

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1349868  
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: \_\_\_\_\_

1349868

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. 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	L. D. Drilling, Inc.
Well Name	SHIELDS 1-5
Doc ID	1349868

Tops

Name	Top	Datum
ANHYDRITE	3204	+343
BASE ANHYDRITE	3244	+303
HEEBNER	4320	-773
LANSING	4375	-828
BASE KANSAS CITY	4657	-1110
PAWNEE	4781	-1234
FORT SCOTT	4842	-1295
CHEROKEE	4871	-1324
MISSISSIPPI	5104	-1557





**DIAMOND TESTING**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: SHIELDS1DST1

TIME ON: 18:44 2/23  
 TIME OFF: 03:24 2/24

Company LD Drilling, Inc. Lease & Well No. Shields #1-5  
 Contractor LD Drilling, Inc. Charge to LD Drilling, Inc.  
 Elevation 3547' KB Formation L/KC "H-K" Effective Pay \_\_\_\_\_ Ft. Ticket No. F469  
 Date 2/24/17 Sec. 5 Twp. \_\_\_\_\_ 6 S Range \_\_\_\_\_ 38 W County Sherman State KANSAS  
 Test Approved By Kim Shoemaker Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 4493 ft. to 4620 ft. Total Depth 4620 ft.  
 Packer Depth 4488 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 4493 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4499 ft. Recorder Number 5951 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 4500 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 53 (1# LCM) Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 9.4 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 4,000 P.P.M. Drill Pipe Length 4,465 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 28 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length 127 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 32' perf in anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Blow increased to 2.25". No blowback.  
 2nd Open: Blow increased to 1.75". No blowback.

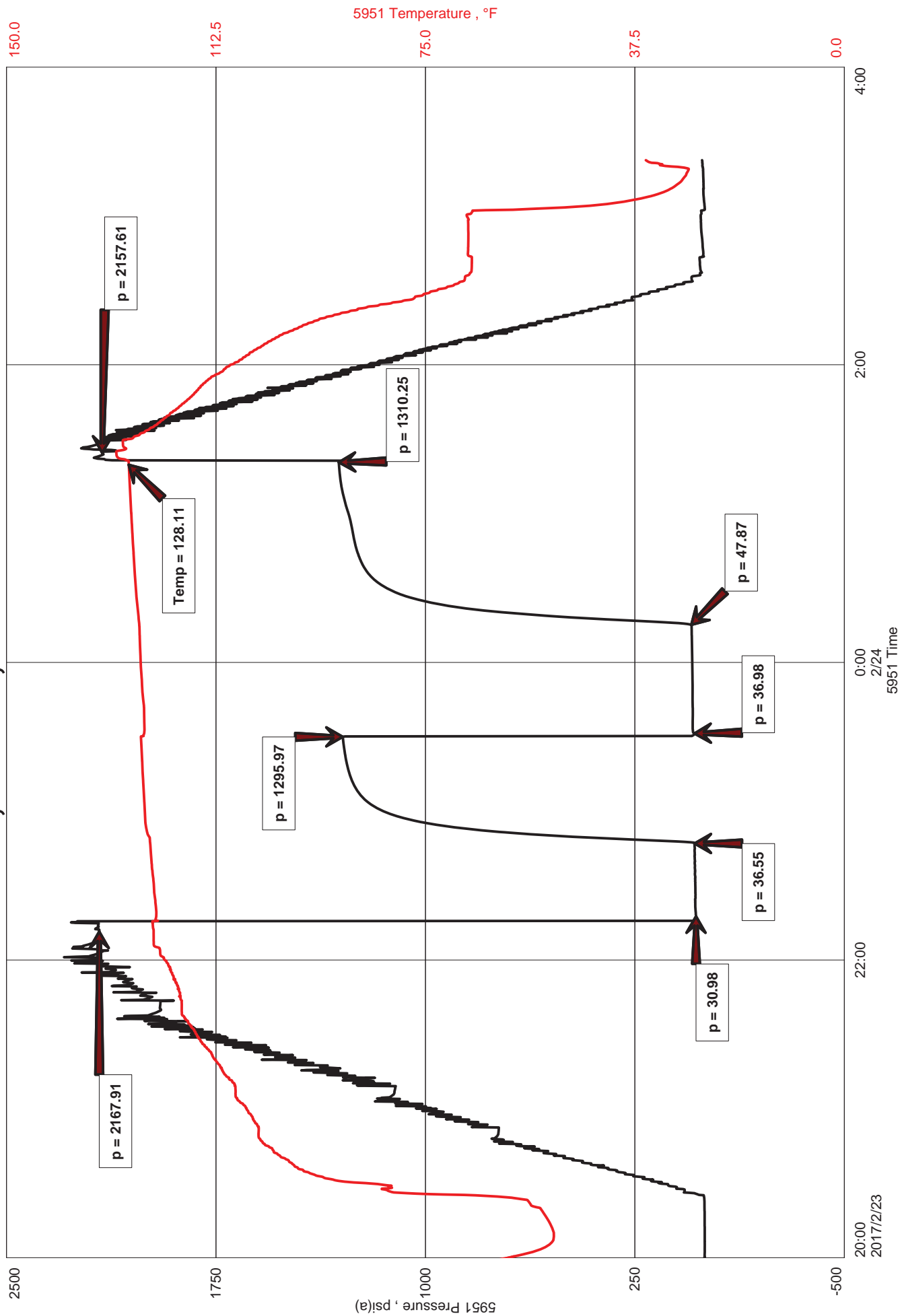
Recovered <u>50</u> ft. of <u>Drlg Mud</u>	<u>100% mud</u>
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) 10:15 PM A.M. P.M. Time Started Off Bottom 1:15 AM A.M. P.M. Maximum Temperature 128 F

