

200
RIGHT

FORM MUST BE TYPED

SIDE ONE

ORIGINAL

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 32320
Name: Southwestern Energy Production Co.
Address 5600 N. May, Suite 200
Oklahoma City, Ok. 73112
Purchaser: James M. Tully
Operator Contact Person: James M. Tully
Phone (405) 843-5539
Contractor: Name: Duke Drilling Co., Inc.
License: 5929
Wellsite Geologist: _____
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, MSW, Expt, Cathodic, etc.)
If Workover: _____
Operator: _____
Well Name: _____
Comp. Date _____
 Deepening Re-perf. Conv. to Inj/SWD
 Plug Back PBT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____
06-01-98 06-06-98 06-07-98
Spud Date Date Reached TD Completion Date

API NO. 15- 077-21352-0000
County Harper County, Kansas
CESW SE Sec. 5 Twp. 33 Rge. 7 XXV
660 Feet from SW (circle one) Line of Section
1980 Feet from E (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)
Lease Name Thomas Well # 185
Field Name _____
Producing Formation _____
Elevation: Ground 1333' KB 1341'
Total Depth 4000' P8TD 4000'
Amount of Surface Pipe Set and Cemented at 306 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/ _____ sx cmt.
Drilling Fluid Management Plan D+A, 7-22-98 U.C.
(Data must be collected from the Reserve Pit)

Chloride content 4600 ppm Fluid volume 1000 bbls
Dewatering method used Hauled free fluids w/vacuum truck,
evaporate & dewater remaining fluids.
Location of fluid disposal if hauled offsite: _____
Operator Name Messenger Oil Co.
Lease Name Nicholas SWD License No. 4706
NE Quarter Sec. 20 Twp. 30 S Rng. 8 E/W
County Kingman Docket No. D27434

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 on 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 James M. Tully
Title Sr. Drilling Engineer Date 6-24-98
Subscribed and sworn to before me this 24th day of June, 1998.
Notary Public Debra M. Brooks
Date Commission Expires March 30, 1999

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

Operator Name Southwestern Energy Production Co Lease Name Thomas Well # 105

Sec. 5 Twp. 33 Rge. 7 East West county Harper County, Kansas.

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name:	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Electric Log Run (Submit Copy.)	<input type="checkbox"/> Yes <input type="checkbox"/> No		
List All E.Logs Run:			

CASING RECORD <input 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#	306'	60/40 Poz	200	3%cc 2%gel

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		Acid, Fracture, Shot, Cement Squeeze Record	
	Specify Footage of Each Interval Perforated		(Amount and Kind of Material Used)	Depth

TUBING RECORD Size Set At Packer At Liner Run Yes No

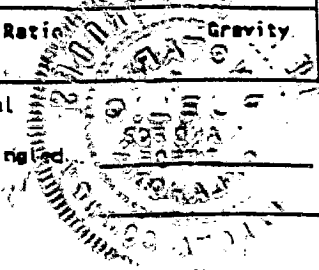
Date of First, Resumed Production, SLD or Inj. DA Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls. <u>NA</u>	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Cemented Other (Specify) _____

Production Interval _____



ALLIED CEMENTING CO., INC. 2137

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

JUN 18 1998
OKC ACCOUNTING

SERVICE POINT:
Medicine Lodge

DATE <u>6-1-98</u>	SEC <u>3</u>	TWP. <u>32S</u>	RANGE <u>11W</u>	CALLED OUT <u>5:00 pm</u>	ON LOCATION <u>6:30 pm</u>	JOB START <u>10:20</u>	JOB FINISH <u>10:45</u>
LEASE <u>Thomas</u>	WELL# <u>1</u>	LOCATION <u>Attica 8E, 3S,</u>		COUNTY <u>Harper</u>	STATE <u>KS.</u>		

OLD OR (NEW) (Circle one)

CONTRACTOR Duke Drilling Co

TYPE OF JOB Surface

HOLE SIZE 1 7/8 T.D. _____

CASING SIZE 8 3/4 x 23 DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX 2000 MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15

