

HYDROSTATIC TEST

Date: OCT 02, 2014

Job Number: MISC. CONDY OUTLET SPOOL ADDITION

LSD: 06-18-066-04 W6M

Description of Product: TEST PACKAGE # 01 300# ANSI PIPING

FABCOR SPOOL CONTROL NUMBERS: 01

4"300# CONDY OUTLET SPOOL

Tests Conducted By: DWAYNE BRAKE

Test Pressure: 1110 TO 1140 PSI

Test Temperature: 0 TO 1°C

DESIGN PRESS. 5,110 KPA x 1.5 FACTOR = 7,556 KPA (1110 PSIG)

TEST PRESSURE MINIMUM: 1110 PSIG

TEST PRESSURE MAXIMUM: 1160 PSIG

Test Medium: WATER

Holding Time at Test Pressure: ONE HOUR HOLD ON TEST CHART

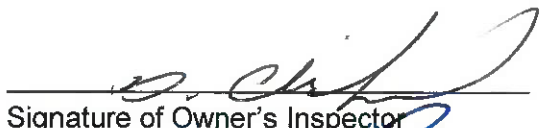
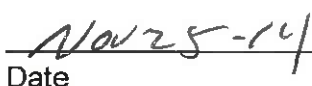
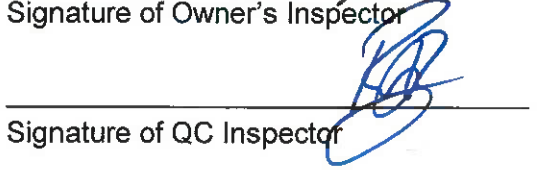
Results: PASS

Owner's Inspector Witnessing Test: DUNCAN CHISHOLM

Gauge Number: N/A

Dead Weight Number: DDW-1012(ARK) S/N: 151195

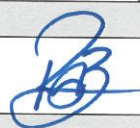
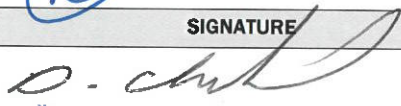
Chart Recorder Number: CR-3000-21(ARK) S/N: TCI-2292


Signature of Owner's Inspector
Date
Signature of QC Inspector
Date



FABCOR
QA/ QC FORMS
DEAD WEIGHT TEST REPORT

Form: QC-TST-FRM-008
Version #: V0.01
V# Date: 2013-06-26
Page: 1 of 1

FABCOR JOB NUMBER: MISC.		PROJECT: CONDY OUTLET SPOOL ADDITION		DATE (MM/DD/YY): OCT 02, 2014	
OWNER: PARAMOUNT RESOURCES		OWNER JOB NUMBER: N/A		LOCATION: 06-18-066-04 W6M	
TIME	DEAD WEIGHT	TEMPERATURE FLUID	TEMPERATURE AMBIENT	REMARKS	
TEST PACKAGE: TP-01 FABCOR SPOOL CONTROL NUMBERS: 01 4"300# CONDY OUTLET SPOOL					
9:25AM	0 PSI	NOT RECORDED	0°C	FLAT LINE	
9:30	355	NOT RECORDED	0°C	1 ST BUMP UP / LEAK CHECK	
9:35	795	NOT RECORDED	0°C	2 ND BUMP UP / LEAK CHECK	
9:37	1085	NOT RECORDED	0°C	3 RD BUMP UP / LEAK CHECK	
9:40	1110	NOT RECORDED	0°C	TEST START	
9:45	1118	NOT RECORDED	0°C	LEAK CHECK	
9:50	1120	NOT RECORDED	0°C	LEAK CHECK	
9:55	1125	NOT RECORDED	0°C	LEAK CHECK	
10:00AM	1130	NOT RECORDED	0°C	LEAK CHECK	
10:10	1135	NOT RECORDED	1°C	LEAK CHECK	
10:15	1140	NOT RECORDED	1°C	LEAK CHECK	
10:20	1140	NOT RECORDED	1°C	LEAK CHECK	
10:30	1140	NOT RECORDED	1°C	LEAK CHECK	
10:43	1140	NOT RECORDED	1°C	TEST END	
10:48	905	NOT RECORDED	1°C	1 ST BUMP DOWN / LEAK CHECK	
11:05	480	NOT RECORDED	1°C	2 ND BUMP DOWN / LEAK CHECK	
11:25	0 PSI	NOT RECORDED	1°C	FLAT LINE	
FABCOR QUALITY REPRESENTATIVE			DATE (mm/dd/yy)	SIGNATURE	
PRINT/ TYPE NAME: ROBERT BODNAR			OCT 02, 2014		
TITLE: QC ADVISOR					
OWNER / OWNER'S REPRESENTATIVE			DATE (mm/dd/yy)	SIGNATURE	
PRINT/ TYPE NAME: DUNCAN CHISHOLM			OCT 02, 2014		
TITLE: PARAMOUNT RESOURCES REPRESENTATIVE					

