



KANSAS CORPORATION COMMISSION 1064911
OIL & GAS CONSERVATION DIVISION

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 STE 910
Address 2: _____
City: OKLAHOMA CITY State: OK Zip: 73102 + 5502
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 #: _____

<u>08/15/2011</u>	<u>08/20/2011</u>	<u>09/30/2011</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-065-23753-00-00
Spot Description: _____
SE SW NW SW Sec. 25 Twp. 9 S. R. 23 East West
1550 Feet from North / South Line of Section
335 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Graham
Lease Name: Gano Well #: 1
Field Name: Vesper
Producing Formation: Lansing Kansas City
Elevation: Ground: 2411 Kelly Bushing: 2419
Total Depth: 3990 Plug Back Total Depth: 3945
Amount of Surface Pipe Set and Cemented at: 255 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 1988 Feet
If Alternate II completion, cement circulated from: 1988
feet depth to: 0 w/ 150 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 150 ppm Fluid volume: 240 bbls
Dewatering method used: Evaporated
Location of fluid disposal if hauled offsite:
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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.

Submitted Electronically

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: Deanna Garrison Date: 10/10/2011



1064911

Operator Name: Sentinel Petroleum, Inc. Lease Name: Gano Well #: 1
 Sec. 25 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 Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Anhydrite	1996	+423
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Topeka	3460	-1041
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3680	-1261
List All E. Logs Run:		Toronto	3702	-1283
Attached		Lansing	3715	-1296
		Base of Kansas City	3944	-1525
		TD	3987 (logger)	-1568

CASING RECORD <input checked="" 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	12.25	8.625	23	255	common	170	2% gel, 3% CC
Production	7.875	5.5	15.5	3987	OWC	150	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	0-1988	60/40 poz	405	8% gel, 1/4# flo seal
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3886-3892	500 gals 15% mud acid	3886-3892 & 3872-3876
4	3872-3878	4000 gals 20% NE acid, 3% mas &	3886-3892 & 3872-3876
		500 gals 20% gelled acid	

TUBING RECORD:	Size: <u>2 7/8"</u>	Set At: <u>3906'</u>	Packer At: <u>N/A</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>10/04/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>10</u>	Gas Mcf	Water Bbls. <u>28</u>	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>Lansing Kansas City</u> <u>I & J</u>
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Form	ACO1 - Well Completion
Operator	Sentinel Petroleum, Inc.
Well Name	Gano 1
Doc ID	1064911

All Electric Logs Run

Dual Induction
MicroResistivity
Dual Compensated Porosity
Sonic with Frac Finder

ALLIED CEMENTING CO., LLC. 038235

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

SERVICE POINT:
Russell

DATE <u>8/15/11</u>	SEC. <u>25</u>	TWP. <u>9</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION	JOB START <u>7:55p</u>	JOB FINISH <u>8:15p</u>
LEASE <u>Gano</u>	WELL# <u>1</u>	LOCATION <u>Wakeney + Hwy 283</u>		COUNTY <u>Franklin</u>	STATE <u>Ks.</u>		
OLD OR NEW (Circle one)		N to Red line IN E+5 + E15h					

CONTRACTOR Discovery Drilling R. #1

TYPE OF JOB Surface Job

HOLE SIZE 12 1/8 T.D. 265'

CASING SIZE 5 1/2 DEPTH 265.34

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 15,94 bbl

OWNER _____

CEMENT AMOUNT ORDERED 170 Co. 38cc

226cc

COMMON	<u>1.70</u>	@ <u>16.25</u>	<u>2762.50</u>
POZMIX		@	
GEL	<u>5</u>	@ <u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6</u>	@ <u>58.20</u>	<u>349.20</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>179</u>	@ <u>2.25</u>	<u>402.75</u>
MILEAGE	<u>11/16/mile</u>		<u>988.50</u>
TOTAL			<u>4562.70</u>

EQUIPMENT

PUMP TRUCK CEMENTER Shane

909 HELPER Heath

BULK TRUCK

378 DRIVER Ron B

BULK TRUCK

DRIVER

REMARKS:

Ran 6 jts. + Landing Jts.

Est Circulation

Mixed 170 sks

Cement Circulated

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE 100 @ 7.00 700.00

MANIFOLD _____ @ _____

_____ @ _____

LOT 100 @ 4.00 400.00

TOTAL 2225.00

CHARGE TO: Sentinel Petroleum INC

STREET 101 N Robinson STE 910

CITY Oklahoma City STATE OK ZIP 73102

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

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.

Thanks!

