

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

12/1/12

OPERATOR: License # 31819

Name: Cholla Production, LLC

Address 1: 7851 South Elati Street, Suite 201

Address 2:

City: Littleton State: CO Zip: 80120 +

Contact Person: Emily Hundley-Goff

Phone: (303) 623-4565

CONTRACTOR: License # 33575

Name: WW Drilling

Wellsite Geologist: Tom Pronald

Purchaser: Plains Marketing

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 #:

8/17/2010	8/25/2010	10/13/2010
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 171-20769-0000

Spot Description:

NE SE NE SW Sec. 16 Twp. 19 S. R. 33 East West

1,730 Feet from North / South Line of Section

2,675 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

County: Scott

Lease Name: Metzger Well #: 1-16

Field Name: Wildcat

Producing Formation: Marmaton

Elevation: Ground: 2965 Kelly Bushing: 2970

Total Depth: 4730 Plug Back Total Depth: 4580

Amount of Surface Pipe Set and Cemented at: 257 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: 2230 Feet

If Alternate II completion, cement circulated from: 4730' w/ 150 sx cmt & 2230'

feet depth to: surface w/ 475 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 13500 ppm Fluid volume: 850 bbls

Dewatering method used: evaporation and reclamation

Location of fluid disposal if hauled offsite:

Operator Name:

Lease Name: License #:

Quarter Sec. Twp. S. R. East West

County: Permit #:

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: Emily M. Hundley-Goff

Title: Owner/Manager Date: 12/1/2010

KCC Office Use ONLY

Letter of Confidentiality Received

Date: 12/1/10 - 12/1/12

Confidential Release Date:

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT I II III Approved by: Date:

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Operator Name: Cholla Production, LLC Lease Name: Metzger Well #: 1-16
 Sec. 16 Twp. 19 S. R. 33 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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Array Induction; Micro-Resistivity; FDC/CNL; Sonic; CBL	<input checked="" 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>Base Anhydrite</td> <td>2220</td> <td>750</td> </tr> <tr> <td>Heebner</td> <td>3840</td> <td>-870</td> </tr> <tr> <td>Lansing</td> <td>3887</td> <td>-917</td> </tr> <tr> <td>Marmaton</td> <td>4318</td> <td>-1348</td> </tr> <tr> <td>Morrow Shale</td> <td>4600</td> <td>-1630</td> </tr> <tr> <td>Mississippian</td> <td>4642</td> <td>-1672</td> </tr> </table>	Name	Top	Datum	Base Anhydrite	2220	750	Heebner	3840	-870	Lansing	3887	-917	Marmaton	4318	-1348	Morrow Shale	4600	-1630	Mississippian	4642	-1672
Name	Top	Datum																				
Base Anhydrite	2220	750																				
Heebner	3840	-870																				
Lansing	3887	-917																				
Marmaton	4318	-1348																				
Morrow Shale	4600	-1630																				
Mississippian	4642	-1672																				

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	12 1/4"	8 5/8"	23#	257	Class-A	175	3% cc 2% gel
production	7 7/8"	4 1/2"	10.5#	4731	AA2	150	5% W60, 10% salt, 0.6% C15

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	DV Tool@2230 (cmt to surface)	A-conn blend	475	A-Conn w/3% cc and 1/4# cellflake

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
8	4616-20'	250 gal 7.5% NEFE HCL w/1% muscol&10%xylene; Frac w/142 bbbs gel; 48 bbbs w/1/2#sd	
		50 bbbs w/1#sd; 80 bbbs w/2# sd; 25 bbbs w/2.5#sd; 25 bbbs w/3# sd	
	CIBP		4580
4	4364-72; 4374-78'	1250 gal 15% NEFE HCL	

TUBING RECORD: Size: <u>2 3/8"</u> Set At: <u>4430</u> Packer At: <u>SN @4430'</u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No											
Date of First, Resumed Production, SWD or ENHR: <u>10/13/2010</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____										
Estimated Production Per 24 Hours	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">Oil Bbbs.</td> <td style="width:15%;">Gas Mcf</td> <td style="width:15%;">Water Bbbs.</td> <td style="width:15%;">Gas-Oil Ratio</td> <td style="width:15%;">Gravity</td> </tr> <tr> <td>75</td> <td></td> <td>10</td> <td></td> <td></td> </tr> </table>	Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity	75		10		
Oil Bbbs.	Gas Mcf	Water Bbbs.	Gas-Oil Ratio	Gravity							
75		10									

