

**CONFIDENTIAL**

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**

10/15/10

OPERATOR: License # 31652  
Name: Norstar Petroleum Inc.  
Address 1: 6855 S. Havana St., Ste 250  
Address 2: \_\_\_\_\_  
City: Centennial State: CO Zip: 80112 + \_\_\_\_\_  
Contact Person: Clark D. Parrott  
Phone: (303) 925-0696  
CONTRACTOR: License # 33575  
Name: WW Drilling, LLC  
Wellsite Geologist: Tim J. Lauer  
Purchaser: NCRA

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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>8/9/2010</u>	<u>8/17/2010</u>	<u>8/26/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 083-21667-00-00

Spot Description: \_\_\_\_\_

N/2 SE NE NW Sec. 28 Twp. 21 S. R. 23  East  West  
838 Feet from  North /  South Line of Section  
2,306 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE  NW  SE  SW

County: Hodgeman

Lease Name: Norton Well #: 1-28

Field Name: Wildcat

Producing Formation: Cherokee

Elevation: Ground: 2354 ft Kelly Bushing: 2359 ft

Total Depth: 4665' Plug Back Total Depth: 4639'

Amount of Surface Pipe Set and Cemented at: 208 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 1603 Feet

If Alternate II completion, cement circulated from: 1603  
feet depth to: Surf w/ 150 sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: 18200 ppm Fluid volume: 850 bbls

Dewatering method used: Haul

Location of fluid disposal if hauled offsite:

Operator Name: Cheyenne Oil Services, Inc

Lease Name: Gross C License #: 7146

Quarter NW Sec. 1 Twp. 20 S. R. 23  East  West

County: Ness Permit #: na

**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: [Signature]  
Title: President Date: 10/15/10

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: 10/18/10 - 10/18/11 **RECEIVED**
- Confidential Release Date: \_\_\_\_\_ **OCT 25 2010**
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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Operator Name: Norstar Petroleum Inc. Lease Name: Norton Well #: 1-28  
 Sec. 28 Twp. 21 S. R. 23  East  West County: Hodgeman

**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 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	Anhydrite	1585	+774
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3886	-1527
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	3937	-1578
List All E. Logs Run:		Ft. Scott	4471	-2112
<b>DIL, CDL/CNL, MEL</b>		Cherokee Shale	4496	-2137
		Cherokee Sand	4569	-2210
		Mississippian	4586	-2227

CASING RECORD <input type="checkbox"/> New <input checked="" 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 1/4"	8 5/8"	23#	208	Common	150	3% gel, 2% cc
Production	7 7/8"	5 1/2"	15.5#	4662	EA-2	200	flocele

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	1603 prt collar	SMD	150	1/4 #/sk flocele

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	4572'-4582'	750 gal MOD 101 (20% xylene, 10% acetic, 7.5% HCl)	4582

TUBING RECORD:	Size: <u>2 3/8"</u>	Set At: <u>4623</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.	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>34</u>	Gas Mcf	Water Bbls. <u>3</u>	Gas-Oil Ratio <u>34.5</u>

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL <u>4572-4582</u>
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# ALLIED CEMENTING CO., LLC.

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

SERVICE POINT:

Russell KS

DATE <u>8-9-10</u>	SEC. <u>28</u>	TWP. <u>21</u>	RANGE <u>23</u>	CALLED OUT	ON LOCATION	JOB START <u>8:00 pm</u>	JOB FINISH <u>8:30 pm</u>	
<u>Norton</u> LEASE	WELL # <u>1-28</u>		LOCATION <u>Ness City 16 South to Rd 1 East</u>		<u>Hodgeman</u>	COUNTY	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>1 South 1 1/2 East South into</u>					

CONTRACTOR WJW Rig #6

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 207'

CASING SIZE 8 5/8 DEPTH 209'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 12.35 Bbl

EQUIPMENT

OWNER

CEMENT

AMOUNT ORDERED 150 com 3% cc 2% Gel

COMMON <u>150</u>	@	<u>13.50</u>	<u>2025.00</u>
POZMIX	@		
GEL <u>3</u>	@	<u>20.25</u>	<u>60.75</u>
CHLORIDE <u>5</u>	@	<u>51.50</u>	<u>257.50</u>
ASC	@		
	@		
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING <u>150</u>	@	<u>2.25</u>	<u>337.50</u>
MILEAGE <u>110/16/mile</u>			<u>300.00</u>
TOTAL			<u>2980.75</u>

REMARKS:

Est. Circulation

Mix 150 sk cement

Displace w/ 12 1/4 Bbl

Cement Did Circulate!

