

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
September 1999  
Form Must Be Typed

WELL COMPLETION FORM ORIGINAL  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 32959  
Name: DEEP ROCK EXPLORATION, INC.  
Address: 111 West 12th Street  
City/State/Zip: Goodland, Kansas 67735  
Purchaser: STG  
Operator Contact Person: Ross McGuckin  
Phone: (785) 899-7060  
Contractor: Name: Allen Drilling Company -- Rig #5  
License: 5418  
Wellsite Geologist: Curtis Covey .... Derby, KS.

Designate Type of Completion:  
 New Well  Re-Entry  Workover  
 Oil  SWD  SLOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-entry: Old Well Info as follows: **RECEIVED**  
**KANSAS CORPORATION COMMISSION**

Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: 05-29-2003  
CONSERVATION DIVISION  
WICHITA, KS  
 Deepening  Re-perf.  Conversion/SWD  
 Plug Back \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
 Other (SWD or Enhr.?) \_\_\_\_\_ Docket No. \_\_\_\_\_

<u>16 Nov 2002</u>	<u>26 Nov 2002</u>	<u>4 Jan 2003</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 181-20320-0000  
County: Sherman  
W2 NE NE NW Sec. 18 Twp. 9 S. R. 41  East  West  
330 feet from S (N) (circle one) Line of Section  
2176 feet from E (W) (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:  
(circle one) NE SE (NW) SW  
Lease Name: \_\_\_\_\_ Parish \_\_\_\_\_ Well #: 1  
Field Name: WC  
Producing Formation: Foraker  
Elevation: Ground: 3858' Kelly Bushing: 3870'  
Total Depth: 4810' Plug Back Total Depth: 4070'  
Amount of Surface Pipe Set and Cemented at 366 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 2131 Feet  
If Alternate II completion, cement circulated from \_\_\_\_\_  
feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

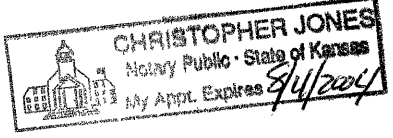
**Drilling Fluid Management Plan** ALT 1 DPW 5-29-03  
(Data must be collected from the Reserve Pit)  
Chloride content 200 ppm Fluid volume 800 bbls  
Dewatering method used Air Dry  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_ NA  
Lease Name: \_\_\_\_\_ License 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: Curtis E. Covey  
Title: Agent Date: 5-29-2003  
Subscribed and sworn to before me this 29 day of May,  
2003.  
Notary Public: [Signature]  
Date Commission Expires: August 4, 2004

**KCC Office Use ONLY**  
NO Letter of Confidentiality Attached  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution



15-18, 20320-0000  
Side Two

ORIGINAL

Operator Name: DEEP ROCK EXPLORATION, INC. Lease Name: Parish Well #: 1  
 Sec. 18 Twp. 9 S. R. 41  East  West County: Sherman

**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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input 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	Niobrara	1270'	+2600'
Electric Log Run <i>(Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Ft. Hays	1850'	+2020'
List All E. Logs Run:		Stone Corral	3264'	+606
CNL / CDL; DIL; <i>(ML - not available KCC Did not run 5-29-03)</i>		Heebner Shale	4408'	-538
		Lansing	4460'	-590

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	# Sacjs Used	Type and Percent Additives
Surface	12-1/4"	8-5/8"	24#	366'	Common	225	3% cc + 2% gel
Prod-Btm Stage	7-7/8"	5-1/2"	15.5#	4809'	ASC	390	.0025% of FL-10
Prod- Top Stage	7-7/8"	5-1/2"	15.5#	(2131')	Lite	275	1/4# Flo-Seal

