

ORIGINAL

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

Operator: License # 3795

Name: THE SOUTH FORTY, INC

Address R R #1

P. O. BOX 118

City/State/Zip LAVERNE, OK 73848

Purchaser: _____

Operator Contact Person: ALLEN BARRY

Phone (405) 921-3366

Contractor: Name: DIAMOND D TRUCKING INC.

License: 3760

Wellsite Geologist: _____

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, MSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

4-30-90 5-15-90 6-22-90

Spud Date Date Reached TD Completion Date

API NO. 15- 119-20,811-20-22

County MEADE

SE - SW - SW - Sec. 20 Twp. 34 SRge. 27 XX ^E _W

330 Foot from S (circle one) Line of Section

4291 Foot from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE NW or SW (circle one)

Lease Name BARRY Well # 2-20-B

Field Name JOHAN

Producing Formation COUNCIL GROVE

Elevation: Ground 2301 gr KB

Total Depth 3264 PBDT 3263

Amount of Surface Pipe Set and Cemented at 817 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 cat.

Drilling Fluid Management Plan 7-21-83
(Data must be collected from the Reservo Pit)

Chloride content _____ ppm Fluid volume _____ bbls

Dewatering method used _____

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, 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 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. 10 1992 1-10-92

Signature G. Gally

Title AGENT Date 1-10-92

Subscribed and sworn to before me this 10 day of JANUARY, 1992.

Notary Public Teresa Kastner

Date Commission Expires 12-4-95

TERESA KASTNER
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 12-4-95

CONSERVATION DIVISION OFFICE USE ONLY
WICHITA
 Letter of Confidentiality Attached
 Wireline Log Received
 Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other (Specify)

Operator Name THE SOUTH FORTY, INC.

Lease Name BARBY

Well # 2-20-B

Sec. 20 Twp. 34s Rgs. 27

East
 West

County MEADE

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 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
KRIDER	2584	-275
COUNCIL GROVE	2871	-562

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
CONDUCTOR	17 1/2	13 3/8	64	159	COMMON	30	
SURFACE	12 1/4	8 5/8	24	817	COMMON	300	
PRODUCTION	7 7/8	4 1/2	9.5	3263	COMMON	150	

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 (Amount and Kind of Material Used)	Depth
2	3144-3194 OA	600 gal 15% hcc	

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 3/8	3230		<input type="checkbox"/> Yes <input type="checkbox"/> No

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

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
		1000			

Disposition of Gas:

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

METHOD OF COMPLETION

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

Production Interval _____

Barley 2-20-B
Drilled

- 04/21/90 Shut down for weekend.
- 04/22/90 Shut down for weekend.
- 04/23/90 Spudding - Drilled 163 ft. with 17 1/2 in. bit. Run 159 ft. of 13 3/8 in. pipe. Weighed 64 lbs. per ft., 5 jts. cemented with 8,460 lbs. of premium cement C, 6,900 lbs. of pacesetter light C, 400 lbs. calcium chloride Call-o-seal. Plug was down at 5:41 A.M. 4-24-90. Waiting on cement to set.
- 04/24/90 Extra heavy rains with lightening so rig was shut down till afternoon. Preparation for spudding with 8 5/8.
- 04/25/90 576 ft. Dry drilling.
- 04/27/90 Catch up report--Ran 8 5/8, 24 lb. per ft. 817 ft. Shut down for weekend. 2-20B
- 05/01/90 Cleaning pits and nippling up.
- 05/02/90 Extra heavy rains and progress is slow.
- 05/03/90 871' and drilling ahead.
- 05/04/90 Drilling ahead.
- 05/05/90 Drilling ahead.
- 05/06/90 1685' tripping out for a new bit.
- 05/07/90 1944' and drilling.
- 05/08/90 Drilling @ 2238'. Viscous 35' wt 9.2.
- 05/09/90 Drilling 2508'. Viscosity 35' wt 9.1.
- 05/10/90 2805' and Drilling.
- 05/14/90 3264' deep and coming out of hole for electric logs @ 0700.
- 05/15/90 Out 3264' of 7 7/8" hole, Logged by Rosel. Comp. Density, Comp. Neutron, Dual Induction, Microlog. 5-potential zones: 2692-2697, 2990-2992, 3008-3012, 3100-3105, 3188-3190. Had some good gas kicks in 3 zones, Viscosity 19, R+6, Sw 42%. We feel that a completion attempt should be made. Ran 3263' 9.5# 4. 1/2 casing. Cemented with 150 sacks of light cement with 2% cc. Plug down 7:30 AM.



