

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

Operator: License # 33097
Name: Southern Star Central Gas Pipeline
Address: 4700 Hwy. 56 P. O. Box 20010
City/State/Zip: Owensboro, Kentucky 42304-0010
Purchaser: _____
Operator Contact Person: D. Mark Rouse
Phone: (270) 852-4490
Contractor: Name: Splane Pulling and Roustabout Services
License: 6372
Wellsite Geologist: _____

Designate Type of Completion:

____ New Well ____ Re-Entry ☒ Workover
____ Oil ____ SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
____ Dry ☒ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows:

Operator: Southern Star Central Gas Pipeline
Well Name: Piqua #0-5
Original Comp. Date: 4/2/1956 Original Total Depth: 1097'
____ Deepening ____ Re-perf. ____ Conv. to Enhr./SWD
____ Plug Back ____ Plug Back Total Depth
____ Commingled ____ Docket No. _____
____ Dual Completion ____ Docket No. _____
☒ Other (SWD or Enhr.?) ____ Docket No. Gas Storage Observation
9-21-06 2/1956 9-21/06
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 207-19446-00-01
County: Woodson
____ NE ____ NE ____ SE Sec. 9 Twp. 25 S. R. 17 ☒ East ☐ West
2374' feet from S / N (circle one) Line of Section
313' feet from E / W (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Piqua Gas Storage Well #: 0-5
Field Name: Piqua Gas Storage
Producing Formation: Colony Sandstone
Elevation: Ground: _____ Kelly Bushing: _____
Total Depth: 1097' Plug Back Total Depth: 929'
Amount of Surface Pipe Set and Cemented at _____ Feet
Multiple Stage Cementing Collar Used? ☐ Yes ☒ No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used _____

Location of fluid disposal if hauled offsite:

Operator Name: Hurricane Trucking and Well service
Lease Name: Curry Disposal License No.: 32006
Quarter ____ Sec. 15 Twp. 22 S. R. 11 ☒ East ☐ West
County: Greenwood Docket No.: D-26,554

ALTZ-Dlg-2/23/09

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: D. Mark Rouse
Title: Staff Geologist Date: 10-30-2006
Subscribed and sworn to before me this 30th day of October,
2006.
Notary Public: Sullivan R. Rouse
Date Commission Expires: 10-30-2009

KCC Office Use ONLY

☒ Letter of Confidentiality Received
☒ If Denied, Yes ☐ Date: _____
☒ Wireline Log Received
____ Geologist Report Received
____ UIC Distribution

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Operator Name: Southern Star Central Gas Pipeline Lease Name: Piqua Gas Storage Well #: 0-5
 Sec. 9 Twp. 25 S. R. 17 ☒ East ☐ West County: Woodson

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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken ☐ Yes ☒ No
 (Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☒ No

Cores Taken ☐ Yes ☒ No

Electric Log Run ☐ Yes ☒ No
 (Submit Copy)

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☐ Sample
 Name Top Datum

CASING RECORD ☒ New ☐ 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							
production							
liner	inside 7"	2 7/8"	4.5	930.5	OWC	80	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ Plug Off Zone				

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
4 shts./ft.	890-900' 900-910'		

TUBING RECORD		Size	Set At	Packer At	Liner Run ☐ Yes ☐ No
Date of First, Resumed Production, SWD or Enhr.		Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas METHOD OF COMPLETION

☐ Vented ☐ Sold ☐ Used on Lease
 (If vented, Submit ACO-18.)

