

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

Operator: License # 33415  
Name: SunStone Energy Company  
Address: 101 N. Robinson, Suite 810  
City/State/Zip: Oklahoma City, OK 73102  
Purchaser: N/A  
Operator Contact Person: Connie Swan  
Phone: (918) 621-6538  
Contractor: Name: Murfin Drilling Co.  
License: 30606

Wellsite Geologist: Bob Gaddis  
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: \_\_\_\_\_  
Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 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. \_\_\_\_\_

<u>4/24/05</u>	<u>5/22/05</u>	
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 171205910000  
County: Scott  
SW SW SW Sec. 21 Twp. 18 S. R. 31  East  West  
330 feet from (S) N (circle one) Line of Section  
330 feet from E / (W) (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
Lease Name: Grube Well #: 21-1  
Field Name: Grigston SW

Producing Formation: Mississippian  
Elevation: Ground: 2956' Kelly Bushing: \_\_\_\_\_  
Total Depth: 4678' Plug Back Total Depth: \_\_\_\_\_  
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 332'  
feet depth to surface w/ 270 sx cmt.

**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: N/A  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**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: [Signature]  
Title: Regulatory Administrator Date: November 22, 2005  
Subscribed and sworn to before me this 23 day of Nov, 2005

Notary Public: [Signature]  
OFFICIAL SEAL  
ANGIE BUNCH  
TULSA COUNTY  
05009850 Exp. 10-24-09

**KCC Office Use ONLY**  
N/A Letter of Confidentiality Received  
If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

Operator Name: SunStone Energy Company Lease Name: Grube Well #: 21-1  
 Sec. 21 Twp. 18 S. R. 31  East  West County: Scott

**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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i>  List All E. Logs Run:  Comp Neutron Litho-Density/Gamma Ray Microlog Gamma Ray Array Induction/SP Linear Correlation/Gamma Ray Correlation Gamma Ray Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Krider Sand</td> <td>2767</td> <td></td> </tr> <tr> <td>Muncie Creek</td> <td>4198</td> <td></td> </tr> <tr> <td>Heebner</td> <td>3902</td> <td></td> </tr> </table> <div style="text-align: right; margin-top: 20px;"> <b>RECEIVED</b>  <b>KANSAS CORPORATION COMMISSION</b>  <b>NOV 29 2005</b>  <b>CONSERVATION DIVISION</b>  <b>WICHITA, KS</b> </div>	Name	Top	Datum	Krider Sand	2767		Muncie Creek	4198		Heebner	3902	
Name	Top	Datum											
Krider Sand	2767												
Muncie Creek	4198												
Heebner	3902												

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	14-3/4"	10-3/4"		330'	Class C	270	2%gel+2.5% CalCl
Intermediate	9-7/8"	7-5/8"	26.4#	4393'	Class H	1st stg 320sx	.15% D13+ .25lbs/sk D29
Liner	5-1/2"				15.85 POZ C	2nd stg 400sx	8% D29 + 2% G1 + 2% D16 + 25PPG D29

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

TUBING RECORD	Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumard Production, SWD or Enhr.		Producing Method			
		<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas	METHOD OF COMPLETION	Production Interval
<input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	_____

NOV 29 2005

CONSERVATION DIVISION  
WICHITA, KS

# SunStone

## SIDE TRACK AND UNDERBALANCED DRILLING INTERIM WELL REPORT

Grube 21-1

### EXECUTIVE SUMMARY

A Grube 21-1 well in Scott County, Kansas, Sec.10-19S-31W was drilled. Initially a vertical UBD section was to be drilled and evaluated. After evaluating, a decision would then be made to produce the vertical section or continue and drill a horizontal section UnderBalanced.

The Northeast Hugoton anticline covers about 80,000 acres and has about 200 feet of closure. The Mississippian is encountered at about 4550 to 4700 feet on the anticline. The gross thickness varies because of erosion, but averages about 500 feet. Net pay averages about 250 feet.

The Mississippian pay is a fractured, fine grained dolomite. Porosity averages 15% and the permeability averages 10 millidarcies. Reservoir pressure was originally estimated at 1675 Psi.

The initial vertical section of the well was drilled using conventional drilling techniques and cemented to a depth of 3307 ft. The conventional drilling of the vertical section was terminated early due to lost drill pipe in the hole. A side track was drilled around the fish (severed drill pipe) to a depth of 4594 ft (TMD) which was just above the top of the Mississippi formation at 4615 ft (TVD). The UnderBalanced section of the hole has not been drilled to date, as water leak at the tie back of the 5 1/2" liner prevented the UBD section of the well from being drilled.

*Due to the water influx, drilling operations have been temporarily suspended while future completion options are evaluated. A final report will be generated after the well is completed.*

# ALLIED CEMENTING CO., INC. 19585

P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
DAKLEY

RECEIVED  
KANSAS CORPORATION COMMISSION  
NOV 29 2005  
CONSERVATION DIVISION  
WICHITA, KS

4-05	SEC 21	TWP. 18S	RANGE 31W	CALLED OUT	ON LOCATION 2:00 PM	JOB START 3:30 AM	JOB FINISH 4:00
PIPE	WELL # 21-1		LOCATION <u>Scott City RE-15</u>	COUNTY <u>Scott</u>	STATE <u>Ks</u>		

CONTRACTOR <u>MURFEE DRILL RIG # 24</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>PLUG BACK</u>	
HOLE SIZE <u>9 7/8"</u>	T.D.
CASING SIZE	DEPTH
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2"</u>	DEPTH <u>3474</u>
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSQ.	
PERFS.	
DISPLACEMENT	

CEMENT	"C"
AMOUNT ORDERED	<u>100 SKS @ 28 CC</u>
COMMON	<u>100 SKS @ 28 CC</u>
POZMIX	
GEL	
CHLORIDE	<u>2 SKS @ 38 @ 76</u>
ASC	
CLASS "C" 100SKS	<u>12 @ 1205</u>
HANDLING	<u>102 SKS @ 160 16320</u>
MILEAGE	<u>60 PER SK 120 7200</u>
TOTAL	<u>1774 6</u>

EQUIPMENT	
PUMP TRUCK	CEMENTER <u>TERRY</u>
# <u>191</u>	HELPER <u>WAYNE</u>
BULK TRUCK	
# <u>218</u>	DRIVER <u>LANNES</u>
BULK TRUCK	
#	DRIVER

REMARKS:  
MIX 100 SKS CLASS "C" 28 CC  
AT 3474' + DISPLACE 44 BBL

THANK YOU

CHARGE TO: SUNSTONE ENERGY  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>1360</u>
EXTRA FOOTAGE	
MILEAGE	<u>540 @ 5 270</u>
MANIFOLD	
TOTAL	<u>1630</u>

PLUG & FLOAT EQUIPMENT	
TOTAL	

To Allied Cementing Co., Inc.  
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 Buddie E Livingstone

TAX \_\_\_\_\_  
TOTAL CHARGE \_\_\_\_\_  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
PRINTED NAME Buddie E Livingstone

