



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1165877  
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: \_\_\_\_\_



1165877

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> _____ <i>(Submit ACO-4)</i>	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Gerstberger 1-30
Doc ID	1165877

All Electric Logs Run

Borehole Compensated Sonic Log
Dual Induction Log
Microresistivity Log
Dual Compensated Porosity Log
Sonic Cement Bond Log

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Gerstberger 1-30
Doc ID	1165877

Tops

Name	Top	Datum
Anhydrite	2429	871
B/Anhydrite	2447	856
Topeka	3680	-383
Heebner	3924	-629
Toronto	3942	-649
Lansing	3969	-674
C	4016	-717
D	4032	-735
E	4057	-769
F	4084	-785
Muncie Creek	4160	-861
H	4171	-869
I	4199	-899
J	4235	-935
Stark Shale	4258	-960
K	4269	-971
L	4321	-1021
BKC	4335	-1058
Marmaton	4424	-1126
Altamont	4454	-1157
Pawnee	4507	-1210
Myrick Station	4541	-1244
Fort Scott	4556	-1257
Cherokee	4580	-1283

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Gerstberger 1-30
Doc ID	1165877

Tops

Name	Top	Datum
Johnson Zone	4673	-1375
Up Morrow SD	4816	-1515
Missippian	4832	-1534

Form	ACO1 - Well Completion
Operator	Landmark Resources, Inc.
Well Name	Gerstberger 1-30
Doc ID	1165877

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
		3,000 gal gelled 20% acid	4429-68' OA
6	4429-33' & 4438-42'	1500 gal 15% MCA/FE & 3000 gal gelled 20% acid	4429-42' OA
6	4464-68'	1200 gal 15% MCA/FE	4464-68'
	CIBP @ 4505'	CIBP capped with 1 sack cement	4505'
2	4514-18'	500' gal 15% MCA/FE	4514-18'
	CIBP @ 4560'	CIBP capped with 1 sack cement	4560'
2	4592-95'	500 gal 15% MCA/FE	4592'-95'
2	4658-62'	500 gal 15% MCA/FE	4658-62'
2	4704-08'	500 gal 15% MCA/FE	4704-08'

PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361

# INVOICE

Invoice Number: 138577  
Invoice Date: Sep 9, 2013  
Page: 1

**Bill To:**

Landmark Resources, Inc.  
1616 S. Voss  
Suite 600  
Houston, TX 77057-1264

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Land	61267	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Sep 9, 2013	10/9/13

Quantity	Item	Description	Unit Price	Amount
		Gerstberger #1-30		
150.00	CEMENT MATERIALS	ASC	20.90	3,135.00
900.00	CEMENT MATERIALS	Gilsonite	0.98	882.00
16.00	CEMENT MATERIALS	Salt	26.35	421.60
12.00	CEMENT MATERIALS	WFR-2	58.70	704.40
35.00	CEMENT MATERIALS	Defoamer	9.80	343.00
71.00	CEMENT MATERIALS	FL-160	16.20	1,150.20
199.67	CEMENT SERVICE	Cubic Feet	2.48	495.18
511.20	CEMENT SERVICE	Ton Mileage	2.60	1,329.12
1.00	CEMENT SERVICE	Production -- Bottom Stage	2,765.75	2,765.75
60.00	CEMENT SERVICE	Pump Truck Mileage	7.70	462.00
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
60.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	264.00
1.00	EQUIPMENT SALES	5-1/2 D V Tool	5,335.26	5,335.26
1.00	EQUIPMENT SALES	5-1/2 Latch Down Assembly	324.09	324.09
2.00	EQUIPMENT SALES	5-1/2 Basket	394.29	788.58
17.00	EQUIPMENT SALES	5-1/2 Centralizer	57.33	974.61
1.00	EQUIPMENT SALES	5-1/2 AFU Float Shoe	408.33	408.33
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Wayne Mc Ghghy		
1.00	OPERATOR ASSISTANT	David Scariano		

Subtotal	20,058.12
Sales Tax	1,179.07
Total Invoice Amount	21,237.19
Payment/Credit Applied	
<b>TOTAL</b>	<b>21,237.19</b>

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 5,616.27

ONLY IF PAID ON OR BEFORE  
Oct 4, 2013

# ALLIED OIL & GAS SERVICES, LLC 061267

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:

*Dallas, TX*

DATE <i>9/4/13</i>	SEC. <i>30</i>	TWP. <i>07</i>	RANGE <i>36</i>	CALLED OUT	ON LOCATION	JOB START <i>11:00am</i>	JOB FINISH <i>12:00pm</i>
LEASE <i>Garstberger</i>	WELL# <i>1-30</i>	LOCATION <i>Leoti N70 R25 1E 1/2 S Winto</i>		COUNTY <i>Wichita</i>	STATE <i>KS</i>		
OLD OR NEW (Circle one) <input checked="" type="radio"/> OLD <input type="radio"/> NEW							

CONTRACTOR *MarFin 22*

TYPE OF JOB *Prod. Bottom Stage*

HOLE SIZE *7 7/8" T.D. 800' HTD*

CASING SIZE *5 1/2" 15 1/2" DEPTH 499'*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *AV* DEPTH *246'*

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *4 1/2" 1/2"*

CEMENT LEFT IN CSG. *4 1/2"*

PERFS.

DISPLACEMENT

OWNER *Same*

CEMENT

AMOUNT ORDERED *15062 BBL 10% SGT 2% 5" Gelsolite*

*1/2-1 7/8 F160 1/4-1 7/8 DeFormer. W.F.R.T. - 12 BBL*

EQUIPMENT

PUMP TRUCK	CEMENTER	<i>Alan Ryan</i>
# <i>372</i>	HELPER	<i>Wayne McElroy</i>
BULK TRUCK		
# <i>906</i>	DRIVER	<i>Shooby Elco (TWS)</i>
BULK TRUCK		
# <i>800</i>	DRIVER	<i>David Scarnard</i>

COMMON	@		
POZMIX	@		
GEL	@		
CHLORIDE	@		
ASC	@	<i>150</i>	<i>20 90 3135 20</i>
<i>Gelsolite</i>	@	<i>900 1/2</i>	<i>188 882 60</i>
<i>Sact</i>	@	<i>1/2 5/4</i>	<i>26 20 421</i>
<i>W.F.R.T.</i>	@	<i>12886</i>	<i>58 80 704 80</i>
<i>DeFormer</i>	@	<i>35 1/6</i>	<i>9 80 343 00</i>
<i>F160</i>	@	<i>21 1/6</i>	<i>16 20 1150 20</i>
	@		
	@		
	@		
HANDLING	@	<i>199.67 CF</i>	<i>2 42 495 18</i>
MILEAGE	@	<i>2 1/2 per Mile 8.52</i>	<i>700 1329 12</i>
			TOTAL <i>8460 50</i>

REMARKS:

*Run Csg, Circulate, Max W.P.R.T., Max Asc Unit truck, Displace Plug to Latch down w/ 59 Bbl 1/2 - 59 Bbl 1/2 Mud, w/ 600 PSI Lift and Plug C 1800 PSI, Open Tool C 800 PSI, Circulate 4 hrs*

*Thank You  
Alan Ryan, David  
Elco*

CHARGE TO: *Landmark*

STREET \_\_\_\_\_

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

SERVICE

DEPTH OF JOB	@	<i>4992 25</i>	
PUMP TRUCK CHARGE	@	<i>2265 25</i>	
EXTRA FOOTAGE	@		
MILEAGE	@	<i>6.2 miles</i>	<i>72 462 00</i>
MANIFOLD	@	<i>4 Head</i>	<i>225 25</i>
<i>4 Traveler cell 60 wts</i>	@	<i>4 1/2</i>	<i>264 00</i>
	@		
			TOTAL <i>3766 25</i>

PLUG & FLOAT EQUIPMENT

*Weatherford*

<i>AV</i>	1	@	<i>5335 26</i>
<i>Latch Down Assembly</i>	1	@	<i>324 09</i>
<i>Baskets</i>	2	@	<i>394 27 788 58</i>
<i>Controlizers</i>	17	@	<i>57 31 974 67</i>
<i>APU Float shoe</i>	1	@	<i>408 33</i>
			TOTAL <i>2830 88</i>

To: Allied Oil & Gas Services, 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 *Susan Walker*

SIGNATURE *[Signature]*

SALES TAX (if Any) \_\_\_\_\_

TOTAL CHARGES *20,058.13*

DISCOUNT *5,616.27* IF PAID IN 30 DAYS

*14,441.85 Net.*





# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 138578  
Invoice Date: Sep 9, 2013  
Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361

**Bill To:**

Landmark Resources, Inc.  
1616 S. Voss  
Suite 600  
Houston, TX 77057-1264

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Land	61268	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-02	Oakley	Sep 9, 2013	10/9/13

Quantity	Item	Description	Unit Price	Amount
		Gerstberger #1-30		
450.00	CEMENT MATERIALS	ALW	15.95	7,177.50
113.00	CEMENT MATERIALS	Flo Seal	2.97	335.61
509.81	CEMENT SERVICE	Cubic Feet	2.48	1,264.33
1,257.06	CEMENT SERVICE	Ton Mileage	2.60	3,268.36
1.00	CEMENT SERVICE	Production -- Top Stage	2,406.25	2,406.25
1.00	CEMENT SUPERVISOR	Alan Ryan		
1.00	EQUIPMENT OPERATOR	Wayne Mc Ghghy		
1.00	OPERATOR ASSISTANT	David Scariano		