Thank You!

CHARGE TO: Norstar Petroleum

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB \_\_\_\_\_

PUMP TRUCK CHARGE \_\_\_\_\_ 990.00

EXTRA FOOTAGE @ \_\_\_\_\_

MILEAGE 16 @ 7.00 112.00

MANIFOLD @ \_\_\_\_\_

TOTAL 1103.00

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.

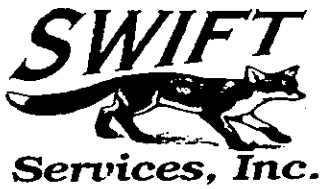
PRINTED NAME Mark Bigge

SIGNATURE Mark Bigge

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES \_\_\_\_\_

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



CHARGE TO: Norstar  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
 18789  
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SERVICE LOCATIONS  
 1. Ness City, KS WELL/PROJECT NO. 1-28 LEASE NORTON COUNTY/PARISH Hodgeman STATE KS CITY Jetmore DATE 16 AUG 10 OWNER  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR WV RIG NAME/NO. SHIPPED VIA CT DELIVERED TO LOCATION ORDER NO.  
 3. WELL TYPE oil WELL CATEGORY Development JOB PURPOSE cement long string WELL PERMIT NO. WELL LOCATION 24 215 R23 HIG  
 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 TRK 114	25	mi			5.00	125.00
578		1			Pump Charge - Long String	1	ea			1400.00	1400.00
407		7			insert float shoe w/ Auto Fill	5 1/2	in	1	ea	275.00	275.00
406		1			latchdown Plug & Baffle	5 1/2	in	1	ea	225.00	225.00
402		1			Centralizers	5 1/2	in	10	ea	55.00	550.00
413		1			Rotwall scratchers	5 1/2	in	20	ea	40.00	800.00
403		1			Cement Basket	5 1/2	in	2	ea	200.00	400.00
419		1			Rotating head rental	5 1/2	in	1	ea	150.00	150.00

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**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 \_\_\_\_\_ TIME SIGNED \_\_\_\_\_  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	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?				1	3925.00
WE UNDERSTOOD AND MET YOUR NEEDS?				2	4735.88
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				subtotal	2650.88
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				Hodgeman TAX 7.45%	489.09
ARE YOU SATISFIED WITH OUR SERVICE? <input type="checkbox"/> YES <input type="checkbox"/> NO				TOTAL	9149.97
<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!



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 18789

CUSTOMER **NORSTAR** WELL **NORTON 1-28** DATE **16 AUG 10** PAGE **2** OF **2**

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY.		QTY.		UNIT PRICE	AMOUNT
		LOG	ACCT	DF			U/M	U/M				
325		1				STD cement (EA-2)	200	SKS			12 00	2400 00
284		1				calseal	4	SKS			30 00	120 00
283		1				SALT	1000	LBS			0 15	150 00
285		1				CFR-1	100	LBS			4 00	400 00
276		1				Fluocel	50	LBS			1 50	75 00
277		1				Gilsonite	1000	LBS			0 40	400 00
290		1				D-AIR	2	gal			35 00	70 00
281		1				MWD FLUSH	<del>500</del>	gal	500		1 00	500 00
221		1				KCL liquid	2	gal			25 00	50 00
581						SERVICE CHARGE	200	SKS			1 50	300 00
583						MESSAGE CHARGE		TOTAL WEIGHT	LOADED MILES	TON MILES	1 00	270 88
							21670	25		270.88		

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CONTINUATION TOTAL 4735.88

**JOB LOG**

**SWIFT Services, Inc.**

DATE 10/25/10 PAGE NO. 1

CUSTOMER NORSTAR WELL NO. 1-28 LEASE NORTON JOB TYPE Cement Logging TICKET NO.