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 <i>(Amount and Kind of Material Used)</i>	Depth
4	Perf: 4,496' - 4500'; .... then 5/1/2" Bolt BP @ 4480'	1000 gal 15% HCl + 500 gal 7.5% HCl	
4	Perf: 4386' - 90'; .... then 5/1/2" Bolt BP @ 4295'	1000 gal 15% HCl + 500 gal 7/5% HCl	
4	Perf: 4196.5' - 4201.5'; .... then 5-1/2" Bolt BP @ 4070'	1000 gal 15% MCA + 30 Bbl 2% KCl	
4	Perf: 3978' - 81'	1500 gal 15% MCA	

TUBING RECORD		Size	Set At	Packer At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
		(Not set but will recomplete)				
Date of First, Resumerd 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	
	2*	.1*	35* (Treatment & Filtrate)	(* Swab Estimate)		

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 \_\_\_\_\_

RECEIVED  
KANSAS CORPORATION COMMISSION  
MAY 29 2003  
CONSERVATION DIVISION  
WICHITA, KS

# ALLIED CEMENTING CO., INC. 12049

REMIT TO P.O. BOX 31  
 RUSSELL, KANSAS 67665 **15-181-20320-00-00**

SERVICE POINT: Oakley

DATE <u>11-16-02</u>	SEC. <u>18</u>	TWP. <u>9S</u>	RANGE <u>41W</u>	CALLED OUT	ON LOCATION <u>8:00 AM</u>	JOB START <u>10:45 AM</u>	JOB FINISH <u>11:15 AM</u>
LEASE <u>Parish</u>	WELL# <u>1</u>	LOCATION <u>Goodland 6S-12W-2 1/2 N-4W</u>		COUNTY <u>Sherman</u>	STATE <u>Kan</u>		
OLD OR NEW (Circle one)							

ORIGINAL

CONTRACTOR <u>Allen Dely Co #5</u>	OWNER <u>Same</u>
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/4</u>	T.D. <u>375'</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>375'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>22 3/4 BBL</u>	
EQUIPMENT	
PUMP TRUCK CEMENTER <u>Walt</u>	
# <u>102</u> HELPER	
BULK TRUCK	
# <u>212</u> DRIVER <u>Lannie</u>	
BULK TRUCK	
# DRIVER	

CEMENT	AMOUNT ORDERED <u>225 sks com</u>	
	<u>3% cc - 2% lcc</u>	
COMMON <u>225 sks</u>	@ <u>7.85</u>	<u>1,766.25</u>
POZMIX	@ <u>2.00</u>	
GEL <u>4 sks</u>	@ <u>10.00</u>	<u>40.00</u>
CHLORIDE <u>8 sks</u>	@ <u>30.00</u>	<u>240.00</u>
	@	
	@	
	@	
	@	
HANDLING <u>225 sks</u>	@ <u>1.10</u>	<u>247.50</u>
MILEAGE <u>44 per sk mile</u>		<u>630.00</u>
<b>RECEIVED</b>		
<b>KANSAS CORPORATION COMMISSION</b>		
TOTAL		<u>2,923.75</u>

MAY 29 2003

REMARKS: \_\_\_\_\_ SERVICE \_\_\_\_\_

**CONSERVATION DIVISION**

<p>WICHITA, KS</p> <p><u>Cement in Cellar</u></p> <p><u>Walt</u></p>	<p>DEPTH OF JOB</p> <p>PUMP TRUCK CHARGE <u>520.00</u></p> <p>EXTRA FOOTAGE @</p> <p>MILEAGE <u>70 miles</u> @ <u>3.00</u> <u>210.00</u></p> <p>PLUG <u>8 5/8 Surface</u> @ <u>45.00</u></p> <p>@</p> <p>@</p> <p>TOTAL <u>775.00</u></p>
--	---

CHARGE TO: Deep Rock Exploration, Inc  
 STREET 111 W 12th St  
 CITY Goodland STATE Ks ZIP \_\_\_\_\_

FLOAT EQUIPMENT		
<u>8 5/8</u>		
<u>1 - Centralizer</u>	@	<u>55.00</u>
	@	
	@	
	@	
	@	
TOTAL		<u>55.00</u>

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.