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

\$ 4,046.57

ONLY IF PAID ON OR BEFORE

Oct 4, 2013

Subtotal	14,452.05
Sales Tax	612.32
Total Invoice Amount	15,064.37
Payment/Credit Applied	
<b>TOTAL</b>	<b>15,064.37</b>

# ALLIED OIL & GAS SERVICES, LLC 061268

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Dallas TX

DATE <u>9/6/13</u>	SEC <u>30</u>	TWP. <u>17</u>	RANGE <u>36</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00pm</u>	JOB FINISH <u>5:30pm</u>
LEASE <u>Grant Berger</u>	WELL # <u>1530</u>	LOCATION <u>Leati 4 1/2 N Rd 5 1 E</u>				COUNTY <u>Wichita</u>	STATE <u>TX</u>
OLD OR NEW (Circle one)			<u>1 1/2 Finto</u>				

CONTRACTOR Murphy JJ  
 TYPE OF JOB Prod. Top Stage  
 HOLE SIZE 7 7/8 T.D. 0  
 CASING SIZE 5 1/2 DEPTH 4992  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL AU DEPTH 2461  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 42.12  
 CEMENT LEFT IN CSG. 42.12  
 PERFS.  
 DISPLACEMENT 59

OWNER Sang  
 CEMENT AMOUNT ORDERED 450ALW 1/4 Flo Seal

EQUIPMENT  
 PUMP TRUCK CEMENTER Alan  
 # 372 HELPER Walt  
 BULK TRUCK  
 # 600 DRIVER David  
 BULK TRUCK  
 # 566 DRIVER Elio

COMMON @  
 POZMIX @  
 GEL @  
 CHLORIDE @  
 AACALW 450512 @ 15.95 7177.50  
 @  
 Flo Seal 11316 @ 2.22 335.4  
 @  
 @  
 @  
 @  
 @  
 HANDLING 509.1 CF @ 2.48 1264.25  
 MILEAGE 20.95 @ 16.00 3268.25  
 TOTAL 12045.25

REMARKS: ALW 1/4 Flo Seal  
May 305K RH 205K MH May 400K Ann 51K  
Wash Tank 400K Displace Plug w/ 59 ALW 1/4  
w/ 600 RAE 657, Land of Plug w/ 1500 RST.

Tool closed  
Cement Dil Circulate 2000L  
TH 4  
Along with Elio  
David

CHARGE TO: Landmark  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

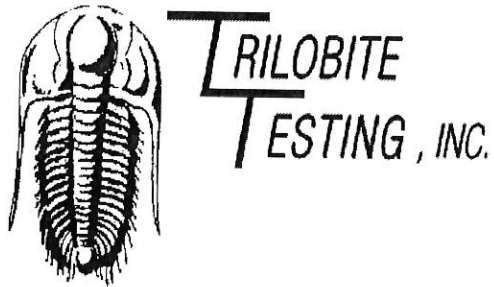
SERVICE  
 DEPTH OF JOB \_\_\_\_\_  
 PUMP TRUCK CHARGE End Stage 2406.25  
 EXTRA FOOTAGE @  
 MILEAGE @  
 MANIFOLD @  
 @  
 @  
 TOTAL 2406.25

To: Allied Oil & Gas Services, 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.

PLUG & FLOAT EQUIPMENT  
 @  
 @  
 @  
 @  
 @  
 TOTAL \_\_\_\_\_

PRINTED NAME Jean Walker  
 SIGNATURE [Signature]

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 14,452.07  
 DISCOUNT 4,046.57 IF PAID IN 30 DAYS  
10,405.49 Net.



## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Terry Mcleod

### **Gerstberger #1-30**

### **30-17s-36w Wichita,KS**

Start Date: 2013.09.04 @ 22:45:46

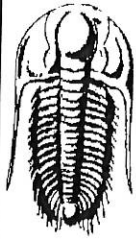
End Date: 2013.09.05 @ 07:25:01

Job Ticket #: 52847                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources Inc

**30-17s-36w Wichita,KS**

1616 S Voss Rd Ste 600  
Houston, TX 77057

**Gerstberger #1-30**

Job Ticket: 52847

**DST#: 1**

ATTN: Terry Mcleod

Test Start: 2013.09.04 @ 22:45:46

## GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:52:46

Time Test Ended: 07:25:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

**Interval: 4416.00 ft (KB) To 4487.00 ft (KB) (TVD)**

Total Depth: 4487.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3306.00 ft (KB)

3294.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 8368 Outside**

Press@RunDepth: 111.88 psig @ 4417.00 ft (KB)

Start Date: 2013.09.04

End Date:

2013.09.05

Capacity: 8000.00 psig

Last Calib.: 2013.09.05

Start Time: 22:45:51

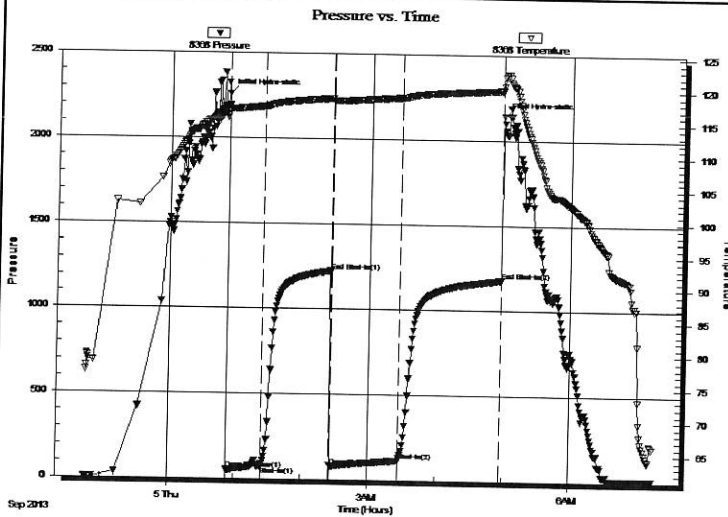
End Time:

07:15:00

Time On Btm: 2013.09.05 @ 00:52:31

Time Off Btm: 2013.09.05 @ 04:58:31

**TEST COMMENT:** 2 3/4" blow  
No return  
1 1/2" blow  
No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2262.22	117.48	Initial Hydro-static
1	49.61	116.60	Open To Flow (1)
31	72.39	117.37	Shut-In(1)
93	1224.15	118.63	End Shut-In(1)
94	78.88	118.29	Open To Flow (2)
154	111.88	118.86	Shut-In(2)
245	1177.04	120.07	End Shut-In(2)
246	2142.23	120.73	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	free oil 100% oil	0.34
110.00	o c m 20%o 80%m	0.54

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc

**30-17s-36w Wichita,KS**

1616 S Voss Rd Ste 600  
Houston, TX 77057

**Gerstberger #1-30**

Job Ticket: 52847

**DST#: 1**

ATTN: Terry Mcleod

Test Start: 2013.09.04 @ 22:45:46

## Tool Information

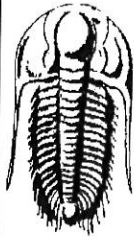
Drill Pipe:	Length: 4165.00 ft	Diameter: 3.80 inches	Volume: 58.42 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 59.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4416.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	99.00 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			4389.00	
Shut In Tool	5.00			4394.00	
Hydraulic tool	5.00			4399.00	
Jars	5.00			4404.00	
Safety Joint	3.00			4407.00	
Packer	5.00			4412.00	28.00 Bottom Of Top Packer
Packer	4.00			4416.00	
Stubb	1.00			4417.00	
Recorder	0.00	6667	Inside	4417.00	
Recorder	0.00	8368	Outside	4417.00	
Perforations	31.00			4448.00	
Change Over Sub	1.00			4449.00	
Drill Pipe	32.00			4481.00	
Change Over Sub	1.00			4482.00	
Bullnose	5.00			4487.00	71.00 Bottom Packers & Anchor

**Total Tool Length: 99.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc

**30-17s-36w Wichita,KS**

1616 S Voss Rd Ste 600  
Houston, TX 77057

**Gerstberger #1-30**

Job Ticket: 52847

**DST#: 1**

ATTN: Terry Mcleod

Test Start: 2013.09.04 @ 22:45:46

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.72 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	free oil 100% oil	0.344
110.00	o c m 20% o 80% m	0.541