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 (Specify) _____	PRODUCTION INTERVAL: <u>Marmaton 4364-72; 4374-78</u>
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

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Customer <i>Cholla Production</i>	Lease No. CONFIDENTIAL	Date <i>8-21-10</i>
Lease <i>Metzger</i>	Well # <i>1-16</i>	
Field Order # <i>111701033</i>	Station <i>Liberal</i>	Casing <i>4 1/4</i>
	Depth <i>4171</i>	County <i>Scott</i>
Type Job <i>Z 92 4 1/2 2stage L.S.</i>	Formation	Legal Description <i>16-19-33</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>4 1/2</i>	Tubing Size	Shots/Ft <i>15</i>	<i>Dsk AA2 Cement - 5 1/2 W-60 - 10% salt - 1 1/2 C-11</i>	Acid	RATE	PRESS	ISIP	
Depth <i>4171</i>	Depth	From <i>1/4</i>	<i>To Deframer - 5"</i>	Pre Pad	Max		5 Min.	
Volume	Volume	From <i>1.54</i>	<i>To 1 1/2 gal</i>	Pad	Min		10 Min.	
Max Press	Max Press	From <i>55</i>	<i>To 50 sk A-con Blend</i>	Flac	Avg		15 Min.	
Well Connection	Annulus Vol.	From <i>285</i>	<i>To 18.1 gal</i>		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>R. Pearson</i>	Station Manager <i>J. Bennett</i>	Treater <i>M. Cochran</i>
Service Units <i>1175 2780 19553 14354 19578</i>		
Driver Names <i>Cochran R. Clark</i>	<i>R. Chavez</i>	<i>J. Chavez</i>

Time	Casing Pressure	Tubing Pressure	Bbbls. Pumped	Rate	Service Log
12:30					arrive / Hold Safety Meeting
12:35					Rig up P/T wait on Bulk
13:40					Bulk on loc.
14:35					Test Pump + Lines
14:36	460		12	5.5	Start Mud Flush
14:38	350		3	5.5	Start Fresh H ₂ O
14:39	400		41	5.5	Start Cost 150 sk @ 14.8
14:47					Shutdown + Drop L.D. Plug
14:51					Wash Pump + Lines
14:56	100		6	7	Start Disp w/ 2% KCL
15:02	200		40	7	Switch to Mud
15:26	500		75	3.5	Slow Rate
15:09	1100		75	3.5	Bump Plug
15:10	0		75	0	Release / Plug Hold
15:15					Drop 1250 opening Plug
15:30					Open tool @ 2230'
					Run w/ Rig Pump
17:42	200		5	1.5	Plug Rst Hole w/ 25% K @ 13.8
17:47	200		5	2.5	Plug 110000 w/
17:50					Switch to Corp.

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Chart No.	Time	Rate (BPM)	Volume (BBL)(GAL)	Rate		Press. (PSI)		Job Description / Remarks
				N2	CSG.	Tbg		
								Tool @ 2230' CONFIDENTIAL
	17:51	5.5	3		200			Start Fresh H ₂ O
	17:51	5.5	0		200			Start Cmt @ 11.4"
	18:29	5.5	236		400			Start Cmt Returns to Surface
	18:32	4	250		0			Shutdown + Wash up
	18:38							Drop MSC Closing Plug
	18:47	5.5	0		300			Start Disp. w/ 2 1/2" KCL
	18:48	3	27		500			Slow Rate
	18:48	3	36		1800			Bump Plug
	18:48	3	36		1800			Close Tool
	18:48	0	36		0			Release / Tool Held
	18:50							End Job
					650			Pressure Before Plug Landed Used 475sk on Pipe Job

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ALLIED CEMENTING CO., LLC. 035438

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

SERVICE POINT: Oakley KS

DATE <u>12/17/10</u>	SEC <u>16</u>	TWP <u>19</u>	RANGE <u>33</u>	CALLED OUT <u>DEC 01 2010</u>	LOCATION <u>CONFIDENTIAL</u>	JOB START <u>8:30 PM</u>	JOB FINISH <u>9:00 PM</u>
LEASE <u>Metzger</u>	WELL # <u>1-16</u>	LOCATION <u>Scott City 65 3w</u>			COUNTY <u>Scott</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>NO TO</u>			

CONTRACTOR WW 2
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D. 257
 CASING SIZE 8 5/8 DEPTH 257
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15'
 PERFS. _____
 DISPLACEMENT 15.41 BBL H₂O