# ALLIED CEMENTING CO., INC. 19600

RECEIVED  
KANSAS CORPORATION COMMISSION

NOV 29 2005

CONSERVATION DIVISION  
WICHITA, KS

P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:

DAKLEY

DATE <u>5-23-05</u>	SEC <u>21</u>	TWP <u>NS</u>	RANGE <u>3W</u>	CALLED OUT	ON LOCATION <u>1:45 AM</u>	JOB START <u>8:55 AM</u>	JOB FINISH <u>9:00 AM</u>
LEASE <u>CRUBE</u>	WELL # <u>21-1</u>		LOCATION <u>Scott City 8E-1/2S</u>		COUNTY <u>SCOTT</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR BASIC ENERGY SERVICES OWNER SAME  
 TYPE OF JOB LENER

HOLE SIZE \_\_\_\_\_ T.D. \_\_\_\_\_ CEMENT \_\_\_\_\_  
 CASING SIZE 5 1/4" DEPTH 1482.63' AMOUNT ORDERED 150 SKS CLASS "C"  
 TUBING SIZE 2 7/8" DEPTH 3098'

DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 14.80'  
 CEMENT LEFT IN CSG. 14.80'  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 49.4 RAL

EQUIPMENT \_\_\_\_\_  
 PUMP TRUCK CEMENTER TERRY  
 # 873 HELPER ANDREW  
 BULK TRUCK \_\_\_\_\_  
 # 218 DRIVER MIKE  
 BULK TRUCK \_\_\_\_\_  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON \_\_\_\_\_ @ \_\_\_\_\_  
 POZMIX \_\_\_\_\_ @ \_\_\_\_\_  
 GEL \_\_\_\_\_ @ \_\_\_\_\_  
 CHLORIDE \_\_\_\_\_ @ \_\_\_\_\_  
 ASC \_\_\_\_\_ @ \_\_\_\_\_  
CLASS "C" 150 SKS @ 12.05 1807.50  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 HANDLING 150 SKS @ 1.60 240.00  
 MILEAGE 060.00 @ 5.00/mile 480.00  
 TOTAL 2538.50

REMARKS:

RUN 1482.63' OF 5 1/4" CASING, HOOK  
2 7/8" TUBING ON TOP 5 1/4" CASING  
RUN 3098' 2 7/8" MAX 150 SKS CLASS "C"  
CEMENT + DISPLACE 51 RAL WATER  
LANDING PLUG AT 1500 PSI TEST  
PLUG TO 2800 PSI.

Plug Held

THANK YOU

CHARGE TO: SUNSTONE ENERGY  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE

DEPTH OF JOB 4580.63'  
 PUMP TRUCK CHARGE \_\_\_\_\_  
 EXTRA FOOTAGE \_\_\_\_\_ @ \_\_\_\_\_  
 MILEAGE 54.00 @ 5.00 270.00  
 MANIFOLD \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 TOTAL 1640.00

PLUG & FLOAT EQUIPMENT

\_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_  
 \_\_\_\_\_ @ \_\_\_\_\_

TOTAL \_\_\_\_\_

TAX \_\_\_\_\_  
 TOTAL CHARGE \_\_\_\_\_  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

To Allied Cementing Co., Inc.  
 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 [Signature]

Brenditz Livingstone  
 PRINTED NAME



# Cementing Service Report

Customer <b>SUNSTONE ENERGY COMPANY</b>						Job Number <b>2205547957</b>								
Well <b>GRUBE 21-1</b>			Location (legal) <b>Sec 21-T18S-R31W</b>			Schlumberger Location <b>Perryton, TX</b>			Job Start <b>2005-Apr-25</b>					
Field <b>BECKLEY EA</b>		Formation Name/Type			Deviation		Bit Size <b>14.8 in</b>	Well MD <b>332 ft</b>	Well TVD <b>332 ft</b>					
County <b>SCOTT</b>		State/Province <b>KANSAS</b>			BHP <b>psi</b>	BHST <b>83 °F</b>	BHCT <b>°F</b>	Pore Press. Gradient <b>psi/ft</b>						
Well Master: <b>0630643186</b>		API / UWI:			<b>Casing/Liner</b>									
Rig Name <b>Murfin #24</b>	Drilled For <b>Gas</b>		Service Via <b>Land</b>			Depth, ft <b>334</b>	Size, in <b>10.75</b>	Weight, lb/ft <b>45.5</b>	Grade <b>K-55</b>	Thread <b>8RD</b>				
Offshore Zone	Well Class <b>New</b>		Well Type <b>Development</b>			<b>Tubing/Drill Pipe</b>								
Drilling Fluid Type <b>Bentonite</b>		Max. Density <b>9.5 lb/gal</b>	Plastic Viscosity <b>38 cp</b>		Depth,	Size, in	Weight, lb/ft	Grade	Thread					
Service Line <b>Cementing</b>		Job Type <b>Cem Surface Casing</b>			<b>Perforations/Open Hole</b>									
Max. Allowed Tubing Pressure <b>1000 psi</b>	Max. Allowed Ann. Pressure <b>1000 psi</b>		Wellhead Connection <b>10 3/4" H &amp; M</b>			Top, ft	Bottom, ft	spf	No. of Shots	Total Interval <b>ft</b>				
Service Instructions <b>CEMENT 10 3/4" SURFACE CASING</b>  <b>270 SKS CLASS C + 2% S001 + 0.25 lbs/sk D29</b> <b>DISPLACE WITH FRESH WATER</b>					Treat Down	Displacement	Packer Type	Packer Depth <b>ft</b>						
					Casing	28.7 bbl								
					Tubing Vol.	Casing Vol.	Annular Vol.	Open Hole Vol <b>ft</b>						
					bbl	32 bbl	33 bbl	65 bbl						
Casing/Tubing Secured <input checked="" type="checkbox"/>					1 Hole Volume Circulated prior to Cementing <input type="checkbox"/>					<b>Casing Tools</b>		<b>Squeeze Job</b>		
Lift Pressure: <b>160 psi</b>					Shoe Type: <b>Other</b>					Squeeze Type				
Pipe Rotated <input type="checkbox"/>					Pipe Reciprocated <input type="checkbox"/>					Shoe Depth: <b>ft</b>			Tool Type:	
No. Centralizers: <b>Top Plugs: 1</b>					Bottom Plugs:					Stage Tool Type:			Tool Depth <b>ft</b>	
Cement Head Type: <b>Single</b>					Stage Tool Depth: <b>ft</b>					Tail Pipe Size: <b>in</b>				
Job Scheduled For:		Arrived on Location: <b>2005-Apr-24 22:30</b>			Leave Location: <b>2005-Apr-25 3:40</b>			Collar Type: <b>Auto-Fill</b>		Tail Pipe Depth: <b>ft</b>				
								Collar Depth: <b>ft</b>		Sqz Total Vol: <b>bbl</b>				
Date	Time	Pressure	Density	NRD TOTAL VOL	0	0	0	0	<b>Message</b>					
	24 hr clock	psi	lb/gal	bbl	0	0	0	0						
2005-Apr-25	1:40	0	8.35	0.0	0	0	0	0						
2005-Apr-25	1:41	0	8.35	0.0	0	0	0	0						
2005-Apr-25	1:41								Fill Up Lines					
2005-Apr-25	1:41	5	8.35	0.0	0	0	0	0	<b>RECEIVED</b> <b>KANSAS CORPORATION COMMISSION</b> <b>NOV 29 2005</b>					
2005-Apr-25	1:42	0	8.35	0.0	0	0	0	0						
2005-Apr-25	1:43	9	8.35	0.0	0	0	0	0	<b>CONSERVATION DIVISION</b> <b>WICHITA, KS</b>					
2005-Apr-25	1:44	27	8.32	0.5	0	0	0	0						
2005-Apr-25	1:45	27	8.37	1.0	0	0	0	0						
2005-Apr-25	1:45	1419	8.37	1.1	0	0	0	0						
2005-Apr-25	1:46	23	8.37	1.3	0	0	0	0						
2005-Apr-25	1:47	23	8.36	2.3	0	0	0	0						
2005-Apr-25	1:47								Pressurte Test					
2005-Apr-25	1:47								Reset Total, Vol = 0.00 bbl					
2005-Apr-25	1:47	-5	8.37	0.2	0	0	0	0						
2005-Apr-25	1:47								Start Pumping Spacer					
2005-Apr-25	1:47	32	8.37	0.2	0	0	0	0						
2005-Apr-25	1:47	27	8.37	0.4	0	0	0	0						
2005-Apr-25	1:48	60	8.37	2.8	0	0	0	0						
2005-Apr-25	1:49	119	8.37	7.2	0	0	0	0						
2005-Apr-25	1:50	124	8.48	12.3	0	0	0	0						
2005-Apr-25	1:50								Reset Vol=14 bbl					
2005-Apr-25	1:50	142	9.41	13.7	0	0	0	0						