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

SIGNATURE C. Covey Agent for Deep Rock Curtis Covey  
 PRINTED NAME \_\_\_\_\_

# ALLIED CEMENTING CO., INC. 12002

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

~~XXXXXXXXXX~~  
**15-181-20320 00-00** SERVICE POINT:

Oakley

DATE <u>11-26-02</u>	SEC. <u>18</u>	TWP. <u>9<sup>s</sup></u>	RANGE <u>41W</u>	CALLED OUT	ON LOCATION <u>11:00 pm</u>	JOB START <u>4:00 AM</u>	JOB FINISH <u>3:00 AM</u>
LEASE <u>Parish</u>	WELL # <u>1</u>	LOCATION <u>Goodland west to RLS</u>			COUNTY <u>Sherman</u>	STATE <u>Kan</u>	
OLD OR <input checked="" type="checkbox"/> NEW (Circle one)				<u>55-14 W</u>			

CONTRACTOR Allan Drg Co. #5 OWNER Same

TYPE OF JOB Production string Bottom stage

HOLE SIZE 7 7/8 T.D. 4840

CASING SIZE 5 1/2 DEPTH 4809

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL D-V Tool DEPTH 2131'

PRES. MAX 1200# MINIMUM

MEAS. LINE SHOE JOINT 4397

CEMENT LEFT IN CSG. 4397

PERFS.

DISPLACEMENT 13.3 BBL

EQUIPMENT

PUMP TRUCK CEMENTER Walt

# 102 HELPER Dean

BULK TRUCK

# 347 DRIVER Jarrod

BULK TRUCK

# 303 DRIVER Andrew

ORIGINAL

RECEIVED  
KANSAS CORPORATION COMMISSION  
MAY 29 2003  
CONSERVATION DIVISION  
WICHITA, KS

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	390 sks	@	9.35
F1-10	92#	@	8.00
			3,646.50
			736.00
HANDLING	390 sks	@	1.10
MILEAGE	44 ps sk/haile		429.00
			1,092.00
TOTAL			<u>5,903.50</u>

**REMARKS:**

Circ Bottom Clean, mixed  
390 sks asc, clear Pump lines  
Displace 95 BBL before up haul Pressure  
Landrod Pipe 2 13 1/2 BBL out @ 1200#  
Released Pressure, Plug held

Walt

**SERVICE**

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>1,264.00</u>
EXTRA FOOTAGE	@	
MILEAGE	70 miles	@ 3.00
PLUG	@	
	@	
	@	
TOTAL		<u>1,474.00</u>

CHARGE TO: Deep Rock Exploration

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**FLOAT EQUIPMENT**

1- Guide Shoe	@	150.00
1- Latch down Plug Assy	@	350.00
9- Centralizers	@ 50.00	450.00
2- Baskets	@ 128.00	256.00
1- D-V Tool	@	330.00
TOTAL		<u>4,506.00</u>

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TAX \_\_\_\_\_

TOTAL CHARGE \_\_\_\_\_

DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS

SIGNATURE C. Covey  
(Agent for DeepRk Expl.)

C. Covey  
PRINTED NAME

# ALLIED CEMENTING CO., INC. 12003

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

~~XXXXXXXXXXXX~~  
**15-18/20320-00-00**

SERVICE POINT:

Oakley

DATE <u>11-26-02</u>	SEC. <u>18</u>	TWP. <u>9<sup>3</sup></u>	RANGE <u>41<sup>W</sup></u>	CALLED OUT	ON LOCATION <u>11:00 PM</u>	JOB START <u>5:20 AM</u>	JOB FINISH <u>6:00 AM</u>
LEASE <u>Parish</u>		WELL # <u>1</u>	LOCATION <u>Goodland W to Rd 8</u>			COUNTY <u>Sherman</u>	STATE <u>Kan</u>
OLD OR NEW (Circle one) <u>NEW</u>		55-1/4"					