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								200 sks EA-2 w/ Gilsomite TD = 4667 POET COLLAR = 1603 centralizers 1, 3, 5, 7, 9, 11, 13, 15, 74, 76 baskets 15, 74 particular 74
	0900							commence on loc
	1100							TRK 114 on loc
	0010							start running pipe 15.5" 5 1/2"
	0040							hook up to circulate - 76 joints in
	0105							start pipe in hole again
	0155							Drop ball - pipe in hole
	0210							hook up <del>to</del> mud pump to circulate ROTATING PIPE
	0255							stop circulation - pump flushes
								Cement rot hole <del>30 sks</del> <del>max</del>
	0310	4 1/2				300		start cement (EA-2) ROTATING PIPE - <del>4200</del> <del>AT 006</del>
		4 1/2	42			300		stop cement, pumped 42 bbl 170 sks wash out pump & line
	0330	6 3/4				300		Drop plug - start displacement ROTATING PIPE (KICKED OUT 100 bbl)
	0346	6 3/4	111			900		And plug 111 bbls 1600 psi
								Release pressure - float held
								RECEIVED OCT 25 2010
								WASH TRUCK
	0415							job complete KCC WICHITA Mudman, Blair, Dan & John Wayne Blair

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CHARGE TO: NORSTAR PETROLEUM  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

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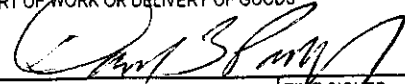
TICKET  
PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Ness City, Ks</u>	WELL/PROJECT NO. <u>1-28</u>	LEASE <u>NORTON</u>	COUNTY/PARISH <u>HODGEMAN</u>	STATE <u>Ks</u>	CITY	DATE <u>9-28-10</u>	OWNER <u>SAME</u>
2.	TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>CHEYWE Well SERVICE</u>	RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>LOCATION</u>	ORDER NO.	
3.	WELL TYPE <u>OIL</u>	WELL CATEGORY <u>DEVELOPMENT</u>	JOB PURPOSE <u>CONSTR. PORT COLLAR</u>	WELL PERMIT NO.	WELL LOCATION <u>Ness City, Ks - S/KOLW 2S, 3E, 1S</u>		
4.	REFERRAL LOCATION	INVOICE INSTRUCTIONS <u>1/4 W, S2W</u>					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575	KCC OCT 18 2010 CONFIDENTIAL	1			MILEAGE # 114	20		ME		5.00	100.00
576D		1			PUMP CHARGE	1		JOB		1100.00	1100.00
239		1			HYFLO	2		Gal		25.00	50.00
330		1			SWIFT MULTI-DISSET STANDARD	150		SYS		15.00	2250.00
276		1			FLOCELE	50		URS		1.50	75.00
290		1			D-ADR	2		Gal		35.00	70.00
581		1			SERVICE CHARGE CONJNT	200		SYS		1.50	300.00
582		1			DRAINAGE - MENDMUM	19970	199.7	URS	TM	250.00	250.00

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

X: 

DATE SIGNED: 9-28-10 TIME SIGNED: 1300

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	
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					4195.00
WE UNDERSTOOD AND MET YOUR NEEDS?					
OUR SERVICE WAS PERFORMED WITHOUT DELAY?					
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?					
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO				
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND				TOTAL	4373.4

Hodgeman  
TAX 7.45%

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

SWIFT OPERATOR: \_\_\_\_\_ APPROVAL: \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 9-28-10 PAGE NO. 1

CUSTOMER **NOOSTAR PETROLEUM** WELL NO. **1-28** LEASE **NORTON** JOB TYPE **TOOLS - Cement Port Collar** TICKET NO. **18747-18748**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1115							ON LOCATION
								2 3/8 x 5 1/2 RBP = 3614' 112 JTS W/ 31 out
								PERFS = 4572 - 82
								TOC = 3410
								PORT COLLAR = 1603'
	1145							START 5 1/2" TSU RBP - PORT COLLAR OPENING TOOL
	1345	4	90	✓		600		CIRCULATE WELL CLEAN (10 BBL OZZ)
	1415				✓		1000	PSI TEST RBP - HELD
	1425		10	✓				SPOT SAND 1 SK
	1435							PULL TUBING TO PORT COLLAR
	1545	3	60	✓		400		OPEN PORT COLLAR - 2WJ RATE (MUD)
	1630	3 1/2	83	✓		400		MAX CEMENT 150 SKS SMA 1/4 #/SK FLOCC
	1650	3 1/2	5 1/2	✓		550		DISPLACE CEMENT
	1655			✓		1000		CLOSE PORT COLLAR - PSI TEST - HELD
	1710	3 1/2	25		✓		400	RUN 5 JTS - CIRCULATE CLEAN
								CIRCULATED 15 SKS CEMENT TO PET
								WASH TRUCK
	1815	3	25		✓		500	RUN TUBING - CIRCULATE SAND OFF RBP
	1830	3	83		✓		700	CIRCULATE WELL FULL OZZ
								RELEASE RBP - PULL 10 JTS
								CLEAN TRUCK
	1930							JOB COMPLETE