Total Length: 180.00 ft

Total Volume: 0.885 bbl

Num Fluid Samples: 0

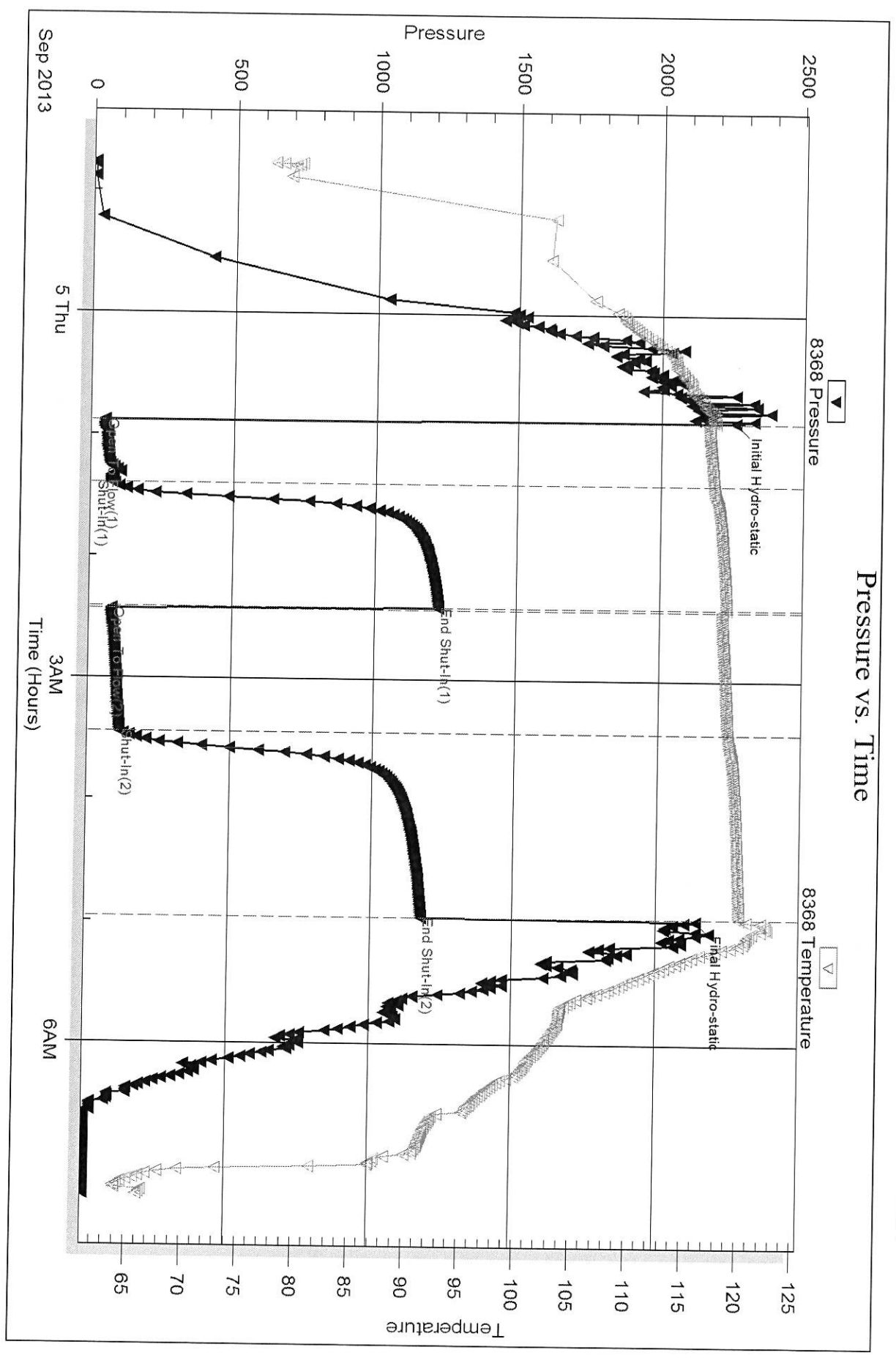
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Terry Mcleod

### **Gerstberger #1-30**

### **30-17s-36w Wichita,KS**

Start Date: 2013.09.05 @ 13:40:14

End Date: 2013.09.05 @ 22:35:39

Job Ticket #: 52848                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52847

Well Name & No. Gerstberger #1-30 Test No. #1 Date 9/5/13  
 Company Landmark Resources Inc Elevation 3300 KB 3294 GL  
 Address 1666 S. Voss Rd Ste 600 Houston, TX 77057  
 Co. Rep / Geo. Tom Pronold Rig Martin #22  
 Location: Sec. 30 Twp. 17 Rge. 36 Co. Wichita State Ks

Interval Tested 4416 4487 Zone Tested Marmaton  
 Anchor Length 71 Drill Pipe Run 4165' Mud Wt. 9.3  
 Top Packer Depth 4411 Drill Collars Run 238' Vis 51  
 Bottom Packer Depth 4416 Wt. Pipe Run --- WL 8.8  
 Total Depth 4487 Chlorides 3600 ppm System LCM #4

Blow Description 2 3/4" in blow  
No return  
1 1/2" in blow  
No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Free Oil</u>		<u>100</u>		
<u>110</u>	<u>OCM</u>	<u>20</u>		<u>80</u>	

Rec Total 180' BHT 120' Gravity 25 API RW ---@ --- F Chlorides --- ppm

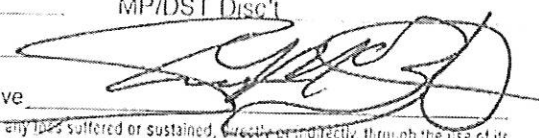
- (A) Initial Hydrostatic 2262
- (B) First Initial Flow 49
- (C) First Final Flow 72
- (D) Initial Shut-In 1224
- (E) Second Initial Flow 78
- (F) Second Final Flow 111
- (G) Final Shut-In 1177
- (H) Final Hydrostatic 2142

- Test 1250
- Jars 250
- Safety Joint 75
- Circ Sub N/E
- Hourly Standby
- Mileage 62 RT 96.10
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1671.10

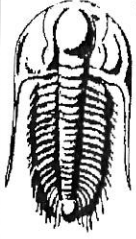
T-On Location 22:10  
 T-Started 22:45  
 T-Open 00:53  
 T-Pulled 04:53  
 T-Out 07:25

Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1671.10  
 MP/DST Disc't \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 60  
 Final Flow 60  
 Final Shut-In 90

Approved By \_\_\_\_\_ Our Representative 

Trilobite Testing Inc. shall not be liable for damaged or loss of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Landmark Resources Inc  
 1616 S Voss Rd Ste 600  
 Houston, TX 77057  
 ATTN: Terry Mcleod

**30-17s-36w Wichita,KS**

**Gerstberger #1-30**

Job Ticket: 52848

**DST#: 2**

Test Start: 2013.09.05 @ 13:40:14

## GENERAL INFORMATION:

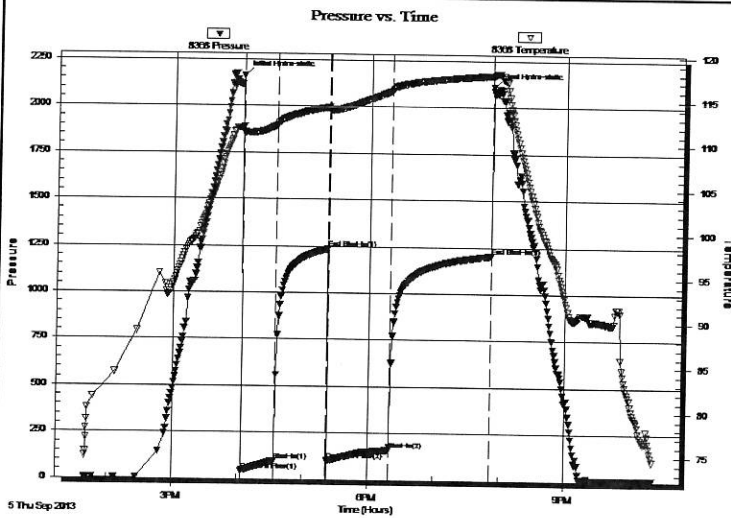
Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:03:39  
 Time Test Ended: 22:35:39  
 Test Type: Conventional Straddle (Reset)  
 Tester: Shane McBride  
 Unit No: 55  
 Interval: **4335.00 ft (KB) To 4410.00 ft (KB) (TVD)**  
 Total Depth: 4487.00 ft (KB) (TVD)  
 Reference Elevations: 3306.00 ft (KB)  
 3294.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 12.00 ft

## Serial #: 8368

**Outside**

Press@RunDepth: 159.29 psig @ 4336.00 ft (KB)  
 Start Date: 2013.09.05 End Date: 2013.09.05  
 Start Time: 13:40:14 End Time: 22:21:39  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.09.05  
 Time On Btm: 2013.09.05 @ 16:03:09  
 Time Off Btm: 2013.09.05 @ 19:52:39

TEST COMMENT: 4" blow  
 No return  
 5" blow  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2160.95	111.96	Initial Hydro-static
1	43.15	111.19	Open To Flow (1)
31	96.31	112.14	Shut-In(1)
79	1236.08	114.21	End Shut-In(1)
80	99.85	113.80	Open To Flow (2)
137	159.29	116.08	Shut-In(2)
229	1204.44	117.86	End Shut-In(2)
230	2109.90	117.86	Final Hydro-static

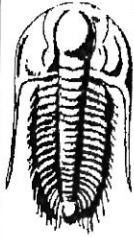
## Recovery

Length (ft)	Description	Volume (bbl)
270.00	s w c m 20%w 80%m	1.62

## Gas Rates

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

\* Recovery from multiple tests



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Landmark Resources Inc

30-17s-36w Wichita, KS

1616 S Voss Rd Ste 600  
Houston, TX 77057

Gerstberger #1-30

Job Ticket: 52848

DST#: 2

ATTN: Terry Mcleod

Test Start: 2013.09.05 @ 13:40:14

### GENERAL INFORMATION:

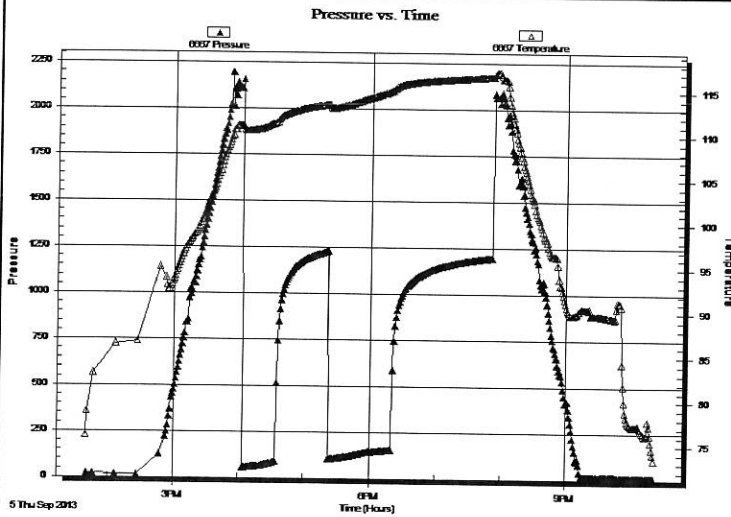
Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:03:39  
 Time Test Ended: 22:35:39  
 Interval: **4335.00 ft (KB) To 4410.00 ft (KB) (TVD)**  
 Total Depth: 4487.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3306.00 ft (KB)  
 3294.00 ft (CF)  
 KB to GR/CF: 12.00 ft