CONTRACTOR Allen Dfg Co #5  
 TYPE OF JOB Production string Top Stage  
 HOLE SIZE 7 7/8 T.D. 4810  
 CASING SIZE 5 1/2 DEPTH  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DV Tool DEPTH 2131  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 43.97  
 CEMENT LEFT IN CSG. 43.97  
 PERFS.  
 DISPLACEMENT 50 1/2 BBL  
 EQUIPMENT

OWNER Same  
 CEMENT  
 AMOUNT ORDERED 275 sks Life  
1/4" Flo-Seal  
 COMMON @  
 POZMIX @  
 GEL @  
 CHLORIDE @  
Life 275 sks @ 6.95  
Flo-Seal 69# @ 1.40  
1,911.25  
96.60  
 HANDLING 275 sks @ 1.10  
 MILEAGE 1/4 per sk/mile  
770.00  
 TOTAL 3,080.35

ORIGINAL

RECEIVED  
KANSAS CORPORATION COMMISSION

MAY 29 2003

CONSERVATION DIVISION  
WICHITA, KS

PUMP TRUCK CEMENTER Walt  
 # 102 HELPER Dean  
 BULK TRUCK # 347 DRIVER Jarrod  
 BULK TRUCK # 303 DRIVER Andrew

REMARKS:

SERVICE

Open DV Tool @ 1200# Pumped  
5 BBL ahead, Max 275 sks Life  
1/4" Flo-Seal, Clean Pump Lines,  
release Plug displaced 50 1/2 BBL  
Water @ 150 PSI, hauld Plug @  
1500#, close Tool, release Pressure  
Held. Had no returns

DEPTH OF JOB  
 PUMP TRUCK CHARGE 650.00  
 EXTRA FOOTAGE @  
 MILEAGE 90 miles @ 3.00 270.00  
 PLUG @  
 @  
 @  
 TOTAL 650.00

CHARGE TO: Deep Rock Exploration  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

FLOAT EQUIPMENT

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.

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

SIGNATURE C. Covey  
(Agent for Deep Rock Expl)

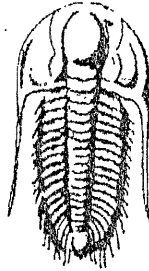
PRINTED NAME C. Covey

15-131-2032 0-00-0.0

RECEIVED  
KANSAS CORPORATION COMMISSION

MAY 29 2003

CONSERVATION DIVISION  
WICHITA, KS



TRILOBITE  
TESTING, INC.

ORIGINAL

### DRILL STEM TEST REPORT

Prepared For: **Deep Rock Exploration**

111 W 12th  
Goodland KS 67735

ATTN: Ross McGuckin

**18-9S-41W Sherman KS**

**Parish #1**

Start Date: 2002.11.19 @ 16:58:36

End Date: 2002.11.19 @ 22:04:36

Job Ticket #: 15167                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Deep Rock Exploration

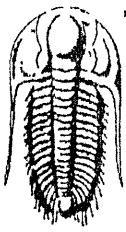
Parish #1

18-9S-41W Sherman KS

DST # 1

Dakota

2002.11.19



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

**ORIGINAL**

Deep Rock Exploration

Parish #1

111 W 12th  
Goodland KS 67735

18-9S-41W Sherman KS

Job Ticket: 15167

DST#: 1

ATTN: Ross McGuckin

Test Start: 2002.11.19 @ 16:58:36

**GENERAL INFORMATION:**

Formation: **Dakota**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:46:21

Time Test Ended: 22:04:36

Test Type: Conventional Bottom Hole

Tester: Rod Steinbrink

Unit No: 22

Interval: 2266.00 (KB) To 2277.00 ft (KB) (TVD)

Total Depth: 2277.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3870.00 ft (KB)

3857.00 ft (CF)

KB to GR/CF: 13.00 ft

Serial #: 3030

Inside

Press@RunDepth: 419.77 psig @ 2267.00 ft (KB)