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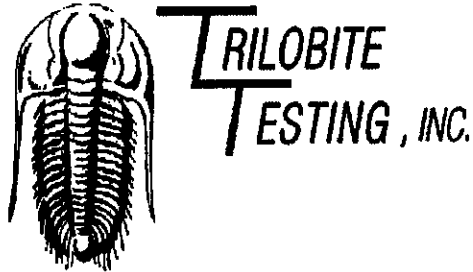
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THANK YOU  
WAYNE, DAVE K., JOE

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## DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum inc**

6855 S. Havana St.  
Suite 250  
Centennial, CO. 80112

ATTN: Tim Lauer

**28-21-23 Hodgeman,KS**

**Norton 1-28**

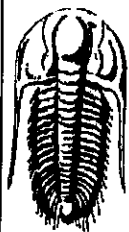
Start Date: 2010.08.14 @ 23:28:05

End Date: 2010.08.15 @ 07:59:20

Job Ticket #: 039982      DST #: 1

Trilobite Testing, Inc  
PO Box 1733 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

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**TRILOBITE TESTING, INC**

## DRILL STEM TEST REPORT

Norstar Petroleum inc

6855 S. Havana St.  
Suite 250  
Centennial, CO. 80112  
ATTN: Tim Lauer

**Norton 1-28**

**28-21-23 Hodgeman, KS**

Job Ticket: 039982

**DST#: 1**

Test Start: 2010.08.14 @ 23:28:05

### GENERAL INFORMATION:

Formation: **Cherokee sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 01:44:40  
 Time Test Ended: 07:59:20  
 Interval: **4510.00 ft (KB) To 4581.00 ft (KB) (TVD)**  
 Total Depth: 4581.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Andy Carreira  
 Unit No: 31  
 Reference Elevations: 2359.00 ft (KB)  
 2354.00 ft (CF)  
 KB to GR/CF: 5.00 ft

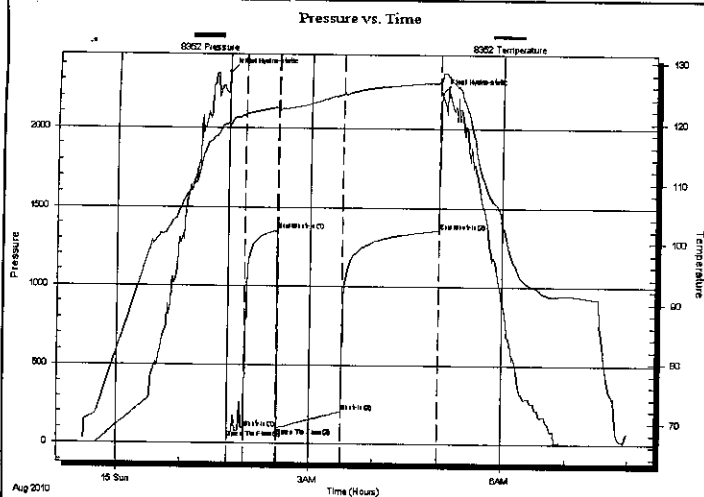
### Serial #: 8352

Outside

Press@RunDepth: 203.87 psig @ 4515.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2010.08.14 End Date: 2010.08.15 Last Calib.: 2010.08.15  
 Start Time: 23:28:05 End Time: 07:59:20 Time On Btm: 2010.08.15 @ 01:44:10  
 Time Off Btm: 2010.08.15 @ 05:01:40

TEST COMMENT: IF: Fair, building to 8 inches  
 IS: No return  
 FF: BOB, 23 min  
 FS: No return