PERFS. _____

OWNER _____

CEMENT

AMOUNT ORDERED 200 sq 10:40:2+32cc

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

EQUIPMENT

PUMP TRUCK CEMENTER Carl Balding

266 HELPER Stane Winsor

BULK TRUCK

242 DRIVER Mark Brungardt

BULK TRUCK

_____ DRIVER _____

ORIGINAL

REMARKS:

Pipe on bottom break circulation with
1000 SBL freshwater spacer
mix + cure 200 sq 10:40:2+32cc
switch valves + release plug
Displace w/ 183 BBL freshwater
Displacement in well 7.11
cement in cellar

SERVICE

DEPTH OF JOB 306

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

PLUG Wooden _____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: Duke Drilling

STREET _____

CITY _____ STATE _____ ZIP _____

FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

You are hereby requested to rent cementing equipment and furnish cementer and helper 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 & understand the "TERMS AND CONDITIONS" listed on the reverse side.

SIGNATURE John J. Armbruster

JOHN J. ARMBRUSTER



ORIGINAL

CEMENTING LOG

RECEIVED
STAGE NO. JUN 18 1998
OKG ACCOUNTING

Date 6-1-98 District Medicine Lodge Ticket No. 2134
Company Duke Drilling Co. Rig Duke 2
Lease U Well No.
County Harper State KS
Location Africa 95, 35 Field
L.W. N/K

CASING DATA: PTA Squeeze
Surface Intermediates Production Liner
Size 9 5/8 Type Weight 23 Collar

Casing Depths: Top 513 Bottom 306

Drill Pipe: Size Weight Collars
Open Hole: Size 14 1/4 T.D. ft. P.B. to

CAPACITY FACTORS:
Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70
Open Hole: Bbls/Lin. ft. Lin. ft./Bbl.
Drill Pipe: Bbls/Lin. ft. Lin. ft./Bbl.
Annulus: Bbls/Lin. ft. 0.135 Lin. ft./Bbl. 13.60
Perforations: From ft. to ft. Amt.

CEMENT DATA:
Spacer Type: 5 BBLs Freshwater
Amt. 8 Skis Yield ft³/sk Density

LEAD: Pump Time 14 hrs. Type 60:40:2+32cc
Excess
Amt. 200 Skis Yield 1.26 ft³/sk Density 14.8 PPG
TAIL: Pump Time hrs. Type
Excess
Amt. Skis Yield ft³/sk Density PPG
WATER: Lead 5.6 gals/sk Tail gals/sk Total 26 Bbls

Pump Trucks Used 211 Stone Wincor
Bulk Equip. 247 Mark Baugardt

Floet Equip: Manufacturer
Shoe: Type Depth
Floet Type Depth
Centralizers: Quantity Plugs Top Wooded Bbls
Stage Collars
Special Equip.
Disp. Fluid Type Freshwater Amt. 182 Bbls. Weight 8.34 PPG
Mud Type Weight PPG

COMPANY REPRESENTATIVE John ARBAUSTER CEMENTER Carl Dalduna

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						Pipe on Bottom
11:00	50		5	5	5	Break circulation w/ rig
11:20	200		5	45	5	pump freshwater add
11:30						Mix + pump 200 sk 60:40:2+32cc
11:35					4	Cement in, switch valves + Release pl.
11:45	200		192	182		Start Displacement in
11:55						std 2 pumps
						shut in
						cessed in cellar

ALLIED CEMENTING CO., INC.