Capacity: 7000.00 psig

Start Date: 2002.11.19 End Date: 2002.11.19

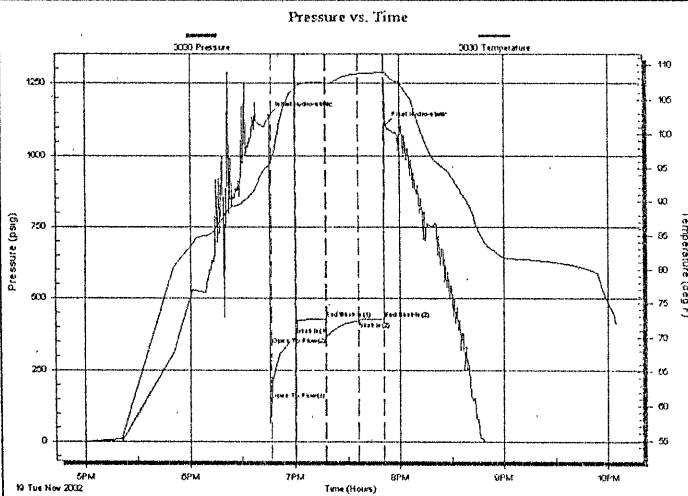
Last Calib.: 1899.12.30

Start Time: 16:58:38 End Time: 22:04:36

Time On Btm: 2002.11.19 @ 18:45:21

Time Off Btm: 2002.11.19 @ 19:51:51

TEST COMMENT: IF; Strong blow off btm in 2 mins  
IS; No return blow  
FF; Strong blow off btm in 2 mins  
FS; No return blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1140.83	95.53	Initial Hydro-static
1	145.02	95.96	Open To Flow (1)
16	367.34	106.80	Shut-In(1)
32	424.05	107.42	End Shut-In(1)
33	363.82	107.41	Open To Flow(2)
51	419.77	108.69	Shut-In(2)
66	423.84	108.92	End Shut-In(2)
67	1107.31	108.89	Final Hydro-static

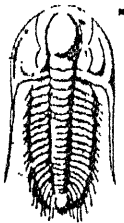
**Recovery**

Length (ft)	Description	Volume (bbl)
150.00	MW 60%w tr 40% mud	0.74
810.00	Wtr	7.65

**Gas Rates**

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

15-181 20320-00-00



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

TOOL DIAGRAM

Deep Rock Exploration

Parish #1

111 W 12th  
Goodland KS 67735

18-9S-41W Sherman KS

Job Ticket: 15167

DST#: 1

ATTN: Ross McGuckin

Test Start: 2002.11.19 @ 16:58:36

**Tool Information**

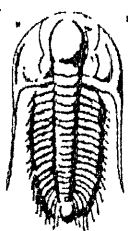
Drill Pipe:	Length: 1716.00 ft	Diameter: 3.80 inches	Volume: 24.07 bbl	Tool Weight: 1800.00 lb
Heavy Wl. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 558.00 ft	Diameter: 2.25 inches	Volume: 2.74 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 26.81 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	2266.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

ORIGINAL

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			2249.00	
Hydraulic tool	5.00			2254.00	
Safety Joint	2.00			2256.00	
Packer	5.00			2261.00	22.00 Bottom Of Top Packer
Packer	5.00			2266.00	
Stubb	1.00			2267.00	
Recorder	0.00	3030	Inside	2267.00	
Perforations	5.00			2272.00	
Recorder	0.00	13371	Outside	2272.00	
Bullnose	5.00			2277.00	11.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				



15-181-20320-00-00



**TRILOBITE  
TESTING, INC**

### DRILL STEM TEST REPORT

FLUID SUMMARY

Deep Rock Exploration

Parish #1

111 W 12th  
Goodland KS 67735

18-9S-41W Sherman KS

Job Ticket: 15167

DST#: 1

ATTN: Ross McGuckin

Test Start: 2002.11.19 @ 16:58:36

#### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

5000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 300.00 ppm

Filter Cake: inches

ORIGINAL

#### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
150.00	MW 60%w tr 40%mud	0.738
810.00	Wtr	7.645