Well		Field			Service Date		Customer		Job Number
GRUBE #21-1		BECKLEY EA			05115-Apr-25		SUNSTONE ENERGY COMPANY		2205547957
Date	Time	Pressure	Density	NRD TOTAL VOL	0	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl	0	0	0	0	
2005-Apr-25	1:50								Start Mixing Tail Slurry
2005-Apr-25	1:50	151	10.05	14.8	0	0	0	0	
2005-Apr-25	1:50	169	11.50	2.6	0	0	0	0	
2005-Apr-25	1:51	197	13.37	7.6	0	0	0	0	
2005-Apr-25	1:52	220	14.56	12.7	0	0	0	0	
2005-Apr-25	1:53	220	14.86	17.7	0	0	0	0	
2005-Apr-25	1:54	211	14.14	22.8	0	0	0	0	
2005-Apr-25	1:55	151	13.49	27.8	0	0	0	0	
2005-Apr-25	1:55	69	14.72	31.1	0	0	0	0	
2005-Apr-25	1:56	69	14.85	34.0	0	0	0	0	
2005-Apr-25	1:57	156	15.00	37.9	0	0	0	0	
2005-Apr-25	1:58	206	15.09	42.6	0	0	0	0	
2005-Apr-25	1:59	215	15.04	47.4	0	0	0	0	
2005-Apr-25	2:00	206	14.90	52.2	0	0	0	0	
2005-Apr-25	2:00	211	14.78	57.1	0	0	0	0	
2005-Apr-25	2:01	215	15.10	62.0	0	0	0	0	
2005-Apr-25	2:02	87	14.17	66.8	0	0	0	0	
2005-Apr-25	2:02								Reset Total, Vol = 65.33 bbl
2005-Apr-25	2:02	0	13.81	67.0	0	0	0	0	
2005-Apr-25	2:03								Drop Top Plug
2005-Apr-25	2:03	0	13.81	0.0	0	0	0	0	
2005-Apr-25	2:03	0	13.81	0.0	0	0	0	0	
2005-Apr-25	2:04	-5	11.79	0.0	0	0	0	0	
2005-Apr-25	2:05	0	11.11	0.0	0	0	0	0	
2005-Apr-25	2:05	0	10.74	0.0	0	0	0	0	
2005-Apr-25	2:06	-5	10.43	0.0	0	0	0	0	
2005-Apr-25	2:07	0	10.28	0.0	0	0	0	0	
2005-Apr-25	2:08	114	9.31	3.0	0	0	0	0	
2005-Apr-25	2:09	110	8.46	7.4	0	0	0	0	
2005-Apr-25	2:10	124	8.43	11.9	0	0	0	0	
2005-Apr-25	2:10	133	8.45	16.3	0	0	0	0	
2005-Apr-25	2:11	73	8.38	19.7	0	0	0	0	
2005-Apr-25	2:12	82	8.38	21.9	0	0	0	0	
2005-Apr-25	2:13	92	8.38	24.1	0	0	0	0	
2005-Apr-25	2:14	101	8.38	26.3	0	0	0	0	
2005-Apr-25	2:15	114	8.38	28.4	0	0	0	0	
2005-Apr-25	2:15	691	8.35	29.4	0	0	0	0	Bump Top Plug
2005-Apr-25	2:16								
2005-Apr-25	2:16	426	8.37	29.4	0	0	0	0	
2005-Apr-25	2:16	41	8.37	29.4	0	0	0	0	
2005-Apr-25	2:16								Bleed Off Pressure
2005-Apr-25	2:16	41	8.34	29.4	0	0	0	0	
2005-Apr-25	2:17	69	8.35	29.5	0	0	0	0	Pump Return Back again 1.5 bbl
2005-Apr-25	2:17								Reset Total, Vol = 28.23 bbl
2005-Apr-25	2:17	78	8.37	0.1	0	0	0	0	
2005-Apr-25	2:18	842	8.38	1.0	0	0	0	0	
2005-Apr-25	2:18								CHECK AGAIN
2005-Apr-25	2:18	829	8.38	1.0	0	0	0	0	
2005-Apr-25	2:18	572	8.38	1.0	0	0	0	0	
2005-Apr-25	2:18								Reset Total, Vol = 0.97 bbl
2005-Apr-25	2:19	0	8.38	0.0	0	0	0	0	
2005-Apr-25	2:20	0	8.38	0.0	0	0	0	0	
2005-Apr-25	2:20	0	8.38	0.0	0	0	0	0	

