nsfo, n/o

Ls, wh, fxl, pr vis por, sp'd stn to Ls, ool, sp'd stn, v sl sfo wh bxn, n/o

Chert, transl; Ls, ool, a/a, n/o

Ls, tan, mdstn-wkstn, few foss frags, r pc Ls, wh, fxl, sp'd surf stn, pr por, nsfo, n/o

Ls, tan, a/a to Chert, brn, f/d, ns, n/o

Ls, wh, fxl, sp'd surf stn, few w cal xls, lt sa'd stn, r sfo, n/o

Ls, wh-tan, fxl, nvp, ns; to Ls, r pc wh, sl gran, lt sa'd stn, sl sfo wh bxn, sp'd ixgran, n/o

Ls, tan, mdstn, nvp, some w lt brn stn on frac

MUDCO CK 3180

vis 55

wt 8.8

WL 6.8

Chlr 2000

1000

LCM 11#

vic 53

wt 8.8

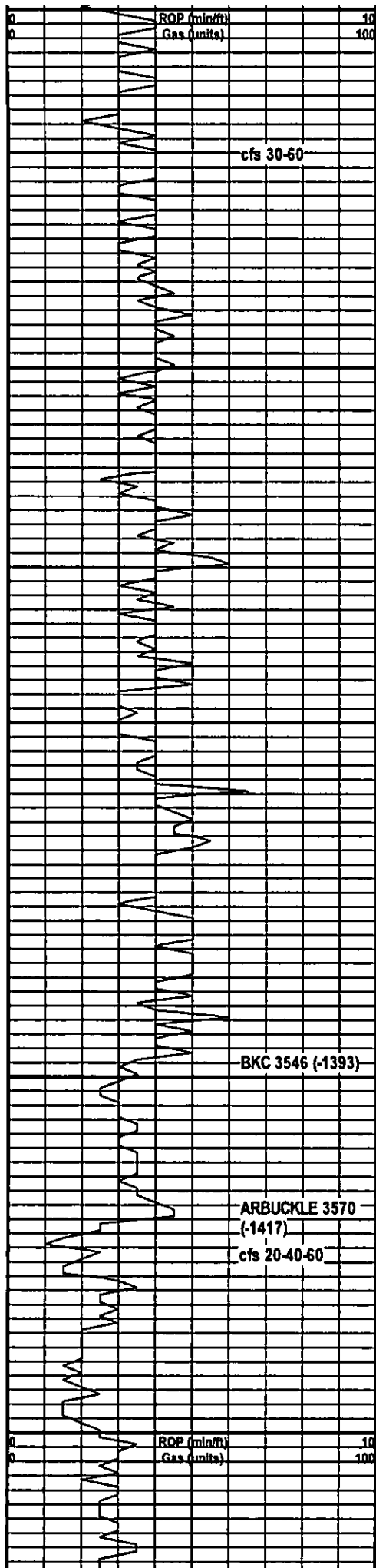
LCM 10#

vis 53

wt 8.9

LCM 14#





edge, nsfo, n/o 3410

Ls, wh-crm, fxl, pr vis por, r pc w sp'd surf stn, nsfo, n/o

Chert, wh-trans, f/d; Ls, wh, f gran to f ool, pr-sl ixool por, lt surf stn to r sp'd sa'd stn, lt sfo, wk odor

Ls, wh, mst fxl, no vis por; Chert, trans, ns, n/o

Sh, blk; Ls, wh, crm, fxl to ool, nvp, r pc lt surf stn, nsfo, n/o

Ls, crm, fxl to ool, sl ixool por, sp'd sa'd stn, L-fr sfo wh bxn, fr odor, low rep 3470

Ls, wh, hvy brn oil stn on edge w cal xls, fr sfo, low rep, v wk odor

Ls, lt gry-wh, fxl-wskstn, ns, n/o; Chert, transl, f/d, ns

Ls, wh-crm, lt surf stn, few w stn on edge, nsfo, n/o

Ls, a/a to sl gran, sl lxgran por, even sa'd stn, sl sfo, r sm vg, n/o 3510

a/a to Ls, wh, pkstn, sl lxl por, v sl sfo, n/o

a/a to Ls, wh, grmstn (ool), sl inool por, sp'd stn, v sl sfo, v wk odor; Chert, wh-transl 3530

Ls, crm, wkstn, r pc Ls, wh sl gran, sl stn, nsfo, n/o

Ls, wh-tan, nvp, ns, n/o 3550

Ls, fxl, sl vg por, fr stn, sl sfo, lt odor

abdnt Sh, gry-red, Chert, trans-wh, ns, n/o

Ls, wh, fxl, sl cky, sp'd lt surf stn, nsfo, n/o

Dolo, crm-salmon, f-fmxi, sp'd to sa'd stn, sl-fr (r pc gd) lxl por, fr-gd sfo wh bxn, fr odor; sh, gry 3575 40 min

