



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1107005  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ 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: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ 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: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1107005

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input 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 type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input 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

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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*  
 Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*  
 Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR: \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Norstar Petroleum, Inc.
Well Name	Epard Farms 1-24
Doc ID	1107005

Tops

Name	Top	Datum
Anhydrite	2674	+503
Topeka	3902	-725
Heebner	4059	-882
Toronto	4089	-912
Lansing	4103	-926
Stark Shale	4328	-1151
Pawnee	4519	-1342
Ft. Scott	4548	-1371
Cherokee Shale	4568	-1391
Johnson	4644	-1467
Mississippi	4718	-1541

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

January 07, 2013

Brady Pfeiffer  
Norstar Petroleum, Inc.  
88 INVERNESS CIR E. Unit F104  
ENGLEWOOD, CO 80112

Re: ACO1  
API 15-193-20869-00-00  
Epard Farms 1-24  
SW/4 Sec.24-10S-34W  
Thomas County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,  
Brady Pfeiffer



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Norstar  
 88 Inverness Cir E Unit f104  
 Englewood, CO 80112  
 ATTN: Bob Elder

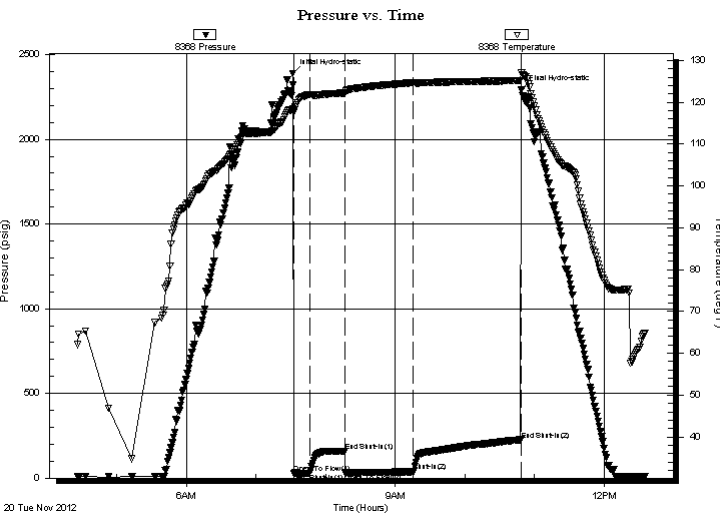
**24-10s-34w Thomas, Ks**  
**Epard Farms # 1-24**  
 Job Ticket: 49887      **DST#: 1**  
 Test Start: 2012.11.20 @ 04:26:11

## GENERAL INFORMATION:

Formation: **Johnson**  
 Deviated: No Whipstock: 0.00 ft (KB)  
 Time Tool Opened: 07:32:11  
 Time Test Ended: 12:55:56  
 Interval: **4622.00 ft (KB) To 4675.00 ft (KB) (TVD)**  
 Total Depth: 4675.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3177.00 ft (KB)  
 3169.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8368      Outside**  
 Press @ Run Depth: 37.82 psig @ 4623.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.11.20      End Date: 2012.11.20      Last Calib.: 2012.11.20  
 Start Time: 04:26:11      End Time: 12:34:56      Time On Btm: 2012.11.20 @ 07:31:26  
 Time Off Btm: 2012.11.20 @ 10:48:41

**TEST COMMENT:** B.O.B. in 10 min.  
 3 1/2" in return  
 B.O.B. in 1 min  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2389.82	118.31	Initial Hydro-static
1	26.70	117.62	Open To Flow (1)
15	27.68	121.84	Shut-In(1)
45	159.43	122.20	End Shut-In(1)
46	31.22	122.29	Open To Flow (2)
104	37.82	124.67	Shut-In(2)
197	226.46	125.22	End Shut-In(2)
198	2295.20	127.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
45.00	s o & w c m 2%o 23%w 75%m trace of	0.63
0.00	615' very weak gas in pipe	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Norstar  
88 Inverness Cir E Unit f104  
Englewood, CO 80112  
ATTN: Bob Elder

**24-10s-34w Thomas, Ks**  
**Epard Farms # 1-24**  
Job Ticket: 49887      **DST#: 1**  
Test Start: 2012.11.20 @ 04:26:11