### PRESSURE SUMMARY



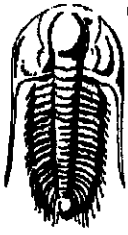
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2346.28	120.07	Initial Hydro-static
1	31.87	119.27	Open To Flow (1)
16	93.98	121.23	Shut-In(1)
46	1350.92	122.53	End Shut-In(1)
47	101.36	122.22	Open To Flow (2)
106	203.87	124.73	Shut-In(2)
197	1353.81	126.76	End Shut-In(2)
198	2221.92	127.80	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
124.00	GOCM g=10% o=40% m=50%	0.63
124.00	MGO m=10% g=10% o=80%	1.74
227.00	GO g=10% o=90%	3.18
0.00	745=GIP	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Norstar Petroleum inc  
6855 S. Havana St.  
Suite 250  
Centennial, CO. 80112  
ATTN: Tim Lauer

**Norton 1-28**  
**28-21-23 Hodgeman, KS**  
Job Ticket: 039982      **DST#: 1**  
Test Start: 2010.08.14 @ 23:28:05

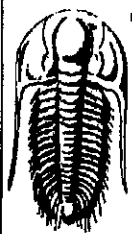
### Tool Information

Drill Pipe:	Length: 4509.00 ft	Diameter: 3.80 inches	Volume: 63.25 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 55000.00 lb
			<u>Total Volume: 63.85 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	144.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4510.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4488.00	
Shut In Tool	5.00			4493.00	
Hydraulic tool	5.00			4498.00	
Safety Joint	3.00			4501.00	
Packer	5.00			4506.00	23.00      Bottom Of Top Packer
Packer	4.00			4510.00	
Stubb	1.00			4511.00	
Perforations	3.00			4514.00	
Change Over Sub	1.00			4515.00	
Recorder	0.00	8017	Inside	4515.00	
Recorder	0.00	8352	Outside	4515.00	
Drill Pipe	59.00			4574.00	
Change Over Sub	1.00			4575.00	
Perforations	3.00			4578.00	
Bullnose	3.00			4581.00	71.00      Bottom Packers & Anchor

**Total Tool Length: 94.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Norstar Petroleum inc  
6855 S. Havana St.  
Suite 250  
Centennial, CO. 80112  
ATTN: Tim Lauer