### Serial #: 6667

Inside

Press@RunDepth: psig @ 4336.00 ft (KB)  
 Start Date: 2013.09.05 End Date: 2013.09.05  
 Start Time: 13:40:16 End Time: 22:21:31  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.09.05  
 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 4" blow  
 No return  
 5" blow  
 No return



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

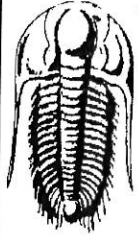
### Recovery

Length (ft)	Description	Volume (bbl)
270.00	s w c m 20%w 80%m	1.62

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Landmark Resources Inc

30-17s-36w Wichita,KS

1616 S Voss Rd Ste 600  
Houston, TX 77057

Gerstberger #1-30

Job Ticket: 52848

DST#: 2

ATTN: Terry McLeod

Test Start: 2013.09.05 @ 13:40:14

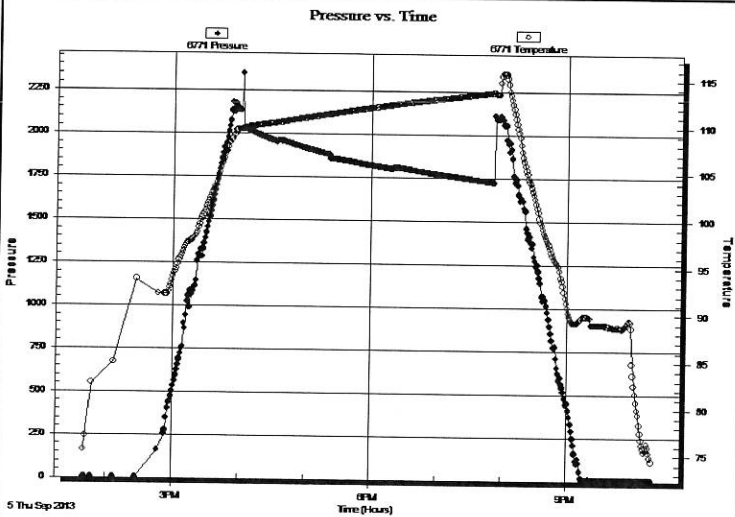
## GENERAL INFORMATION:

Formation: **Marmaton**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 16:03:39  
 Time Test Ended: 22:35:39  
 Interval: **4335.00 ft (KB) To 4410.00 ft (KB) (TVD)**  
 Total Depth: 4487.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Straddle (Reset)  
 Tester: Shane McBride  
 Unit No: 55  
 Reference Elevations: 3306.00 ft (KB)  
 3294.00 ft (CF)  
 KB to GR/CF: 12.00 ft

## Serial #: 6771 Below (Straddle)

Press@RunDepth: psig @ 4416.00 ft (KB)  
 Start Date: 2013.09.05 End Date: 2013.09.05  
 Start Time: 13:40:21 End Time: 22:18:36  
 Capacity: 8000.00 psig  
 Last Calib.: 2013.09.05  
 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 4" blow  
 No return  
 5" blow  
 No return



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

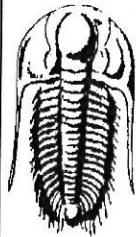
## Recovery

Length (ft)	Description	Volume (bbl)
270.00	s w c m 20%w 80%m	1.62

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Landmark Resources Inc

**30-17s-36w Wichita,KS**

1616 S Voss Rd Ste 600  
Houston, TX 77057

**Gerstberger #1-30**

ATTN: Terry Mcleod

Job Ticket: 52848

**DST#: 2**

Test Start: 2013.09.05 @ 13:40:14

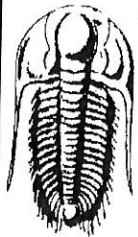
## Tool Information

Drill Pipe:	Length: 4097.00 ft	Diameter: 3.80 inches	Volume: 57.47 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 92000.00 lb
			<u>Total Volume: 58.64 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4335.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	4487.00 ft			
Interval between Packers:	152.00 ft			
Tool Length:	180.00 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			4308.00	
Shut In Tool	5.00			4313.00	
Hydraulic tool	5.00			4318.00	
Jars	5.00			4323.00	
Safety Joint	3.00			4326.00	
Packer	5.00			4331.00	28.00 Bottom Of Top Packer
Packer	4.00			4335.00	
Stubb	1.00			4336.00	
Recorder	0.00	6667	Inside	4336.00	
Recorder	0.00	8368	Outside	4336.00	
Perforations	31.00			4367.00	
Change Over Sub	1.00			4368.00	
Drill Pipe	32.00			4400.00	
Change Over Sub	1.00			4401.00	
Perforations	5.00			4406.00	
Blank Off Sub	1.00			4407.00	
top of s packer	3.00			4410.00	
Packer - Shale	0.00			4410.00	
Stubb	1.00			4411.00	
Anchor	5.00			4416.00	
Recorder	0.00	6771	Below	4416.00	
Change Over Sub	1.00			4417.00	
Drill Pipe	64.00			4481.00	
Change Over Sub	1.00			4482.00	
Bullnose	5.00			4487.00	152.00 Bottom Packers & Anchor

**Total Tool Length: 180.00**



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

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc

**30-17s-36w Wichita,KS**

1616 S Voss Rd Ste 600  
Houston, TX 77057

**Gerstberger #1-30**

Job Ticket: 52848

**DST#: 2**

ATTN: Terry Mcleod

Test Start: 2013.09.05 @ 13:40:14

## 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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.74 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
270.00	s w c m 20%w 80%m	1.619

Total Length: 270.00 ft      Total Volume: 1.619 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

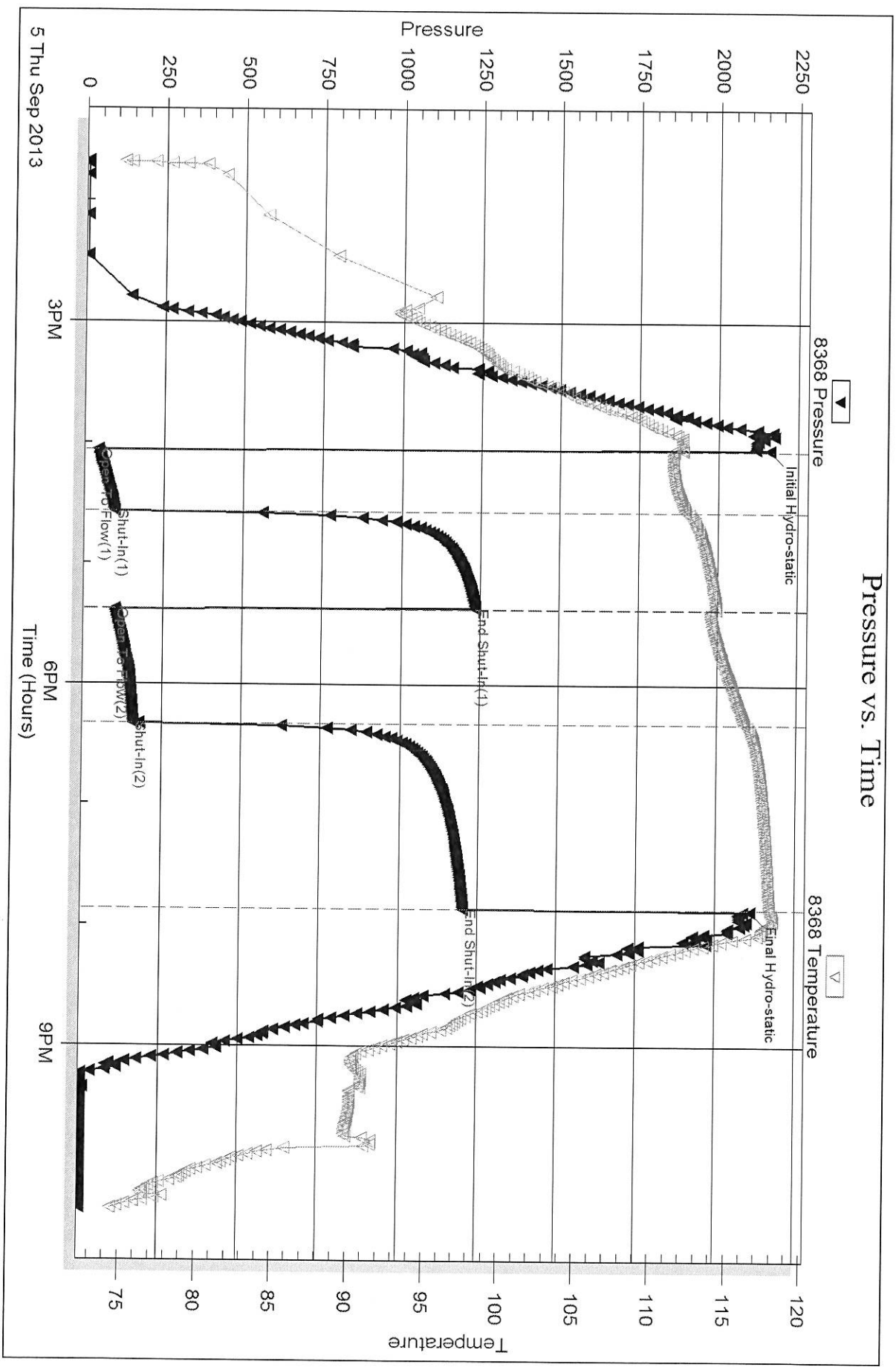
Recovery Comments: rw .247 @ 79\*f =25,000 chlor