Dolo, crm, f-mxi, sl-fr lxl por, r pc sl-L fr vg por, sp'd to sa'd stn, L-fr sfo wh bxn, many barren, fr odr 3590

Dolo, a/a 3600

Dolo, crm, f-mxi, sl lxl por, few gd vy por to Salmon, fxl, pr vis por, fr sfo, sa'd stn, fr odor 3610 incr odor

Dolo, wh, fxl, sl-fr lxl por, sa'd stn, fr sfo, incr in number of show rx, wk-Lfr odor 3620

Dolo, a/a to Dolo, wh, chertv, pr vis por, few sl va

Depth (ft)	ROP (min/ft)	Gas (units)	Notes
3400	10	100	
3410			edge, nsfo, n/o 3410
3420			Ls, wh-crm, fxl, pr vis por, r pc w sp'd surf stn, nsfo, n/o
3430			Chert, wh-trans, f/d; Ls, wh, f gran to f ool, pr-sl ixool por, lt surf stn to r sp'd sa'd stn, lt sfo, wk odor
3440			Ls, wh, mst fxl, no vis por; Chert, trans, ns, n/o
3450			Sh, blk; Ls, wh, crm, fxl to ool, nvp, r pc lt surf stn, nsfo, n/o
3460			Ls, crm, fxl to ool, sl ixool por, sp'd sa'd stn, L-fr sfo wh bxn, fr odor, low rep 3470
3470			Ls, wh, hvy brn oil stn on edge w cal xls, fr sfo, low rep, v wk odor
3480			Ls, lt gry-wh, fxl-wskstn, ns, n/o; Chert, transl, f/d, ns
3490			Ls, wh-crm, lt surf stn, few w stn on edge, nsfo, n/o
3500			Ls, a/a to sl gran, sl lxgran por, even sa'd stn, sl sfo, r sm vg, n/o 3510
3510			a/a to Ls, wh, pkstn, sl lxl por, v sl sfo, n/o
3520			a/a to Ls, wh, grmstn (ool), sl inool por, sp'd stn, v sl sfo, v wk odor; Chert, wh-transl 3530
3530			Ls, crm, wkstn, r pc Ls, wh sl gran, sl stn, nsfo, n/o
3540			Ls, wh-tan, nvp, ns, n/o 3550
3550			Ls, fxl, sl vg por, fr stn, sl sfo, lt odor
3560			abdnt Sh, gry-red, Chert, trans-wh, ns, n/o
3570			Ls, wh, fxl, sl cky, sp'd lt surf stn, nsfo, n/o
3580			Dolo, crm-salmon, f-fmxi, sp'd to sa'd stn, sl-fr (r pc gd) lxl por, fr-gd sfo wh bxn, fr odor; sh, gry 3575 40 min
3590			Dolo, crm, f-mxi, sl-fr lxl por, r pc sl-L fr vg por, sp'd to sa'd stn, L-fr sfo wh bxn, many barren, fr odr 3590
3600			Dolo, a/a 3600
3610			Dolo, crm, f-mxi, sl lxl por, few gd vy por to Salmon, fxl, pr vis por, fr sfo, sa'd stn, fr odor 3610 incr odor
3620			Dolo, wh, fxl, sl-fr lxl por, sa'd stn, fr sfo, incr in number of show rx, wk-Lfr odor 3620
3630			Dolo, a/a to Dolo, wh, chertv, pr vis por, few sl va

vis 62  
wt 8.9  
LCM 15#

MUDCO CK 3545  
vis 60+  
wt 8.8  
WL 7.8  
Chir 2000  
LCM 10#

vis 78  
wt 8.9  
LCM 12 1/2# 1000

RTD 3620  
LTD 3617

spt'd surf stn, sl sfo wh bxn, incr bsarren, fr odor

Dolo, a/a to dolo, f-mxl, mst sl por, spt'd stn, sl  
sfo - few fr sfo wh bxn, incr barren, L-fr odor  
3620 60

3650

00

# ALLIED OIL & GAS SERVICES, LLC 056127

Federal Tax I.D.

P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell

DATE <u>7-5-12</u>	SEC <u>17</u>	TWP <u>2</u>	RANGE <u>13</u>	CALLED OUT	ON LOCATION	JOB START <u>7-25</u>	JOB FINISH <u>3-08</u>
LEASE <u>Harrison</u>	WELL # <u>A-12</u>	LOCATION <u>Plainville 2W 2N W1/4</u>			COUNTY <u>Reels</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)							

CONTRACTOR American Seale #2

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 2660

CASING SIZE 8 1/2 2 1/2 DEPTH 264

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT 15

CEMENT LEFT IN CSG. 15

PERFS.