OWNER Same
 CEMENT AMOUNT ORDERED 175 Com 390 CC 290 gel
 COMMON 175 @ 15.45 2703.25
 POZMIX _____ @ _____
 GEL 3 @ 20.00 62.40
 CHLORIDE 6 @ 58.00 348.00
 ASC _____ @ _____
 _____ @ _____
 _____ @ RECEIVED
 _____ @ DEC 06 2010
 _____ @ KCC WICHITA
 _____ @ _____
 HANDLING 184 @ 2.40 441.60
 MILEAGE 104 SK/mile @ _____ 1012.00
 TOTAL 4568.95

EQUIPMENT
 PUMP TRUCK CEMENTER Alan
 # 423-281 HELPER Darren
 BULK TRUCK
 # 386 DRIVER Terry
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:
8 5/8 Csg, Circulate Mix
175 SKs Com 390CC 290 gel down
8 5/8, Displace w/ 15.41 BBL H₂O
Cement did circulate
Thank You
Alan, Darren, Terry

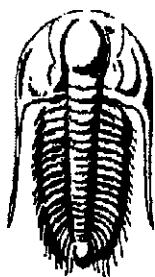
CHARGE TO Cholla Productions Inc
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 1012.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 55 @ 7.00 385.00
 MANIFOLD _____ @ _____
 _____ @ _____
 TOTAL 1403.00

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 Roger Pearson
 SIGNATURE Roger Pearson

PLUG & FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____
 SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Cholla Production, LLC**

7851 S. Elati Street
Suite 201
Littleton, CO 80120

ATTN: Tom Pronold

16-19-33 Scott,KS

Metzger #1-16

Start Date: 2010.08.22 @ 08:58:00

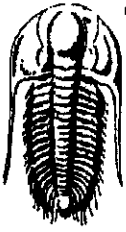
End Date: 2010.08.22 @ 16:02:24

Job Ticket #: 39598 DST #: 1

KCC
DEC 01 2010
CONFIDENTIAL

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

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KCC WICHITA



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cholla Production, LLC

Metzger #1-16

7851 S. Elati Street
Suite 201
Littleton, CO 80120
ATTN: Tom Pronold

16-19-33 Scott,KS

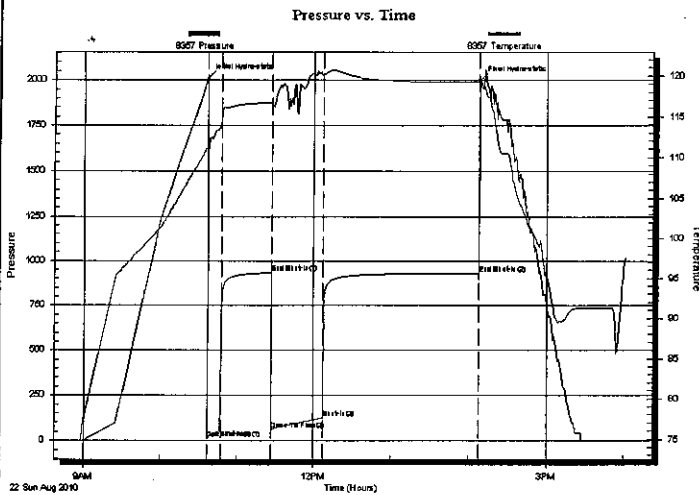
Job Ticket: 39598 DST#: 1
Test Start: 2010.08.22 @ 08:58:00

GENERAL INFORMATION:

Formation: **LKC**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 10:36:54
 Time Test Ended: 16:02:24
 Interval: **4192.00 ft (KB) To 4216.00 ft (KB) (TVD)**
 Total Depth: **4216.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole**
 Tester: **Chuck Smith**
 Unit No: **37**
 Reference Elevations: **2970.00 ft (KB)**
2965.00 ft (CF)
 KB to GR/CF: **5.00 ft**

Serial #: 8357 **Inside**
 Press@RunDepth: **123.93 psig @ 4196.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2010.08.22** End Date: **2010.08.22** Last Calib.: **2010.08.22**
 Start Time: **08:58:05** End Time: **16:02:24** Time On Btm: **2010.08.22 @ 10:36:48**
 Time Off Btm: **2010.08.22 @ 14:08:30**

TEST COMMENT: IF: 3" Building blow.
 IS: No return.
 FF: B.O.B. @ 36 min.
 FSI: No return.