## Mud and Cushion Information

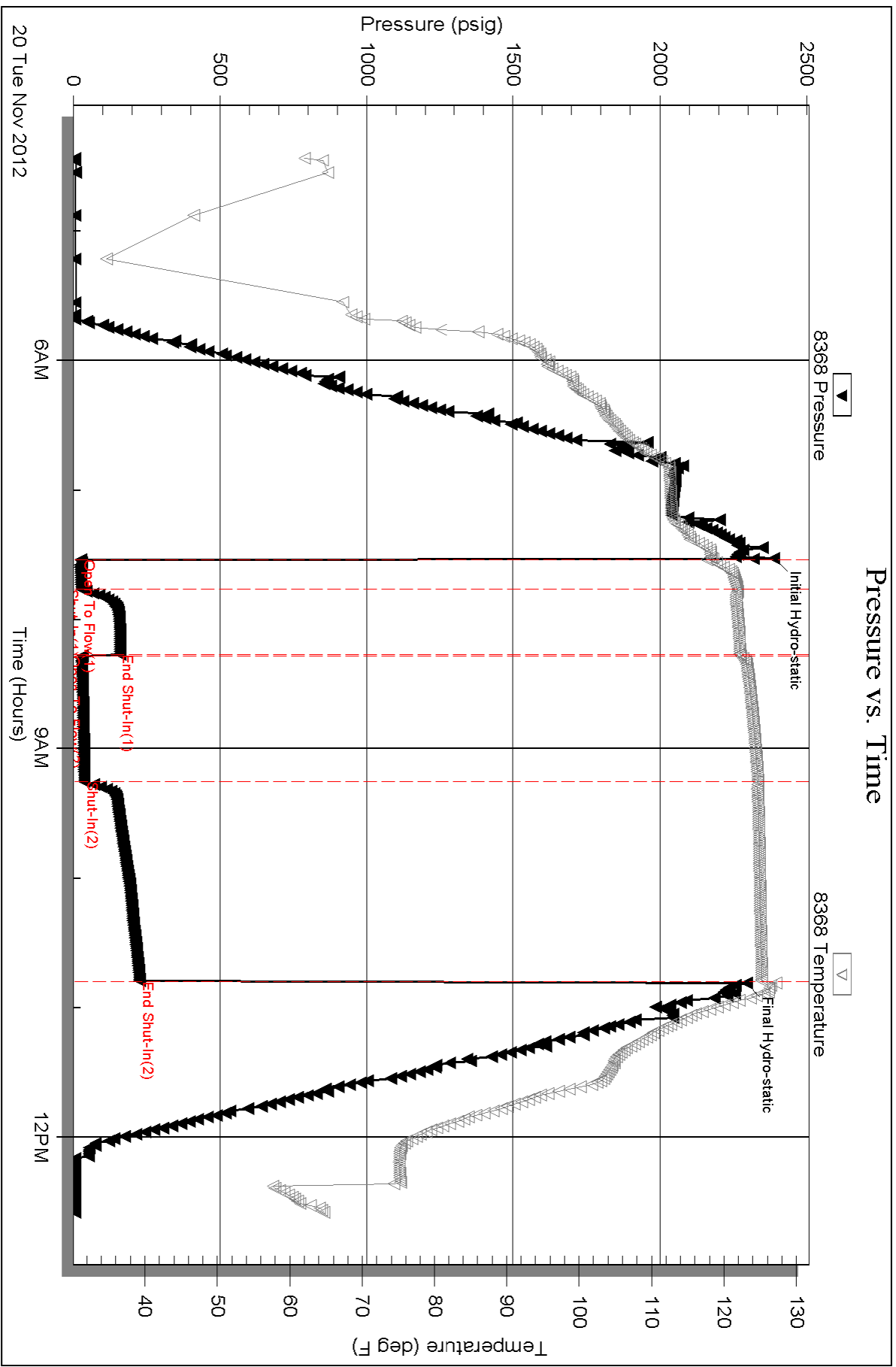
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 37500 ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 5000.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
45.00	s o & w c m 2%o 23%w 75% m trace of oil	0.631
0.00	615' very weak gas in pipe	0.000