DISPLACEMENT 15 1/2 bbl

OWNER

CEMENT AMOUNT ORDERED 170 sk Class A

37.16 27.61

COMMON	<u>170</u>	@	<u>16.25</u>	<u>2762.50</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>35.20</u>	@	<u>35.20</u>	<u>1239.20</u>
ASC		@		

EQUIPMENT

PUMP TRUCK CEMENTER John

# 409 HELPER John

BULK TRUCK

# 410 DRIVER Way

BULK TRUCK

# DRIVER

HANDLING	<u>179</u>	@	<u>2.25</u>	<u>402.75</u>
MILEAGE	<u>8771</u>	@	<u>11</u>	<u>964.81</u>
TOTAL				<u>4543.01</u>

REMARKS:

ran 6 sk of 170 sk 2 1/2" 2640' circulation

mix 170 sk class A 3 1/2" 2640' Displaced

15 1/2 bbl slotted in

Land D/O circulation for surface!

THANKS!

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>1185.00</u>
EXTRA FOOTAGE		@		
MILEAGE <u>mil/v</u> <u>49</u>		@	<u>7.00</u>	<u>343.00</u>
MANIFOLD		@		
<u>mil/v</u> <u>49</u>		@	<u>4.00</u>	<u>196.00</u>
TOTAL				<u>1664.00</u>

CHARGE TO: Kernco

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL <u>0</u>			

To: Allied Oil & Gas Services, 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.

SALES TAX (if Any) 200.05

TOTAL CHARGES 0,267.01

DISCOUNT 20/30 1692.54 IF PAID IN 30 DAYS

PRINTED NAME

SIGNATURE Keith Kerley

BS  
5-25

# ALLIED OIL & GAS SERVICES, LLC 056420

Federal Tax I.D.:

PERMIT TO R.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Russell Ks.

DATE <u>6-3-12</u>	SEC. <u>17</u>	TWP. <u>9 S</u>	RANGE <u>18W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:30 AM</u>	JOB FINISH <u>9:00 AM</u>
LEASE <u>HARRISON</u>	WELL # <u>A-12</u>	LOCATION <u>Plainville Ks. 2W 2N 1/4</u>				COUNTY <u>ROCKS</u>	STATE <u>KANSAS</u>
OLD OR (NEW) (Circle one)							

CONTRACTOR <u>American Eagle Rig #2</u>	OWNER
TYPE OF JOB <u>PRODUCTION STRING</u>	LTD. <u>NO</u>
HOLE SIZE <u>7 7/8</u>	R.T.D. <u>3620</u>
CASING SIZE <u>5 1/2 New 14#</u>	DEPTH <u>3619</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL PORT <u>Collar @</u>	DEPTH <u>1521</u>
PRES. MAX <u>2200 #</u>	MINIMUM <u>300 #</u>
MEAS. LINE	SHOE JOINT <u>21'</u>
CEMENT LEFT IN CSG. <u>21'</u>	
PERFS.	
DISPLACEMENT <u>87.90 / BBL</u>	

CEMENT	AMOUNT ORDERED <u>180 SX ASC.</u>
	<u>500 Gal. WER 2 MUD-FLUSH</u>
COMMON	<u>5</u> @
POZMIX	@
GEL	@
CHLORIDE	@
ASC	<u>180 SX</u> @ <u>19.00</u> = <u>3420.00</u>
Mud FLUSH	<u>500</u> @ <u>1.27</u> = <u>635.00</u>
180 com.	@
22 Gyl.	@
20 salt	@
4-Bbl.	@
HANDLING <u>180</u>	@ <u>2.25</u> = <u>405.00</u>
MILEAGE <u>49 x 180 x .011</u>	@ <u>11¢</u> = <u>970.20</u>
<u>8820</u>	TOTAL <u>5430.20</u>

EQUIPMENT

PUMP TRUCK	CEMENTER <u>Glen G.</u>
# <u>417</u>	HELPER <u>Woody O.</u>
BULK TRUCK	
# <u>423</u>	DRIVER <u>Cody</u>
BULK TRUCK	
#	DRIVER

REMARKS: Port Collar on #50 (1521)

Run 87 New Joints of 14" 5 1/2" CSG.  
Set @ 3619, Rejuven Circ. Drop AFU  
Ball Circulate 1 Hr. mix Mud-Flush  
+ Cement w/150 SX ASC. Circ-Live  
Release plug, Lt Displace 87.90 GAL FRESH  
Water, hand Latch on Plug @ 2200 #  
Release Pressure & Plug - (HOLD)  
30 SX @ Port Hole - THANKS

SERVICE

DEPTH OF JOB <u>3619</u>	
PUMP TRUCK CHARGE	<u>222.5</u>
EXTRA FOOTAGE	@
MILEAGE <u>49 Hx M</u>	@ <u>7.00</u> = <u>343.00</u>
MANIFOLD	@
<u>49 Hx M</u>	@ <u>4.00</u> = <u>196.00</u>
<u>Rotating Head Rental</u>	@ <u>200.00</u>
	TOTAL <u>2964.00</u>

CHARGE TO: Tengasco Inc.

STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

FLATSHAE	@	<u>381.00</u>
Latch Drilling Assy	@	<u>194.00</u>
5-CENTRAL	@ <u>49.00</u>	<u>245.00</u>
2-BASKERS	@ <u>236.00</u>	<u>472.00</u>
IR. Port Collar	@	<u>2600.00</u>
	TOTAL	<u>3892.00</u>

To: Allied Oil & Gas Services, 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.

SALES TAX (If Any)	<u>500.66</u>
TOTAL CHARGES	<u>12286.20</u>
DISCOUNT <u>20/50</u>	<u>2910.00</u> IF PAID IN 30 DAYS

PRINTED NAME \_\_\_\_\_

SIGNATURE Keith Kuhl

Net 9,376.20 before tax  
BS  
6-4-12

# ALLIED OIL & GAS SERVICES, LLC 056423

Federal Tax I.D. #

ATTN: P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
*Russell, KS*

DATE	SEC.	TRW.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
6-11-12	17	9	18w			11:00 AM	11:30 AM
LEASE		WELL #		LOCATION		COUNTY	STATE
HARRISON		A-12		Prinville, Ks. 2422 N 4w		ROOKS	KANSAS
OLD OR NEW (Circle one)							

**CONTRACTOR** Fisher Well Service  
**TYPE OF JOB** Part Collar (Circ. Cement)  
**HOLE SIZE** T.D.  
**CASING SIZE** 5 1/2 **DEPTH**  
**TUBING SIZE** 2 7/8 **DEPTH**  
**DRILL PIPE** **DEPTH**  
**TOOL** Port Collar @ **DEPTH** 1521  
**PRES. MAX** 800 # **MINIMUM** 300 #  
**MEAS. LINE** **SHOE JOINT**  
**CEMENT LBFT IN CSG.**  
**PERFS.**  
**DISPLACEMENT** Gauge 8" / BBL  
**EQUIPMENT**

**OWNER**  
**CEMENT**  
**AMOUNT ORDERED** 225 SY 60 48 GEL  
1/4 # F10 Seal Per SY  
  
**COMMON** 165 SY @ 11.25 2681.25  
**POZMIX** 110 SY @ 8.50 935.00  
**GEL** 11.5 SY @ 21.25 233.75  
**CHLORIDE**  
**FLUORIDE**  
**FLUORIDE** (3 SY) @ 2.70 202.50  
  
**HANDLING** 289 TOTAL SY @ 2.25 650.25  
**MILEAGE** 49 TAN Mile @ 11¢ 537.71  
14161 TOTAL 6260.46

**PUMP TRUCK** **CEMENTER** Glenn Gentry  
**#** 419 **HELPER** Woody O. Neil  
**BULK TRUCK**  
**#** 481 **DRIVER** Cody Hood  
**BULK TRUCK**  
**#** **DRIVER**

**REMARKS:**

P.B.T.D. @ 3594'. Test CSG. + PC.  
 To 800# Head. Part Collar @ 1521'  
 Open P. Collar + Recirculate Circulation  
 Mixed 2 TOTAL OF 225 SY @ 48  
 48 GEL 1/4 # F10 Seal. Displace Seal  
 Behind Cement. Closed Port Collar  
 & Test to 800# (Head). Ran  
 5 Joints of Tubing + Washed  
 Clean, 85559 Shortway. THANK'S!

**SERVICE**  
**DEPTH OF JOB** 1521 1025.00  
**PUMP TRUCK CHARGE**  
**EXTRA FOOTAGE** @  
**MILEAGE** 49 Hwy @ 2.00 343.00  
**MANIFOLD** @  
49 1/4" WT. @ 4.00 196.00  
  
**TOTAL** 1564.00

**CHARGE TO:** TENARSCO Inc.  
**STREET**

**CITY** \_\_\_\_\_ **STATE** \_\_\_\_\_ **ZIP** \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
  
**TOTAL** 0

\* State Reg. Part Return (KCC) on Location.  
 Cement Did Circulate to Surface

To: Allied Oil & Gas Services, LLC.  
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**SALES TAX (If Any)** 255.30  
**TOTAL CHARGES** 7824.46  
**DISCOUNT** 20/50 2193.90 IF PAID IN 30 DAYS

**PRINTED NAME** \_\_\_\_\_

**SIGNATURE** Mary Wagner

Net 5630.56      BS 6-11