PRESSURE SUMMARY

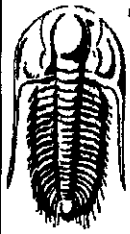
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2010.66	110.99	Initial Hydro-static
1	12.19	110.05	Open To Flow (1)
11	59.37	113.84	Shut-In(1)
51	933.41	116.64	End Shut-In(1)
51	61.04	116.23	Open To Flow (2)
91	123.93	120.27	Shut-In(2)
211	931.20	119.27	End Shut-In(2)
212	2002.89	119.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	MW 40%M 60%W	2.24

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cholla Production, LLC

Metzger #1-16

7851 S. Elati Street
Suite 201
Littleton, CO 80120
ATTN: Tom Pronold

16-19-33 Scott,KS

Job Ticket: 39598

DST#: 1

Test Start: 2010.08.22 @ 08:58:00

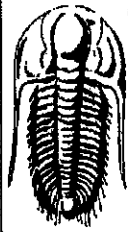
Tool Information

Drill Pipe:	Length: 4061.00 ft	Diameter: 3.80 inches	Volume: 56.97 bbl	Tool Weight: 2700.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 57.58 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.50 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4192.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	54.50 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			4162.50	
Shut In Tool	5.00			4167.50	
Sampler	3.00			4170.50	
Hydraulic tool	5.00			4175.50	
Jars	5.00			4180.50	
Safety Joint	2.50			4183.00	
Packer	5.00			4188.00	30.50 Bottom Of Top Packer
Packer	4.00			4192.00	
Stubb	1.00			4193.00	
Perforations	3.00			4196.00	
Recorder	0.00	8357	Inside	4196.00	
Recorder	0.00	6751	Outside	4196.00	
Perforations	17.00			4213.00	
Bullnose	3.00			4216.00	24.00 Bottom Packers & Anchor

Total Tool Length: 54.50



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TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production, LLC

Metzger #1-16

7851 S. Elati Street
Suite 201
Littleton, CO 80120
ATTN: Tom Pronold

16-19-33 Scott,KS

Job Ticket: 39598

DST#: 1

Test Start: 2010.08.22 @ 08:58:00

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:

25000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	MW 40%M 60%W	2.237

Total Length: 240.00 ft Total Volume: 2.237 bbl

Num Fluid Samples: 0

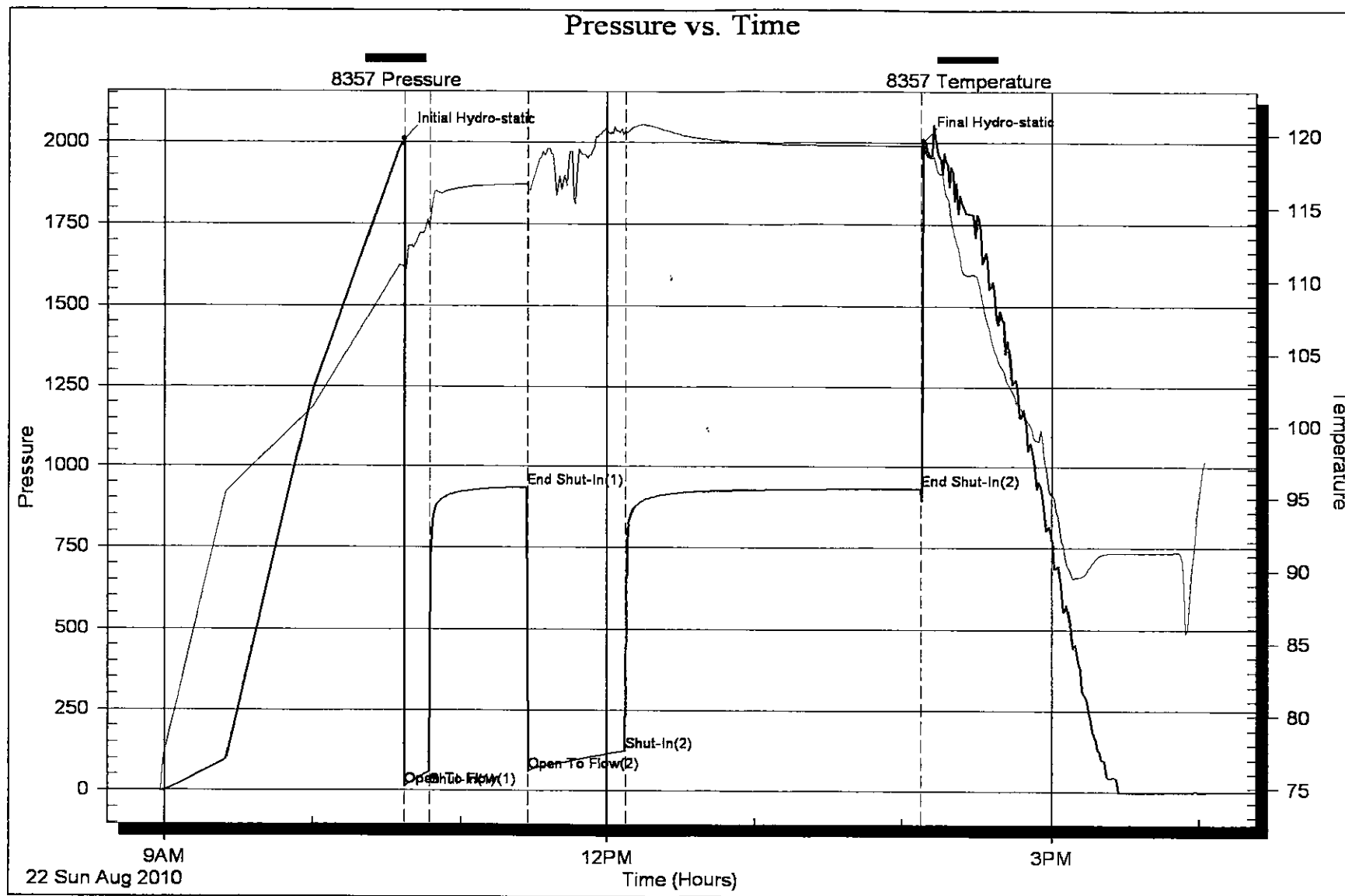
Num Gas Bombs: 0

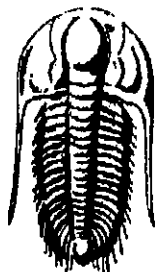
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Oil spots in tool.
RW .202 @ 99F





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TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Cholla Production, LLC**

7851 S. Elati Street
Suite 201
Littleton, CO 80120

ATTN: Tom Pronold

16-19-33 Scott,KS

Metzger #1-16

Start Date: 2010.08.23 @ 07:28:00

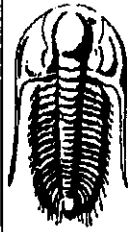
End Date: 2010.08.23 @ 16:49:30

Job Ticket #: 39599 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

Cholla Production, LLC

7851 S. Elati Street
Suite 201
Littleton, CO 80120
ATTN: Tom Pronold

Metzger #1-16

16-19-33 Scott,KS

Job Ticket: 39599

DST#: 2

Test Start: 2010.08.23 @ 07:28:00

GENERAL INFORMATION:

Formation: **Bottom KC - Marmaton**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 09:31:18

Time Test Ended: 16:49:30

Test Type: **Conventional Bottom Hole**

Tester: **Chuck Smith**

Unit No: **37**

Interval: **4282.00 ft (KB) To 4356.00 ft (KB) (TVD)**

Total Depth: **4356.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

Reference Elevations: **2970.00 ft (KB)**

2965.00 ft (CF)

KB to GR/CF: **5.00 ft**

Serial #: 8357

Inside

Press@RunDepth: **481.72 psig @ 4284.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2010.08.23**

End Date: **2010.08.23**

Last Calib.: **2010.08.23**

Start Time: **07:28:05**

End Time: **16:49:30**

Time On Btm: **2010.08.23 @ 09:28:06**

Time Off Btm: **2010.08.23 @ 13:07:47**

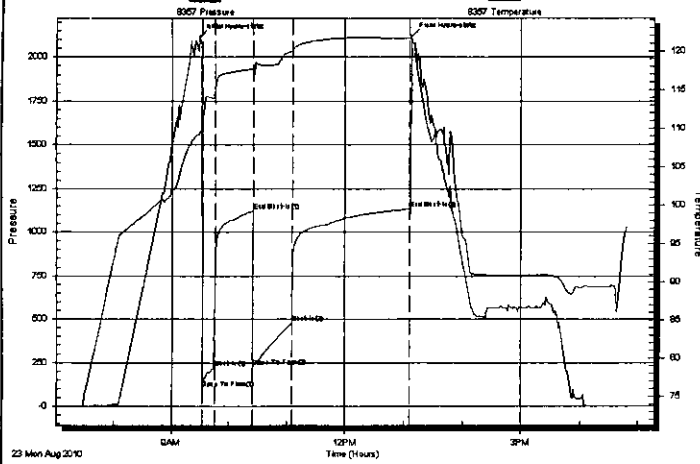
TEST COMMENT: IF: B.O.B. @ 3 min. (Mud dropped @ open 10')

IS: B.O.B. @ 21 min.