PRINTED NAME _____

SIGNATURE Clyde Mayfield

SALES TAX (If Any) _____

TOTAL CHARGES 6787.70

DISCOUNT 50/20 IF PAID IN 30 DAYS



ENTERED

TICKET NUMBER 28165
 LOCATION Oakley, KS
 FOREMAN Walt Dinkel

PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
 CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-20-11	18916	Gano #1	25	9S	23W	Graham
CUSTOMER Sentinel Petroleum, Inc			Hill City South to Redlin			
MAILING ADDRESS 101 N. Robinson, Ste 910			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Oklahoma City OK			399	Wilas Skow		
STATE OK			460	Kelly Goble		
ZIP CODE 73100			528-T129	Damon Wilho		

JOB TYPE Prod. DV-O HOLE SIZE 7 7/8 HOLE DEPTH 3990' CASING SIZE & WEIGHT 5 1/2 - 15.5
 CASING DEPTH 3986 DRILL PIPE _____ TUBING _____ OTHER DV 21987'
 SLURRY WEIGHT 14-125 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 42'
 DISPLACEMENT 93.9 DISPLACEMENT PSI _____ MIX PSI _____ RATE 6 BPM

REMARKS: Safety Meeting, rig up on Discovary #1, run Float Equipment
Pipe on bottom, circ 1 1/2 hrs, mix 30 sks in RH, 15 sks in RH, Pump 500 gal mud-
Flush, mix 150 sks OWC, clear Pump Lines, Displace 47 BBL H₂O + 47 BBL
mud @ 700-PSI, landed Plug @ 1200', released Pressure Float Hold
open DV Tool, circ 1 1/2 hrs, mixed 40.5 sks @ 940 ppm, 8% Gel, 1/2" Flo-Seal
release Plug + Displace 47 3/4 BBL H₂O @ 900', landed Plug @ 1700', closed
Tool, release Pressure, Hold

Cement Did Circ Thank You
Approx 30 BBL to Pit Walt + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401C	1	PUMP CHARGE	2850.00	2,850.00
5406	60	MILEAGE	5.00	300.00
1126	150 SKS	OWC	21.48	3,222.00
1131	450 - SKS	60/40 pap	14.35	6,457.50
1118B	3096 #	Banbanite	.24	743.04
1107	113 #	Flo-Seal	2.66	300.58
1144G	500 gal	mud Flush	1.00	500.00
5407A	26.4	Ton Mileage Delivery	1.50	2,502.00
4159	1	5/8 - AFU Float Shoe	413.00	413.00
4130	8	5/8 - Centralizers	58.00	464.00
4104	3	5/8 - Baskets	276.00	828.00
4283	1	5/8 - DV Tool w- latch down	3,850.00	3,850.00
				22,430.00
		Less 15% Disc		3,364.61
				19,065.39
			7.55	1076.22
		SALES TAX		
		ESTIMATED TOTAL		20142.84

Ravin 3737

AUTHORIZATION Marty Mayfield TITLE Tool pusher DATE _____
 293674

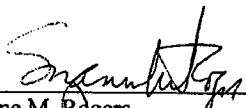
I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

AFFIDAVIT OF CEMENTING

STATE OF OKLAHOMA)
) ss
COUNTY OF OKLAHOMA)

Re: Gano #1
Approx. SW/4 NW/4 SW/4, Section 25-9S-23W
Graham County, KS

I, the undersigned Suzanne M. Rogers, of lawful age, being first duly sworn, depose and say that, on August 29, 2011, Consolidated Oil Well Services, LLC cemented 3983.08' of 5 1/2" production casing in the wellbore of the Gano #1 as described above for Sentinel Petroleum, Inc., the operator of record of said well.



Suzanne M. Rogers

Subscribed and sworn to before me this 31st day of August, 2011.

My Commission Expires ~~08/25/12~~




Notary Public

AFFIDAVIT OF CEMENTING

STATE OF OKLAHOMA)
) ss
COUNTY OF OKLAHOMA)

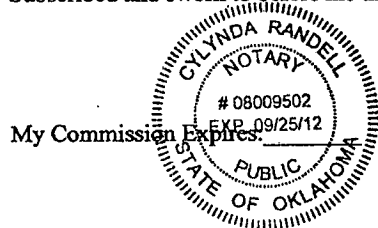
Re: Gano #1
 Approx. SW/4 NW/4 SW/4, Section 25-9S-23W
 Graham County, KS

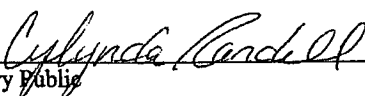
I, the undersigned Suzanne M. Rogers, of lawful age, being first duly sworn, depose and say that, on August 15, 2011, Allied Cementing Co., LLC., cemented 265.34' of 8 5/8" surface casing in the wellbore of the Gano #1 as described above for Sentinel Petroleum, Inc., the operator of record of said well.



Suzanne M. Rogers

Subscribed and sworn to before me this 30th day of August, 2011.