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Well		Field			Service Date		Customer		Job Number
GRUBE #21-1		BECKLEY EA			05115-Apr-25		SUNSTONE ENERGY COMPANY		2205547957
Date	Time	Pressure	Density	NRD TOTAL VOL	0	0	0	0	Message
	24 hr clock	psi	lb/gal	bbl	0	0	0	0	
2005-Apr-25	2:21	5	8.38	0.0	0	0	0	0	
2005-Apr-25	2:22	233	8.38	0.7	0	0	0	0	
2005-Apr-25	2:23	362	8.38	0.8	0	0	0	0	
2005-Apr-25	2:24	0	8.38	0.8	0	0	0	0	
2005-Apr-25	2:25	-5	8.38	0.8	0	0	0	0	
2005-Apr-25	2:25	0	8.38	0.8	0	0	0	0	
2005-Apr-25	2:26	-5	8.38	0.8	0	0	0	0	
2005-Apr-25	2:27	-5	8.38	0.8	0	0	0	0	
2005-Apr-25	2:28	-5	8.38	0.8	0	0	0	0	
2005-Apr-25	2:29	-5	8.38	0.8	0	0	0	0	
2005-Apr-25	2:30	41	8.40	2.4	0	0	0	0	
2005-Apr-25	2:30								Float Holding
2005-Apr-25	2:30	37	8.40	2.5	0	0	0	0	
Post Job Summary									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
5.5			6	65		10			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
700		160	700						
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	25	bbl	
%	64 bbl		29 bbl	°F	<input type="checkbox"/> Washed Thru Perfs	To	ft		
Customer or Authorized Representative			Schlumberger Supervisor						
Griggs, Billie			Grella Chacon, Miguel						
					<input type="checkbox"/> Circulation Lost	<input checked="" type="checkbox"/> Job Completed			

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# Cementing Service Report

Customer <b>SUNSTONE ENERGY COMPANY</b>				Job Number <b>2205548144</b>				
Well <b>GRUBE 21-1</b>		Location (legal) <b>Sec 21-T18S-R31W</b>		Schlumberger Location <b>Perryton, TX</b>		Job Start <b>2005-May-07</b>		
Field <b>BECKLEY EA</b>		Formation Name/Type		Deviation	Bit Size <b>9.88 in</b>	Well MD <b>3,368 ft</b>	Well TVD <b>3,368 ft</b>	
County <b>SCOTT</b>		State/Province <b>KANSAS</b>		BHP <b>psi</b>	BHST <b>115 °F</b>	BHCT <b>°F</b>	Pore Press. Gradient <b>psi/ft</b>	
Well Master: <b>0630643186</b>		API / UWI:		Casing/Liner				
Rig Name <b>MURFIN 24</b>		Drilled For <b>Gas</b>		Service Via		Depth, ft <b>3305</b>	Size, in <b>7.63</b>	
Offshore Zone		Well Class <b>New</b>	Well Type <b>Development</b>	Weight, lb/ft <b>26.4</b>	Grade	Thread <b>8RD</b>		
Drilling Fluid Type		Max. Density <b>lb/gal</b>	Plastic Vt <b>cp</b>	Tubing/Drill Pipe				
Service Line <b>Cementing</b>		Job Type <b>Cem Interm Casing</b>		Depth	Size, in	Weight, lb/ft	Grade	
Max. Allowed Tubing Pressure <b>2000 psi</b>		Max. Allowed Ann. Pressure <b>psi</b>	WellHead Connection <b>7 5/8" H&amp;M</b>	Perforations/Open Hole				
Service Instructions Set 7 5/8" Casing in 2- stages Stage 1: 20 FW, 20 CW100, 20 FW 200 sks Class H + 0.1%D13 + 0.25 lbs/sk D29  Stage 2: 20 FW, 20 CW100, 20 FW 200 sks Class H + 0.1%D13 + 0.25 lbs/sk D29 Casing/Tubing Secured <input checked="" type="checkbox"/> 1 Hole Volume Circulated prior to Cementing <input checked="" type="checkbox"/>		Top, ft	Bottom, ft	spf	No. of Shots	Total Interval <b>ft</b>		
						Diameter <b>in</b>		
		Treat Down <b>Casing</b>	Displacement <b>154 bbl</b>	Packer Type <b>Stage Collar</b>	Packer Depth <b>1700 ft</b>	OpenHole Vol <b>283 bbl</b>		
		Tubing Vol <b>bbl</b>	Casing Vol <b>156 bbl</b>	Annular Vol <b>127 bbl</b>				
Lift Pressure: <b>500 psi</b>		Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Casing Tools		
No. Centralizers: <b>Top Plugs:</b>		<b>Bottom Plugs:</b>		Shoe Type:		Squeeze Job		
Cement Head Type: <b>Single</b>		Job Scheduled For: <b>2005-May-07 6:00</b>		Arrived on Location: <b>2005-May-07 18:30</b>		Shoe Depth: <b>3305 ft</b>		
						Tool Type:		
						Stage Tool Type:		
						Tool Depth <b>ft</b>		
						Stage Tool Depth: <b>1700 ft</b>		
						Tail Pipe Size: <b>in</b>		
						Collar Type:		
						Tail Pipe Depth: <b>ft</b>		
						Collar Depth: <b>3261 ft</b>		
						Sqz Total Vol: <b>bbl</b>		
Date	Time	Treating Pressure psi	Flow Rate bbl/min	Volume bbl	CMT DENS lb/gal	Flowmeter Rate bbl/min	Flowmeter Tot bbl	Message
2005-May-07	15:23	0	0.0	0.0	8.35	0.0	0.0	
2005-May-07	15:23	0	0.0	0.0	8.35	0.0	0.0	
2005-May-07	15:23							
2005-May-07	15:23	0	0.0	0.0	8.35	0.0	0.0	Start Job
2005-May-07	15:24	0	0.0	0.0	8.35	0.0	0.0	
2005-May-07	15:24	0	0.0	0.0	8.35	0.0	0.0	
2005-May-07	15:25	0	0.0	0.0	8.35	0.0	0.0	
2005-May-07	15:25	64	0.0	0.0	8.32	1.1	0.8	
2005-May-07	15:26	3149	0.0	0.0	8.35	0.0	0.8	
2005-May-07	15:26							
2005-May-07	15:26	14	0.0	0.0	8.35	0.0	0.8	Pressure Test Lines
2005-May-07	15:27	82	2.9	0.4	8.35	3.0	1.2	
2005-May-07	15:27	119	2.9	0.6	8.35	2.9	1.5	
2005-May-07	15:27							
2005-May-07	15:27	105	3.0	1.8	8.35	2.9	2.7	Start Pumping Spacer
2005-May-07	15:28	133	5.3	4.3	8.35	5.3	5.1	
2005-May-07	15:28	146	5.4	7.0	8.35	5.5	7.8	
2005-May-07	15:29	160	5.4	9.7	8.35	5.4	10.5	
2005-May-07	15:29	137	5.4	12.4	8.35	5.4	13.3	
2005-May-07	15:30	165	5.4	15.1	8.35	5.4	16.0	
2005-May-07	15:30	156	5.5	17.8	8.35	5.3	18.7	
2005-May-07	15:31	169	5.4	20.6	8.35	5.4	21.4	

