

Surface

To: Jeff-Chek Exploration LLC
From: ITW Oilfield Consulting, Tim Gillogly
Re: Full Bore #3 surface casing pipe set

On location Friday, 9-19-14, at 5:00 pm. The rig crew had already unloaded and tallied 28 joints of surface casing. Back on location Saturday, 9-20-14, at 11:30 pm. Maximum Torque casing crew on location. The rig was making a wiper trip. Tripped in the hole with bit and circulated on bottom for 1 hour to condition the hole. Pulled the drill pipe and collars in preparation to run surface casing. RTD at 1210'. Rigged up to run surface casing. Started running the casing at 3:00 am on 9-21-14 and finished at 7:45 am. Ran a total of **28 joints of 8 5/8" OD, 23 lb., 8rd, ST & C, Rng. 3, limited service, casing.** Ran 16 joints of casing into the well without issue. The casing hung up and stacked out, 12' out on the 17th joint. Reciprocated the casing up and down, unable to run any deeper than 715' with the guide shoe. Hooked up the rig's mud pump to the casing and attempted to circulate the casing into the well bore. Pressured up the casing to 1000 PSI, mud pump's maximum pressure, had no returns. Disconnected the mud pump and hooked up Allied pump truck to the casing. Took 2000 PSI to get fluid movement. Circulated the remainder of the joint down to a depth of 727'. Picked up the 18th joint and circulated it into the hole, down to a depth of 769' with the rig's mud pump. The 19th through the 26th joints ran into the well free and without circulation. Hung up and stacked out on the 27th joint. Circulated into the well from 1106' to 1148' with the rig's mud pump. The last joint, 28th, ran in without circulation, but the guide shoe floated to bottom. Didn't tag up on TD with the casing. Landed the casing 19.62' off bottom. Broke circulation at 75 PSI with rig's mud pump. After establishing good returns, RDMO Maximum Torque. MIRU Allied Oil and Gas Services. Cemented as follows: **5 barrels of fresh water pre-flush. Lead cement of 225 sacks of light weight A con blend common premium cement with 2% sodium metasilicate, 2% gypsum, 2% CC. Fluid yield of 2.34 cu. ft./sack, 10.5 gals./sack and 12.2 ppg. Tail cement of 225 sacks of common class A cement with 2% gel, 3% CC and 1/4 lb./sk. of flo-seal. Fluid yield of 1.32 cu. ft./sack, 7.3 gals./sack and 15.1 ppg. Total of 450 sacks of cement.** Released the wiper plug. Displaced with 73.1 barrels of fresh water, plus 3% over. Average lift pressure of 300 PSI. The plug didn't land. Finished displacement at 9:45 am. Shut in the casing. Washed up the pump truck and lines. RDMO Allied Services. Cement circulated and pumped approximately 46 barrels to the pit.

Casing ran as follows (bottom to top):

0.98'	Guide shoe
42.14'	(1 jt.) - 8 5/8" OD, 23 lb., 8rd, ST & C, range 3, limited service casing, shoe joint (cond. - New)
0.00'	Insert baffle plate in the top of the shoe joints collar
<u>1137.76'</u>	(27 jts.) - 8 5/8" OD, 23 lb., 8rd, ST & C, range 3, limited service, casing (cond. - New)
1180.88'	Total equipment
<u>9.50'</u>	Zero measurement
1190.38'	Depth landed

Depth of Centralizers: 169', 590' and 885'

Cement Basket: 716'

PBTD: 1147' (Top of shoe joint)

NOTE: The guide shoe and the bottom 3 joints of casing have metal straps welded on them. On the next 14 joints of casing ran into the well, welded the top and bottom of the casing collars. The remaining 11 joints ran into the well were not welded.

Surface

Running & Cementing Surface Casing Report

Company Jeff-Chek Exploration LLC Lease Full Bore Well # 3 Date 9-21-14
State Kansas County Trego Section 26 Township 12S Range 25W
RTD 1210' LTD Spot Description 715' FNL and 2310' FEL, N/2 - SW - NW - NE

K.B. 2482.00' R.T. 2481.42' D.F. 2480.59' G.L. 2475.00' S.C.C. 2472.50' Height of Casing Head
K.B. to G.L. 7.00' K.B. to S.C.C. 9.50' Top of Surface Casing Collar below G. L. 2.50'
K.B. to top of Casing Collar 9.50' Casing Length Landed Above K.B. or R.D.B. 2.21' Jt. Length to Land the Casing 11.71'

Surface Casing Description and Running Order:

- (1) 1 jt. - 8 5/8" OD, 23 lb., 8 rd, ST & C, R-3, Limited Service (SHOE JT.)
(2) Insert baffle plate in the top of the shoe joint.
(3) 27 jts. - 8 5/8" OD, 23 lb., 8 rd, ST & C, R-3, Limited Service

Started Running Casing 3:00 am Finished Running Casing 7:45 am
Casing Setting Point (#14) 1190.38' K.B. or R.D.B. Insert Float Setting Point 1147.26' K.B. or R.D.B.