Total Length: 45.00 ft      Total Volume: 0.631 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: rw .268 @ 50'f = 37,500 chlor





**CONSOLIDATED**  
Oil Well Services, LLC

TICKET NUMBER 39113

LOCATION Oakley, Ks

FOREMAN Walt Dunkel

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

**FIELD TICKET & TREATMENT REPORT**

**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-14-12	5734	Epard Farms #1-24	24	10S	34W	Thomas
CUSTOMER <u>Norstar Petroleum, Inc</u>			Monuments			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			2W	399	Damon Miller	
STATE			5N	460	Jordan Loudon	
ZIP CODE			1W			
			1/2S			

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 308' CASING SIZE & WEIGHT 8 5/8  
 CASING DEPTH 307' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 1512 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 15'-20'  
 DISPLACEMENT 18 1/4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 5 BPM

REMARKS: Safety Meeting, rig up on Maverick 108, Circ casing on bottom, mix 225 sks com, 3%cc-2%Gel, Displace 18 1/4 BBL H2O shut in, Cement Down 21', ran 30' 1", mixed 25 sks com 3%cc-2%Gel Cure to Surface

*Thank You  
Walt + crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1085.00	1085.00
5406	15	MILEAGE	5.00	75.00
11045	2.50 - SKs	class A Cement	17.65	4412.50
1102	705 #	Calcium Chloride	.89	627.45
1118B	470 #	Gel	.25	117.50
5407	11.75	Tan Mileage Delivery	169	410.00
				6727.45
		Loss 10% Disc	-	672.75
				6054.70
			SALES TAX	338.84
			ESTIMATED TOTAL	6393.54

Ravin 3737

AUTHORIZATION

TITLE Toolpusher

DATE 11-14-2012

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

254557



JOB LOG

SWIFT Services, Inc.

DATE: 11-21-12 PAGE NO. 1

CUSTOMER: Norstar Petroleum WELL NO.: 1-24 LEASE: Epard Farms JOB TYPE: Cement Longstring TICKET NO.: 22941

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730					105 #/ft	4 1/2	DN Loc - FE - Rig LDDP
	2015							Start Casing - to 4770 - TD 4779'
								Insert float shoe w/ fill-up
								L.D. Bottle - 55-21' - 4748' = (75 1/2 BBL)
								Cont - 1-3-5-7-9-11-13-15 Bott, Fin end #52
								Cont - 51-53- Fin Collar #52 @ 2694'
								Drop fill up ball - 5 sets out.
	2215							Tag - bottom - Fin casing - Lay st. Down
	2225							St. CIR / Btake
	2305							Fin CIR
	2310		25					Plug Rit - 30 SKS MFT 20 SKS.
		6				400		Pump 500 gal Mand flush
		6				400		Pump 20 BBL HCL flush
		4 1/2				300		Start 175 SKS FHT-2 @ 15.5 gal
		4	43			400		Fin cont - Washout Pump & Lines
		9				400		Drop L.D. Plug - Start Displ
		8	55			500		Lift press -
	1145	6	73 75 1/2			800		Plug down - Hold - Release & Hold
								Wash up & Reel up
	1215							Job Complete

*[Signature]*  
 Dan, Brian & Jeremy

JOB LOG

SWIFT Services, Inc.

DATE 1-26-12 PAGE NO.

CUSTOMER Nor Star Pet. WELL NO. 1-24 LEASE Epard Farms JOB TYPE Cement Port Collar TICKET NO. 22956

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1330							on location PL @ 2684
	1420	3	48		✓		520	load hole
	1430				✓		1000	Pressure test
	1435				✓			Open Port Collar
	1440	3			✓		400	Injection Rate
	1445		30	✓		600		Start MUD
	1510							Start Cement 400 SKS
	1600							Circulate Cement 25 SKS TO PIT
			9	✓				Displace
	1615						1000	Close Port Collar
	1620							Run 1/4 joints
		3			✓		520	Reverse Out Clean
								Run Down to wash sand off Plug
								wash up truck
	1705	3	38	✓			600	Circulate Sand off Plug
	1800							Job Complete Thank You Josh, Jon, Jeremy
								Mixed 400 SKS SMD 1/4" Accele circulated <u>25</u> SKS TO PIT