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Well		Field			Service Date		Customer		Job Number
GRUBE #21-1		BECKLEY EA			05127-May-07		SUNSTONE ENERGY COMPANY		2205548144
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr. clock	psi	bbbl/min	bbbl	lb/gal	bbbl/min	bbbl	0	
2005-May-07	15:31							0	End Spacer
2005-May-07	15:31	169	5.4	21.2	8.35	5.4	22.1	0	
2005-May-07	15:31							0	Start Pumping Wash
2005-May-07	15:31	160	5.4	21.4	8.35	5.4	22.2	0	
2005-May-07	15:31	192	5.4	23.3	8.36	5.4	24.2	0	
2005-May-07	15:32	211	5.4	26.0	8.36	5.3	26.9	0	
2005-May-07	15:32	215	5.5	28.7	8.36	5.6	29.6	0	
2005-May-07	15:33	215	5.5	31.5	8.36	5.6	32.4	0	
2005-May-07	15:33	211	5.5	34.2	8.36	5.6	35.1	0	
2005-May-07	15:34	215	5.5	36.9	8.36	5.6	37.9	0	
2005-May-07	15:34	211	5.5	39.7	8.36	5.5	40.6	0	
2005-May-07	15:35							0	End Wash
2005-May-07	15:35	211	5.5	41.4	8.37	5.6	42.4	0	
2005-May-07	15:35							0	Start Pumping Spacer
2005-May-07	15:35	206	5.5	41.5	8.38	5.6	42.5	0	
2005-May-07	15:35	215	5.5	42.4	8.38	5.5	43.4	0	
2005-May-07	15:35	206	5.5	45.2	8.37	5.6	46.2	0	
2005-May-07	15:36	206	5.5	47.9	8.37	5.5	48.9	0	
2005-May-07	15:36	201	5.5	50.7	8.37	5.6	51.7	0	
2005-May-07	15:37	201	5.5	53.4	8.37	5.5	54.5	0	
2005-May-07	15:37	211	5.5	56.3	8.37	5.5	57.3	0	
2005-May-07	15:38	211	5.5	59.0	8.37	5.5	60.1	0	
2005-May-07	15:38	215	5.5	61.8	8.39	5.6	62.9	0	
2005-May-07	15:39							0	End Spacer
2005-May-07	15:39	229	5.5	63.9	9.03	5.4	65.0	0	
2005-May-07	15:39							0	Reset Total, Vol = 64.12 bbl
2005-May-07	15:39	229	5.5	64.1	9.14	5.4	65.2	0	
2005-May-07	15:39							0	Start Cement Slurry
2005-May-07	15:39	229	5.5	0.4	9.34	5.5	0.4	0	
2005-May-07	15:39	233	5.5	0.5	9.40	5.5	0.5	0	
2005-May-07	15:39	256	5.5	3.2	11.40	5.5	3.2	0	
2005-May-07	15:40	270	5.5	6.0	13.37	5.4	5.9	0	
2005-May-07	15:40	288	5.4	8.5	14.14	5.4	8.5	0	
2005-May-07	15:41	151	2.9	10.9	14.45	3.7	10.9	0	
2005-May-07	15:41	142	2.9	12.4	15.99	3.0	12.3	0	
2005-May-07	15:42	137	2.9	13.8	16.07	2.8	13.8	0	
2005-May-07	15:42	206	4.1	15.4	16.50	3.8	15.2	0	
2005-May-07	15:43	279	5.6	18.0	16.39	5.5	17.7	0	
2005-May-07	15:43	266	5.5	20.8	16.42	5.4	20.5	0	
2005-May-07	15:44	252	5.5	23.5	16.38	5.5	23.2	0	
2005-May-07	15:44	243	5.9	26.3	16.33	5.8	26.0	0	
2005-May-07	15:45	211	5.5	29.2	16.40	5.6	28.9	0	
2005-May-07	15:45	197	5.5	32.0	16.24	5.5	31.7	0	
2005-May-07	15:46	201	5.5	34.8	16.27	5.4	34.4	0	
2005-May-07	15:46	101	2.9	36.9	16.12	4.0	36.9	0	
2005-May-07	15:47							0	End Cement Slurry
2005-May-07	15:47	-9	0.0	37.7	15.09	0.5	38.1	0	
2005-May-07	15:47							0	Reset Total, Vol = 37.67 bbl
2005-May-07	15:47	-9	0.0	37.7	14.94	0.2	38.1	0	
2005-May-07	15:47	-9	0.0	0.0	14.74	0.0	0.0	0	
2005-May-07	15:47	-5	0.0	0.0	14.70	0.0	0.0	0	
2005-May-07	15:48	64	0.0	0.0	13.98	0.4	0.0	0	
2005-May-07	15:48	124	4.6	2.0	8.87	4.6	1.9	0	
2005-May-07	15:49	124	4.6	4.3	8.72	4.5	4.2	0	

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Well		Field		Service Date		Customer		Job Number	
GRUBE #21-1		BECKLEY EA		05127-May-07		SUNSTONE ENERGY COMPANY		2205548144	
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbbl/min	bbbl	lb/gal	bbbl/min	bbbl	0	
2005-May-07	15:49	224	5.9	7.0	8.49	5.3	6.7	0	
2005-May-07	15:50	-9	0.0	8.3	8.35	0.0	8.2	0	
2005-May-07	15:50	0	0.0	8.3	8.47	0.0	8.2	0	
2005-May-07	15:51	0	0.0	8.3	8.47	0.0	8.2	0	
2005-May-07	15:51	0	0.0	8.3	8.47	0.0	8.2	0	
2005-May-07	15:52	247	7.4	8.9	8.41	6.0	8.7	0	
2005-May-07	15:52	302	6.9	12.4	8.41	7.0	12.3	0	
2005-May-07	15:53	-5	0.0	13.9	8.40	0.0	14.0	0	
2005-May-07	15:53	41	4.9	15.0	8.37	5.0	15.4	0	
2005-May-07	15:54	41	4.9	17.5	8.37	5.2	17.9	0	
2005-May-07	15:54								Drop Top Plug
2005-May-07	15:54	46	4.9	18.0	8.37	5.2	18.5	0	
2005-May-07	15:54								Start Displacement
2005-May-07	15:54	46	4.9	18.1	8.37	5.2	18.6	0	
2005-May-07	15:54	32	5.6	20.1	8.37	5.8	20.6	0	
2005-May-07	15:55	41	5.5	22.8	8.37	5.8	23.5	0	
2005-May-07	15:55	37	5.5	12.5	8.37	5.7	12.5	0	
2005-May-07	15:56	41	5.5	15.3	8.37	5.7	15.3	0	
2005-May-07	15:56	23	5.5	18.0	8.37	5.7	18.2	0	
2005-May-07	15:57	23	5.5	20.8	8.37	5.7	21.0	0	
2005-May-07	15:57	32	5.5	23.5	8.37	5.7	23.9	0	
2005-May-07	15:58	46	5.5	26.3	8.37	5.7	26.7	0	
2005-May-07	15:58	37	5.5	29.1	8.37	5.7	29.6	0	
2005-May-07	15:59	32	5.5	31.9	8.37	5.8	32.6	0	
2005-May-07	15:59	41	5.5	34.7	8.37	5.6	35.4	0	
2005-May-07	16:00	46	5.5	37.4	8.37	5.8	38.3	0	
2005-May-07	16:00	27	5.5	40.2	8.37	5.7	41.2	0	
2005-May-07	16:01	27	5.5	43.0	8.37	5.7	44.0	0	
2005-May-07	16:01	32	5.5	45.7	8.37	5.7	46.9	0	
2005-May-07	16:02	32	5.5	48.5	8.37	5.8	49.8	0	
2005-May-07	16:02	37	5.5	51.3	8.37	5.7	52.7	0	
2005-May-07	16:03	37	5.5	54.0	8.37	5.6	55.5	0	
2005-May-07	16:03	32	5.5	56.8	8.37	5.8	58.3	0	
2005-May-07	16:04	37	5.5	59.5	8.37	5.7	61.2	0	
2005-May-07	16:04	27	5.5	62.3	8.37	5.7	64.0	0	
2005-May-07	16:05	37	5.5	65.1	8.37	5.7	66.9	0	
2005-May-07	16:05	37	5.5	67.8	8.37	5.7	69.8	0	
2005-May-07	16:06	37	5.5	70.6	8.37	5.7	72.6	0	
2005-May-07	16:06	18	4.7	73.4	8.37	5.6	75.5	0	
2005-May-07	16:07	50	3.2	75.0	8.55	5.2	78.0	0	
2005-May-07	16:07	60	6.1	77.8	8.83	6.1	81.0	0	
2005-May-07	16:08	96	7.2	81.1	8.88	7.2	84.3	0	
2005-May-07	16:08	60	5.4	84.4	8.90	5.6	87.6	0	
2005-May-07	16:09	60	5.4	87.1	8.92	5.5	90.4	0	
2005-May-07	16:09	64	5.4	89.9	8.88	5.6	93.3	0	
2005-May-07	16:10	60	5.4	92.6	8.88	5.5	96.1	0	
2005-May-07	16:10	64	5.4	95.3	8.91	5.5	98.8	0	
2005-May-07	16:11	64	5.4	98.0	8.92	5.6	101.6	0	
2005-May-07	16:11	64	5.4	100.7	8.93	5.5	104.4	0	
2005-May-07	16:12	64	5.4	103.3	8.92	5.6	107.1	0	
2005-May-07	16:12	64	5.4	106.0	8.89	5.6	109.9	0	
2005-May-07	16:13	64	5.4	108.8	8.88	5.6	112.7	0	
2005-May-07	16:13	60	5.4	111.5	8.86	5.5	115.5	0	
2005-May-07	16:14	60	5.4	114.2	8.86	5.5	118.3	0	