FF: B.O.B. @ 3 min.

FSI: B.O.B. @ 4 1/2 min.

Pressure vs. Time



PRESSURE SUMMARY

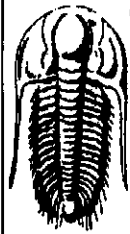
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2112.95	109.43	Initial Hydro-static
4	98.35	111.62	Open To Flow (1)
17	219.62	113.99	Shut-In(1)
56	1121.50	117.67	End Shut-In(1)
57	226.32	117.11	Open To Flow (2)
98	481.72	120.03	Shut-In(2)
218	1134.07	121.62	End Shut-In(2)
220	2118.77	121.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMCO 30%G 30%M 40%O	0.61
1177.00	GMCO 5%M 45%G 50%O	16.51
60.00	GMCO 15%G 15%M 70%O	0.84
0.00	1488 Feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cholla Production, LLC

Metzger #1-16

7851 S. Elati Street
Suite 201
Littleton, CO 80120
ATTN: Tom Pronold

16-19-33 Scott,KS

Job Ticket: 39599

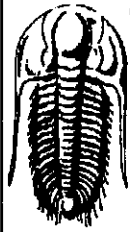
DST#: 2

Test Start: 2010.08.23 @ 07:28:00

Tool Information

Drill Pipe:	Length: 4162.00 ft	Diameter: 3.80 inches	Volume: 58.38 bbl	Tool Weight: 2700.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	34.50 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	4282.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	104.50 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			4252.50	
Shut In Tool	5.00			4257.50	
Sampler	3.00			4260.50	
Hydraulic tool	5.00			4265.50	
Jars	5.00			4270.50	
Safety Joint	2.50			4273.00	
Packer	5.00			4278.00	30.50 Bottom Of Top Packer
Packer	4.00			4282.00	
Stubb	1.00			4283.00	
Perforations	1.00			4284.00	
Recorder	0.00	8357	Inside	4284.00	
Recorder	0.00	6751	Outside	4284.00	
Perforations	5.00			4289.00	
Change Over Sub	1.00			4290.00	
Drill Pipe	62.00			4352.00	
Change Over Sub	1.00			4353.00	
Bullnose	3.00			4356.00	74.00 Bottom Packers & Anchor
Total Tool Length:	104.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production, LLC

Metzger #1-16

7851 S. Elati Street
Suite 201
Littleton, CO 80120
ATTN: Tom Pronold

16-19-33 Scott,KS

Job Ticket: 39599

DST#: 2

Test Start: 2010.08.23 @ 07:28:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

25 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
124.00	GMCO 30%G 30%M 40%O	0.610
1177.00	GMCO 5%M 45%G 50%O	16.510
60.00	GMCO 15%G 15%M 70%O	0.842
0.00	1488 Feet GIP	0.000