Serial #: 8368

Outside Landmark Resources Inc

Gerstberger #1-30

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52848

Printed: 2013.09.10 @ 10:32:56

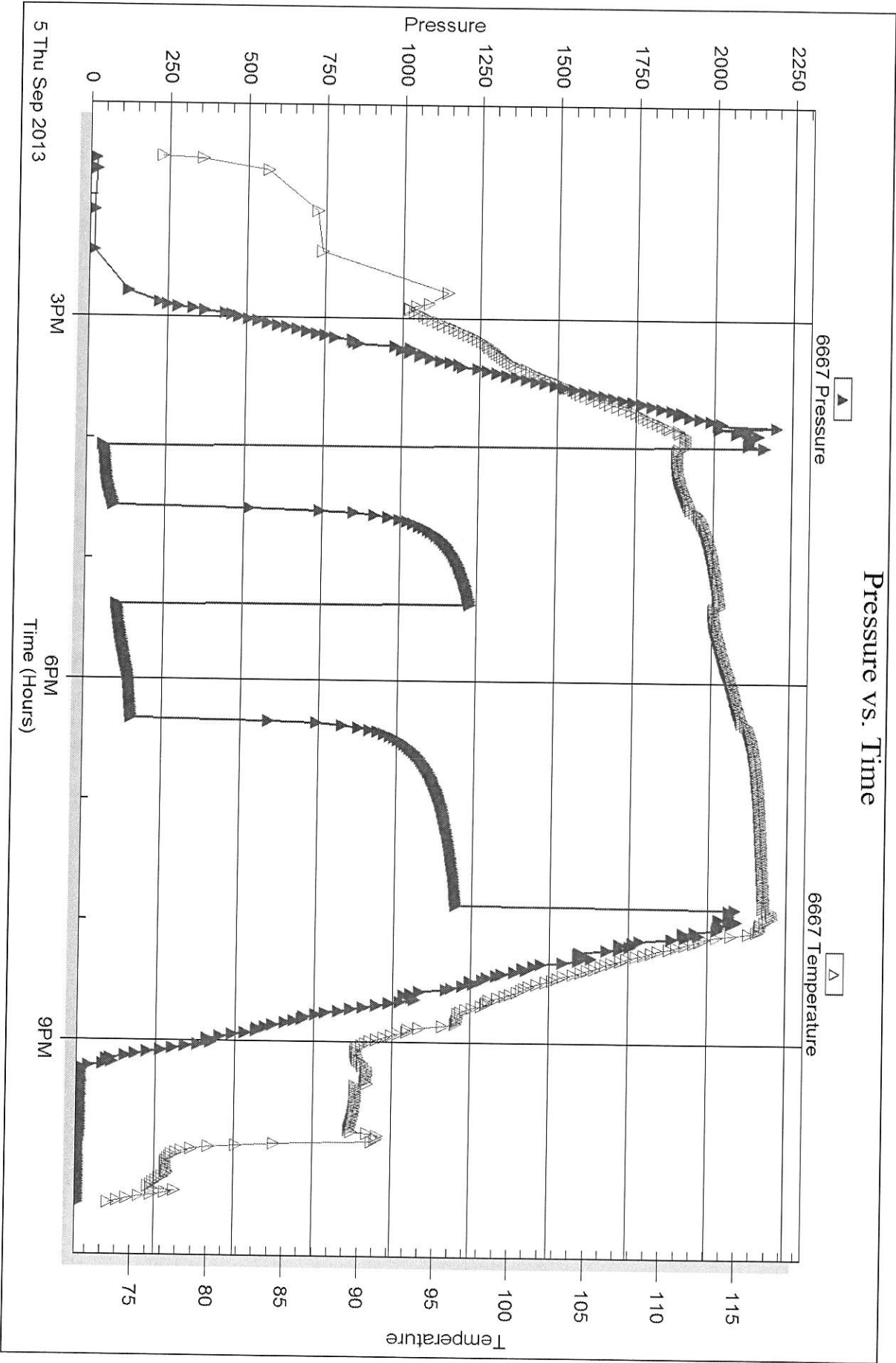
Serial #: 6667

Inside

Landmark Resources Inc

Gerstberger #1-30

DST Test Number: 2

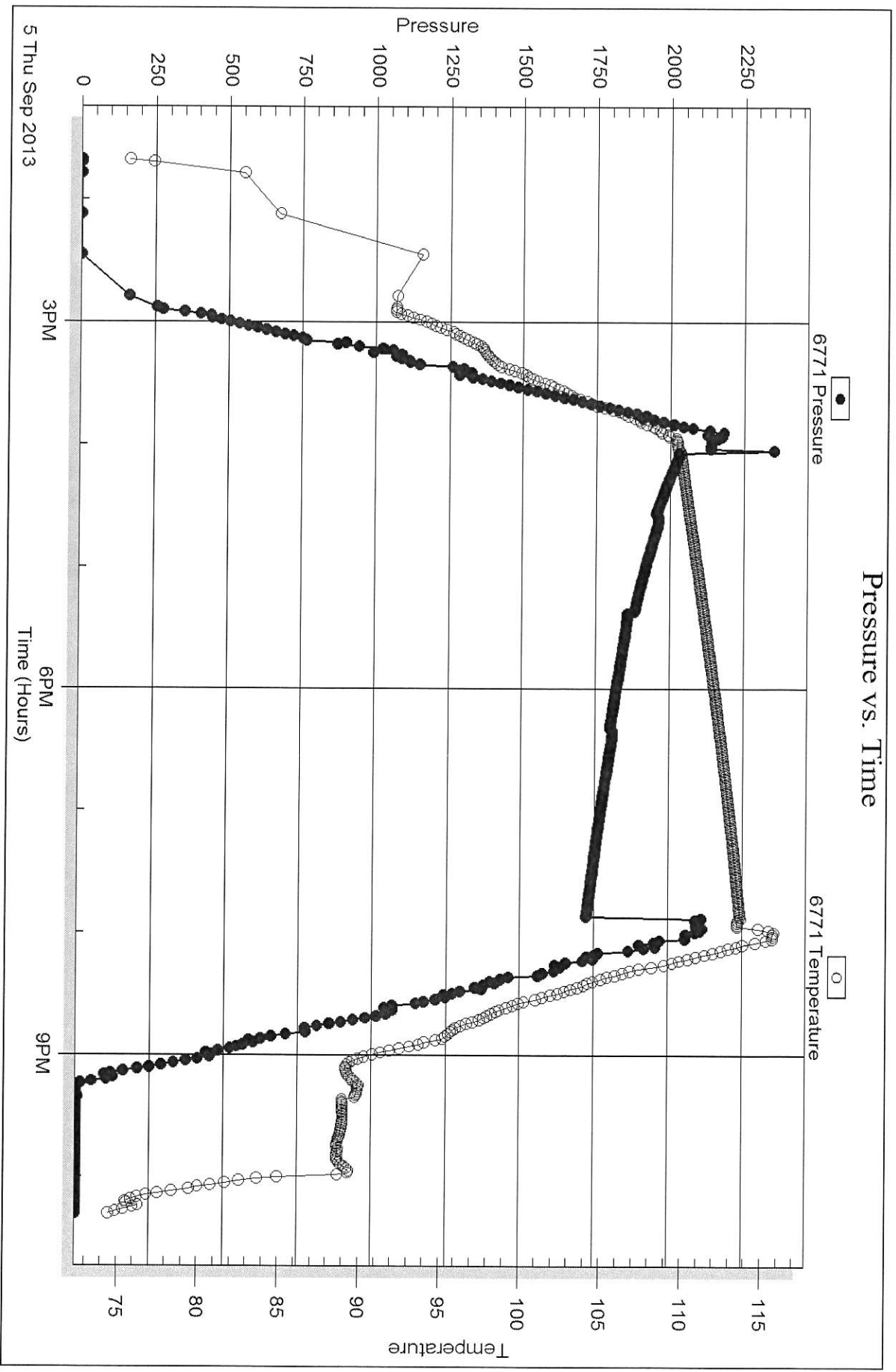


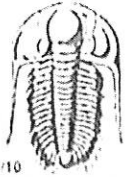
Trilobite Testing, Inc

Ref. No: 52848

Printed: 2013.09.10 @ 10:32:57







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 52848

Well Name & No. Gerstberger #1-30 Test No. #2 Date 9/5/13  
 Company Landmark Resources Inc Elevation 3306 KB 3294 GL  
 Address 1666 S. Voss Rd Ste 600, Houston, TX, 77057  
 Co. Rep / Geo. Terry McLeod Rig Mudwin #22  
 Location: Sec. 30 Twp. 17 Rge. 36 Co. Wichita State Ks