Notary Public

Tom J. Lawlor
Petroleum Geologist

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

<p>COMPANY: <u>Sherwin Petroleum, Inc.</u></p> <p>LEAD: <u>#1 Guro</u></p> <p>FIELD: _____</p> <p>LOCATION: <u>337 FAL 1507 1/2 S. of Section</u></p> <p>SEC: <u>23</u> TWP: <u>34</u> RGE: <u>23W</u></p> <p>COUNTY: <u>Stevens</u> STATE: <u>Illinois</u></p> <p>CONTRACTOR: <u>Deputy Drilling Co. Inc.</u></p> <p>SPUD: <u>8-15-2011</u> CDAP: <u>8-20-2011</u></p> <p>RTD: <u>8-22</u> LTD: <u>320</u></p> <p>MUD LT: <u>2220</u> TYPE MUD: <u>Composite</u></p> <p>SAMPLES SAVED FROM: <u>2022</u> TO <u>2170</u></p> <p>DRILLING TIME KEPT FROM: <u>2022</u> TO <u>2170</u></p> <p>SAMPLES EXAMINED FROM: <u>2022</u> TO <u>2170</u></p> <p>GEOLOGICAL SUPERVISION FROM: <u>8/22/11</u> TO <u>8/22/11</u></p> <p>GEOLOGIST ON WELL: <u>TJL / LMP</u></p>	<p>ELEVATIONS</p> <p>KB: <u>211'</u></p> <p>OF: _____</p> <p>OL: <u>211'</u></p> <p>Measurements Are All From: <u>2011</u></p> <p>CASING</p> <p>INCHES: <u>4 1/2</u></p> <p>WEIGHT: <u>11.2 LBS/FT</u></p> <p>ELECTRICAL SURVEYS</p> <p>BY: <u>Geo. H. M. Stryker, Jr.</u></p> <p>DATE: <u>8/22/11</u></p>
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FORMATION TOPS	ELECTRIC LOG	SAMPLE LOG
2022 2025 2028 2031 2034 2037 2040 2043 2046 2049 2052 2055 2058 2061 2064 2067 2070 2073 2076 2079 2082 2085 2088 2091 2094 2097 2100 2103 2106 2109 2112 2115 2118 2121 2124 2127 2130 2133 2136 2139 2142 2145 2148 2151 2154 2157 2160 2163 2166 2169 2172 2175 2178 2181 2184 2187 2190 2193 2196 2199 2202 2205 2208 2211 2214 2217 2220	2022 2025 2028 2031 2034 2037 2040 2043 2046 2049 2052 2055 2058 2061 2064 2067 2070 2073 2076 2079 2082 2085 2088 2091 2094 2097 2100 2103 2106 2109 2112 2115 2118 2121 2124 2127 2130 2133 2136 2139 2142 2145 2148 2151 2154 2157 2160 2163 2166 2169 2172 2175 2178 2181 2184 2187 2190 2193 2196 2199 2202 2205 2208 2211 2214 2217 2220	2022 2025 2028 2031 2034 2037 2040 2043 2046 2049 2052 2055 2058 2061 2064 2067 2070 2073 2076 2079 2082 2085 2088 2091 2094 2097 2100 2103 2106 2109 2112 2115 2118 2121 2124 2127 2130 2133 2136 2139 2142 2145 2148 2151 2154 2157 2160 2163 2166 2169 2172 2175 2178 2181 2184 2187 2190 2193 2196 2199 2202 2205 2208 2211 2214 2217 2220

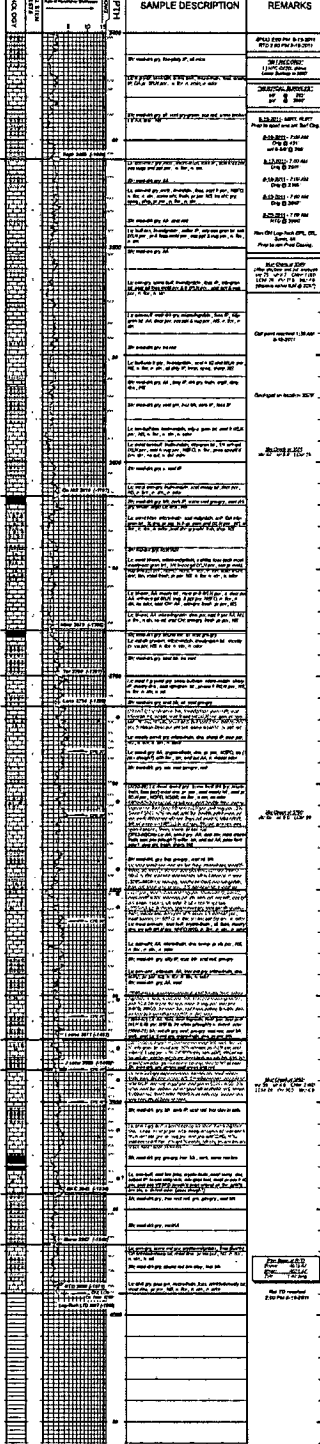
REMARKS

(This is reserved for notes and log corrections, completed after completion of drilling and log processing.)

Remarks:

LEGEND

	Sandstone		Limestone
	Shale		Coal
	Claystone		Grit
	Dolomite		Gravel



<p>COMPANY & WELL: <u>Sherwin Petroleum, Inc. #1 Guro</u></p> <p>LOCATION: <u>337 FAL 1507 1/2 S. of Section</u></p> <p>SEC: <u>23</u> TWP: <u>34</u> RGE: <u>23W</u></p> <p>COUNTY: <u>Stevens</u> STATE: <u>Illinois</u></p>	<p>ELEVATIONS</p> <p>KB: <u>211'</u></p> <p>OF: _____</p> <p>OL: <u>211'</u></p>
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