Certificate of Calibration

Reproduction of Arkane-Cal Report 19276

ARKANE WORKS

Manufacturer	Model	Company / Unit	Gauge Number	Serial Number	Calibration Date	Expiration Date
Barton	BARTON 3000	ARKANE WORKS	CR-3000-21 (ARK)	TCI-2292	9/18/2014	9/18/2015

All instrument calibrations are verified for accuracy before they are shipped. The recommended calibration interval for this instrument is 12 months from the date of verification.

As Received Condition: In tolerance

As Left Condition: In tolerance

All calibrations are performed in a controlled environment by qualified personnel using instrumentation and methods which guarantee that specifications claimed are reliable. Calibrations conform to ANSI/NCSL Z540-1:1994, MIL-STD 45662A, 10CFR21 and 10CFR50 when specified by customer documentation. Laboratory ambient conditions throughout this calibration were:

Temperature 20 to 24° C
Humidity 30 to 55% RH
Pressure 100 to 103 kPa

Reference Standards used in this calibration are traceable to the National Institute of Standards and Technology through the following report numbers:

Manufacturer	Model	Serial Number	Report Number	Due Date	Reference Uncertainty
Crystal Engineering	10KPSIXP21	468428	196421	5-Jun-15	0.20% of FS; +/- 0.02% FS 20%-100% of FS; +/- 0.1% reading

This certificate shall not be reproduced except in full, without written approval.

As Received Test Results

3000 PSI

Reference Reading	Gauge Reading	Condition	Difference	Difference (% of Reading)	Allowable Tolerance
0	0	Pass	0		60
600	600	Pass	0	0.00%	60
1199	1200	Pass	1	0.08%	30
1799	1800	Pass	1	0.06%	30
2400	2400	Pass	0	0.00%	60
3017	3000	Pass	-17	-0.57%	60
0	0	Pass	0		60

As Left Test Results

3000 PSI

Reference Reading	Gauge Reading	Condition	Difference	Difference (% of Reading)	Allowable Tolerance
0	0	Pass	0		60
600	600	Pass	0	0.00%	60
1199	1200	Pass	1	0.08%	30
1799	1800	Pass	1	0.06%	30
2400	2400	Pass	0	0.00%	60
3017	3000	Pass	-17	-0.57%	60
0	0	Pass	0		60