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled
☐ Other (Specify) _____

Production Interval

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KCC WICHITA

Hurricane Truck Services, Inc.
P.O. Box 782228
Wichita, KS 67278-2228

Shop # (620) 437-2661
 Cellular # (620) 437-7582
 Office # (316) 685-5908
 Office Fax # (316) 685-5926

Contract# 2001-5329
 RFS# 535

MC ID # 165290

Shop Address: Route 1
 Madison, KS 66860

Customer:
 SOUTHERN STAR CENTRAL GAS PIPELINE
 PO BOX 550
 19209 SW MARYLAND RD
 WELDA, KS 66091

Invoice Date 8/31/2006
 Invoice # 6758
 Lease Name PIQUA
 Well # 0 - 5
 PO #44831

Date	Description	Hrs/Qty	Rate	Total
8/31/2006	Drove to location, circulated well clean and cemented production string per attached Service ticket #T1529.			
	Pump - To circulate	2.00	125.00	250.00
	Quick Set Cement w/additives	80.00	13.22	1,057.60
	2 7/8" Float Shoe EUE - Ball Type	1.00	98.00	98.00
	2 7/8" Centralizer x 6"	6.00	26.25	157.50
	Vacuum truck	3.00	75.00	225.00
	Water - Transport truck	3.00	90.00	270.00
	Bulk truck mileage - Minimum charge	1.00	200.00	200.00
	Pump charge	1.00	700.00	700.00
	Mileage - One way	45.00	2.75	123.75
	Soap (Foamer)	2.50	22.50	56.25
	2 7/8" Top Rubber Plug	1.00	17.50	17.50
	City Water - 140 bbls	1.00	40.00	40.00



SSC000000092344

Total \$3,195.60

All invoices are due upon receipt. Interest at the rate of 1 1/2% per month may be charged on all invoices not paid within 30 days from date of invoice.

WE APPRECIATE YOUR BUSINESS!

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KCC WICHITA

FED ID# 48-1214033
MC ID # 156212
Shop # 620 437-2661
Cellular # 620 437-7582
Office # 316 685-5908
Office Fax # 316-685-5926
Shop Address. 3613A Y Road
Madison, KS 66860

Hurricane Truck Services, Inc.
P.O. Box 782228
Wichita, KS 67278-2228

Cement and Acid
Service Ticket
T 1529

DATE 8-31-06

COUNTY Woodson CITY _____

CHARGE TO Southern Star Pin # 44831

ADDRESS P.O. Box 550 CITY Welda ST Ks. ZIP 66091

LEASE & WELL NO. Pigua #0-5 CONTRACTOR Hurricane Well Serv.

KIND OF JOB Line / Production String SEC. 9 TWP. 25S RNG. 17E

DIR. TO LOC. South 2 1/2 miles of 54 Hwy at Pigua, Ks. West into OLD NEW

Quantity	MATERIAL USED	Serv. Charge	
			700.00
2	Misc Pump > Circulate Well Clean w/ Tubing & Scraper		250.00
80 SKS	Quick Set Cement (Class A cement, 42.6 lb, 22 qt 12, 8" 1 1/2" CAI-SEAL)		1,057.60
1	2 7/8" Float Shoe - Bell Type		98.00
6	2 7/8" Centralizers		157.50
3 Hrs	VAC Truck		225.00
3 Hrs	Water Transport		270.00
45	BULK TRK. MILES 4.4 Toas > Minimum Charge		200.00
45	PUMP TRK. MILES		123.75
2 1/2	GAL. SOAP (Foamer)		56.25
1	PLUGS 2 7/8" Top Rubber Plug		17.50
1/40 Bbls	City Water		40.00
		TOTAL	3195.60

T.D. PBTD 930'

CSG. SET AT 930' Annulus VOLUME 15 1/4 Bbls

SIZE HOLE _____

TBG SET AT 930' VOLUME 5 1/4 Bbls

MAX. PRESS. _____

SIZE PIPE 2 7/8" inside of 5 1/2" casing

PLUG DEPTH _____

PKER DEPTH _____

PLUG USED 2 7/8" Top Rubber Plug

TIME FINISHED 2:45 p.m.

REMARKS: Ran Tubing in Hole with 5 1/2" Scraper & Bit, Rig up to Annulus, circulate Well clean with
40 Bbls water, 930' PBTD - Trip out of Hole - Run 2 7/8" Tubing w/ Float Equipment To
Rig up to Tubing - Break circulation - Pumped Bbls water.