Float Equipment: Shoe Joint Guide Shoe on bottom PBTD (Top of Shoe Joint) 1147'
Centralizer: 169', 590' and 885' Cement Basket 716'

Opening Pressure 75 PSI Circulated 10 minutes Circulated Pressure 75 PSI

Single Stage: Started Mixing 8:32 am Finished Mixing 9:13 am Total Mixing Time 41 mins.
Started Plug 9:22 am Plug Landed 9:45 am Time to Pump Plug 23 mins.
Max. PSI to Pump Plug 300 PSI Pressure Plug Landed Not landed Bbls. to Displace Plug 75.30 Shut in at 0 PSI Plug Stopped at Unknown
Baffle Insert Used? Yes Type of Plug Rubber Wiper

Lead cement 225 sacks of light weight A con blend common premium cement with 2% sodium metasilicate, 2% gypsum & 2% CC.
Fluid yeild 2.34 cu. ft./sack, 10.5 gals./sack and 12.2 ppg.

Tail cement 225 sacks of common class A cement with 2% gel, 3% CC & 1/4 lb./sack of flo-seal.
Fluid yeild 1.32 cu. ft./sack, 7.3 gals./sack and 15.1 ppg.

Table with 3 columns: Item #, Description, and Measurement. Includes items like Shoe Guide shoe, Shoe Jt., Shoe Jt. Collar, Jts., Marker Jt., DV Tool, Landing Jt., and Total Joints Used.

Threads Off Measurements Number of Tally
Pipe Transferred to location 28 Joints 1179.90
Pipe Transferred away from location Joints
Pipe Chargeable to location 28 Joints 1179.90 Casing in Hole, Threads Off
ALL MEASUREMENTS TO BE IN FEET AND HUNDREDTHS

Signature Tim Gillogly Title Consultant - ITW

Date 09-21-11 District Great Bend Ticket No. 63789
 Company Jeff Chek Exploration Rig MAUCOCH
 Lease Full Base Well No. 3
 County Trego State KS
 Location E-70 Unit 115 Colyer Field _____
2 1/2 South To Rd K-249 East - 2 1/4 South East 1/4

CEMENT DATA:
 Spacer Type: Fresh SABIS
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 8 1/2 Type _____ Weight 23 Collar _____

LEAD: Pump Time Thicker hrs. Type A Con Blend
Common Premium Excess _____
 Amt. 225 Sks Yield 2.34 ft³/sk Density 12.2 PPG

TAIL: Pump Time Thicker hrs. Type CLASS A
3% cc 2% cel Excess _____
 Amt. 225 Sks Yield 1.32 ft³/sk Density 15.10 PPG

Casing Depths: Top _____ Bottom 1190

WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used 597 Ken Newell
 Bulk Equip. 3701-94 Ken's Weighous

Drill Pipe: Size _____ Weight _____ Collars _____
 Open Hole: Size 12 1/4 T.D. 1210 ft. P.B. to _____ ft.

Floater Equipment: Manufacturer _____
 Shoe: Type _____ Depth _____

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 206.37 Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

Floater Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type 1130 Amt. 73-11 Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER Kevin Todd

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
<u>1:00 PM</u>						<u>on location, 30 feet, meeting, rig up</u>
						<u>Rig RW 1190' 8 1/2 casing</u>
<u>2:55 PM</u>						<u>thick size w/ rig mud</u>
						<u>thick to head</u>
<u>3:25 PM</u>			<u>5</u>		<u>5</u>	<u>1 amp SABIS 1130</u>
<u>3:32 PM</u>			<u>73.76</u>		<u>5</u>	<u>mix 225 sks A Con Blend Common Premium</u>
<u>4:00 PM</u>			<u>32.03</u>		<u>5</u>	<u>mix 225 sks CLASS A 3% cc 2% cel</u>
<u>3:10 PM</u>			<u>73.11</u>		<u>6</u>	<u>Dis, lace 73-11 BBS Fresh 1130</u>
						<u>Cement DID. C/S</u>
						<u>Plug top 10' head</u>
<u>7:45 PM</u>						<u>SHUT IN</u>