Initial Hydrostatic Pressure..... (A) 2168 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 31 P.S.I. to (C) 37 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 1296 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 37 P.S.I. to (F) 48 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 1310 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2158 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

# SHIELDS #1-5, DST #1, L/KC "H-K" 4493'-4620'





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: SHIELDS1DST1

ON LOCATION:	<u>16:30</u>
START RECORDERS:	<u>18:44 2-23</u>
STOP RECORDERS:	<u>08:24 2-24</u>

Company LD Drilling Inc Lease & Well No. Shields #1-5  
Contractor LD Drilling Inc Charge to LD Drilling  
Elevation 3547' KB Formation L/KC "A-K" Effective Pay \_\_\_\_\_ Ft. Ticket No. F469  
Date 2-24-17 Sec. 5 Twp. 6S Range 38N County Sherman State KS  
Test Approved By Kim Shoemaker Diamond Representative JAKE FAHRENBRUCH

Formation Test No. 1 Interval Tested from 4493 ft. to 4620 ft. Total Depth 4620 ft.  
Packer Depth 4488 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4493 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4499 ft. Recorder Number 5957 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 4520 ft. Recorder Number 5586 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 53 (1"CCM) Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
Weight 9.4 Water Loss 9.6 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides 4200 P.P.M. Drill Pipe Length 4465 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number #5 JJS Test Tool Length 28 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Anchor Length 127 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 x 4 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Blow increased to 2 1/4". No blowback.  
2nd Open: Blow increased to 1 3/4". No blowback.

Recovered 50 ft. of Drilling Mud 100% mud  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	<u>JJS Int.</u>
	<u>436 MRT (HOES)</u>
	Total

Time Set Packer(s) 10:15 A.M. Time Started Off Bottom 1:15 A.M. Maximum Temperature 128°F

Initial Hydrostatic Pressure..... (A) 2168 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 31 P.S.I. to (C) 37 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1296 P.S.I.  
Final Flow Period..... Minutes 45 (E) 37 P.S.I. to (F) 48 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1310 P.S.I.  
Final Hydrostatic Pressure..... (H) 2158 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

# DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

Cell: (620) 282-8977 / Office: (800) 542-7313



## TEST INFORMATION

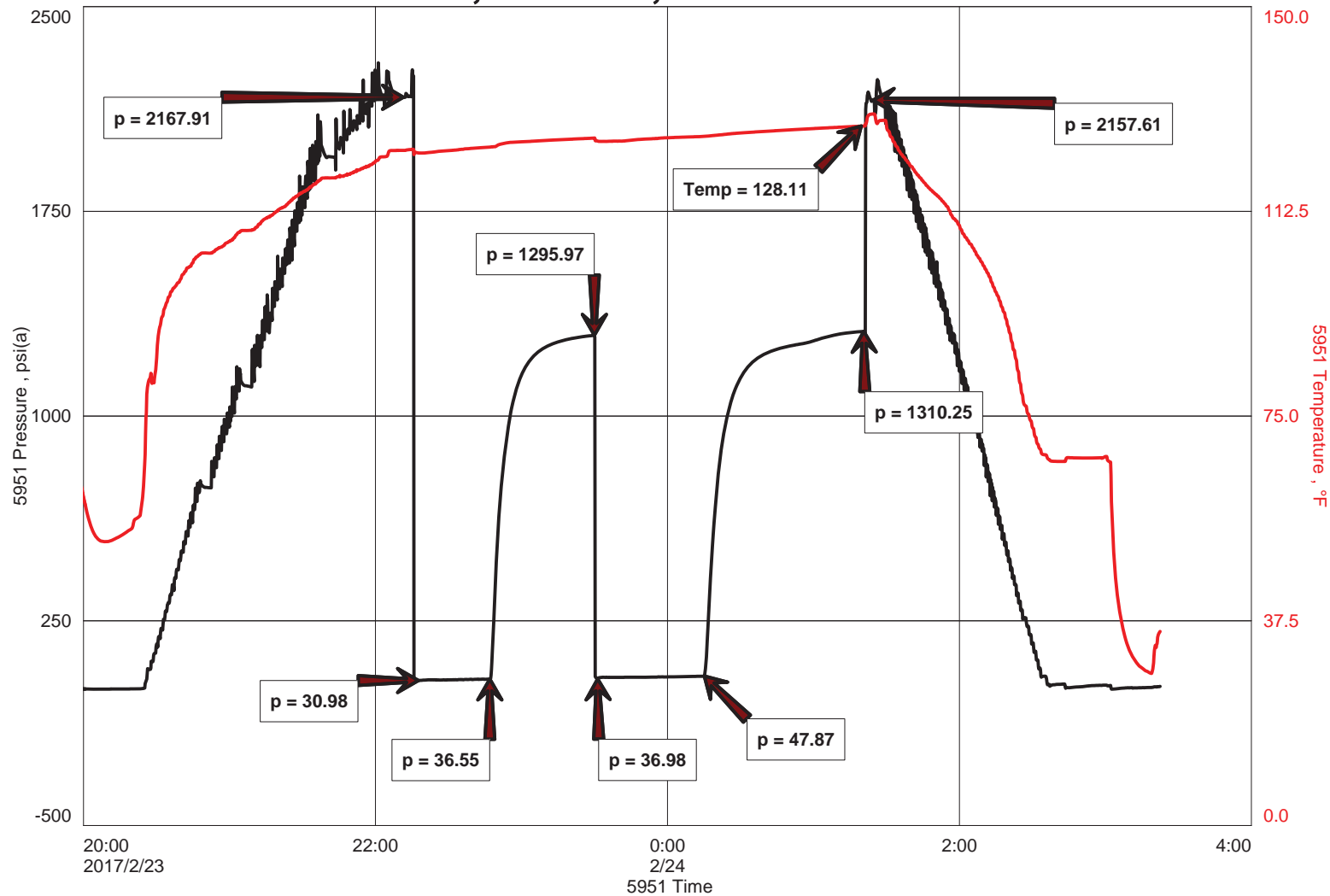
<b>Well Name</b>	Shields #1-5
<b>Company Name</b>	LD Drilling, Inc.
<b>Formation</b>	DST #1, L/KC "H-K" 4493'-4620'
<b>Test Type</b>	Bottom-Hole w/Jars & Safety Joint
<b>Surface Location</b>	Sec 5-6s-38w-Sherman Co.-KS
<b>KB Elevation (SL)</b>	3547.000
<b>Gauge Name</b>	5951
<b>Start Test Date</b>	2017/02/23
<b>Start Test Time</b>	18:44:00
<b>Final Test Date</b>	2017/02/24
<b>Final Test Time</b>	03:24:00
<b>Job Number</b>	F469
<b>Contact</b>	Marilyn Davis
<b>Site Contact</b>	Kim Shoemaker

## TEST RESULTS

Initial flow, blow increased to 2.25". No blowback.  
Final flow, blow increased to 1.75". No blowback.

Recovered 50' of drilling mud, 100% mud.