Interval Tested 4335 4410 Zone Tested Marmaton  
 Anchor Length 75 Drill Pipe Run 4097 Mud Wt. 9.4  
 Top Packer Depth 4330 Drill Collars Run 238 Vis 63  
 Bottom Packer Depth (4410) 4335 Wt. Pipe Run --- WL 8.8  
 Total Depth 4487 Chlorides 5000 ppm System LCM #4

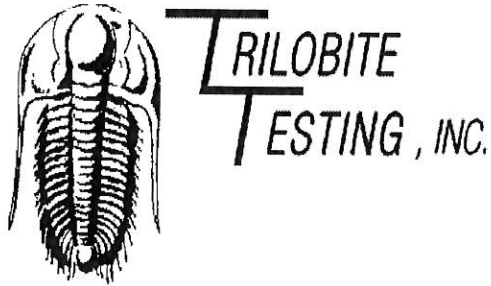
Blow Description 4" in blow  
No return  
5" in blow  
No return

Rec	Feet of	SW cm	w/o. spots	%gas	%oil	%water	%mud
270'					20	80	
Rec	Feet of			%gas	%oil	%water	%mud
Rec	Feet of			%gas	%oil	%water	%mud
Rec	Feet of			%gas	%oil	%water	%mud

Rec Total 270' BHT 118° Gravity --- API RW 247 @ 79° F Chlorides 25000 ppm  
 (A) Initial Hydrostatic 2160  Test 1250 T-On Location 13:20  
 (B) First Initial Flow 43  Jars 250 T-Started 13:40  
 (C) First Final Flow 96  Safety Joint 75 T-Open 16:05  
 (D) Initial Shut-In 1236  Circ Sub N/C T-Pulled 19:50  
 (E) Second Initial Flow 99  Hourly Standby T-Out 22:35  
 (F) Second Final Flow 159  Mileage 62 RT 96.10 Comments  
 (G) Final Shut-In 1204  Sampler  
 (H) Final Hydrostatic 2109  Straddle 600  Ruined Shale Packer  
 Shale Packer 250  Ruined Packer

Initial Open 30  Extra Packer  
 Initial Shut-In 45  Extra Recorder  
 Final Flow 60  Day Standby  
 Final Shut-In 90  Accessibility  
 Sub Total 2521.10 MP/DST Disc't

Approved By Terry McLeod Our Representative [Signature]  
 TriLOBITE Testing Inc. shall not be liable for or damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinions concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



## DRILL STEM TEST REPORT

Prepared For: **Landmark Resources Inc**

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Terry Mcleod

### **Gerstberger #1-30**

#### **30-17s-36w Wichita,KS**

Start Date: 2013.09.08 @ 13:28:00

End Date: 2013.09.08 @ 20:48:39

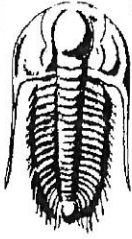
Job Ticket #: 53016                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.09.10 @ 10:31:48



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Landmark Resources Inc  
 1616 S Voss Rd Ste 600  
 Houston, TX 77057  
 ATTN: Terry Mcleod

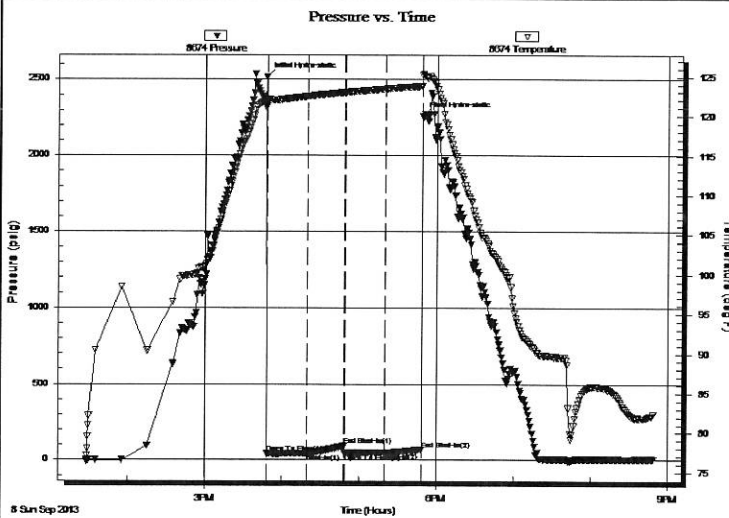
**30-17s-36w Wichita,KS**  
**Gerstberger #1-30**  
 Job Ticket: 53016      **DST#: 3**  
 Test Start: 2013.09.08 @ 13:28:00

## GENERAL INFORMATION:

Formation: **Morrow Sand**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:47:55  
 Time Test Ended: 20:48:39  
 Test Type: Conventional Straddle (Reset)  
 Tester: Will MacLean  
 Unit No: 58  
 Interval: **4724.00 ft (KB) To 4843.00 ft (KB) (TVD)**  
 Total Depth: 5000.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Reference Elevations: 3306.00 ft (KB)  
 3294.00 ft (CF)  
 KB to GR/CF: 12.00 ft

**Serial #: 8674      Inside**  
 Press@RunDepth: 47.71 psig @ 4725.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.09.08      End Date: 2013.09.08      Last Calib.: 2013.09.08  
 Start Time: 13:28:00      End Time: 20:48:39      Time On Btm: 2013.09.08 @ 15:47:25  
 Time Off Btm: 2013.09.08 @ 17:48:54

TEST COMMENT: IF- 1/2" Blow Died Back to a Weak Surface Blow  
 IS- No Blow  
 FF- No Blow  
 FS- No Blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2512.90	121.95	Initial Hydro-static
1	40.37	121.29	Open To Flow (1)
32	44.10	122.53	Shut-In(1)
61	93.76	123.02	End Shut-In(1)
61	45.11	123.01	Open To Flow (2)
93	47.71	123.48	Shut-In(2)
122	70.23	123.81	End Shut-In(2)
122	2260.46	125.18	Final Hydro-static

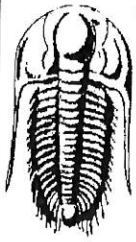
## Recovery

Length (ft)	Description	Volume (bbl)
15.00	WCM 4%w 96%m	0.07

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Landmark Resources Inc  
 1616 S Voss Rd Ste 600  
 Houston, TX 77057  
 ATTN: Terry McLeod

**30-17s-36w Wichita,KS**  
**Gerstberger #1-30**  
 Job Ticket: 53016      **DST#: 3**  
 Test Start: 2013.09.08 @ 13:28:00

**GENERAL INFORMATION:**

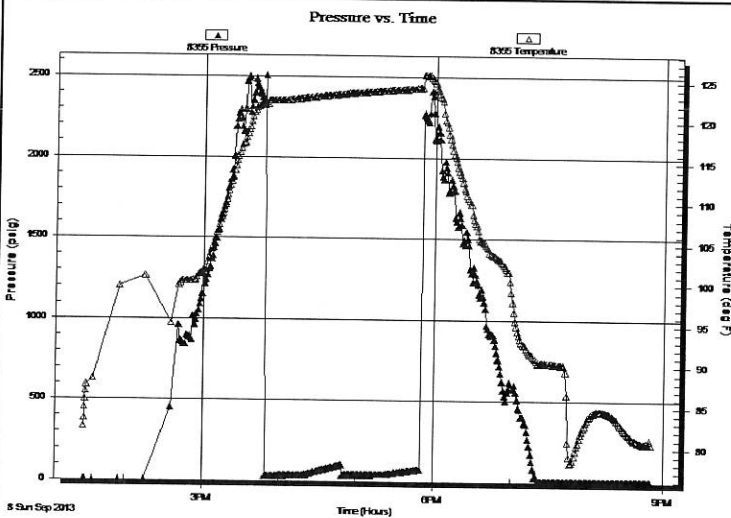
Formation: **Morrow Sand**  
 Deviated: No Whipstock:      ft (KB)  
 Time Tool Opened: 15:47:55  
 Time Test Ended: 20:48:39  
 Interval: **4724.00 ft (KB) To 4843.00 ft (KB) (TVD)**  
 Total Depth: 5000.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Straddle (Reset)  
 Tester: Will MacLean  
 Unit No: 58  
 Reference Elevations: 3306.00 ft (KB)  
                                      3294.00 ft (CF)  
                                      KB to GR/CF: 12.00 ft

**Serial #: 8355**

**Outside**

Press@RunDepth:      psig @ 4725.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2013.09.08      End Date: 2013.09.08      Last Calib.: 2013.09.08  
 Start Time: 13:28:05      End Time: 20:50:14      Time On Btm:  
    Time Off Btm:

**TEST COMMENT:** IF- 1/2" Blow Died Back to a Weak Surface Blow  
 IS- No Blow  
 FF- No Blow  
 FSI- No Blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

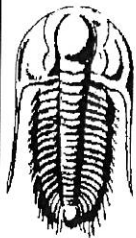
**Recovery**

Length (ft)	Description	Volume (bbl)
15.00	WCM 4%w 96%m	0.07

**Gas Rates**

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

\* Recovery from multiple tests



# TRILOBITE TESTING, INC

## DRILL STEM TEST REPORT

Landmark Resources Inc

1616 S Voss Rd Ste 600  
Houston, TX 77057

ATTN: Terry Mcleod

30-17s-36w Wichita,KS

Gerstberger #1-30

Job Ticket: 53016

DST#: 3

Test Start: 2013.09.08 @ 13:28:00

### GENERAL INFORMATION:

Formation: **Morrow Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:47:55

Time Test Ended: 20:48:39

Test Type: Conventional Straddle (Reset)