THE WESTERN COMPANY CEMENT JOB DETAIL SHEET

CUSTOMER <i>South Party</i>		DATE <i>1-27-90</i>	F.R.# <i>6159256</i>	SER. SUP. <i>Greg Buchert</i>	TYPE JOB <i>421/s</i>
LEASE & WELL NAME-OCSSG <i>Academy #1</i>		LOCATION <i>Sec 5-355-27N</i>		COUNTY-PARISH-BLOCK <i>MCAD</i>	
DISTRICT <i>Reyton</i>		DRILLING CONTRACTOR RIG # <i>R-0 Tizer #1</i>		OPERATOR	

MATERIAL FURNISHED BY WPS	TYPE OF PLUGS TOP BTM	LIST-CSG-HARDWARE	SQ MANI FOLD Y (N)	TOP OF EACH FLUID	PHYSICAL SLURRY PROPERTIES					
					SLURRY WGT PPG	SLURRY YLD FT ³	WATER GPS	PUMP TIME HR-MIN	Bbl SLURRY	Bbl MIX WATER
<i>135 445 50/50 PZ (H Box) 5% SALT</i>		<i>1 GUIDE SHOE</i>		<i>2580</i>	<i>14.3</i>	<i>1.27</i>	<i>5.7</i>		<i>30.5</i>	<i>18.5</i>
<i>290 CCL 4" R2 SK CEMENT-SALT</i>										
<i>40 445 0" H + 10% SALT + 6% THINAD</i>				<i>3180</i>	<i>14.9</i>	<i>1.45</i>	<i>6.7</i>		<i>103</i>	<i>6.4</i>

Available Mix Water *50* Bbl. Available Displ. Fluid *100* Bbl. TOTAL *408 24.9*

HOLE			TBG-CSG-D.P.			TBG-CSG-D.P.			COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	SIZE	WGT.	DEPTH	SIZE	WGT.	DEPTH	SHOE	FLOAT	STAGE
<i>7 7/8</i>	<i>25</i>	<i>3398</i>	<i>4 1/2</i>	<i>10.5</i>	<i>3380</i>				<i>3380</i>		

LAST CASING				PKR-CMT RET-BR PL-LINER		PERF. DEPTH		TOP CONN		WELL FLUID	
SIZE	WGT	TYPE	DEPTH	BRAND & TYPE	DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT.
<i>9 5/8</i>	<i>24</i>							<i>4 1/2</i>	<i>8ed</i>	<i>WATER</i>	<i>8.9</i>

CAL. DISPL. VOL.-Bbl.				CAL. PSI		OP. MAX		MAX TBG PSI		MAX CSG PSI		DISPL. FLUID		WATER SOURCE
TBG.	CSG.	CSG.	TOTAL	BUMP PLUG	TO REV	SO. PSI	RATED	OP.	RATED	OP.	TYPE	WGT.		
			<i>53.7</i>										<i>H2O</i>	<i>8.33 R/L</i>

EXPLANATION: TROUBLE SETTING TOOL RUNNING CSG, ETC. PRIOR TO CEMENTING.

PRESSURE/RATE DETAIL						EXPLANATION	
TIME HR: MIN.	PIPE PRESSURE-PSI	ANNULUS PRESSURE-PSI	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: WPS CREW <input checked="" type="checkbox"/> CO. REP <input type="checkbox"/>	
<i>5:40</i>	<i>250</i>		<i>6.0</i>	<i>-</i>	<i>Wmw-2</i>	<input type="checkbox"/> TEST LINES <input type="checkbox"/> PSI	
<i>5:44</i>	<i>200</i>		<i>4.2</i>	<i>20.00</i>	<i>Cm</i>	<input checked="" type="checkbox"/> CIRCULATING WELL-RIG <input type="checkbox"/> WPS <input type="checkbox"/>	
<i>5:44</i>	<i>210</i>		<i>4.0</i>	<i>30.55</i>	<i>Cm</i>	<i>START Wmw-2</i>	
<i>5:53</i>	<i>200-0</i>		<i>4.0-0</i>	<i>60.80</i>	<i>Cm</i>	<i>START THIN @ 14.3 PPG</i>	
<i>5:56</i>	<i>0</i>		<i>-</i>	<i>60.80</i>	<i>H2O</i>	<i>START THIN @ 14.9 PPG</i>	
<i>5:56</i>	<i>0-200</i>		<i>5.2</i>	<i>60.80</i>	<i>H2O</i>	<i>ALL CEMENT SHUT DOWN</i>	
<i>6:03</i>	<i>200-400</i>		<i>6.0-4.0</i>	<i>10.50</i>	<i>H2O</i>	<i>WASH PUMPS + LINES</i>	
<i>6:05</i>	<i>300-1000</i>		<i>4.0-0</i>	<i>114.50</i>	<i>H2O</i>	<i>DROP PLUG DISPLACE</i>	
						<i>SLOW RATE</i>	
						<i>BUMP PLUG SHUT IN</i>	
						<i>WITH 500 PSI ON CASING</i>	