## SHIELDS #1-5, DST #1, L/KC "H-K" 4493'-4620'





# KIM B. SHOEMAKER

## CONSULTING GEOLOGIST

316-684-9709 \* WICHITA, KS

### GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.  
LEASE # 1-5 SHIELDS  
FIELD WILDCAT  
LOCATION 1298' FNL & 1825 FEL  
SEC 5 TWP 6s RGE 38w  
COUNTY SHERMAN STATE KANSAS  
OPERATOR L. D. DRILLING, INC.  
SPW 2-16-17 COMP 2-27-17  
WID 5164 LTD 5163  
MUD UP 3567 TYPE MUD CHEMICAL

ELEVATIONS  
KB 3547  
DF  
GL 3542  
Measurements Are All From 3547 KB  
CASING  
SURFACE 8 5/8" @ 445'  
PRODUCTION  
ELECTRICAL SURVEYS  
Dual Ind, DENS-N, MICRO

SAMPLES SAVED FROM 3980 TO 5164  
DRILLING TIME KEPT FROM 3900 TO 5164  
SAMPLES EXAMINED FROM 3980 TO 5164  
GEOLOGICAL SUPERVISION FROM 4100 TO 5164  
GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	3204-343	3208+339
B/ANN.	3244+303	3247+300
HEEBNER	4320-773	4323-776
LANSING	4375-828	4376-829
B/KC	4657-1110	4662-1115
PAYNEE	4781-1234	4778-1231
FORT SCOT	4842-1295	4843-1296
CHEROKEE	4871-1324	4871-1327
MISSISSIPPI	5104-1557	5102-1555

5

API: 15-181-20606

REMARKS:  
2-16-17-5900  
2-17 @ 446'  
2-18 @ 1795'  
2-19 @ 2683'  
2-20 @ 3315'  
2-21 @ 3896'  
2-22 @ 4317'  
2-23 @ 4550'  
2-24 @ 4620'  
2-25 @ 4785'  
2-26 @ 4984'  
2-27 @ 5164'

#### LEGEND

- Anhydrite
- B/ANN.
- Heebner
- Lansing
- B/KC
- Payne
- Fort Scott
- Cherokee
- Mississippi
- Dolomite
- Flint
- Cut-Lima
- Unconsol.
- Sand at
- Shale
- Sandstone
- Soil
- Sandstone

DRILLING TIME IN MINUTES  
PER FOOT  
Rate of Penetration Increases

DEPTH  
3150  
3200

REMARKS

SAMPLE DESCRIPTIONS

ANHYDRITE 3208+339

B/ANN. 3247+300

3300

3900

4000

4100

Vis: 60  
WT: 8.8  
WL: 64  
CHL: 1400

Samples are Logged

Sh. Lt Blue

15... To... V.Si. Foss. X. Foss. S.S.

Sh. Rd.

15. To G. Sli. Foss

Sh. Rd. Silty Silty

15. G. Sli. Foss.

Sh. G.

15. To Lt. Bl. V.Si. Foss. V.Si. A

Sh. Rd.

15. Bl. V.Si. Foss.

Sh. Rd.

15. To G. Sli. Foss. Sli. Gravelly

Sh. Rd.

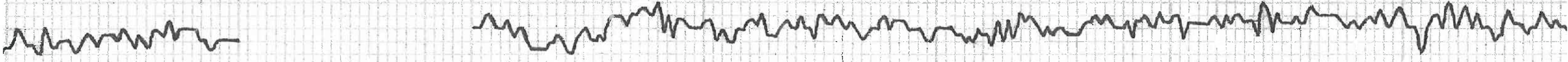
15. To Lt. Bl. Sli. Foss. V.Si. Chalky

15. To Lt. Foss. Foss.

Sh. Rd.

15. To Lt. Foss. Sli. A

15. To Lt. Sli. Foss. Sli. Chalky



Sh. Bl.

LS. To Yellow VSI Foss.

LS. To G. St. Foss.

Sh. Rd.

LS. To LG. VSI Chly.

LS. To Red Foss. od. Colentic

LS. wt. VSI Foss. St. Chly.

LS. wt. Foss. Colentic

Sh. Red. Blk.

LS. To LG. VSI Foss.

Sh. LG. Blue.

Sh. Sdy sh. To G. St. Foss. od. Colentic

LS. Rd. St. Foss.

Sh. Red. Blk.

Sh. Rd. LG.

LS. To wt. VSI Chly. Etc.

LS. VSI Chly. St. Foss.

HEBNER 4323-776

Sh. Red. Blk.

Sh. Blk. LG.

