

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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 # 33823  
Name: Sentinel Petroleum, Inc.  
Address 1: 101 N. Robinson, Suite 910  
Address 2: \_\_\_\_\_  
City: Oklahoma City State: OK Zip: 73102 + \_\_\_\_\_  
Contact Person: Suzanne M. Rogers  
Phone: ( 405 ) 239-2150  
CONTRACTOR: License # 31548  
Name: Discovery Drilling  
Wellsite Geologist: Tim Lauer  
Purchaser: NCRA

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 #: \_\_\_\_\_

10-4-10	10-9-10	11-23-10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 065-23673 - 0000  
Spot Description: \_\_\_\_\_  
E/2 SE/4 SW/4 Sec. 26 Twp. 9 S. R. 23 ☐ East ☒ West  
760 Feet from ☐ North / ☒ South Line of Section  
2,995 Feet from ☒ East / ☐ West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
☐ NE ☐ NW ☒ SE ☐ SW  
County: Graham  
Lease Name: Sparks Well #: 6 JAN 20 2011  
Field Name: Vesper  
Producing Formation: Lansing/Kansas City  
Elevation: Ground: 2413' Kelly Bushing: 2421'  
Total Depth: 3975' Plug Back Total Depth: 3975'  
Amount of Surface Pipe Set and Cemented at: 265' Feet  
Multiple Stage Cementing Collar Used? ☒ Yes ☐ No  
If yes, show depth set: 1982.9' Feet  
If Alternate II completion, cement circulated from: 1983'  
feet depth to: surface w/ 185 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 1500 ppm Fluid volume: 240 bbls  
Dewatering method used: evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_ ☐ East ☐ West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**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.

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.

Signature: \_\_\_\_\_  
Title: Operations Manager Date: 1-18-2011

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: DG Date: 1/21/11

Operator Name: Sentinel Petroleum, Inc. Lease Name: Sparks Well #: 6  
 Sec. 26 Twp. 9 S. R. 23 ☐ East ☒ West County: Graham

**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 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

Electric Log Submitted Electronically ☐ Yes ☒ No  
 (If no, Submit Copy)

List All E. Logs Run:

**Dual Induction, Borehole Compensated Sonic,  
 Microlog, Dual Compensated Porosity, Fracfinder**

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

Name	Top	Datum
Anhydrite	1992	+429
Topeka	3448	-1027
Heebner	3666	-1247
Toronto	3688	-1269
Lansing	3699	-1283
Base of Kansas City	3925	-1507

**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	12 1/4"	8 5/8"	23	262	common	165	3% CC, 2% gel
Production	7 7/8"	5 1/2"	15.50	3973'	STD EA-2	150	
top stage cement					SMD	185	

**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
4 spf	3856-3860 & 3878-3884	500 gals 15% MCA	
4 spf	3892-3898	250 gals 15% MCA: 500 gals 15% MCA	

TUBING RECORD: Size: 2 7/8" Set At: 3920 Packer At:  Liner Run: ☐ Yes ☒ No **KCC WICHITA**

Date of First, Resumed Production, SWD or ENHR. <b>11-24-10</b>	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>4</u> Gas Mcf <u>none</u> Water Bbls. <u>none</u> Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>Lansing/Kansas City, I, J &amp; K</u>
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## AFFIDAVIT OF CEMENTING

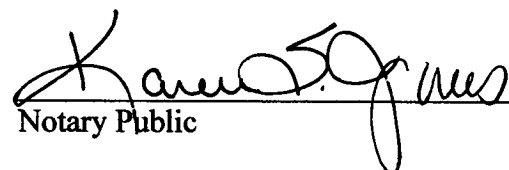
STATE OF OKLAHOMA     )  
  ) ss  
COUNTY OF OKLAHOMA )

Re: Sparks #6  
Approx. E/2 SE/4 SW/4, Section 26-9S-23W  
Graham County, KS

I, the undersigned Suzanne M. Rogers, of lawful age, being first duly sworn, depose and say that, on October 4, 2010, Allied Cementing Co., LLC., cemented 255.41' of 8 5/8" surface casing in the wellbore of the Hill City High School #10 as described above for Sentinel Petroleum, Inc., the operator of record of said well.

  
\_\_\_\_\_  
Suzanne M. Rogers

Subscribed and sworn to before me this 17<sup>th</sup> day of January, 2011.

  
\_\_\_\_\_  
Notary Public

My Commission Expires: 12-24-14



RECEIVED  
JAN 20 2011  
KCC WICHITA

## AFFIDAVIT OF CEMENTING

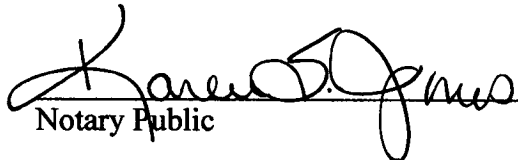
STATE OF OKLAHOMA    )  
                                  ) ss  
COUNTY OF OKLAHOMA )

Re: Sparks #6  
Approx. E/2 SE/4 SW/4, Section 26-9S-23W  
Graham County, KS

I, the undersigned Suzanne M. Rogers, of lawful age, being first duly sworn, depose and say that, on October 9, 2010, Swift Services cemented 3973' of 5 ½" production casing in the wellbore of the Sparks #6 as described above for Sentinel Petroleum, Inc., the operator of record of said well.

  
Suzanne M. Rogers

Subscribed and sworn to before me this 17<sup>th</sup> day of January, 2011.