BUMPED PLUG <i>(Y) N</i>	PSI TO BUMP PLUG <i>1000</i>	TEST FLOAT EQUIP. <i>Y (N)</i>	TOTAL Bbl. PUMPED <i>114.5</i>	Bbl. CMT RETURNS/ REVERSED <i>-</i>	PSI LEFT ON CSG <i>500</i>	SPOT TOP CEMENT <i>2580</i>	SER. SUP. <i>Greg Buchert</i>
							CUSTOMER REP. <i>ALAN BARBY</i>

WESTERN PETROLEUM SERVICES CEMENTING REPORT

DATE 4-30-90 DISTRICT WOODWARD (19) F.R.# 112180

OPERATOR South Forty, Inc.

WELL NAME & NUMBER Barby 2-20-B

LOCATION: SEC. 20 BLOCK OR TOWNSHIP 34S SURVEY OR RANGE 27W

COUNTY Clark STATE Kansas

STAGE NUMBER _____ TYPE JOB Surface

TBG/DP: Size _____ Weight _____ Disp _____	Conductor	Surface	Int.	Prod.	Liner
Perforated Interval _____	Size	8-5/8			
Pkr. Type _____ Set at _____	Weight	24			
Open Hole Size <u>12 1/2"</u> Formation <u>Surface</u>	Thread	8 rd			
Stage Collar Type _____ Set at _____	Capacity	52			
Estimated Wash Out <u>100</u> % Hole Size _____	Depth	818			

Sacks or Bbls.	Composition of Cement and Spacer	Gals/sk H ₂ O	Weight Lb/Gal	Yield Ft 3	Pump Time Hours	TOTAL Cu. Ft.	TOTAL Bbls.
320 SKS	Pacesetter Lite "C" + 2% CaCl ₂ + 1#/SK Cello-Seal	10.0	12.6	1.87	5:00+	598	106
115 SKS	Class "C" Cement + 2% CaCl ₂	6.3	14.8	1.33	3:30	153	27
	TOP OUT						
75 SKS	Class H + 3% CaCl ₂	5.2	15.6	1.18	3:15	89	16

Total Mix H₂O 101 Bbls. Total Displacement 50 Bbls, Type Water Total Products 133 Bbls

Time	Remarks	Rate	Pressure	
			Tubing	Casing
5:56	Water Ahead	5.0		50
5:58	Mix Cement - 320/115	5.5		200
6:32	Drop Plug	-		-
6:33	Displace w/Water	3.0		150
6:50	Stop Plug	2.0		100
6:51	Close @ Head	-		100
	Rig to Top Out			
	7 Joints 1" Tubing - 140' Tag Hard.			
7:15	Start Top Out	.5		100
7:24	Circulate Cement to Pit	.5		100
7:25	Shut Down - (Cement Drop 2')	-		-

Break Down At _____ BPM At _____ PSI

Squeezed To _____ PSI Running _____ Hesitation _____

Reversed out _____ BBL Slurry at _____ PSI

Customer considered service _____ Satisfactory _____ Unsatisfactory _____

Customer Rep: Lee Wadkins

Max Pressure 200 Differential Press. 300

Bumped Plug Yes ~ No X Pressure to _____

Cmt. Circ. to surface Yes Sacks Top Out of 75 SKS

Float Held -- Yes -- No No

Shut in with 100 PSI

Service Supervisor Dave Arrington