Sh. Sdy sh. To G. St. Foss. od. Colentic

Sh. Red. Blk.

TORONTO

LS. wt. Foss. VSI Chly. Etc. od. Colentic

Sh. Rd. St.

LANSING 4376-829

LS. wt. Sh. Red. Blk. VSI Chly.

LS. wt. St. Foss. St. Chly. Etc. od. Colentic

Sh. Rd.

Sh. Red. Blk.

LS. wt. Foss. od. Colentic VSI Chly. Etc. od. Colentic

Sh. Red. Blk. No Layer. VSI Chly. Etc. od. Colentic

Sh. LG. Blue.

LS. wt. LG. Blue. St. Foss. St. Chly. Etc. od. Colentic

LS. Sh. Rd. St.

Sh. LG. Blue.

Sh. Rd. St. Chly. Etc. od. Colentic

LS. wt. LG. Blue. St. Foss. St. Chly. Etc. od. Colentic

4200

4300

4400

V206 VIS: 59

V15: 91

WL: 8.0

CA: 7000

45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

MUNCIE CREEK 4496-949

sh. blue clay

sh. blue clay

45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

sh. blue clay

DST (1) 4493-4620

PROBLY: Blow built to 2 1/4"

2nd REC: " " " 1-3/4"

30.45.45-60

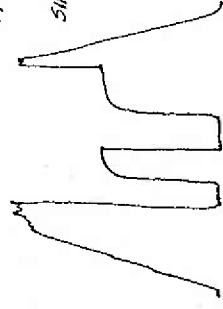
Rec. 50' Mid

FP: 37-37

37-48"

SIP: 1236-1370

Temp. 120°F



45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

sh. blue clay

sh. blue clay

45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

sh. blue clay

4593-1096

sh. blue clay

45. wt 8.94. sh. fossils sh. a

sh. blue clay

sh. blue clay

45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

sh. blue clay

4662-1115

45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

sh. blue clay

ALTAMONT

45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

sh. blue clay

45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

sh. blue clay

sh. blue clay

4778-1231

45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

45. wt 8.94. sh. fossils sh. a

V LOG

VIS: 53  
WT: 9.4  
ML: 9.6  
CAL: 4000

V LOG

VIS: 52  
WT: 9.4  
ML: 8.0  
CAL: 4200

V LOG

V LOG

VIS: 57  
WT: 9.2  
ML: 7.2  
CAL: 3500

4500

4600

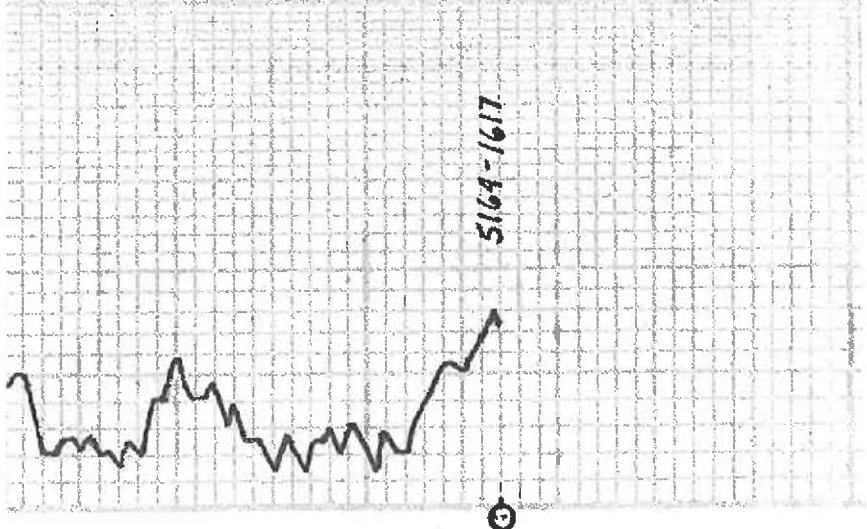
4700

4800

MARMIATON



Pol. ul. (Fash) Soc. ul. - Pol. ul.  
45. ul. Fash. SIA Colenti  
Pol. ul. Fash. Soc. NBL Claucaotic  
Pol. ul. V Fash Soc.  
45. Yellow. SIA Soc. SIA SIA Colenti



Handwritten notes or scribbles at the bottom of the page.