Total Length: 1361.00 ft Total Volume: 17.962 bbl

Num Fluid Samples: 0

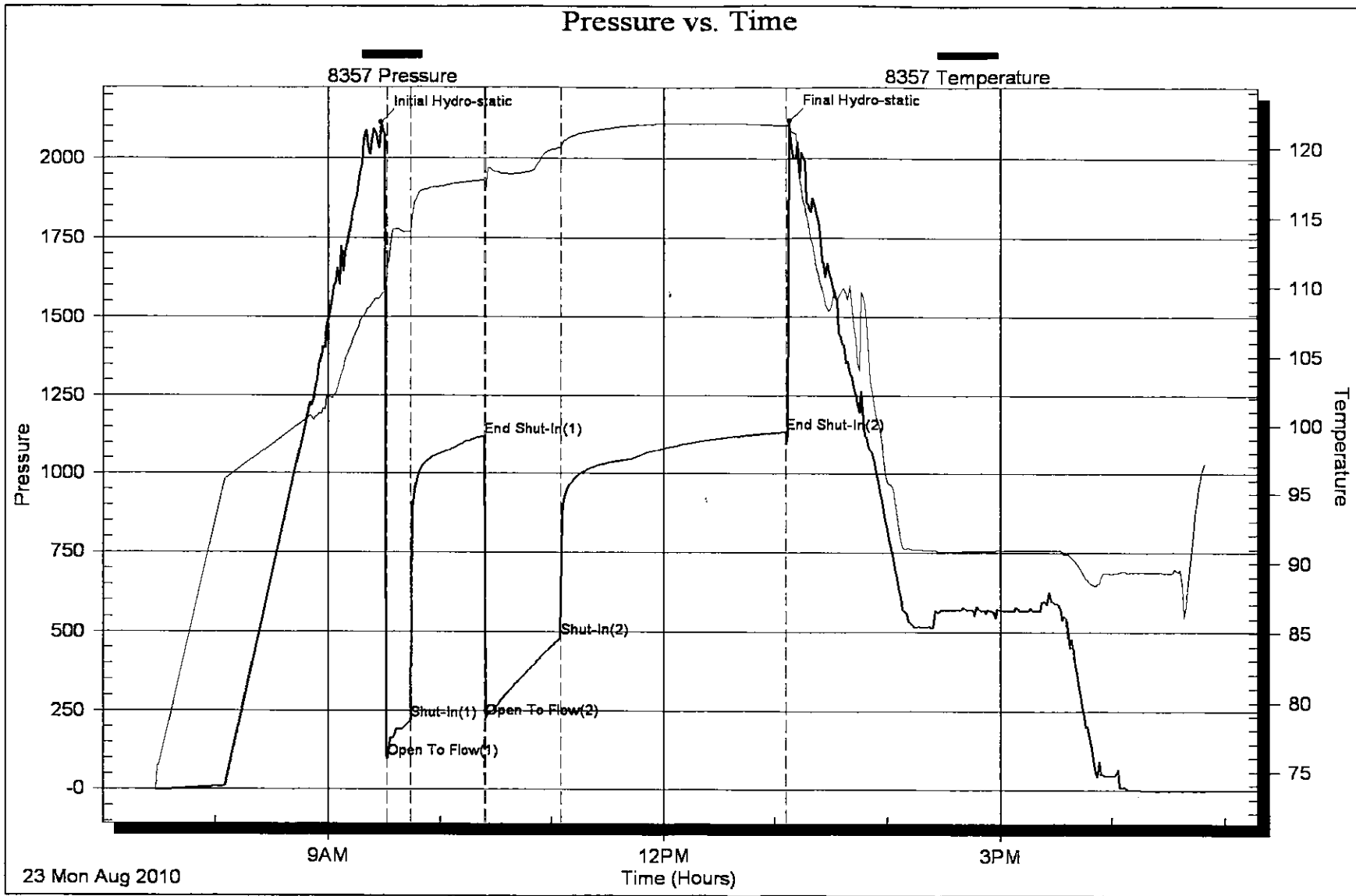
Num Gas Bombs: 0

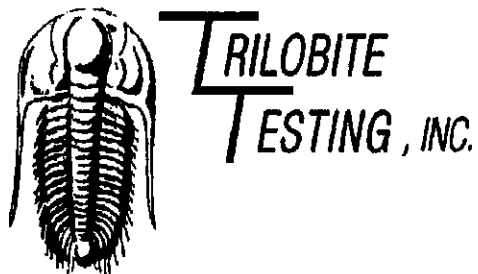
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 29 @ 100 Degrees F = 25.





DRILL STEM TEST REPORT

Prepared For: **Cholla Production, LLC**

7851 S. Elati Street
Suite 201
Littleton, CO 80120

ATTN: Tom Pronold

16-19-33 Scott,KS

Metzger #1-16

Start Date: 2010.08.24 @ 01:53:13

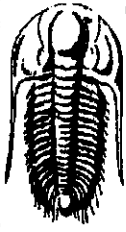
End Date: 2010.08.24 @ 10:21:00

Job Ticket #: 39600 DST #: 3

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Cholla Production, LLC

7851 S. Elati Street
Suite 201
Littleton, CO 80120
ATTN: Tom Pronold

Metzger #1-16

16-19-33 Scott,KS

Job Ticket: 39600

DST#: 3

Test Start: 2010.08.24 @ 01:53:13

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:37:43
Time Test Ended: 10:21:00

Test Type: Conventional Bottom Hole
Tester: Chuck Smith
Unit No: 37

Interval: **4356.00 ft (KB) To 4394.00 ft (KB) (TVD)**
Total Depth: 4394.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2970.00 ft (KB)
2965.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8357