Cold Temperature Reference Cold Temperature Actual

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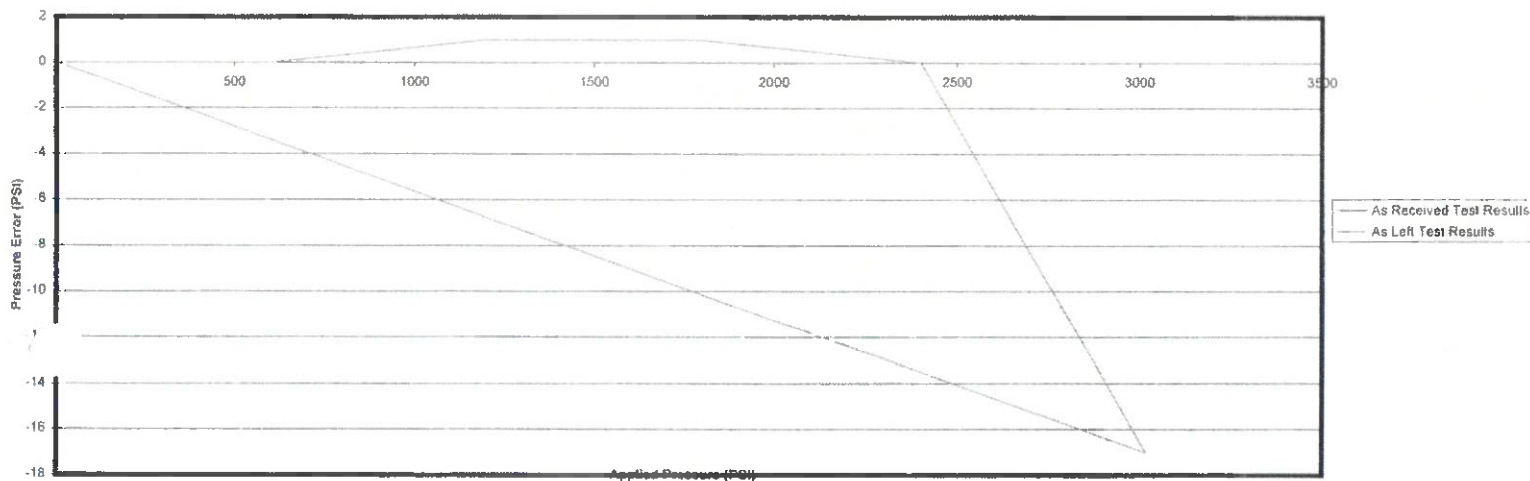
Warm Temperature Reference Warm Temperature Actual

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Laboratory Representative
Shop Technician

Kathy Murray

Pressure Error Graph for Gauge # CR-3000-21 (ARK), S/N BARTON 3000, Report # Arkane-Cal Report 19276



Certificate of Calibration

† number Arkane-Cal Report19144

ARKANE WORKS

Manufacturer	Model	Company / Unit	Gauge Number	Serial Number	Calibration Date	Expiration Date
Crystal Engineering	XP2i 10K	ARKANE WORKS	DDW-1012 (ARK)	151195	9/4/2014	9/4/2015

All instrument calibrations are verified for accuracy before they are shipped. The recommended calibration interval for this instrument is 12 months from the date of verification.

As Received Condition:

In tolerance

As Left Condition:

In tolerance

All calibrations are performed in a controlled environment by qualified personnel using instrumentation and methods which guarantee that specifications claimed are reliable. Calibrations conform to ANSI/NCSL Z540-1-1994, MIL-STD 45662A, 10CFR21 and 10CFR50 when specified by customer documentation.

Laboratory ambient conditions throughout this calibration were:

Temperature 20 to 24° C
Humidity 30 to 55% RH
Pressure 100 to 103 kPa

Reference Standards used in this calibration are traceable to the National Institute of Standards and Technology through the following report numbers:

Manufacturer	Model	Serial Number	Report Number	Due Date	Reference Uncertainty
Crystal Engineering	10KPSIXP2i	468428	196421	5-Jun-15	0-20% of FS: +/- 0.02% FS, 20%-100% of FS: +/- 0.1% reading

As Received Test Results

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10000 PSI

Reference Reading	Gauge Reading	Condition	Difference	Difference (% of Reading)	Allowable Tolerance
0	0	Pass	0		10
2003	2000	Pass	-3	-0.15%	10
4001	4000	Pass	-1	-0.03%	10
5998	6000	Pass	2	0.03%	10
7997	8000	Pass	3	0.04%	10
10003	10000	Pass	-3	-0.03%	10
0	0	Pass	0		10

As Left Test Results

10000 PSI

Reference Reading	Gauge Reading	Condition	Difference	Difference (% of Reading)	Allowable Tolerance
0	0	Pass	0		10
2003	2000	Pass	-3	-0.15%	10
4001	4000	Pass	-1	-0.03%	10
5998	6000	Pass	2	0.03%	10
7997	8000	Pass	3	0.04%	10
10003	10000	Pass	-3	-0.03%	10
0	0	Pass	0		10

Cold Temperature Reference Cold Temperature Actual

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Warm Temperature Reference Warm Temperature Actual

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Steven Thuttrick

Laboratory Representative
Shop Technician

Pressure Error Graph for Gauge # DDW-1012 (ARK), S/N XP2i 10K, Report # Arkane-Cal Report19144