ALLIED OIL & GAS SERVICES, LLC

Surface

063987

License # 99996

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Great Bend KS

DATE 09-21-14	SEC. 29	TWP. 12	RANGE 25	CALLED OUT	ON LOCATION 10:00 PM	JOB START 9:00 AM	JOB FINISH 10:00 AM
LEASE Full Bore	WELL # 3	LOCATION I 70 Exit 115 Collyer - 2 1/2 south			COUNTY Trego	STATE KS	
OLD OR NEW (Circle one)			To Rd K - 2 1/2 East - 2/10 South - East into				

CONTRACTOR MAVERICK
TYPE OF JOB Surface
HOLE SIZE 12 1/4 T.D. 1210
CASING SIZE 8 5/8 DEPTH 1190
TUBING SIZE DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG. 42.14 ft
PERFS.
DISPLACEMENT 73.11 Fresh H2O

OWNER
CEMENT
AMOUNT ORDERED 225 SKS Acon Common
Premium
225 SKS CLASS A 3% CC 2% Gel
COMMON ~~450 SKS~~ @ 17.90 4027.50
POZMIX @
GEL 424 LBS @ .50 212.00
CHLORIDE 1272 LBS @ 110. 1399.20
ASC @
A-con Blend common Premium @ 25.00 5,625.00
Flacel/cell flake @ 2.97 335.61
@
@
@
@
@
HANDLING 450 SKS @ 2.48 1116.00
MILEAGE 636 TM @ 2.75 1749.00
TOTAL 14,464.31

EQUIPMENT

PUMP TRUCK CEMENTER Kevin Adder
597 HELPER Ben Newell
BULK TRUCK
8701844 DRIVER Kevin Weighouse
BULK TRUCK
DRIVER

REMARKS:

Arrived on location, safety meeting, rig up
Rip crew ran 5 1/2 1190 ft of casing. Hook head
up and broke circ w/ rig mud. Pump 5 ahead
Fresh H2O. mix 225 SKS Acon Blend common
Premium. mix 225 SKS CLASS A 3% CC 2% Gel
Displaced 73.11 BBls Fresh H2O cement
Did circ shut in - Rig down
Did NOT land plug

SERVICE

DEPTH OF JOB 1190
PUMP TRUCK CHARGE ~~60mi~~ 2213.75
EXTRA FOOTAGE @
MILEAGE 60 mi @ 7.70 462.00
MANIFOLD @ 275.00
Cum 30 mi @ 4.40 132.00
@

TOTAL 3,082.75

CHARGE TO: Jeff Chek Exploration
STREET
CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

Rubber Plug 8 5/8 1 @ ~~131.00~~ 131.00
Centralizer 3 @ 75.00 225.00
Baffle Plate 1 @ 170.00 170.00
Guide shoe - Regular @ 460.00 460.00
~~Bracket~~ @
TOTAL 986.00

SALES TAX (If Any)

TOTAL CHARGES 18,533.06

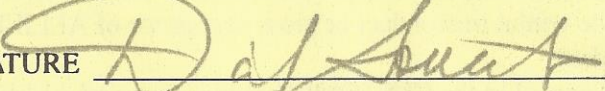
DISCOUNT 5559.92 IF PAID IN 30 DAYS

\$12,973.14

dsoucek@yahoo.com
please email copy.

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.

PRINTED NAME DAVID SOUCEK

SIGNATURE 

PLUG

ALLIED OIL & GAS SERVICES, LLC 055513

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Russell, ks

DATE <u>10.6.14</u>	SEC. <u>26</u>	TWP. <u>12</u>	RANGE <u>25</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Full</u>	WELL# <u>3</u>	LOCATION <u>1-70 Ex 1/2 115 Colyer</u>		COUNTY <u>Trego</u>	STATE <u>Ks</u>		
OLD OR (NEW) (Circle one)							

CONTRACTOR Maverick

TYPE OF JOB PTA

HOLE SIZE 7 1/8 T.D.