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Well		Field			Service Date		Customer		Job Number	
GRUBE #21-1		BECKLEY EA			05127-May-07		SUNSTONE ENERGY COMPANY		2205548144	
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message	
	24 hr clock	psi	bbf/min	bbf	lb/gal	bbf/min	bbf	0		
2005-May-07	16:14	69	5.4	116.9	8.86	5.5	121.0	0		
2005-May-07	16:15	64	5.4	119.5	8.86	5.5	123.8	0		
2005-May-07	16:15	69	5.4	122.2	8.86	5.6	126.6	0		
2005-May-07	16:16	69	5.4	124.9	8.86	5.5	129.3	0		
2005-May-07	16:16	82	5.4	127.6	8.86	5.5	132.1	0		
2005-May-07	16:17	124	5.4	130.3	8.87	5.4	134.8	0		
2005-May-07	16:17	169	5.4	133.0	8.90	5.5	137.5	0		
2005-May-07	16:18	169	5.4	135.7	8.93	5.4	140.2	0		
2005-May-07	16:18	229	5.4	138.4	8.95	5.4	142.9	0		
2005-May-07	16:19	243	4.9	141.1	8.96	5.0	145.6	0		
2005-May-07	16:19	266	4.8	143.5	8.98	4.8	148.0	0		
2005-May-07	16:20	284	4.0	145.9	8.99	4.4	150.5	0		
2005-May-07	16:20	266	3.0	147.5	8.99	3.0	152.2	0		
2005-May-07	16:21	275	3.0	149.0	9.01	3.0	153.7	0		
2005-May-07	16:21	815	0.0	149.7	9.01	0.0	154.4	0		
2005-May-07	16:22								Bump Top Plug	
2005-May-07	16:22	815	0.0	149.7	9.01	0.0	154.4	0		
2005-May-07	16:22	815	0.0	149.7	9.01	0.0	154.4	0		
2005-May-07	16:22								End Displacement	
2005-May-07	16:22								Reset Total, Vol = 149.67 bbf	
2005-May-07	16:22	815	0.0	149.7	9.01	0.0	154.4	0		
2005-May-07	16:22	810	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:22	792	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:23	0	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:23	0	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:24	0	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:24	5	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:25	0	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:25	0	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:26	0	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:26	0	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:27	0	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:27	-5	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:28	0	0.0	0.0	9.05	0.0	0.0	0		
2005-May-07	16:28	0	0.0	0.0	9.03	0.0	0.0	0		
2005-May-07	16:29	0	0.0	0.0	9.03	0.0	0.0	0		
2005-May-07	16:29	0	0.0	0.0	9.03	0.0	0.0	0		
2005-May-07	16:30	0	0.0	0.0	9.03	0.0	0.0	0		
2005-May-07	16:30	0	0.0	0.0	9.03	0.0	0.0	0		
2005-May-07	16:31	0	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:31	0	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:32	0	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:32	-5	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:33	-5	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:33	0	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:34	-5	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:34	-5	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:35	0	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:35	-5	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:36	0	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:36	0	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:37	-5	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:37	-5	0.0	0.0	9.02	0.0	0.0	0		
2005-May-07	16:38	0	0.0	0.0	9.02	0.0	0.0	0		