**Norton 1-28**  
**28-21-23 Hodgeman, KS**  
Job Ticket: 039982      **DST#: 1**  
Test Start: 2010.08.14 @ 23:28:05

### Mud and Cushion Information

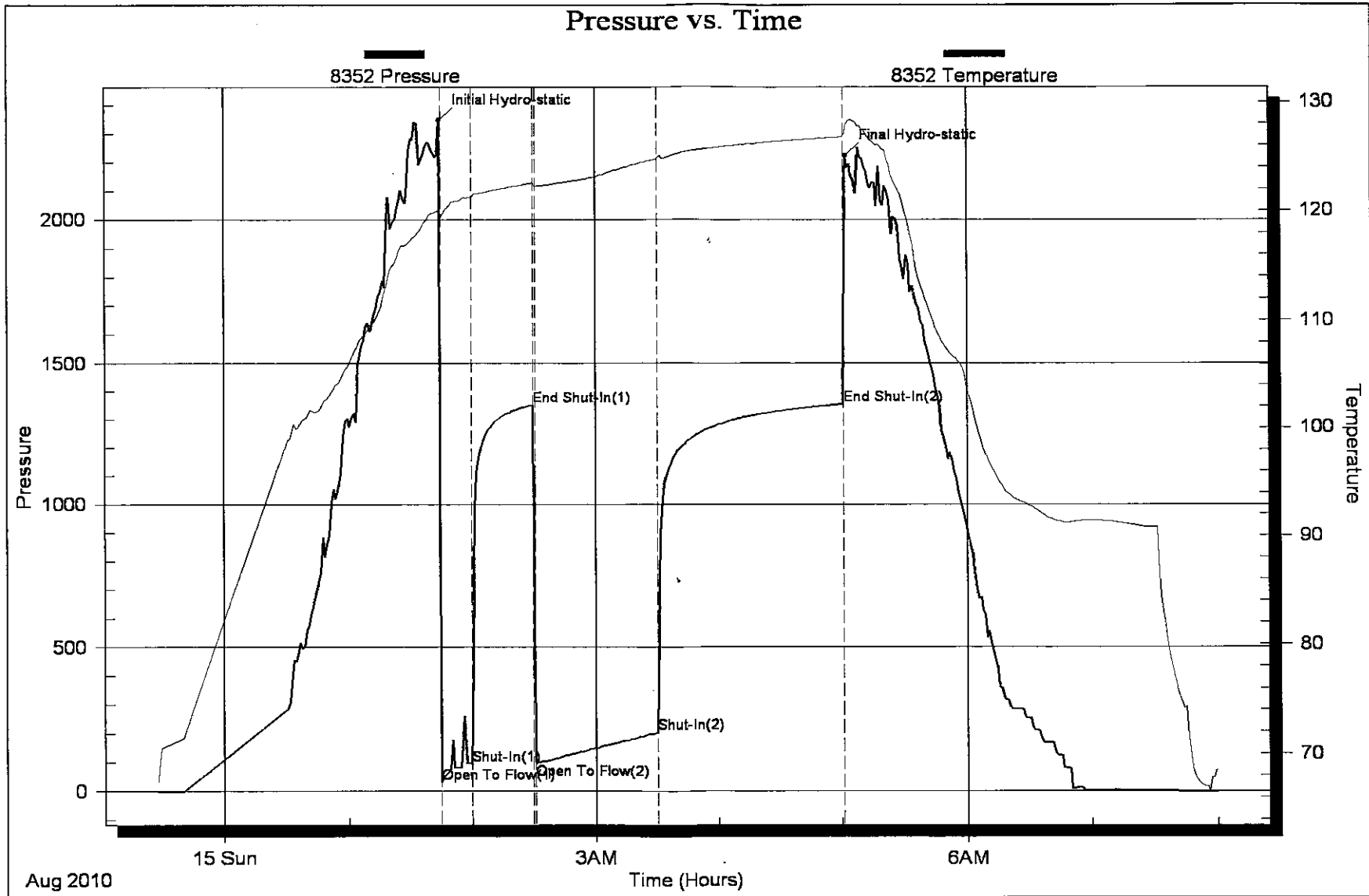
Mud Type: Gel Chem	Cushion Type:	Oil API:	33 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

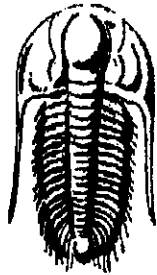
### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GOCM g=10% o=40% m=50%	0.628
124.00	MGO m=10% g=10% o=80%	1.739
227.00	GO g=10% o=90%	3.184
0.00	745=GIP	0.000

Total Length: 475.00 ft      Total Volume: 5.551 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:





**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum inc**

6855 S. Havana St.  
Suite 250  
Centennial, CO. 80112

ATTN: Tim Lauer

**28-21-23 Hodgeman,KS**

**Norton 1-28**

Start Date: 2010.08.15 @ 02:47:05

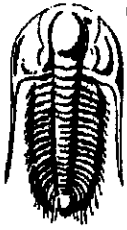
End Date: 2010.08.15 @ 12:04:20

Job Ticket #: 039983                      DST #: 2

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Norstar Petroleum inc  
6855 S. Havana St.  
Suite 250  
Centennial, CO. 80112  
ATTN: Tim Lauer

**Norton 1-28**

**28-21-23 Hodgeman, KS**

Job Ticket: 039983 **DST#: 2**

Test Start: 2010.08.15 @ 02:47:05

### GENERAL INFORMATION:

Formation: **Cherokee sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 04:58:20  
 Time Test Ended: 12:04:20  
 Interval: **4510.00 ft (KB) To 4586.00 ft (KB) (TVD)**  
 Total Depth: **4581.00 ft (KB) (TVD)**  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Andy Carreira  
 Unit No: 31  
 Reference Elevations: 2359.00 ft (KB)  
 2354.00 ft (CF)  
 KB to GR/CF: 5.00 ft