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 09987 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 2-28-17	DISTRICT: 1718	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER: L.D. Drlg Inc	LEASE: Shields 1-5	WELL NO.:							
ADDRESS:	COUNTY: Sherman	STATE: KS							
CITY:	STATE:	SERVICE CREW: 1718							
AUTHORIZED BY:	JOB TYPE: 242 New Well PTA								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
38119 19570	3						2-27	PM	12:00
90897 19598	3						2-27	PM	2:30
							2-28	PM	
							2-28	PM	
							2-28	PM	
							2-28	PM	
							2-28	PM	
									160

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Mark Davis By D. Scott  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60-40 202		240sk		2880 -
CC200	Cement Gel		414 lbs		103 50
CC102	celloflake		60 lbs		222 -
CF153	wooden Plug 8 5/8		1 EG		160 -
E100	Pickup mileage 1way 1EG		100 mi		450 -
E101	Heavy Trk mileage 1way 2EG		200 mi		1500 -
E113	Propan Charge		1035 gal/m		2587 50
CE204	Pump Charge 3001-4000'		1 EG		2160 -
CE240	Blending & Mixing Charge		240sk		336 -
5003	Service Supervisor		1 EG		175 -

CHEMICAL / ACID DATA:			

	SUB TOTAL		
	Total	10,574	-
SERVICE & EQUIPMENT	%TAX ON \$		
MATERIALS	%TAX ON \$		
	TOTAL	5498	48
	Discounted Price		

SERVICE REPRESENTATIVE: D Scott  
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Mark Davis By D. Scott  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer <i>L.D. Dalg Inc</i>	Lease No.	Date <i>2-28-17</i>
Lease <i>Shields</i>	Well # <i>1-5</i>	
Field Order # <i>09987</i>	Station	Casing <i>898</i>
Type Job <i>PTA NW</i>	Formation	Depth <i>410</i>
		County <i>Sherman</i>
		State <i>KS</i>
		Legal Description <i>7-6-38</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>3 1/2</i>	<i>4 1/2</i>			<i>240 sk 60-40 ppg</i>				
Depth <i>410'</i>	Depth <i>3230</i>	From	To	Pre Pad <i>1.43 ft<sup>3</sup> 13.7 ppg</i>	Max	<i>500</i>		5 Min.
Volume	Volume <i>21.4</i>	From	To	Pad	Min			10 Min.
Max Press	Max Press	From	To	Frac	Avg			15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush <i>111 gal</i>	Gas Volume			Total Load

Customer Representative <i>Rick Wilson</i>	Station Manager <i>D Scott</i>	Treater <i>D Scott</i>
Service Units <i>1/4p</i>	<i>38119 19570 70897 19578</i>	
Driver Names <i>Scott C Hinz C Santos</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1700</i>					<i>Called Out</i>
<i>2230</i>					<i>On loc w/ Trks Safety Mtg</i>
<i>2410</i>		<i>300</i>	<i>15</i>	<i>4</i>	<i>1st Plug @ 3230 H2O Spacer</i>
<i>2413</i>		<i>300</i>	<i>12.7</i>	<i>4</i>	<i>mix 50 sk @ 13.7 ppg</i>
<i>2416</i>		<i>300</i>	<i>5</i>	<i>4</i>	<i>H2O Spacer</i>
<i>2418</i>		<i>200</i>	<i>37.4</i>	<i>8</i>	<i>Balance + Disp amt w/ mud</i>
<i>0120</i>		<i>200</i>	<i>15</i>	<i>4</i>	<i>2nd Plug @ 2300' H2O Spacer</i>
<i>0124</i>		<i>200</i>	<i>25.4</i>	<i>4</i>	<i>mix 100 sk @ 13.8 ppg</i>
<i>0130</i>		<i>200</i>	<i>5</i>	<i>4</i>	<i>H2O Spacer</i>
<i>0135</i>		<i>200</i>	<i>24.2</i>	<i>8</i>	<i>Balance + Disp amt w/ mud</i>
<i>0320</i>		<i>100</i>	<i>15</i>	<i>4</i>	<i>3rd Plug @ 495' H2O Spacer</i>
<i>0324</i>		<i>100</i>	<i>12.7</i>	<i>4</i>	<i>mix + Pump 50 sk @ 13.7 ppg</i>
<i>0327</i>		<i>100</i>	<i>3.7</i>	<i>4</i>	<i>Balance + Disp amt</i>
					<i>Solid Plug @ 40' w/ wooden Plug</i>
<i>0510</i>			<i>2.5</i>	<i>2</i>	<i>10 sk. amt</i>
<i>0515</i>			<i>7.6</i>	<i>2</i>	<i>30 sks R.H.</i>
					<i>Pumped 240 sk Total</i>
					<i>4% Gel 1/4 Cellflake</i>
					<i>Job Complete</i>
					<i>Thank you Scotty</i>