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Well		Field			Service Date		Customer		Job Number
GRUBE #21-1		BECKLEY EA			05127-May-07		SUNSTONE ENERGY COMPANY		2205548144
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2005-May-07	16:38	-5	0.0	0.0	9.02	0.0	0.0	0	
2005-May-07	16:39	0	0.0	0.0	9.02	0.0	0.0	0	
2005-May-07	16:39	18	1.4	0.1	9.02	0.0	0.1	0	
2005-May-07	16:40	41	2.6	0.9	8.97	2.2	0.7	0	
2005-May-07	16:40								opened tool
2005-May-07	16:40	41	2.9	0.9	8.96	2.3	0.7	0	
2005-May-07	16:40	69	4.1	2.9	8.89	4.2	2.6	0	
2005-May-07	16:41	69	4.1	5.0	8.89	4.2	4.8	0	
2005-May-07	16:41	92	5.0	7.5	8.73	5.1	7.2	0	
2005-May-07	16:42	82	5.0	10.0	8.37	5.0	9.8	0	
2005-May-07	16:42	14	5.0	12.5	8.31	5.0	12.3	0	
2005-May-07	16:43	37	5.0	15.0	8.35	5.1	14.8	0	
2005-May-07	16:43	55	5.0	16.1	8.35	5.1	15.9	0	
2005-May-07	16:43								Reset Total, Vol = 16.12 bbl
2005-May-07	16:43	37	5.0	0.2	8.35	5.1	0.2	0	
2005-May-07	16:43								Start Pumping Spacer
2005-May-07	16:43	87	6.4	1.4	8.35	5.6	1.4	0	
2005-May-07	16:44	69	5.2	4.1	8.35	5.2	4.1	0	
2005-May-07	16:44	60	5.3	6.7	8.35	5.3	6.8	0	
2005-May-07	16:45	60	5.2	9.3	8.35	5.2	9.4	0	
2005-May-07	16:45	64	5.2	11.9	8.35	5.3	12.0	0	
2005-May-07	16:46	55	5.2	14.5	8.35	5.3	14.6	0	
2005-May-07	16:46	64	5.2	17.0	8.35	5.2	17.2	0	
2005-May-07	16:47	64	5.8	19.9	8.36	5.9	20.1	0	
2005-May-07	16:47								End Spacer
2005-May-07	16:47	69	5.8	20.0	8.36	5.9	20.3	0	
2005-May-07	16:47	69	5.8	20.1	8.36	5.8	20.4	0	
2005-May-07	16:47								Start Pumping Wash
2005-May-07	16:47	78	5.9	22.8	8.36	5.9	23.0	0	
2005-May-07	16:48	78	5.9	25.7	8.36	6.0	25.9	0	
2005-May-07	16:48	82	5.9	28.6	8.37	6.0	28.9	0	
2005-May-07	16:49	87	5.9	31.6	8.38	6.1	31.9	0	
2005-May-07	16:49	69	5.9	34.5	9.13	14.2	34.8	0	
2005-May-07	16:50	73	5.9	37.4	8.37	5.9	38.1	0	
2005-May-07	16:50	82	5.9	40.5	8.37	6.0	41.2	0	
2005-May-07	16:51	78	5.9	43.4	8.37	5.9	44.1	0	
2005-May-07	16:51								End Wash
2005-May-07	16:51	82	5.9	45.4	8.37	6.0	46.1	0	
2005-May-07	16:51								Start Pumping Spacer
2005-May-07	16:51	82	5.9	46.4	8.37	5.8	47.1	0	
2005-May-07	16:52	92	5.9	49.3	8.37	5.9	50.1	0	
2005-May-07	16:52	92	6.0	52.3	8.37	6.0	53.1	0	
2005-May-07	16:53	96	6.0	55.3	8.37	6.1	56.1	0	
2005-May-07	16:53	96	6.0	58.3	8.37	6.1	59.1	0	
2005-May-07	16:54	101	5.9	61.2	8.37	6.1	62.1	0	
2005-May-07	16:54	92	5.1	62.9	9.04	5.3	63.9	0	
2005-May-07	16:54								End Spacer
2005-May-07	16:54	96	5.1	63.0	9.12	5.3	64.0	0	
2005-May-07	16:54								Reset Total, Vol = 62.99 bbl
2005-May-07	16:54								Start Cement Slurry
2005-May-07	16:54	92	5.1	0.3	9.34	5.2	0.3	0	
2005-May-07	16:54	119	5.7	1.0	9.83	5.8	1.0	0	
2005-May-07	16:55	133	5.7	3.8	11.05	5.7	3.9	0	
2005-May-07	16:55	156	5.7	6.7	12.45	5.9	6.8	0	

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Well		Field			Service Date		Customer		Job Number
GRUBE #21-1		BECKLEY EA			05127-May-07		SUNSTONE ENERGY COMPANY		2205548144
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2005-May-07	16:56	151	5.6	9.5	12.89	5.4	9.6	0	
2005-May-07	16:56	142	5.7	12.4	12.82	5.7	12.5	0	
2005-May-07	16:57	128	5.7	15.2	12.63	5.7	15.3	0	
2005-May-07	16:57	124	5.7	18.1	12.79	5.8	18.2	0	
2005-May-07	16:58	156	6.5	21.2	12.83	6.5	21.4	0	
2005-May-07	16:58	160	6.5	24.5	12.84	6.5	24.6	0	
2005-May-07	16:59	160	6.5	27.7	12.68	6.5	27.9	0	
2005-May-07	16:59	156	6.5	31.0	12.57	6.6	31.2	0	
2005-May-07	17:00	156	6.5	34.2	12.47	6.6	34.5	0	
2005-May-07	17:00	165	6.5	37.5	12.68	6.6	37.8	0	
2005-May-07	17:01	169	6.5	40.8	12.79	6.7	41.2	0	
2005-May-07	17:01	165	6.5	44.1	12.72	6.7	44.5	0	
2005-May-07	17:02	169	6.5	47.4	12.68	6.7	47.8	0	
2005-May-07	17:02	165	6.5	50.6	12.79	6.7	51.1	0	
2005-May-07	17:03	169	6.6	53.9	12.88	6.6	54.4	0	
2005-May-07	17:03	160	6.6	57.2	12.56	6.6	57.7	0	
2005-May-07	17:04	46	3.4	59.7	12.37	3.8	60.4	0	
2005-May-07	17:04	55	3.4	61.5	12.66	3.7	62.3	0	
2005-May-07	17:05	46	2.8	63.1	12.51	3.4	64.0	0	
2005-May-07	17:05	55	3.6	64.7	12.78	3.6	65.8	0	
2005-May-07	17:06	137	6.0	66.9	12.85	5.7	67.9	0	
2005-May-07	17:06	156	6.2	70.0	12.75	6.6	71.0	0	
2005-May-07	17:07	151	6.4	73.2	12.72	6.5	74.2	0	
2005-May-07	17:07	160	6.4	76.4	12.71	6.5	77.5	0	
2005-May-07	17:08	160	6.4	79.6	12.72	6.5	80.7	0	
2005-May-07	17:08	160	6.4	82.8	12.70	6.6	84.0	0	
2005-May-07	17:09	160	6.4	86.0	12.73	6.6	87.2	0	
2005-May-07	17:09	160	6.4	89.2	12.79	6.5	90.5	0	
2005-May-07	17:10	183	6.9	92.5	12.80	7.0	93.8	0	
2005-May-07	17:10	169	7.0	95.8	12.66	6.7	97.1	0	
2005-May-07	17:11	146	6.6	99.2	11.87	6.7	100.5	0	
2005-May-07	17:12	-9	0.0	100.9	11.83	3.7	103.0	0	
2005-May-07	17:12	-9	0.0	100.9	11.61	3.6	104.7	0	
2005-May-07	17:13	-5	0.0	100.9	11.58	3.8	106.6	0	
2005-May-07	17:13	-5	0.0	100.9	11.53	3.8	108.5	0	
2005-May-07	17:14	-9	0.0	100.9	11.46	4.0	110.5	0	
2005-May-07	17:14	78	4.6	101.6	13.30	4.5	112.6	0	
2005-May-07	17:15	133	6.0	104.3	13.01	5.9	115.1	0	
2005-May-07	17:15	197	7.1	107.8	13.09	7.1	118.6	0	
2005-May-07	17:16	183	7.0	111.2	12.91	6.8	122.1	0	
2005-May-07	17:16	192	7.1	114.7	12.91	7.1	125.6	0	
2005-May-07	17:17	179	6.9	118.2	12.64	7.0	129.0	0	
2005-May-07	17:17	192	7.0	121.7	12.66	7.1	132.6	0	
2005-May-07	17:18	192	7.0	125.2	12.74	7.0	136.1	0	
2005-May-07	17:18	183	7.1	128.7	12.78	7.1	139.7	0	
2005-May-07	17:19	188	7.1	132.2	12.75	7.0	143.2	0	
2005-May-07	17:19	96	4.3	135.5	13.17	4.5	146.6	0	
2005-May-07	17:20	73	4.3	137.6	12.92	4.4	148.7	0	
2005-May-07	17:20	60	1.4	139.2	12.76	4.0	150.8	0	
2005-May-07	17:20								End Cement Slurry
2005-May-07	17:20	-5	0.0	139.2	12.13	0.0	151.0	0	
2005-May-07	17:21	-5	0.0	139.2	12.13	0.0	151.0	0	
2005-May-07	17:21	-9	0.0	139.2	12.13	0.0	151.0	0	
2005-May-07	17:21								Reset Total, Vol = 139.18 bbl