2142

ORIGINAL

SERVICE POINT:

Medicine Lodge

TO P.O. BOX 31
RUSSELL, KANSAS 67665

DATE <u>6-1-98</u>	SEC. <u>S</u>	TWP. <u>33s</u>	RANGE <u>7W</u>	CALLED OUT <u>6:30</u>	ON LOCATION <u>9:00 AM</u>	JOB START <u>12:00</u>	JOB FINISH <u>2:00 pm</u>
EASE <u>Thomas</u>		WELL # <u>1-5</u>	LOCATION <u>Attice ks. 8e, 3s, 1 1/2 w</u>		COUNTY <u>Harper</u>	STATE <u>KS</u>	

OLD OR NEW (Circle one)

CONTRACTOR Duke # 2

TYPE OF JOB Rotary plug

HOLE SIZE 7 1/2 I.D. 4000

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 1400

TOOL _____ DEPTH _____

PRES. MAX 150 MINIMUM 50

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

OWNER Southwestern Energy Prod Co.
CEMENT

AMOUNT ORDERED 155 x 60:40:4

COMMON #	<u>93</u>	@	<u>6.35</u>	<u>590.55</u>
POZMIX	<u>62</u>	@	<u>3.25</u>	<u>201.50</u>
GEL	<u>5</u>	@	<u>9.50</u>	<u>47.50</u>
CHLORIDE		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>155</u>	@	<u>1.05</u>	<u>162.75</u>
MILEAGE	<u>155 x 29</u>	@	<u>.04</u>	<u>179.80</u>

TOTAL \$ 482.10

EQUIPMENT

PUMP TRUCK CEMENTER Carl Balding

#266 HELPER Stane Winsor

BULK TRUCK DRIVER James Holt

#242

BULK TRUCK DRIVER _____

REMARKS:

Pump	35 sx	1400'
	35 sx	850'
	45 sx	350'
	25 sx	60'
	15 sx	Rot Hole

SERVICE

DEPTH OF JOB	<u>1400</u>		
PUMP TRUCK CHARGE			<u>470.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>29</u>	@	<u>2.85</u> <u>82.65</u>
PLUG <u>wooden 8 1/2"</u>		@	<u>23.00</u> <u>23.00</u>
		@	
		@	

TOTAL \$ 575.65

CHARGE TO: Southwestern Energy Prod. Co.

STREET Cox 8230

CITY Maat STATE Ko ZIP 67530

Bend

FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

ALLIED CEMENTING CO., INC.

P.O. BOX 31
RUSSELL, KS 67665
PH (785) 483-3887
FAX (785) 483-5566

RECEIVED
JUN 18 1998
OKC ACCOUNTING

INVOICE

Invoice Number: 077737

Invoice Date: 06/16/98

Sold Southwestern Energy
To: Production Co.
5600 H. May, ST #300
Oklahoma City, OK
73112

ORIGINAL

Cust I.D.....: SouthW
P.O. Number...: Thomas 1-5
P.O. Date.....: 06/16/98

Due Date.: 07/16/98
Terms.....: Net 30

Item	Qty	Used	Unit	Price	Net	EX
Common	93.00		SKS	6.3500	590.55	E
Pozmix	62.00		SKS	3.2500	201.50	E
Gel	5.00		SKS	9.5000	47.50	E
Handling	155.00		SKS	1.0500	162.75	E
Mileage (29)	29.00		MILE	6.2000	179.80	E
-155 sks @\$:04 per sk perm			JOB	470.0000	470.00	E
Rotary Plug	1.00		MILE	2.8500	82.65	E
Mileage pmp trk	29.00		EACH	23.0000	23.00	E
Wooden Plug	1.00					

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1 1/2% Charged Thereafter. If Account CURRENT take Discount of \$ 263.66 ONLY if paid within 30 days from Invoice Date

Subtotal: 1757.75
Tax.....: 0.00
Payments: 0.00
Total....: 1757.75

THESE CHARGES PERTAIN TO:

CASING	
<input type="checkbox"/> Conductor	<input type="checkbox"/> Surface
<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production
<input checked="" type="checkbox"/> Lining	<input type="checkbox"/> Completion
<input type="checkbox"/> Production	<input type="checkbox"/> Maintenance
<input type="checkbox"/> Service W/O	<input type="checkbox"/> Remedial
<input type="checkbox"/> Cementation	<input type="checkbox"/> Seismic
<input type="checkbox"/> Wellhead	<input type="checkbox"/> Other
<input type="checkbox"/> Other	<input type="checkbox"/> Other

121-190

Approved by JT Date: 6-23-98