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 14870 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB	DISTRICT <b>Pratt</b>	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:		
CUSTOMER <b>LD Drilling inc</b>	LEASE <b>Shields</b>		WELL NO. <b>1-5</b>						
ADDRESS	COUNTY <b>Sherman</b>	STATE <b>KS</b>							
CITY	STATE	SERVICE CREW <b>MATTAL, EARNEST, HANSON</b>							
AUTHORIZED BY	JOB TYPE: <b>2-42 8 5/8 SURFACE</b>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
<b>27463</b>	<b>1</b>						<b>2-16-97</b>	<b>AM</b>	<b>3:00</b>
						ARRIVED AT JOB		<b>PM</b>	<b>9:50</b>
<b>21010</b>	<b>.5</b>					START OPERATION	<b>2-17-97</b>	<b>PM</b>	<b>1:17</b>
						FINISH OPERATION		<b>PM</b>	<b>1:50</b>
						RELEASED		<b>AM</b>	<b>2:30</b>
						MILES FROM STATION TO WELL		<b>PM</b>	<b>100</b>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

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SIGNED: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 103	60/40 P22	SK	375		4,500 00
CC 109	Calcium Chloride	lb	969		1,017 45
CC 102	Cellofloc	lb	94		347 80
C 153	Wooden Plug 8 5/8	EA	1		160 00
E 100	P.H. miles	Mi	100		450 00
E 101	heavy eq miles	Mi	200		1,500 00
E 113	PROP + bulk del.	TR	1615		4,037 50
CE 200	Depth charge 0-500'	4W	1		1,000 00
CE 240	Blend + mix charge	SK	375		525 00
5003	Supervisor	EA	1		175 00
CE 504	Plug container	500	1		250 00

SUB TOTAL **13,962 75**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		<b>7,260 63</b>

SERVICE REPRESENTATIVE <b>Mike Mattal</b>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY <i>[Signature]</i> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer <b>LD Drilling</b>	Lease No.	Date <b>2-17-17</b>
Lease <b>Sheilds</b>	Well # <b>1-5</b>	
Field Order # <b>14870</b>	Station <b>Pratt</b>	Casing <b>8 7/8</b> Depth <b>448</b>
Type Job <b>Z 42 SURFACE PIPE 8 7/8</b>	Formation	County <b>Sherman</b> State <b>KS</b>
		Legal Description <b>5-6-38</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size <b>8 7/8</b>	Tubing Size	Shots/Ft		Acid <b>375 SKS 60/40 POZ</b>	RATE	PRESS	ISIP
Depth <b>445.5</b>	Depth	From	To	Pre Pad <b>3% cc 2% bentonite</b>			5 Min.
Volume <b>28.3</b>	Volume	From	To	Pad	Min		10 Min.
Max Press <b>500</b>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <b>PR</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth <b>425.5</b>	Packer Depth	From	To	Flush <b>27</b>	Gas Volume		Total Load

Customer Representative <b>MARK DAVIS</b>	Station Manager <b>DAVID SCOTT</b>	Treater <b>MIKE MATTAL</b>
Service Units <b>37586</b>	<b>27463</b>	<b>19959 21010</b>
Driver Names <b>MATTAL</b>	<b>EARNST</b>	<b>HANSON</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:50 AM					ON LOCATION / Safety Meeting
10:50					Run 8 7/8 24# CSNG
12:50					CSNG ON BOTTOM
1:05					HOOK TO CSNG / BREAK CIRC W. R.O.Y
1:17	100		3	5	PUMP 3 bbls water
1:19	100		81	5	MIX 375 SKS 60/40 POZ
1:37					RELEASE PLUG
1:40	150			5	START DISPLACEMENT
1:50	250		27		PLUG DOWN, SHUT IN WELL
					10 bbls slurry TO PIT
					JOB COMPLETE
					THANK YOU!
					MIKE MATTAL
					SHAWN + JOSH