Tester: Will MacLean

Unit No: 58

Interval: **4724.00 ft (KB) To 4843.00 ft (KB) (TVD)**

Total Depth: 5000.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3306.00 ft (KB)

3294.00 ft (CF)

KB to GR/CF: 12.00 ft

**Serial #: 8672 Below (Straddle)**

Press@RunDepth: psig @ 4844.00 ft (KB)

Start Date: 2013.09.08

End Date:

2013.09.08

Start Time: 13:28:05

End Time:

20:49:59

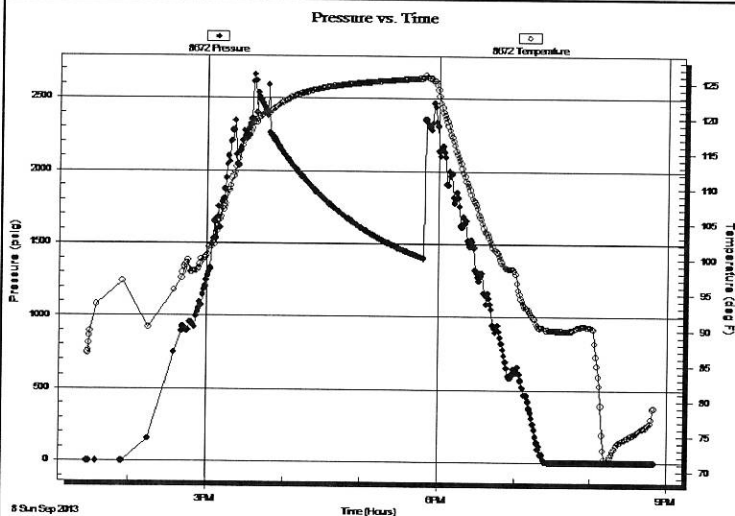
Capacity: 8000.00 psig

Last Calib.: 2013.09.08

Time On Btm:

Time Off Btm:

TEST COMMENT: IF- 1/2" Blow Died Back to a Weak Surface Blow  
IS- No Blow  
FF- No Blow  
FSI- No Blow



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

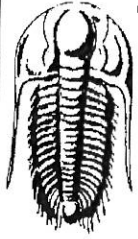
### Recovery

Length (ft)	Description	Volume (bbl)
15.00	WCM 4%w 96%m	0.07

### Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE**  
TESTING, INC.

# DRILL STEM TEST REPORT

TOOL DIAGRAM

Landmark Resources Inc

30-17s-36w Wichita,KS

1616 S Voss Rd Ste 600  
Houston, TX 77057

Gerstberger #1-30

Job Ticket: 53016

DST#: 3

ATTN: Terry Mcleod

Test Start: 2013.09.08 @ 13:28:00

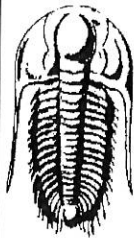
## Tool Information

Drill Pipe:	Length: 4478.00 ft	Diameter: 3.80 inches	Volume: 62.81 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 28000.00 lb
Drill Collar:	Length: 238.00 ft	Diameter: 2.25 inches	Volume: 1.17 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 63.98 bbl</u>	Tool Chased ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4724.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	4843.00 ft			
Interval between Packers:	119.00 ft			
Tool Length:	310.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4697.00	
Shut In Tool	5.00			4702.00	
Hydraulic tool	5.00			4707.00	
Jars	5.00			4712.00	
Safety Joint	3.00			4715.00	
Packer	5.00			4720.00	28.00 Bottom Of Top Packer
Packer	4.00			4724.00	
Stubb	1.00			4725.00	
Recorder	0.00	8355	Outside	4725.00	
Recorder	0.00	8674	Inside	4725.00	
Perforations	17.00			4742.00	
Change Over Sub	1.00			4743.00	
Drill Pipe	95.00			4838.00	
Change Over Sub	1.00			4839.00	
Blank Off Sub	1.00			4840.00	
Top of S Packer	3.00			4843.00	119.00 Tool Interval
Packer	0.00			4843.00	
Stubb	1.00			4844.00	
Recorder	0.00	8672	Below	4844.00	
Perforations	1.00			4845.00	
Change Over Sub	1.00			4846.00	
Drill Pipe	157.00			5003.00	
Change Over Sub	1.00			5004.00	
Bullnose	2.00			5006.00	163.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>310.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Landmark Resources Inc

**30-17s-36w Wichita,KS**

1616 S Voss Rd Ste 600  
Houston, TX 77057

**Gerstberger #1-30**

Job Ticket: 53016

**DST#: 3**

ATTN: Terry Mcleod

Test Start: 2013.09.08 @ 13:28:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.74 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	WCM 4%w 96%m	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