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 4586'

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT

AMOUNT ORDERED 255 sk

60' 40' + 4% gel

COMMON 255 sk @ 18.92 \$ 4824.60

POZMIX @

GEL @

CHLORIDE @

ASC @

Cell Flake 64lb @ 2.97 \$ 190.08

Material @ 5014.68

Disc @ 1404.11

HANDLING 255 sk @ 2.48 \$ 632.40

MILEAGE 360 @ 2.75 \$ 990.00

TOTAL 1637.08

EQUIPMENT

PUMP TRUCK # 417 CEMENTER Jonny Pfannstiel

HELPER Danny S

BULK TRUCK # 410 DRIVER Jon P

BULK TRUCK # DRIVER

REMARKS:

P1 = 4586' @ 50SK P2 = 2100' @ 50SK

P3 = 1240' @ 100SK P4 = 40' @ 10SK

1x 8 3/8 Wooden Plug

P5 = RA740LE - 30SK

See Cementing Job Log

CHARGE TO: Jeff Chek Exploration LLC

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB 4586'

PUMP TRUCK CHARGE \$ 2,765.75

EXTRA FOOTAGE @

MILEAGE Heavy 60 @ 7.7 \$ 462.00

MANIFOLD High 30 @ 4.4 \$ 132.00

1x Plug Container @ - \$ 275.00

TOTAL 5251.15

Disc 1472.00

TOTAL 3779.15

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.

PRINTED NAME David Yoff

SIGNATURE [Signature]

PLUG & FLOAT EQUIPMENT

1x 8 3/8 Wooden Plug @ - \$ 110.00

Disc 30.80

TOTAL \$ 110.00

SALES TAX (If Any)

TOTAL CHARGES \$ 10,381.83

DISCOUNT \$ 2,906.91 (28%) IF PAID IN 30 DAYS

Net 7474.92

Date 10-6-14 District Russell Ticket No. 55513
 Company JOFF OIL & GAS Exploratory Rig MAVERICK
 Lease Full Bore Well No. 3
 County Trego State Ks
 Location 1-26 Ex 115 Field 21105 east int

CASING DATA: Conductor PTA Squeeze Misc
 Surface Intermediate Production Liner
 Size 4 1/2 Type Drill Pipe Weight _____ Collar _____

4 1/2 Drill pipe in 7 7/8 in 2
4586'
 Casing Depths: Top 0' Bottom 4586'

P1 = 4586' @ 50SK P2 = 2100' @ 50SK
P3 = 1240' @ 10SK P4 = 40' @ 10SK
 Drill Pipe: Size 2 1/2 Weight 1x8 1/2 Collars wooden plugs

Open Hole: Size _____ T.D. _____ ft. P.B. to _____ ft.
 CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Open Holes: Bbls/Lin. ft. _____ Lin. ft./Bbl. .05402
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. .01422
 Annulus: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:
 Spacer Type: _____
 Amt. 255 Skys Yield 1.42 ft³/sk Density _____ PPG

6040 + 4% gel
 LEAD: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG
 TAIL: Pump Time _____ hrs. Type _____
 Excess _____

Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG
 WATER: Lead _____ gals/sk Tail _____ gals/sk Total _____ Bbls.

Pump Trucks Used # 417 - 29 mcs
 Bulk Equip. # 410 - Jon P

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs Top _____ Btm. _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type _____ Amt. _____ Bbls. Weight _____ PPG
 Mud Type _____ Weight _____ PPG

COMPANY REPRESENTATIVE _____

CEMENTER Jon P. [Signature]

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
5:00						on location - Safety meeting Set up Truck for mixing
6:30						Ran 4 1/2 Drill pipe in 7 7/8 hole in 2 4586'
8:00			8.12	3		P1 = 4586' @ 50SK - mixed 50SK 6040 + 4% gel @ 8.12 min Displaced cement @ 4 1/2" mud/min (kelly)
9:00			8.12	3		P2 = 2100' @ 50SK - mixed 50SK 6040 + 4% gel @ 8.12 min Displaced cement @ 2.85 min
9:30			16.33	3		P3 = 1240' @ 10SK - mixed 10SK 6040 + 4% gel @ 16.33 min Displaced cement @ 7.4 min
1:00			1.64	3		P4 = 40' @ 10SK - mixed 10SK 6040 + 4% gel @ 1.63 min 1x 8 1/2 wooden plug Cement to surface
10:30			5.0	3		P5 = RAT HOLE 30SK - mixed 6040 + 4% gel @ 4.96 min Cement to surface
11:50						Job complete - Washed Truck

FINAL DISP. PRESS: _____ PSI BUMP PLUG TO _____ PSI BLEEDBACK _____ BBLs. THANK YOU

Plug
Plug