  
Notary Public

My Commission Expires: 12-24-14



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JAN 20 2011

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JAN 20 2011  
KCC WICHITA

# ALLIED CEMENTING CO., LLC. 041998

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

SERVICE POINT:  
Russell KS

DATE <u>10-4-10</u>	SEC. <u>26</u>	TWP. <u>9</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION	JOB START <u>6:45pm</u>	JOB FINISH <u>7:15pm</u>
LEASE <u>Sparks</u>	WELL # <u>6</u>	LOCATION <u>Hill City KS South to FFA Building</u>			COUNTY <u>Graham</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>East and South into.</u>				

CONTRACTOR Discovery Drilling Rig No 1

OWNER

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 265'

CASING SIZE 8 3/8 DEPTH 265'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 15.9

## EQUIPMENT

PUMP TRUCK CEMENTER John Roberts

# 417 HELPER Heath

BULK TRUCK

# 473 DRIVER Ron

BULK TRUCK  
# DRIVER

## REMARKS:

Est. Circulation

Mix 165 sk cement

Displace w/ 15.9 Bbl H<sub>2</sub>O

Cement Did Circulate!

Thank You!

CHARGE TO: Sentinel Petroleum Inc.

STREET

CITY STATE ZIP

To Allied Cementing Co., 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

SIGNATURE

Paul D. Bellavance

## CEMENT

AMOUNT ORDERED 165com 3% CC 2% Bel

COMMON 165 @ 13.50 2227.50

POZMIX @

GEL 3 @ 20.25 60.75

CHLORIDE 6 @ 51.50 309.00

ASC @

@

@

@

@

@

@

@

@

HANDLING 165 @ 2.25 371.25

MILEAGE 14 1/4/mile 660.00

TOTAL 3128.50

## SERVICE

DEPTH OF JOB

PUMP TRUCK CHARGE 99.00

EXTRA FOOTAGE @

MILEAGE 40 @ 7.00 280.00

MANIFOLD @

@

@

TOTAL 1271.00

## PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS



CHARGE TO: Sentinel Petroleum Co

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET  
19179

PAGE 1 OF 2

SERVICE LOCATIONS 1. <u>Hays, Ks</u>	WELL/PROJECT NO. <u>#6</u>	LEASE <u>sparks</u>	COUNTY/PARISH <u>Graham</u>	STATE <u>Ks</u>	CITY _____	DATE <u>10-9-10</u>	OWNER <u>same</u>
2. <u>Ness City, Ks</u>	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Discovery Drilling #1</u>	RIG NAME/NO. _____	SHIPPED VIA <u>dr</u>	DELIVERED TO <u>Location</u>	ORDER NO. _____	_____
3. _____	WELL TYPE <u>oil</u>	WELL CATEGORY <u>development</u>	JOB PURPOSE <u>2-stage</u>	WELL PERMIT NO. _____	WELL LOCATION _____	_____	_____
4. _____	REFERRAL LOCATION _____	INVOICE INSTRUCTIONS _____					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT	
		LOC	ACCT	DF								
575		1			MILEAGE #113	50		mi		5.00	250	00
579	RECEIVED	1			Pump Charge (2-stage)	1		hr	3978	1750.00	1750	00
221	JAN 20 2011	1			KCL	4		gal		25.00	100	00
281		1			Mud Flush	500		gal		1.00	500	00
290	KCC WICHITA	1			D-Air	4		gal		35.00	140	00
402		1			Centralizers	10		ea	55	550.00	550	00
403		1			Baskets	2		ea		200.00	400	00
407		1			D.V. Insert Float Shoe w/fill	1		ea		275.00	275	00
408		1			D.V. Tool w/Plugset	1		ea		2600.00	2600	00
417		1			D.V. L.D. Plug & Baffle	1		ea		200.00	200	00
580		1			Add Hrs	1		ea		200.00	200	00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X [Signature]

DATE SIGNED 10-9-10 TIME SIGNED 1250

☐ A.M.  
☒ P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.  
P.O. BOX 466  
NESS CITY, KS 67560  
785-798-2300

SURVEY	AGREE	UN-DECIDED	DIS-AGREE	PAGE TOTAL	6965.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				page 2	7352.50
WE UNDERSTOOD AND MET YOUR NEEDS?					14317.50
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR [Signature] APPROVAL \_\_\_\_\_

Thank You!



## JOB LOG

SWIFT Services, Inc.

DATE 10-9-10 PAGE NO. 1

CUSTOMER

Sentinel Petroleum Co.

WELL NO.

#6

LEASE

Sparks

JOB TYPE

2-stage

TICKET NO.

19179

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0500							on loc W/F E
								RTD 3975'
								5 1/2" x 15.5" x 3978' x 21'
								Cent. 1-8, 10, 48
								Back 9, 49
								DV 49 @ 1983'
	0630							start F/E
	0815							Break Circ.
	0925	4.5	0			150		start Preflush 500gal mudflush
	0932	5.5	32/0			200		start Cement 20 bbl KCL flush
	0938		36					End Cement 150 sks FA-2
								Land Cement
								Wash P&L / Drop L.D. Plug
	0943	6.5	0			100		start Displacement
	0956	5	78			200		catch Cement 50 bbl + 44 bbl mud
	1000		94			200/200		Land Plug
								Release Pressure / Float Hold
								Drop Opening Plug
								Open DV Tool
								Circ 1 1/2 hrs
	1200	2.5	7/5					Plug RH & MH 40 sks SMD
	1205	4.5	0					start KCL flush
	1209	6	20/0					start Cement 185 sks SMD
	1225		102					End Cement
								Drop Closing Plug
	1230	5	0					start Displacement
	1235	4	27					Circ cement
	1240		47					Land Plug
								Close DV
								Release Pressure
								DV Closed
								Circ 50 sks to pit
								Thank you
								Nick, Doug, John

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OCT 20 2011

OCC WICHITA