Details on cementing Procedure - See Cementing Log Sheet

Note: Good cement fit into Surface w/ 6 Bbl slurry - 20 SKS "Thank you"

EQUIPMENT USED

NAME _____ UNIT NO. _____

NAME _____ UNIT NO. _____

Heath Watts 185

Dan #91, Dale #88, Kelly #170

Brad Butler

Bernard K. Becker

CEMENTER OR TREATER

OWNER'S REP.

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KCC WICHITA

FED ID # 43-1214033
MO ID # 156212
Shop # 620 437-2661
Cellular # 620 437-7582
Office # 316-685-5908
Office Fax # 316-685-5926
Shop Address: 3613A Y Road
Madison, KS 66860

Hurricane Truck Services, Inc.
P.O. Box 782228
Wichita, KS 67278-2228

Acid/Cementing Log

Date 8-31-06 District Madison Ticket No. 1529
Company Southern Star Rig Hurricane Well
Lease Piqua Well No. 0-5
County Woodson State KS
Location Field Piqua Geo Field
Pin # 44831

CASING DATA: ☐ PTA ☐ Squeeze ☐ Acid ☐ Mini Frac
☐ Surface ☐ Intermediate ☐ Production ☒ Liner
Size 2 7/8" Type 8 1/2 Weight Collar

Casing Depths: Top 5 1/2" - 930' Bottom 933'

Drill Pipe Size Weight Collars

Clear Hole Size T.D. ft. P.B. to ft.

CAPACITY FACTORS

Casing: Bbls/Lin. ft. 0.164 Lin. ft./Bbl. 61.08
Open Holes: Bbls/Lin. ft. Lin. ft./Bbl.
Drill Pipe: Bbls/Lin. ft. Lin. ft./Bbl.
Annulus: Bbls/Lin. ft. Lin. ft./Bbl.
Tubing: Bbls/Lin. ft. 0.0579 Lin. ft./Bbl. 172.76
Perforations: From ft. to ft. Amt.
Packer Setting B-Plug Depth

COMPANY REPRESENTATIVE Bernie Rockers

CEMENT DATA

Spacer Type: Pic Flush Ahead
Amt 10 Sks Yield 1.64 H²/sk Density 13.0 PPG

Pumped 10 Bbl. Foam, 3 Bbl. Cement Slurry, 10 Bbl. Foam
Circulate around to condition Holes

LEAD: Pump Time hrs Type

Amt Sks Yield H²/sk Density PPG

TAIL: Pump Time hrs Type

QuickSet Cement Excess 40%

Amt 70 Sks Yield 1.63 H²/sk Density 13.4 PPG

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

Acid Type

Pump Truck Used 185

Bulk Equipment 91

Float Equip. Manufacturer: Industrial Rubber

Shoe Type 2 7/8" Float shoe Ball Type Depth

Float Type Depth

Centralizers Quantity - 2 7/8" Plugs Top 2 7/8" Rim

Stage Collars

Special Equip

Disp. Fluid Type City water Amt 5.4 Bbls. Weight 8.2 PPG

Fluid Type Weight PPG

CEMENTER/CREATOR Brad Butler

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	AM / PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	
2:00						
2:10		300		20	3	Key up Cement Head
		300-1000		43	2 1/2	Break circulation - Pumped 20 Bbls water
		250		63	3	Pumped 10 Bbl. Foam, 10 sks cement, 10 Bbl. Foam
2:23						Pumped water, circulate flush around to condition Holes
2:27		150-400		20	2 1/2	Shut down - Switch water Trucks
2:35						Mixed 70 sks QuickSet cement at 13.4 H ² /sk
2:38		350-500		25 1/2	5 1/2	Shut down - Washout pump - Release Plug
2:41		1500				Displace Plug w/ 5 1/4 Bbls water
2:42		0				Loaded Plug - Release To 1000 PSI
3:00						Release Pressure - Float Held - Close in w/ O PSI
						Job complete - Wash up - Teardown

"Thank you"

Note: Good cement returns to surface
With 6 Bbl slurry = 20 sks

FINAL DISP PRESS: 500 PSI DUMP PLUG TO 1500 PSI BLEEDBACK BBLs
SIP PSI 5 MIN PSI 10 MIN PSI 15 MIN

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