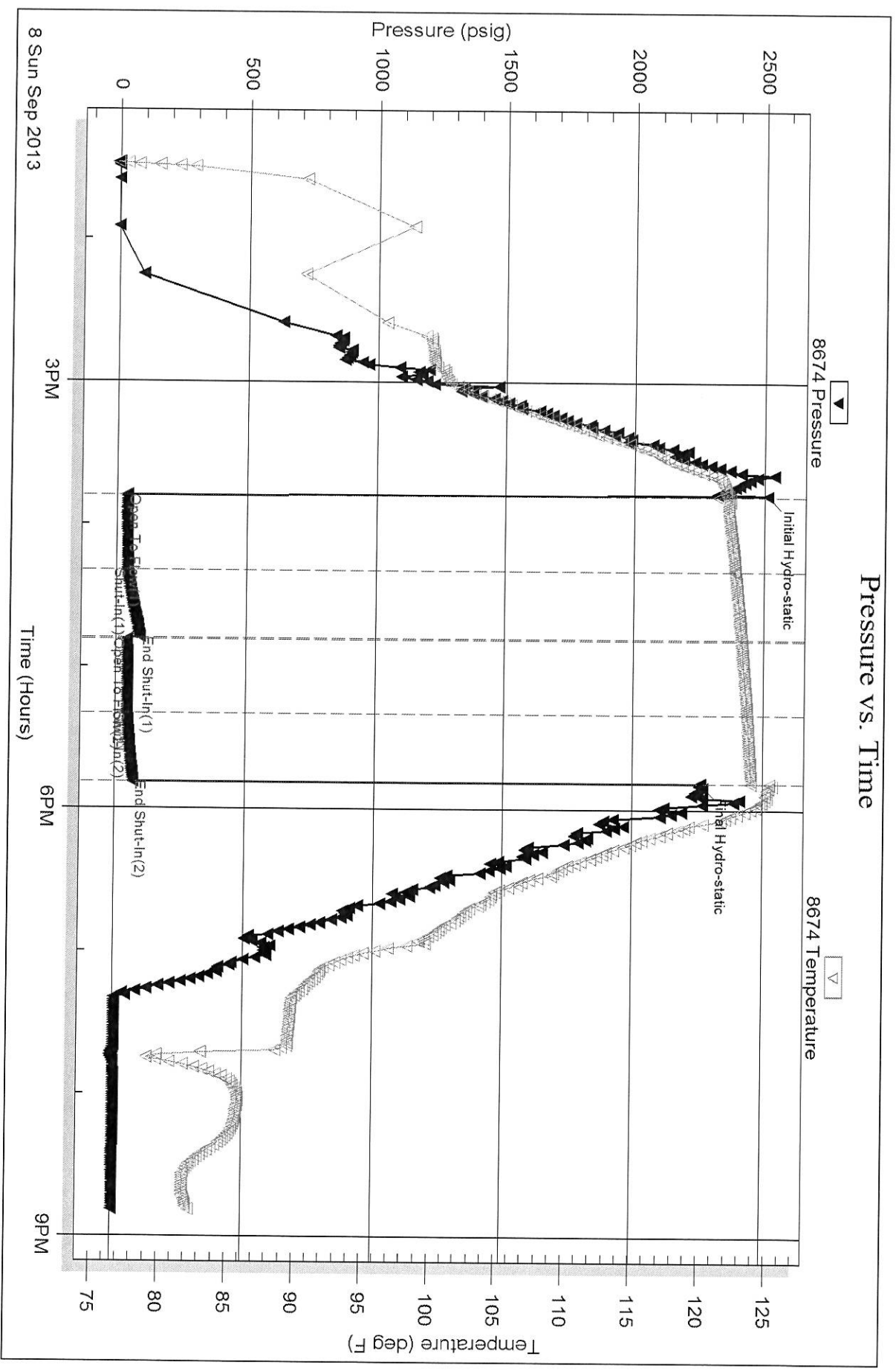
Serial #: 8674

Inside

Landmark Resources Inc

Gerstberger #1-30

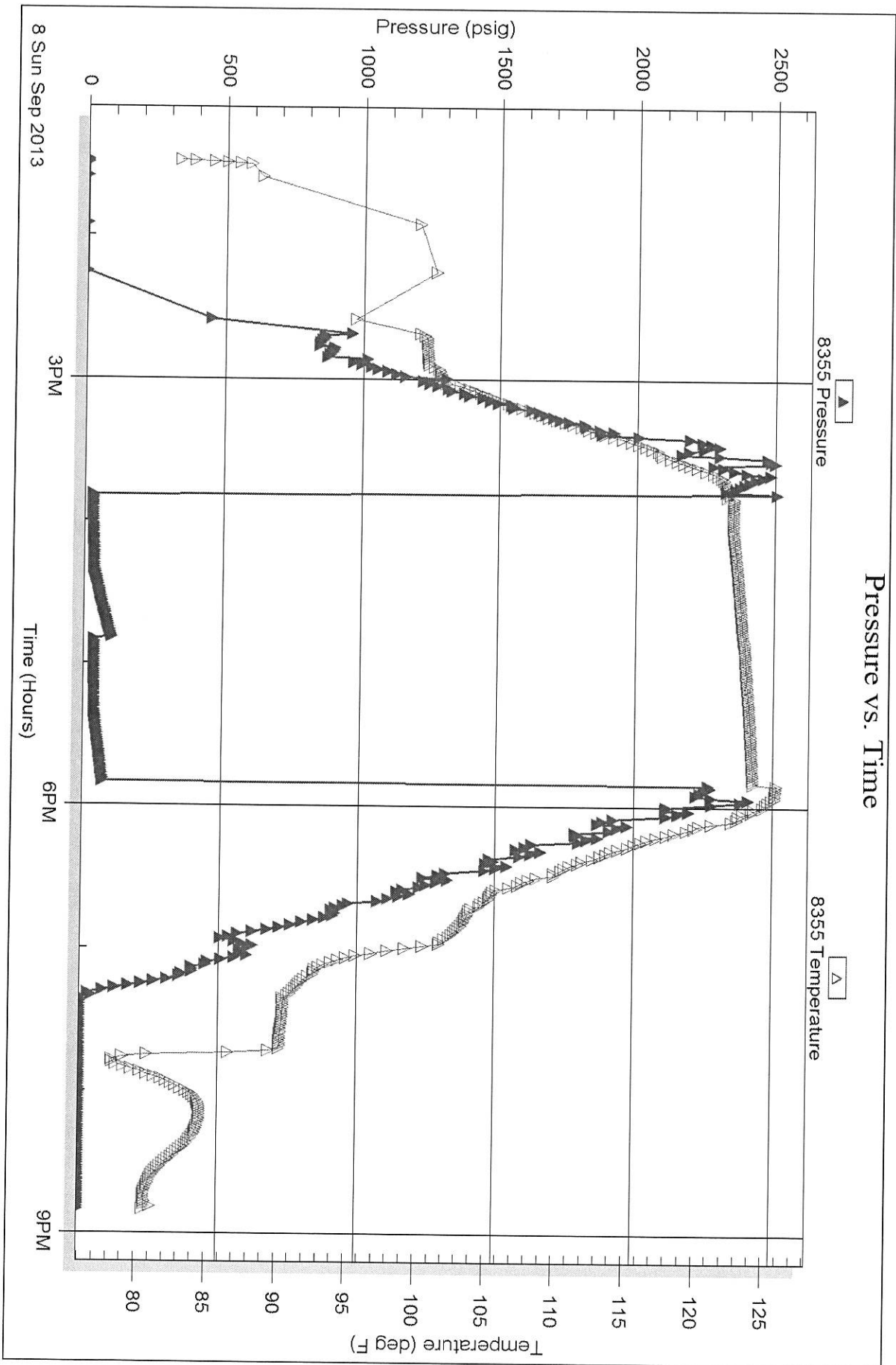
DST Test Number: 3

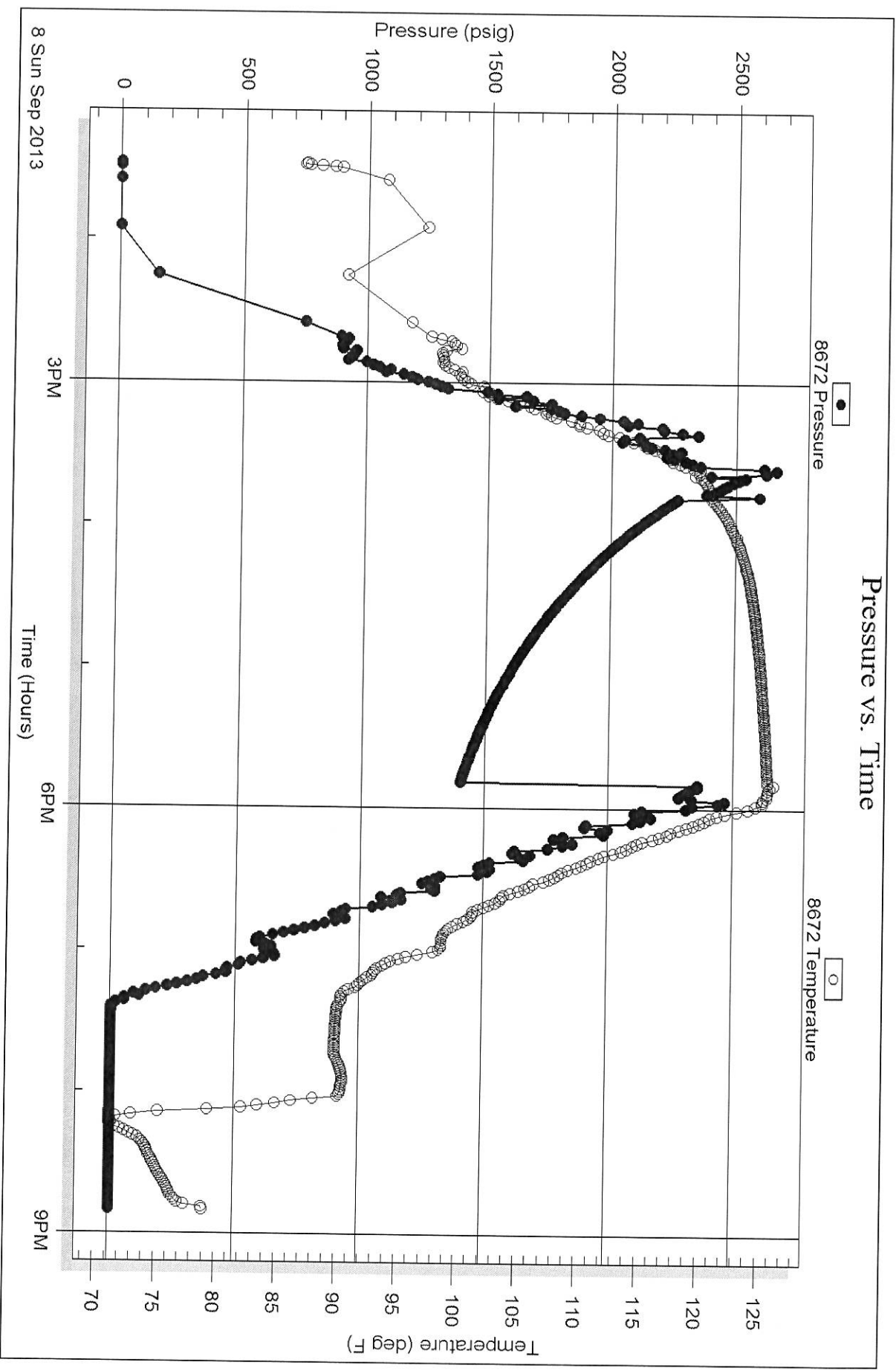


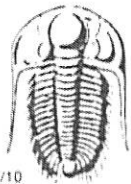
Triobite Testing, Inc

Ref. No: 53016

Printed: 2013.09.10 @ 10:31:50







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 53016

Well Name & No. Gerstberger #1-30 Test No. DST #3 Date 9-8-13  
 Company Landmark Resources Inc Elevation 3306 KB 3294 GL  
 Address 1616 S. Voss Rd Ste 600 Houston TX 77057  
 Co. Rep / Geo. Terry McLead Rig Martin Rig #22  
 Location: Sec. 30 Twp. 17 Rge. 36 Co. Wichita State KS

Interval Tested 4724-4843 Zone Tested Morrow Sand  
 Anchor Length 119 Drill Pipe Run 4478 Mud Wt. 9.5  
 Top Packer Depth 4724 Drill Collars Run 238 Vis 50  
 Bottom Packer Depth 4843 Wt. Pipe Run 0 WL 10.8  
 Total Depth 5000RTD 5006 LTD Chlorides 7000 ppm System LCM 416

Blow Description IF - 1/2 Blow Dried Back to a Weak Surface Blow  
IST - No Blow  
FF - No Blow  
FST - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>A WCM</u>			<u>4</u>	<u>96</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 122 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

- (A) Initial Hydrostatic 2512
- (B) First Initial Flow 40
- (C) First Final Flow 44
- (D) Initial Shut-In 93
- (E) Second Initial Flow 45
- (F) Second Final Flow 47
- (G) Final Shut-In 70
- (H) Final Hydrostatic 2260

- Test 1250
- Jars 250
- Safety Joint 75
- Circ Sub NIC
- Hourly Standby
- Mileage 66 R/T 96.10
- Sampler
- Straddle 600
- Shale Packer 250
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 2521.10

T-On Location 10:40  
 T-Started 13:28  
 T-Open 15:47  
 T-Pulled 17:48  
 T-Out 20:48

Comments \_\_\_\_\_  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 2521.10  
 MP/DST Disc't \_\_\_\_\_

Approved By Terry McLead

Our Representative Nick Man

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

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

December 03, 2013

Jeff Wood  
Landmark Resources, Inc.  
1616 S VOSS RD STE 600  
HOUSTON, TX 77057-2641

Re: ACO1  
API 15-203-20231-00-00  
Gerstberger 1-30  
NW/4 Sec.30-17S-36W  
Wichita 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,  
Jeff Wood