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Well		Field			Service Date		Customer		Job Number
GRUBE #21-1		BECKLEY EA			05127-May-07		SUNSTONE ENERGY COMPANY		2205548144
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbl/min	bbl	lb/gal	bbl/min	bbl	0	
2005-May-07	17:21	-9	0.0	0.0	12.13	0.0	0.0	0	
2005-May-07	17:22	-5	0.0	0.0	11.21	0.0	0.0	0	
2005-May-07	17:22	114	3.8	0.0	9.04	3.1	0.4	0	
2005-May-07	17:23	224	5.5	0.0	8.74	5.5	3.0	0	
2005-May-07	17:23	220	5.5	0.0	8.55	5.5	5.8	0	
2005-May-07	17:24	215	5.6	0.0	8.50	5.8	8.7	0	
2005-May-07	17:24	5	0.0	0.0	8.50	0.0	9.1	0	
2005-May-07	17:25	119	7.3	0.9	8.41	6.7	9.8	0	
2005-May-07	17:25	78	6.9	4.3	8.41	7.0	13.3	0	
2005-May-07	17:26	60	6.1	7.7	8.38	6.4	16.7	0	
2005-May-07	17:26	73	6.1	10.7	8.38	6.2	19.8	0	
2005-May-07	17:26	87	6.5	11.4	8.38	6.5	20.4	0	
2005-May-07	17:26								Drop Top Plug
2005-May-07	17:26								Start Displacement
2005-May-07	17:26	96	6.5	11.7	8.38	6.5	20.8	0	
2005-May-07	17:27	114	6.5	14.0	8.38	6.5	23.1	0	
2005-May-07	17:27	146	6.5	17.2	8.37	6.6	17.3	0	
2005-May-07	17:28	188	6.5	20.5	8.37	6.5	20.6	0	
2005-May-07	17:28	224	6.5	23.8	8.37	6.6	23.9	0	
2005-May-07	17:29	252	6.5	27.0	8.37	6.5	27.1	0	
2005-May-07	17:29	288	6.6	30.3	8.37	6.6	30.4	0	
2005-May-07	17:30	330	6.6	33.6	8.37	6.7	33.8	0	
2005-May-07	17:30	375	6.6	37.0	8.37	6.5	37.1	0	
2005-May-07	17:31	407	6.7	40.3	8.37	6.6	40.4	0	
2005-May-07	17:31	426	6.7	43.7	8.37	6.7	43.8	0	
2005-May-07	17:32	439	6.7	47.0	8.37	6.7	47.2	0	
2005-May-07	17:32	453	6.7	50.4	8.37	6.7	50.5	0	
2005-May-07	17:33	471	6.7	53.7	8.37	6.7	53.9	0	
2005-May-07	17:33	485	6.7	57.2	8.37	6.8	57.3	0	
2005-May-07	17:34	494	6.7	60.6	8.37	6.8	60.7	0	
2005-May-07	17:34	517	6.8	64.0	8.37	6.7	64.0	0	
2005-May-07	17:35	536	6.7	67.3	8.37	6.8	67.4	0	
2005-May-07	17:35	540	6.7	70.7	8.37	6.7	70.7	0	
2005-May-07	17:36	522	4.5	74.1	8.37	6.5	74.1	0	
2005-May-07	17:36	476	3.0	75.6	8.37	3.0	75.8	0	
2005-May-07	17:37	476	3.0	77.1	8.37	3.0	77.2	0	
2005-May-07	17:37	485	3.0	78.5	8.37	3.0	78.7	0	
2005-May-07	17:38	2225	0.0	79.9	8.37	1.4	80.1	0	
2005-May-07	17:38	2206	0.0	79.9	8.37	0.0	80.2	0	
2005-May-07	17:38								Bump Top Plug
2005-May-07	17:38	2206	0.0	79.9	8.37	0.0	80.2	0	
2005-May-07	17:38	2206	0.0	79.9	8.37	0.0	80.2	0	
2005-May-07	17:38								End Displacement
2005-May-07	17:38	2206	0.0	79.9	8.37	0.0	80.2	0	
2005-May-07	17:38								Reset Total, Vol = 79.91 bbl
2005-May-07	17:39	2206	0.0	0.0	8.37	0.0	0.0	0	
2005-May-07	17:39	641	0.0	0.0	8.37	0.0	0.0	0	
2005-May-07	17:40	0	0.0	0.0	8.37	0.0	0.0	0	
2005-May-07	17:40	5	0.0	0.0	8.37	0.0	0.0	0	
2005-May-07	17:41	142	0.8	0.1	8.35	0.7	0.1	0	
2005-May-07	17:41	288	0.0	0.1	8.35	0.0	0.1	0	
2005-May-07	17:42	46	0.0	0.1	8.35	0.0	0.1	0	
2005-May-07	17:42	5	0.0	0.1	8.35	0.0	0.1	0	
2005-May-07	17:42	5	0.0	0.1	8.35	0.0	0.1	0	

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Well GRUBE #21-1		Field BECKLEY EA		Service Date 05127-May-07		Customer SUNSTONE ENERGY COMPANY		Job Number 2205548144	
Date	Time	Treating Pressure	Flow Rate	Volume	CMT DENS	Flowmeter Rate	Flowmeter Tot	0	Message
	24 hr clock	psi	bbbl/min	bbbl	lb/gal	bbbl/min	bbbl	0	
2005-May-07	17:42								End Job
<b>Post Job Summary</b>									
Average Pump Rates, bpm					Volume of Fluid Injected, bbl				
Slurry	N2	Mud	Maximum Rate	Total Slurry	Mud	Spacer	N2		
5			6.5	184		120			
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum	Final	Average	Bump Plug to	Breakdown	Volume	Density			
			2200			bbbl	lb/gal		
Avg. N2 Percent	Designed Slurry Volume		Displacement	Mix Water Temp	<input checked="" type="checkbox"/> Cement Circulated to Surface?	Volume	30	bbbl	
%	184 bbl		154 bbl	°F	<input type="checkbox"/> Washed Thru Perfs	To	ft		
Customer or Authorized Representative			Schlumberger Supervisor			<input type="checkbox"/> Circulation Lost			
Griggs, Billie			Ahrends, Timothy			<input checked="" type="checkbox"/> Job Completed			

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