Total Length: 960.00 ft

Total Volume: 8.383 bbl

Num Fluid Samples: 0

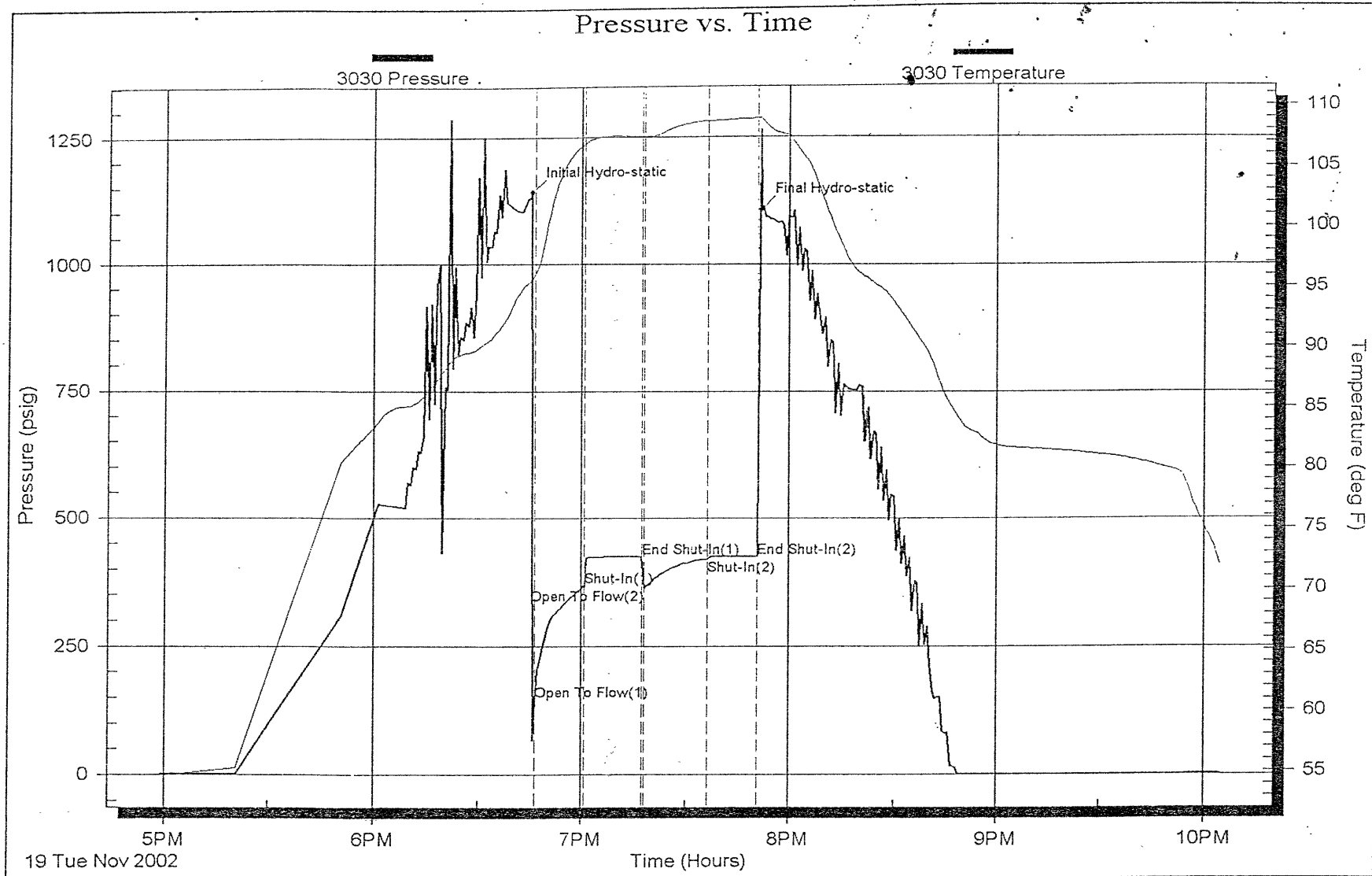
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



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