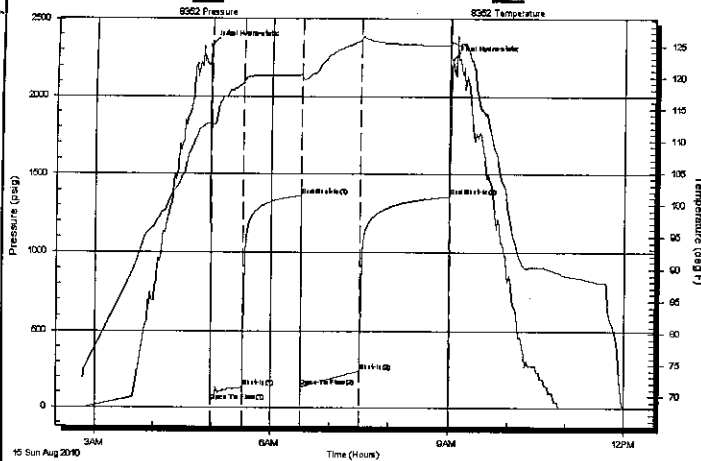
### Serial #: 8352

Outside

Press@RunDepth: 240.81 psig @ 4515.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2010.08.15 End Date: 2010.08.15 Last Calib.: 2010.08.15  
 Start Time: 02:47:05 End Time: 12:04:20 Time On Btm: 2010.08.15 @ 04:57:40  
 Time Off Btm: 2010.08.15 @ 09:03:39

TEST COMMENT: IF: BOB, 23 min.  
 IS: No return  
 FF: BOB, 19 min  
 FS: No return

Pressure vs. Time



### PRESSURE SUMMARY

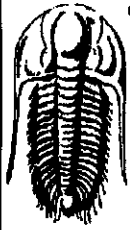
Time (Min.)	Pressure (psig)	* Temp (deg F)	Annotation
0	2332.24	112.79	Initial Hydro-static
1	41.66	111.82	Open To Flow (1)
34	133.21	119.10	Shut-In(1)
92	1362.33	120.33	End Shut-In(1)
93	136.23	119.92	Open To Flow (2)
153	240.81	125.78	Shut-In(2)
244	1357.33	125.12	End Shut-In(2)
246	2237.67	125.54	Final Hydro-static

### Recovery

Length (ft)	Description	Volume (bbl)
186.00	OCGM g=10% o=20% m=70%	1.50
186.00	MCGO g=10% m=20% o=70%	2.61
206.00	GO g=10% o=90%	2.89
0.00	GIP=248ft	0.00

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Norstar Petroleum inc  
6855 S. Havana St.  
Suite 250  
Centennial, CO. 80112  
ATTN: Tim Lauer

**Norton 1-28**  
**28-21-23 Hodgeman, KS**  
Job Ticket: 039983      **DST#: 2**  
Test Start: 2010.08.15 @ 02:47:05

**Tool Information**

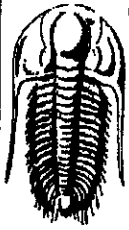
Drill Pipe:	Length: 4382.00 ft	Diameter: 3.80 inches	Volume: 61.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 122.00 ft	Diameter: 2.25 inches	Volume: 0.60 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 62.07 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4510.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	76.00 ft			
Tool Length:	99.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4488.00	
Shut In Tool	5.00			4493.00	
Hydraulic tool	5.00			4498.00	
Safety Joint	3.00			4501.00	
Packer	5.00			4506.00	23.00      Bottom Of Top Packer
Packer	4.00			4510.00	
Stubb	1.00			4511.00	
Perforations	3.00			4514.00	
Change Over Sub	1.00			4515.00	
Recorder	0.00	8017	Inside	4515.00	
Recorder	0.00	8352	Outside	4515.00	
Drill Pipe	59.00			4574.00	
Change Over Sub	1.00			4575.00	
Perforations	8.00			4583.00	
Bullnose	3.00			4586.00	76.00      Bottom Packers & Anchor

**Total Tool Length: 99.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Norstar Petroleum inc  
6855 S. Havana St.  
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Centennial, CO. 80112  
ATTN: Tim Lauer

**Norton 1-28**  
**28-21-23 Hodgeman, KS**  
Job Ticket: 039983      **DST#: 2**  
Test Start: 2010.08.15 @ 02:47:05

### 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:	ppm
Viscosity: 46.00 sec/qt	Cushion Volume: bbl		
Water Loss: 13.57 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5600.00 ppm			
Filter Cake: inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	OCGM g=10% o=20% m=70%	1.498
186.00	MCGO g=10% m=20% o=70%	2.609
206.00	GO g=10% o=90%	2.890
0.00	GIP=248ft	0.000

Total Length: 578.00 ft      Total Volume: 6.997 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