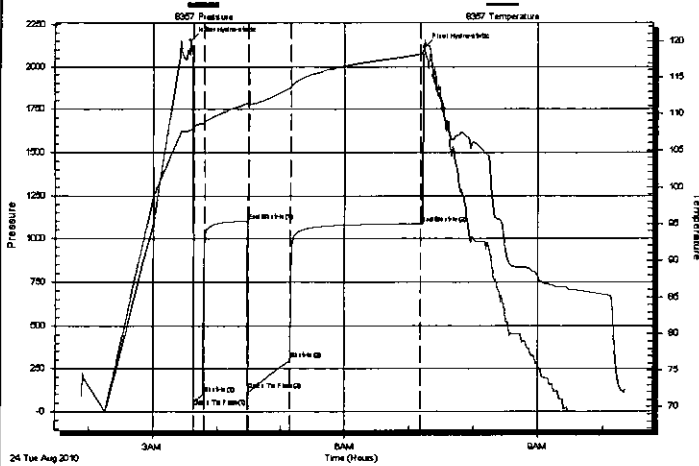
Inside

Press@RunDepth: 301.84 psig @ 4359.00 ft (KB)
Start Date: 2010.08.24 End Date: 2010.08.24
Start Time: 01:53:18 End Time: 10:21:01

Capacity: 8000.00 psig
Last Calib.: 2010.08.24
Time On Btm: 2010.08.24 @ 03:35:01
Time Off Btm: 2010.08.24 @ 07:13:55

TEST COMMENT: IF: B.O.B. @ 4 min.
IS: B.O.B. @ 29 min.
FF: B.O.B. @ 5 min.
FS: B.O.B. @ 36 min.

Pressure vs. Time



PRESSURE SUMMARY

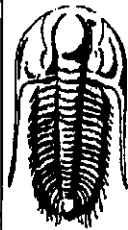
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2154.89	107.82	Initial Hydro-static
3	26.13	107.47	Open To Flow (1)
13	101.33	108.72	Shut-In(1)
55	1101.91	111.41	End Shut-In(1)
55	122.27	111.01	Open To Flow (2)
95	301.84	113.67	Shut-In(2)
216	1088.24	118.18	End Shut-In(2)
219	2112.42	119.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	GMCO 15%G 15%M 70%O	1.48
682.00	GO 35%G 65%O	9.57
32.00	GO 30%G 70%O	0.45
0.00	900 Feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Cholla Production, LLC

Metzger #1-16

7851 S. Elati Street
Suite 201
Littleton, CO 80120
ATTN: Tom Pronold

16-19-33 Scott,KS

Job Ticket: 39600

DST#: 3

Test Start: 2010.08.24 @ 01:53:13

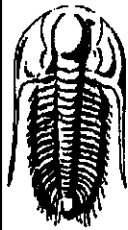
Tool Information

Drill Pipe:	Length: 4226.00 ft	Diameter: 3.80 inches	Volume: 59.28 bbl	Tool Weight: 2700.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 124.00 ft	Diameter: 2.25 inches	Volume: 0.61 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.89 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.50 ft			String Weight: Initial 46000.00 lb
Depth to Top Packer:	4356.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	38.00 ft			
Tool Length:	68.50 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4326.50	
Shut In Tool	5.00			4331.50	
Sampler	3.00			4334.50	
Hydraulic tool	5.00			4339.50	
Jars	5.00			4344.50	
Safety Joint	2.50			4347.00	
Packer	5.00			4352.00	30.50 Bottom Of Top Packer
Packer	4.00			4356.00	
Stubb	1.00			4357.00	
Perforations	2.00			4359.00	
Recorder	0.00	8357	Inside	4359.00	
Recorder	0.00	6751	Outside	4359.00	
Change Over Sub	1.00			4360.00	
Drill Pipe	30.00			4390.00	
Change Over Sub	1.00			4391.00	
Bullnose	3.00			4394.00	38.00 Bottom Packers & Anchor
Total Tool Length:	68.50				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production, LLC

Metzger #1-16

7851 S. Elati Street
Suite 201
Littleton, CO 80120
ATTN: Tom Pronold

16-19-33 Scott,KS

Job Ticket: 39600

DST#: 3

Test Start: 2010.08.24 @ 01:53:13

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 28 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.78 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4800.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
186.00	GMCO 15%G 15%M 70%O	1.480
682.00	GO 35%G 65%O	9.567
32.00	GO 30%G 70%O	0.449
0.00	900 Feet GIP	0.000

Total Length: 900.00 ft Total Volume: 11.496 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API: 29 @ 70 Degrees F = 28.

Sampler Data:

