



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1221494  
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: \_\_\_\_\_

1221494

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
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:				

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> <i>(Submit ACO-4)</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	BARROW PROPERTIES, LC 2
Doc ID	1221494

Tops

Name	Top	Datum
ANHYDRITE	643	+1170
BASE ANHYDRITE	669	+1144
ELMONT	2640	-827
TOPEKA	2676	-863
HEEBNER	2981	-1168
BROWN LIME	3088	-1275
LANSING	3100	-1287
MUNCIE CREEK SHALE	3234	-1421
BASE KANSAS CITY	3346	-1533
ARBUCKLE	3366	-1553



**WESLEY D. HANSEN Consulting Petroleum Geologist**

212 N. Market, Suite 257, Wichita, KS 67202  
Office: 316-267-7313 Cellular ; 316-772-6188

**KGS  
AAPG  
Kansas License #418**

## **LITHOLOGY STRIP LOG**

### **WellSight Systems**

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: L.D. Drilling, Inc. Barrow Properties, L. C. #2  
Location: 600' FSL, 2210' FEL of Section 5-19S-12W  
License Number: 15-009-25988  
Spud Date: 7-16-2014  
Surface Coordinates: 600' FSL, 2210' FEL of Section 5-19S-12W  
Region: Barton County, Kansas  
Drilling Completed: 7-25-2014

Bottom Hole Vertical hole  
Coordinates:  
Ground Elevation (ft): 1808' K.B. Elevation (ft): 1813'  
Logged Interval (ft): 2600' To: RTD Total Depth (ft): 3494'  
Formation: Arbuckle at RTD  
Type of Drilling Fluid: Chemical - Displaced at 2713'

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### **OPERATOR**

Company: L.D. Drilling, Inc.  
Address: 7 SW 26th Avenue  
Great Bend, KS 67530-6525

### **GEOLOGIST**

Name: Wesley D. Hansen  
Company: Wesley D. Hansen - Consulting Petroleum Geologist  
Address: 212 N. Market, Suite 257  
Wichita, KS 67202  
Office: 316-263-7313 Cellular: 316-772-6188

## COMMENTS

Contractor: Petromark Rig #2

Pusher: none

Surface Casing: 8 5/8" set at 289'

Production Casing: 5 1/2" set at +/- 3494'

Mud by: MudCo - Rick Hughes was the engineer

DST's by: Diamond Testing - Ricky Ray was the tester

Logs by: Nabors - DIL, CN-CD, ML

Deviation Surveys: 1/2 deg. @ 3142'; 3/4 deg. @ 3494'

## BIT RECORD

Bit #	Size	MFG	Type	Depth Out	Footage Cut	Hours on bit
1	12 1/4"	JZ		289'	289'	3 1/2
2	7 7/8"	HTC	GX-20C	3180'	2891'	55 3/4
3	7 7/8"	HTC	GX20-C rr	3494'	314'	14 1/4

## FORMATION TOPS AND STRUCTURAL COMPARISON

FORMATION	SAMPLE TOPS		LOG TOPS		COMPARISON WELLS (5-19-12W) ROCI Hullman #4 (1) NWSWSE ROCI Davis #1 (2) E/2SESW
	Depth	Datum	Depth	Datum	
Anhydrite	640'	+1173	643'	+1170	
B/Anhydrite	666'	+1147	669'	+1144	
Elmont	2637'	-824	2640'	-827	
Topeka	2675'	-862	2676'	-863	
Heebner	2979'	-1166	2981'	-1168	
Brown Lime	3086'	-1273	3088'	-1275	
Lansing	3100'	-1287	3100'	-1287	
Muncie Creek Shale	3229'	-1416	3234'	-1421	
BKC	3346'	-1533	3346'	-1533	
Arbuckle	3365'	-1552	3366'	-1553	
RTD	3494'	-1681			
LTD			3492'	-1679	

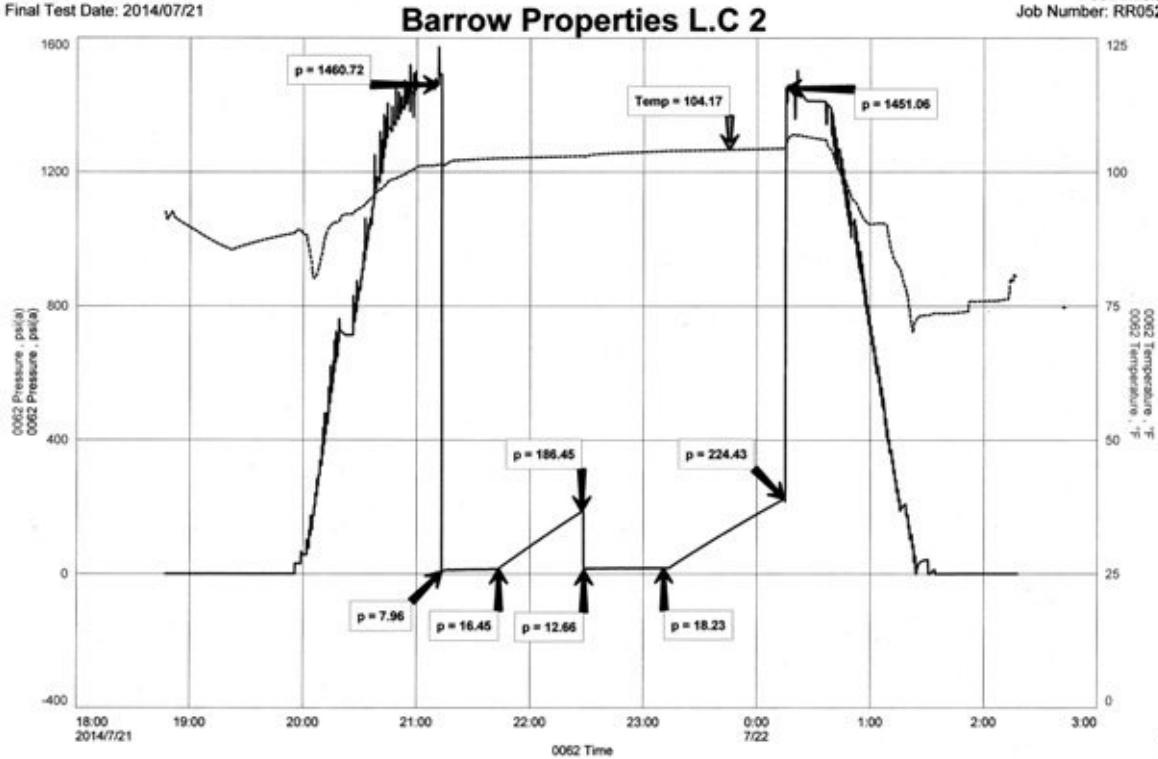
# DRILL STEM TESTS

DST No. 1 Lansing "A" and "B"  
Interval: 3103'-3142'  
Times: 30-45-45-60  
Recovery: 112' GIP, 10' SLOCM (4o, 96m)  
FP: 8-16/13-18 SIP: 186-224  
HP: 1461-1451 BHT: 104 deg. F

IFP: no blow, started weak, built to 5 1/2 inches  
ISIP: no return blow  
FFP: 5 inch blow, built to B.O.B. in 21 1/2 minutes  
FSIP: no return blow

L.D Drilling INC  
Dst 1 Lan "A-B" (3103-3142)  
Start Test Date: 2014/07/20  
Final Test Date: 2014/07/21

Barrow Properties L.C 2  
Formation: Sec: 5-19s-12w (Barton County)  
Pool: Infield  
Job Number: RR052



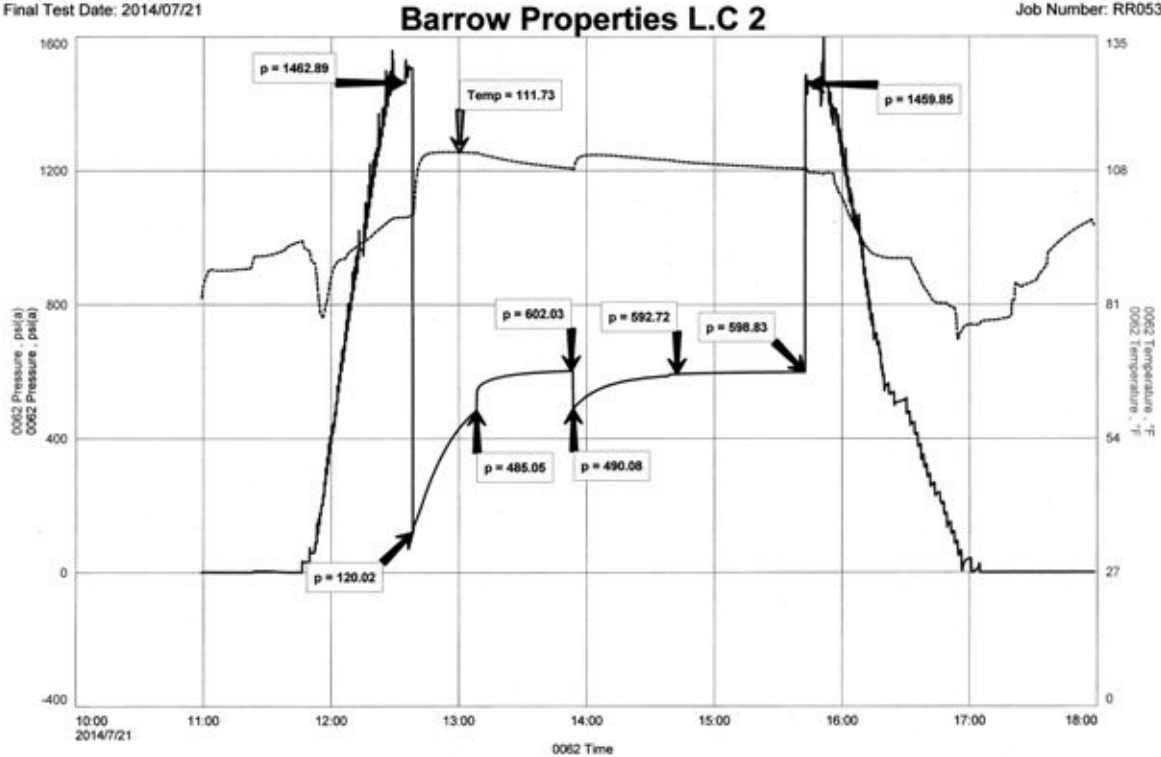
# DRILL STEM TESTS

DST No. 2 Lansing "C"- "F"  
Interval: 3138'-3180'  
Times: 30-45-45-60  
Recovery: 10' GIP; 50' SLGO&WCM (2g, 1o, 8w,  
89m); 1178' SLGO&HMCW (4g, 1o, 25m, 70w);  
122' SLO&MCW (1o, 13m, 86w); total fluid 1350'  
- chl. 55,000  
FP: 120-485/490-593 SIP: 602-599  
HP: 1463-1460 BHT: 112 deg. F

IFP: 2 inches, built to B.O.B. in 1 1/4 minutes  
ISIP: no return blow  
FFP: 3/4 inch, built to B.O.B. in 4 3/4 minutes  
FSIP: no return blow

L.D Drilling Inc.  
Dst 2 Lan "C-F" (3138-3180)  
Start Test Date: 2014/07/21  
Final Test Date: 2014/07/21

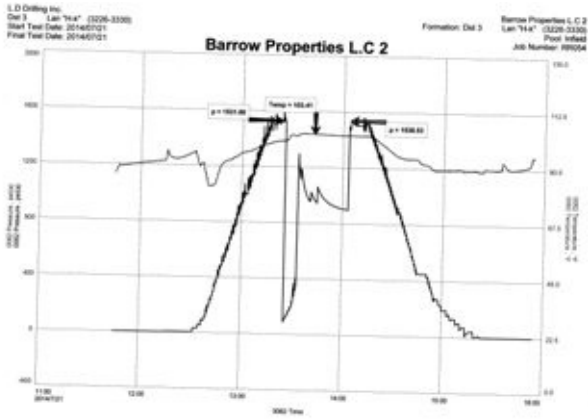
Barrow Properties L.C 2  
Formation: Dst 2 Lan "C-F" (3138-3180)  
Pool: Infield  
Job Number: RR053



# DRILL STEM TESTS

**DST No. 3 Lansing "H-K"**  
**Interval: 3226-3330'**  
**Packer seat failure**

**DST No. 4 Lansing "H" thru "K"**  
**Interval: 3220'-3330'**  
**Hydraulic tool failed - picked up mud before setting packers**





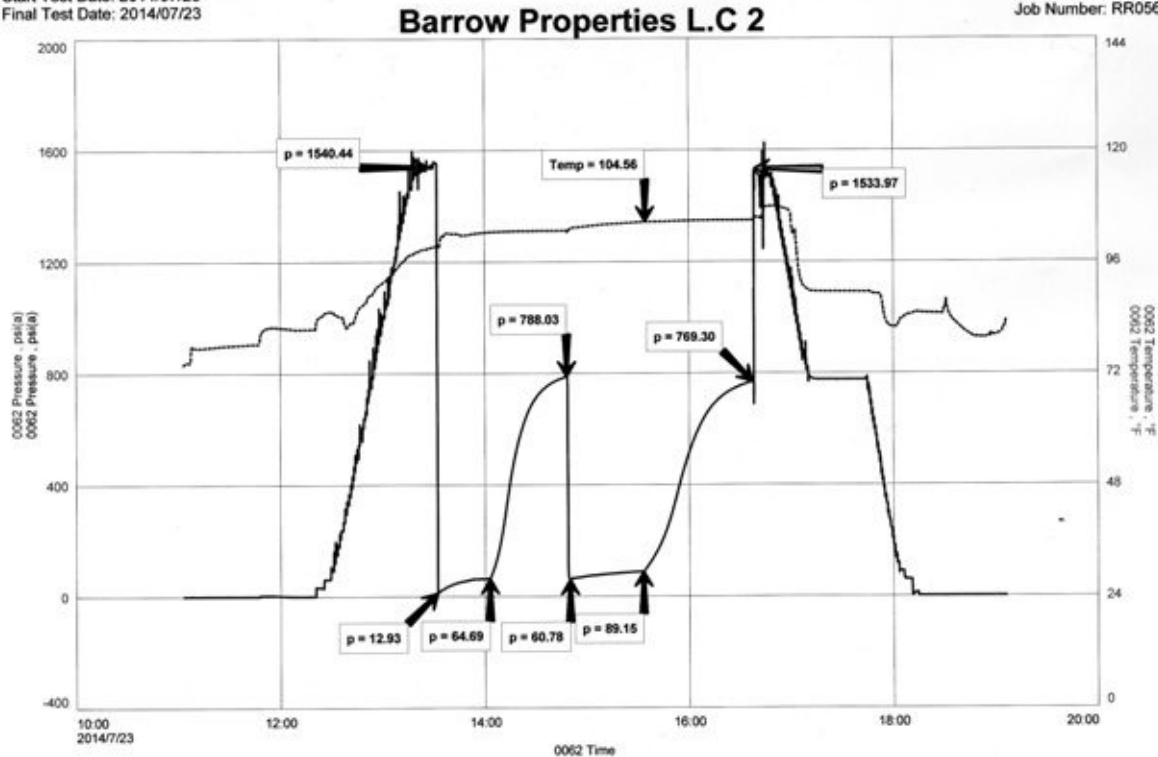
# DRILL STEM TESTS

DST No. 5 Lansing "H" thru "K"  
Interval: 3220-3330'  
Times: 30-45-45-60  
Recovery: 620' GIP; 62' G&OCM (10g, 20o, 70m); 122' HGO&WCM; (40g, 20o, 15w, 25m)  
- total fluid 184'  
FP: 13-65/61-89 SIP: 785-769  
HP: 1540-1534 BHT: 105 deg. F

IFP: weak blow, built to B.O.B. in 23 1/4 minutes  
ISIP: no return blow  
FFP: fair blow, built to B.O.B. in 4 1/2 minutes  
FSIP: return blow built to 1 inch

L.D Drilling Inc  
Dst 5 Lan "H-K" (3220-3330)  
Start Test Date: 2014/07/23  
Final Test Date: 2014/07/23

Barrow Properties L.C 2  
Formation: Dst 5 Lan "H-K" (3220-3330)  
Pool: Infield  
Job Number: RR056



# DRILL STEM TESTS

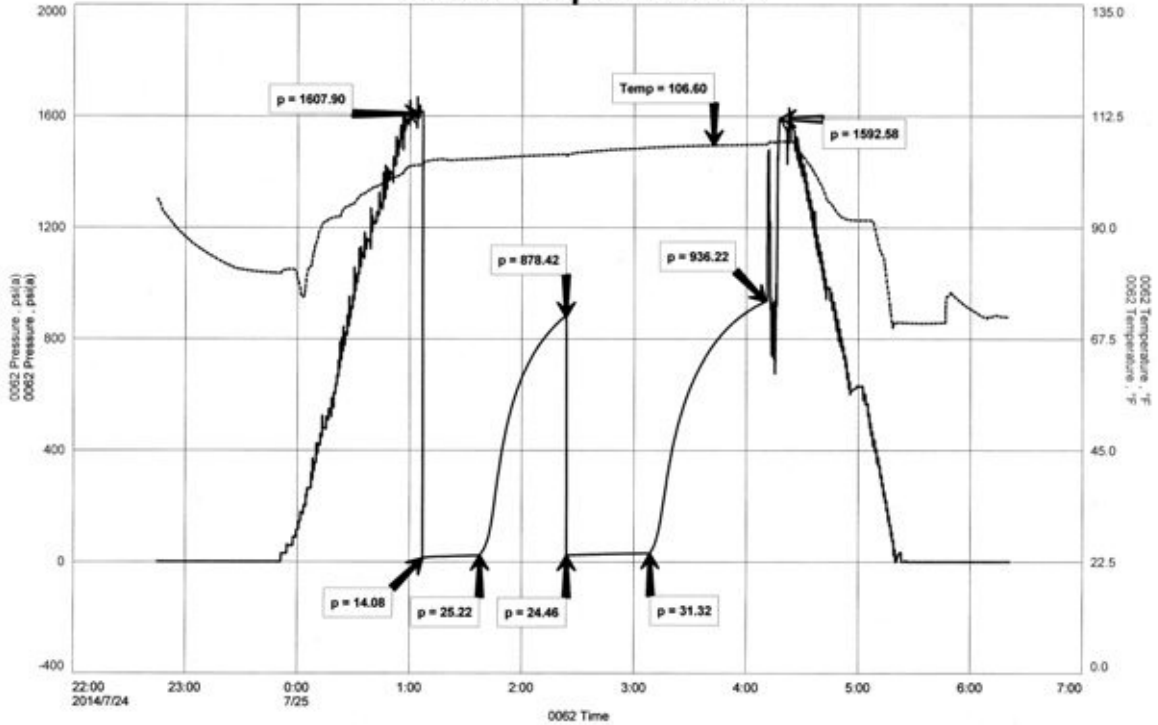
DST No. 6 Arbuckle  
Interval: 3346-3378'  
Times: 30-45-45-60  
Recovery: 8' SL&OCM (2g, 4o, 94m)  
FP: 14-25/24-31 SIP: 878-936  
HP: 1608-1573 BHT: 107 deg. F

IFP: weak blow built to 1 inch  
ISIP: no return blow  
FFP: no blow  
FSIP: no return blow

LD Drilling Inc  
Dst 6 Arbuckle (3346-3378)  
Start Test Date: 2014/07/23  
Final Test Date: 2014/07/24

Barrow Properties L.C 2  
Formation: Dst 6 Arbuckle (3346-3378)  
Job Number: RR057

## Barrow Properties L.C 2



# DRILL STEM TESTS

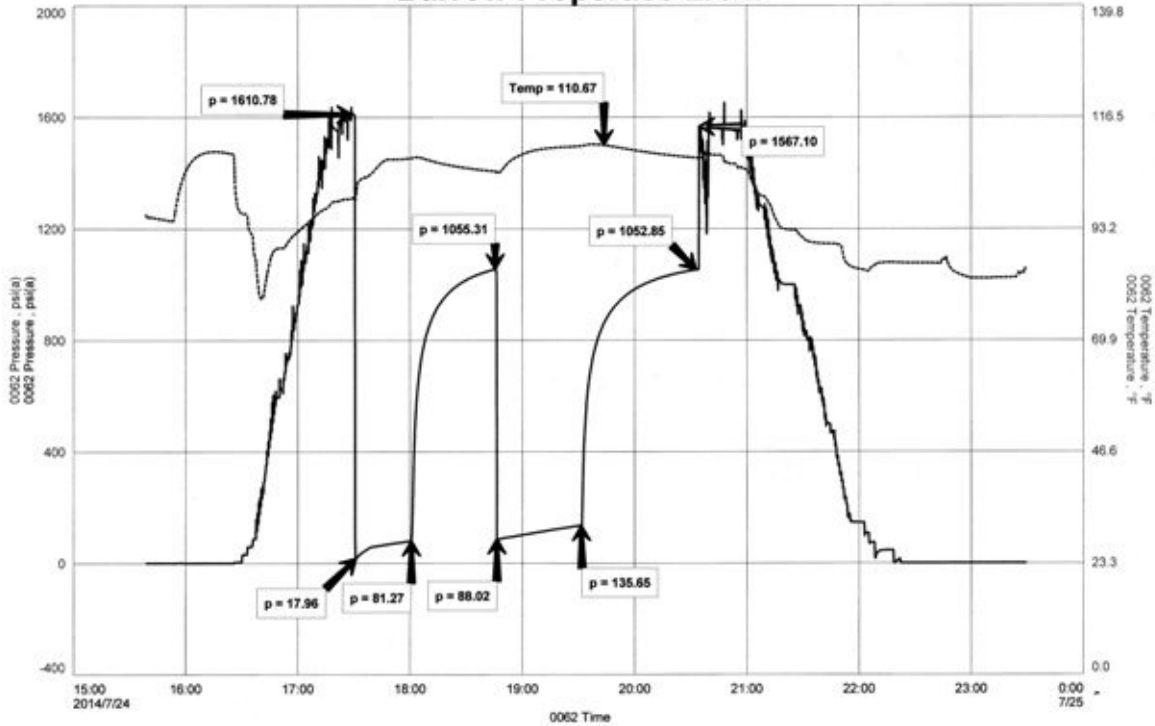
DST No. 7 Arbuckle  
 Interval: 3376'-3388'  
 Times: 30-45-45-60  
 Recovery: 93' GIP; 279' clean oil (39 gravity);  
 122' SLWG&HOcm (6w, 20g, 40o, 34m) - total  
 fluid 401'  
 FP: 18-81/88-136 SIP: 1055-1053  
 HP: 1611-1567 BHT: 111 deg. F

IFP: 1/2 inch blow, slowly built to B.O.B. in  
 18 1/2 minutes  
 ISIP: 1/2 inch return blow  
 FFP: 1/2 inch blow, slowly built to B.O.B.  
 in 20 3/4 minutes  
 FSIP: no return blow

L.D Drilling Inc  
 Dst 7 Arbuckle (3376-3388)  
 Start Test Date: 2014/07/24  
 Final Test Date: 2014/07/24

Formation: Dst 7  
 Barrow Properties L.C 2  
 Arbuckle (3376-3388)  
 Pool: Infield  
 Job Number: RR058

## Barrow Properties L.C 2



Item: Testing11\Desktop\Dst7 24-Jul-14 Vw

FasT

## ROCK TYPES

- Anhy
- Cht
- Coal
- Congl
- Dol
- Gyp
- Lmst

- Salt
- green shale
- Shale
- Shcol
- Sltst
- Ss
- Carb sh

- Dol
- Dtd
- Gry sh
- Sandylms
- redshale
- Shale
- Sltstn

- Shlyslts
- Sltysb
- Sdy dolo
- Shy dolo
- Shaly ls
- light dolomite

### ACCESSORIES

#### FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite

- Plant
- Strom
- Fuss
- Oomold

#### MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr

- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

#### STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

### OTHER SYMBOLS

#### INTERVALS

- Core
- Dst
- Dst

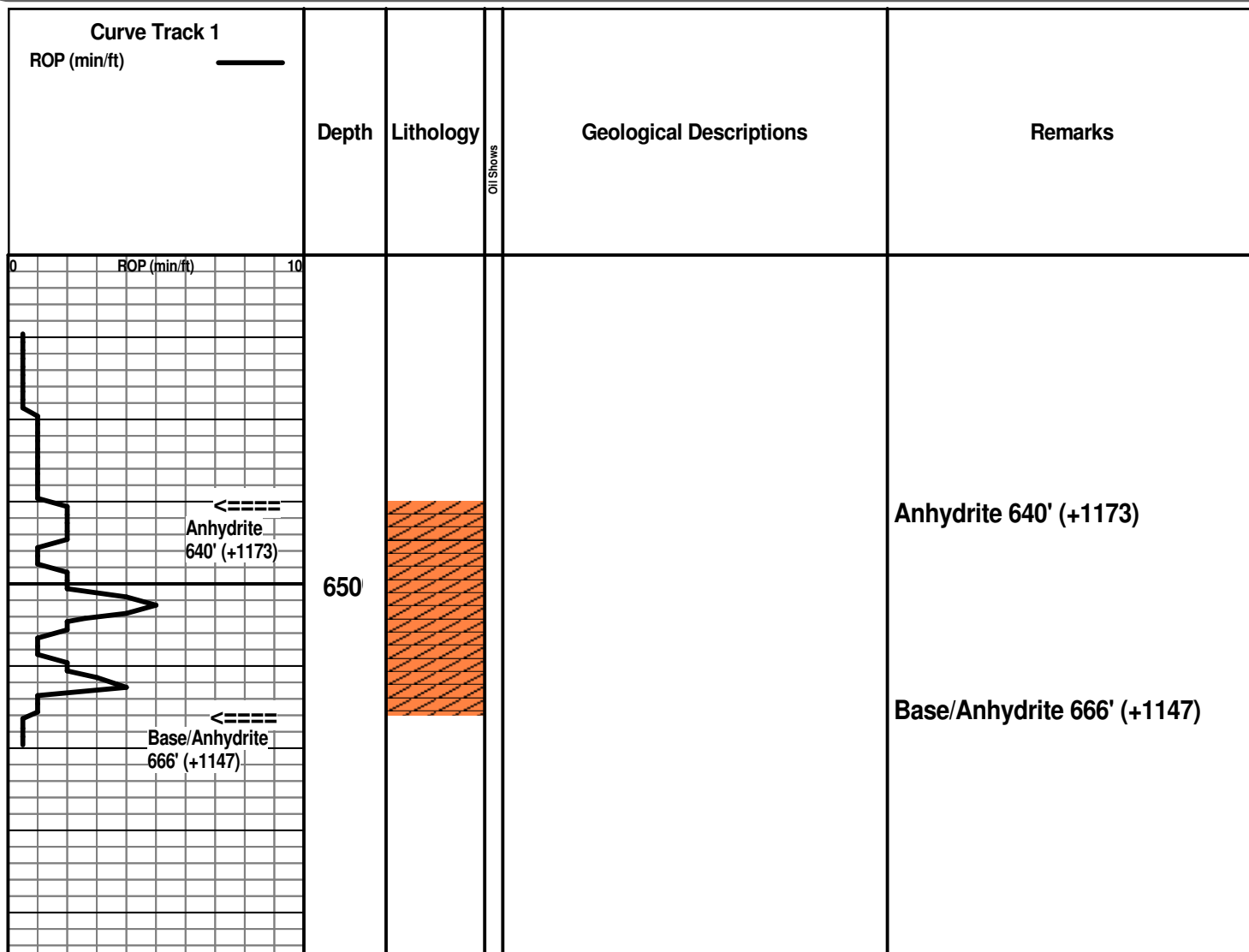
#### EVENTS

- Rft
- Dst top/base

#### OIL SHOWS

- Even
- Spotted
- Quest.

- Trace
- Dead
- Gas show



# Report Depth and Activity

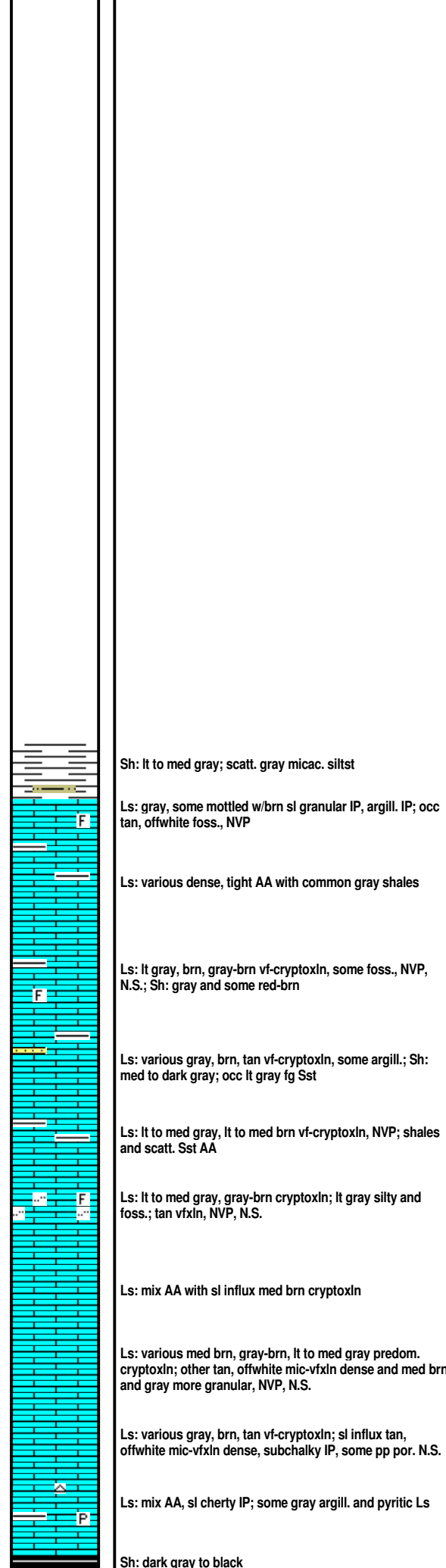
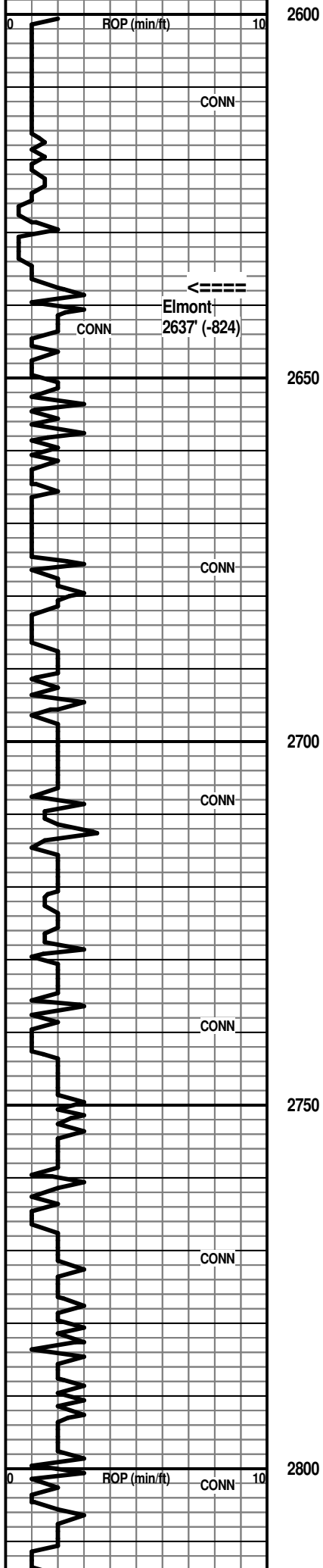
7-16-2014 MIRT, Spud at 7:45 PM  
 7-17 WOC @ 289'  
 7-18 Drlg. @ 1285'  
 7-19 Drlg. @ 2266'  
 7-20 Drlg. @ 2985'  
 7-21 CFS @ 3162' post DST No. 1  
 7-22 Drlg. @ 3303' post DST No. 2  
 7-23 DST No. 5 @ 3330'  
 7-24 TIH post DST No. 6 @ 3378'  
 7-25 RTD @ 3494' post DST No. 7  
 7-26 casing set

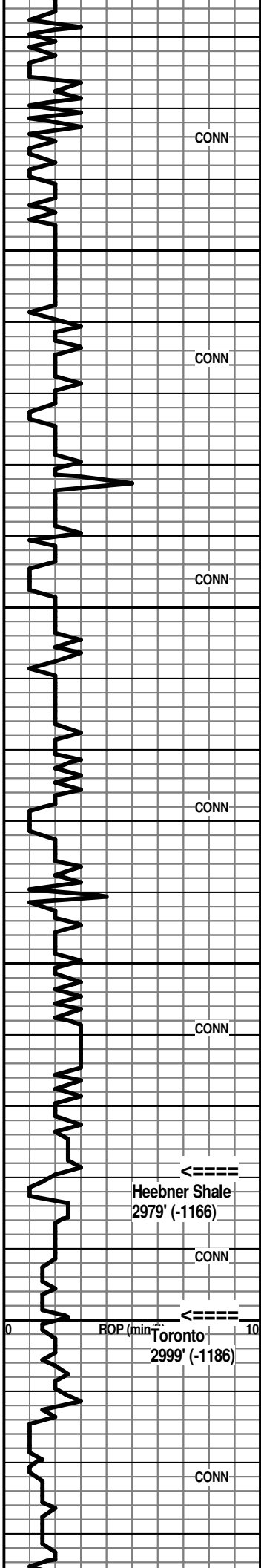
## Elmont 2637' (-824)

Jet #1 pit

Finish displacement at 2713'

Start 10' samples





2850

2900

2950

3000

Sh: med to dark gray, laminated and silty IP;

Ls: lt to med gray, brn, tan vf-cryptoxln; lesser tan, offwhite mic-vfxln dense, subchalky; some lt to med brn mottled granular

Sh: med to dark gray

Ls: lt to med brn, gray dense, granular IP, poor-NVP; other offwhite, tan mic-vfxln dense; rare mottled gray/brn opq chert

Ls: various lt brn, tan, lt gray vf-cryptoxln, mottled IP; Sh: med to dark gray, silty IP

Ls: mix AA

Ls: various lt gray, lt brn, tan vf-cryptoxln; some mottled brn fn granular, poor-NVP, N.S.

Sh: dark gray to black carbon.

Ls: lt to med brn, gray cryptoxln to mottled granular, poor inter-particle por. to NVP, N.S.

Ls: lt to med brn, gray, tan predom. cryptoxln; other offwhite, tan mic-vfxln dense, subchalky

Ls: mix AA, more subchalky; very scatt. offwhite, lt gray opq chert

Ls: various tan, lt gray, lt brn vf-cryptoxln, NVP, N.S.; Sh: med gray, gray-green

Ls: more tan, lt gray micxln to fn granular, poor-NVP, dense, subchalky IP

Ls: some tan with fair-good pp to tiny oomoldic por.; abund. tan, offwhite, some lt gray mic-vfxln dense, subchalky

Ls: influx lt to med brn, some gray predom. cryptoxln, mottled IP

Ls: mix various cryptoxln and mic-vfxln dense AA; Sh: incr. med to dark gray

Ls: mix lt to med brn cryptoxln and offwhite, tan mic-vfxln dense, subchalky; occ med gray opq chert

Sh: influx black carbon.; Ls: more med brn cryptoxln

Sh: med to dark gray, black, gray-green

Ls: predom. various brn, gray, tan cryptoxln, NVP, N.S.; scatt. tan, lt brn granular to sl oolitic with thick black oily stain, faint to no odor, nfo

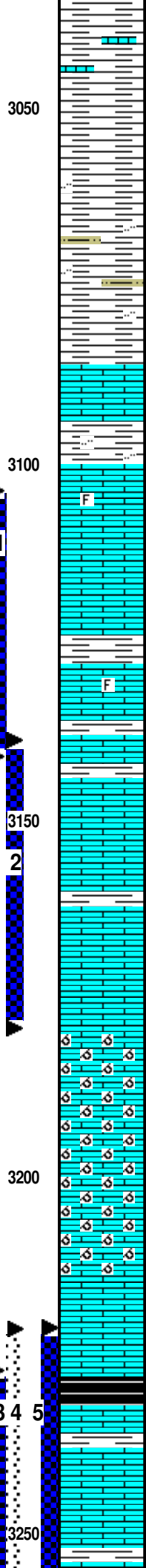
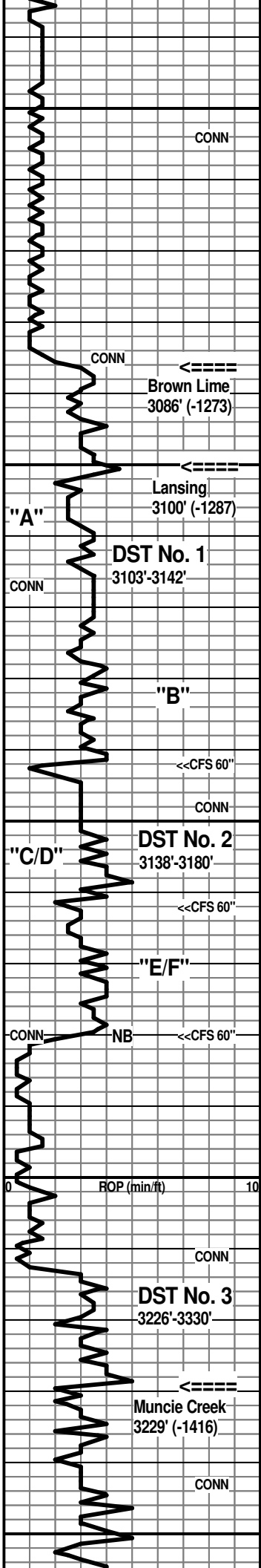
Sh: med to dark gray, black, gray-green with stringers of various cryptoxln and granular Ls

Sh: mix AA, some red-brn, some soft, gummy pale gray; Ls: thin beds tan, brn vf-cryptoxln

MudCo Mud Check at 2977'  
6:40 AM on 7-20-2014  
wt vis wl pH chl  
8.9 59 8.0 11.5 5,000  
PV YP GelS lcm solids  
17 21 19/58 0# 4.0%

Heebner Shale 2979' (-1166)  
7:00 AM at 2985' on 7-20-2014

Toronto 2999' (-1186)



Shale mix AA with thin Ls beds

Sh: flood med to dark gray, some dark red-brn

Sh: mix AA, commonly silty, some veru soft pale gray; Siltst: some lt gray finely micac.

Sh: flood lt to med gray silty and soft

Ls: med to dark brn, gray-brn cryptoxln

Sh: med to dark gray, some silty; Ls: occ dark brn cryptoxln and mottled brn granular

Ls: influx tan, lt brn, some gray vf-cryptoxln, NVP, N.S.; scatt. tan, lt brn cryptoxln with scatt. vug. por., occ foss. with fossil molic por. with fair-good odor, vsf sfo, trace sg, some sat. stain dry; other tan, offwhite micxln with spotty lt brn stain

Ls: mix tan, lt brn cryptoxln, NVP and tan, offwhite mic-vfxln dense, N.S.; scatt. chips with shows AA, some lt edge stain

Sh: med gray; Ls: lt to med brn, some dark brn and gray cryptoxln, NVP, N.S.; tan fn granular with inter-particle por. with sl odor, sl sfo; other dark brn granular/foss. with poor inter-particle por. with sat. stain, sg, vsf sfo, very hard

CFS 3142' spls - Ls: various cryptoxln, NVP, N.S.; some mottled gray/brn granular with spotty stain in vug. por.; predom. mottled darkgray/dark brn granular in 60" spl with N.S.; scatt. granular with poor por. with dark brn to black stain

Ls: predom. lt to med brn and dark gray granular, poor-NVP, N.S.; scatt. med brn gran/foss with vsf sg, nfo, NVP; trace tan cryptoxln with edge stain, nfo, no odor

CFS 3162' spls - Ls: various mottled granular and cryptoxln AA, poor-NVP, N.S.; sl influx mottled gray/dark brn granular, with black stain, nfo and tan vf-cryptoxln with spotty dead black stain, no odor; Sh: vc gray, dark red-brn

CFS 3180' spls - very shaly and poor; Ls: several chips lt brn to dark gray cryptoxln to gran/foss with some vug. por., dark brn stain, trace-vsl sfo, some subsat stain, ?odor; other tan, lt brn, lt gray vf-cryptoxln, NVP, N.S.

Ls: flood tan, lt to med brn oolitic with good oomoldic por., sucrosic IP, N.S.

Ls: AA

Ls: mix some oolitic with poor to no oomoldic por.; influx tan, lt brn vfxln and tan, offwhite mic-vfxln dense, subchalky

Ls: tan, lt gray, lt brn vf-cryptoxln

Sh: influx black carbon., dark gray

Ls: dark gray cryptoxln

very poor spl - Ls: one chip offwhite vfxln with patchy pp dark stain, nfo, no odor

CFS 3256' spls - Ls: tan, lt to med brn, gray cryptoxln and offwhite mic-vfxln dense; 1-2 chips tan vfxln with poor interxln por. with spotty pp dark stain, nfo, no odor; very shaly

**Brown Lime 3086' (-1273)**

**Lansing 3100' (-1287)**

DST No. 1 Lansing "A" and "B"  
 Interval: 3103'-3142'  
 Times: 30-45-45-60  
 IFP: no blow, started weak, built to 5 1/2 inches  
 ISIP: no return blow  
 FFP: 5 inch blow, built to B.O.B. in 21 1/2 minutes  
 FSIP: no return blow  
 Recovery: 112' GIP, 10' SLOCM (4o, 96m)  
 FP: 8-16/13-18 SIP: 186-224  
 HP: 1461-1451 BHT: 104 deg. F

DST No. 2 Lansing "C"-"F"  
 Interval: 3138'-3180'  
 Times: 30-45-45-60  
 IFP: 2 inches, built to B.O.B. in 1 1/4 minutes  
 ISIP: no return blow  
 FFP: 3/4 inch, built to B.O.B. in 4 3/4 minutes  
 FSIP: no return blow  
 Recovery: 10' GIP; 50' SLGO&WCM (2g, 1o, 8w, 89m); 1178' SLGO&HMCW (4g, 1o, 25m, 70w); 122' SLO&MCW (1o, 13m, 86w); total fluid 1350' - chl. 55,000  
 FP: 120-485/490-593 SIP: 602-599  
 HP: 1463-1460 BHT: 112 deg. F

7:00 AM at 3162' on 7-21-2014  
 MudCo Mud Check at 3162'  
 6:55 AM on 7-21-2014  
 wt vis wl pH chl  
 8.9 49 9.6 11.0 9,500  
 PV YP GeIS lcm solids  
 12 13 13/52 0# 3.7%

#1 pit was jetted and fresh pre-mix was added prior to drilling ahead after DST No. 2

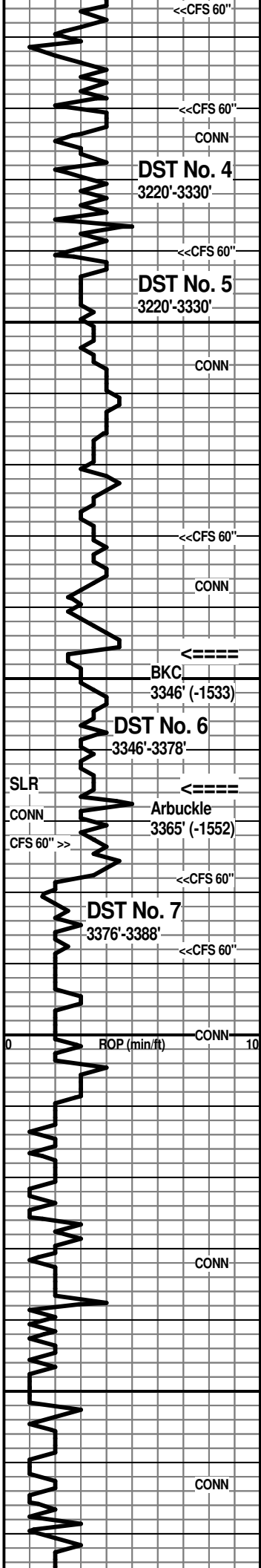
NOTE: water loss and chlorides continued to rise from here to RTD inspite of new premixes being added - probable water entering well bore from above - samples were generally very shaly from cavings

**Muncie Creek 3229' (-1416)**

DST No. 3 Lansing "H"-"K"  
 Interval: 3226'-3330'  
 Packer seat failure

DST No. 4 Lansing "H" thru "K"  
 Interval: 3220'-3330'  
 Hydraulic tool failed -picked up mud before setting packers

DST No. 5 Lansing "H" thru "K"



Ls: mix various dense AA, trace shows

CFS 3270' spls - Ls: scatt. tan oolitic with fair inter-oolitic por. with lt stain; trace tan vfxln with edge stain; trace med brn granular with poor inter-particle por. with vsl show dark brn oil; other tan, offwhite oolitic with poor-NVP, spar matrix

3290' and CFS 3290' spls - Ls: various tan, lt to med brn cryptoxln and offwhite vf-cryptoxln; some oolitic with spar matrix; trace offwhite oolitic with scatt. inter-oolitic por. with sl sg, trace minute oil droplets, no odor; spls very shaly and poor

Sh: flood med to dark gray, more gray-green, some mottled

Ls: tan, lt brn, offwhite predom. cryptoxln, NVP; occ lt brn foss. with spar matrix

Ls: tan, lt brn vf-cryptoxln and offwhite, tan mic-vfxln dense; spls remain very shaly

CFS 3330' spls - Ls: mix AA with some lt gray cryptoxln

Ls: more tan, lt brn predom. cryptoxln, sl granular IP, N.S.

Sh: lt to med gray, some pale green-gray, red-brn and maroon-brn

Ls: mottled lt to med brn granular, some wht offwhite micxln matrix

Sh: mix vc gray, red-brn, maroon-brn; Ls: lt to med brn cryptoxln; Chert influx dark yellow, yellow-brn opq

CFS 3373' spls - Chert: mix AA with multi-colored shales; Dolo: tan, lt brn, lt gray fn-vfxln with gen. poor interxln por., no well developed rhombs, with sl-fair odor, vsl shows lt fo, pp stain

CFS 3378' spls - Dolo: tan, lt brn fn-medxln, some sucrosic, gen. poor interxln por. with fair odor, pp to subsat stain, sfo; Chert: mix brn, offwhite oolitic and sandy IP, other yellow and yellow-brn

CFS 3388' 30" spl - Dolo: tan, some offwhite fn-medxln, no well developed rhombs, generally friable, some sl sandy, sl-fair odor, vsl sfo, lt stain, decr. chert %;

Dolo: good influx tan, lt brn fn-medxln, occ oolitic with interxln, vug. and some oomoldic por., some rhombic development, with sl odor, sfo, spotty to sat stain

Dolo: lt to med brn fn-vfxln with poor-NVP; interbedded with tan, lt brn oolitic IP with interxln, vug. and oomoldic por., some nice rhombic development, with presistant shows AA

Dolo: mix AA with rith gen. good por. with decr. shows

Dolo: becoming predom. tan, lt to med brn vf-cryptoxln with poor to NVP, faint to no odor, rare shows

Dolo: various tan and brn with some good por. and other tight streaks, N.S.

Dolo: interbedded por. and tight streaks AA, rare shows (probable cavings)

Interval: 3220-3330'  
Times: 30-45-45-60  
IFP: weak blow, built to B.O.B. in 23 1/4 minutes  
ISIP: no return blow  
FFP: fair blow, built to B.O.B. in 4 1/2 minutes  
FSIP: return blow built to 1 inch  
Recovery: 620' GIP; 62' G&OCM (10g, 20g, 70m); 122' HGO&WCM; (40g, 20g, 15w, 25m) - total fluid 184'  
FP: 13-65/61-89 SIP: 785-769  
HP: 1540-1534 BHT: 105 deg. F

**MudCo Mud Check at 3301'**  
6:55 AM on 7-22-2014  
wt vis wl pH chl  
9.2 45 12.8 10.5 14,500  
PV YP GeIS lcm solids  
11 11 19/52 0# 5.6%

7:00 AM at 3303' on 7-22-2014  
Ran fresh premix at 3330' prior to DST No. 3

Did a wiper trip after DST No. 4 - replaced hydraulic tool ahead of DST No. 5

Ran fresh premix before drilling after DST No. 5

7:00 AM at 3330' on 7-23-2014  
**MudCo Mud Check at 3330'**  
7:35 AM on 7-23-2014  
wt vis wl pH chl  
9.2 45 12.8 10.5 14,500  
PV YP GeIS lcm solids  
9 11 15/36 0# 5.6%

**BKC 3346' (-1533)**

**Arbuckle 3365' (-1552)**

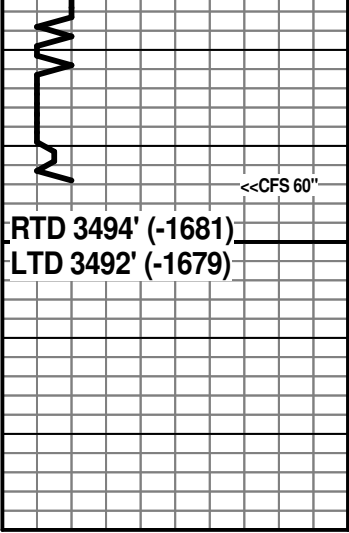
7:00 AM at 3378' on 7-24-2014  
CFS 3388' 60" spl - Dolo: tan AA with some better developed rhombs, sl-fair odor, sfo, sg, lt stain; also some white clay (?) filling some of the interxln por.; Chert: offwhite, tan, dark yellow opq

**MudCo Mud Check at 3378'**  
8:50 AM on 7-24-2014  
wt vis wl pH chl  
8.8 45 14.6 10.0 16,500  
PV YP GeIS lcm solids  
7 23 23/37 0# 5.5%

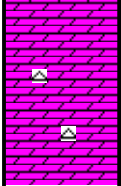
DST No. 6 Arbuckle  
Interval: 3346-3378'  
Times: 30-45-45-60  
IFP: weak blow built to 1 inch  
ISIP: no return blow  
FFP: no blow  
FSIP: no return blow  
Recovery: 8' SL&OCM (2g, 4g, 94m)  
FP: 14-25/24-31 SIP: 878-936  
HP: 1608-1573 BHT: 107 deg. F

DST No. 7 Arbuckle  
Interval: 3376-3388'  
Times: 30-45-45-60  
IFP: 1/2 inch blow, slowly built to B.O.B. in 18 1/2 minutes  
ISIP: 1/2 inch return blow  
FFP: 1/2 inch blow, slowly built to B.O.B. in 20 3/4 minutes  
FSIP: no return blow  
Recovery: 93' GIP; 279' clean oil (39 gravity); 122' SLWG&HOCM (6w, 20g, 40g, 34m) - total fluid 401'  
FP: 18-81/88-136 SIP: 1055-1053  
HP: 1611-1567 BHT: 111 deg. F





3500



CFS 3494' spls - Dolo: mix AA with more med brn cryptoxln, NVP and lt gray, offwhite fn-vfxln with poor-NVP, N.S.; sl influx offwhite opq chert

After review of samples, DST results and open hole log evaluation, the decision was made to run 5 1/2 " casing for production.

Respectfully submitted,

Wesley D. Hansen  
 Petroleum Geologist  
 Kansas License No. 418

7:00 AM at 3494' on 7-25-2014

RTD reached at 5:40 AM  
 CFS/CTCH 1 hour - Survey - TOFL

MudCo Mud Check at 3494'  
 9:00 AM on 7-25-2014  
 wt vis wl pH chl  
 9.1 44 13.4 11.0 15,300  
 PV YP GelS lcm solids  
 8 14 16/32 0# 4.8%



**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 11019 A

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

DATE OF JOB <b>7-25-2014</b> DISTRICT <b>Pratt, KS</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>L.D. Drilling, Inc</b>		LEASE <b>Borrow Properties, LLC</b>				WELL NO. <b>2</b>			
ADDRESS		COUNTY <b>Barton</b>		STATE <b>Ks</b>					
CITY STATE		SERVICE CREW <b>Dgrin, McBrsw, Cole</b>							
AUTHORIZED BY		JOB TYPE: <b>CNW/ Longstring</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>27283</b>	<b>1</b>						<b>7-25</b>	<b>AM</b>	<b>2:00</b>
<b>77686</b>	<b>1</b>						<b>7-25</b>	<b>AM</b>	<b>2:30</b>
<b>19905</b>	<b>1</b>						<b>7-25</b>	<b>AM</b>	<b>8:15</b>
<b>70959</b>	<b>1</b>						<b>7-25</b>	<b>AM</b>	<b>9:15</b>
<b>19918</b>	<b>1</b>						<b>7-25</b>	<b>AM</b>	<b>10:15</b>
						MILES FROM STATION TO WELL	<b>65</b>		

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: *me Dan*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP100C	Common Cement	SK	150		2,400 00
CP103	60/40 P02	SK	30		360 00
CC111	Sgt	Lb	617		308 50
CC130	C-51	Lb	29		725 00
CC201	Gilsonite	Lb	750		502 50
CF607	Latch Down Plus & Baffle, 5 1/2 (Blue)	Eg	1		400 00
CF1251	Auto Fill Floqz Shoe 5 1/2 (Blue)	Eg	1		360 00
CF1651	Turbolizer, 5 1/2 (Blue)	Eg	6		660 00
CF1901	5 1/2" Basket (Blue)	Eg	1		290 00
CF2001	Cement Scrubbers Cable type, 5 1/2	Eg	5		375 00
G704	Clymax KCL Substitute	Gsl	4		140 00
CC151	mud Flush	Gsl	1,000		1,500 00
E100	Unit Milsse Charge - Pickup	Mj	65		276 25
E101	Heavy Equipment Milsse	Mj	130		1,990 00
E113	Bulk Delivery	T/m	543		2,184 00
CE204	Depn Charge; 3001-4,000'	4hrs	1		2,250 00
CE240	Blending & mixing Service Charge	SK	180		252 00
CE304	Plus container Utilization Charge	Job	1		250 00
SO03	Service Supervisor, first 8 hrs on loc	Eg	1		175 00

SUB TOTAL **10,061.11**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE *Darin Kumbler* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *me Dan*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <b>L.D Drilling</b>	Lease No.	Date <b>7-25-2014</b>
Lease <b>Barrow Properties</b>	Well # <b>2</b>	
Field Order # <b>11017</b>	Station <b>Pratt, KS</b>	Casing <b>5 1/2</b>
		Depth <b>3494</b>
Type Job <b>CNU/Lons Springs</b>	Formation <b>TD-</b>	County <b>Barton</b>
		State <b>KS</b>
		Legal Description <b>5-19-12</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<b>5 1/2</b>				Pre Pad	Max		5 Min.	
Depth <b>3485</b>	Depth	From	To	Pad	Min		10 Min.	
Volume <b>43</b>	Volume	From	To	Frac	Avg		15 Min.	
Max Press	Max Press	From	To		HHP Used		Annulus Pressure	
Well Connection	Annulus Vol.	From	To	Flush	Gas Volume		Total Load	
Plug Depth <b>14</b>	Packer Depth	From	To					

Customer Representative	Station Manager <b>Kevin Gorek</b>	Treater <b>Darin Franklin</b>
Service Units	<b>27283 77686 19905 70959 19918</b>	
Driver Names	<b>Darin McGraw McGraw Cole Cole</b>	

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>2:30pm</b>					<b>On Location / Safety Meeting</b>
					<b>Centralizers 1, 3, 4, 6, 8, 10</b>
					<b>Basket #5</b>
					<b>150 sy cement + 10% assist, 20% WCA-1</b>
					<b>5 lb/sk Gisonite</b>
<b>8:15pm</b>	<b>100</b>		<b>24</b>	<b>3 1/2</b>	<b>PUMP FLUSH</b>
	<b>200</b>		<b>33</b>	<b>6</b>	<b>mix 150 sy cement</b>
				<b>0</b>	<b>Shut down</b>
				<b>3</b>	<b>wash lines</b>
	<b>100</b>		<b>0</b>	<b>6</b>	<b>Start Displacement</b>
	<b>400</b>		<b>53</b>	<b>6</b>	<b>Lift pressure</b>
	<b>500</b>		<b>70</b>	<b>3</b>	<b>slow rate</b>
	<b>1500</b>		<b>81</b>	<b>3</b>	<b>Bump plug</b>
					<b>Frost - Hold</b>
	<b>100</b>		<b>7</b>	<b>3</b>	<b>plus rate here</b>
<b>9:15pm</b>					<b>Job Complete / Darin &amp; Crew</b>
					<b>Thank you!!!</b>



**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 11103 A

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

DATE OF JOB: 7-17-14		DISTRICT		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: LD Drilling Inc				LEASE: Barrow Properties				WELL NO. 222		
ADDRESS				COUNTY: Barton		STATE: KS				
CITY		STATE		SERVICE CREW: Pratt Cement						
AUTHORIZED BY				JOB TYPE: 8 5/8" Surface CNW						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
19559 19843	1					ARRIVED AT JOB	7-16-14	AM	PM	10:30
14960 21010	1					START OPERATION	7-17-14	AM	PM	3:25
27243	1					FINISH OPERATION	7-17-14	AM	PM	3:50
						RELEASED	7-17-14	AM	PM	4:15
						MILES FROM STATION TO WELL				

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

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	60140 P02	SK	300		3600 00
CC 102	Cellulose	lb	75		277 50
CC 109	Calcium chloride	lb	774		812 70
CF 153	wooden cement Plug 8 5/8"	ea	1		160 00
E 100	Unit Mileage Pickups	M1	65		276 25
E 101	Heavy Equip mileage	M1	130		910 00
E 113	Prop + Bulk Delivery	TM	539		1844 70
CC 200	Depth Change 0-500'	4hrs	1		1000 00
CC 240	Blending + Mixing charge	sk	300		470 00
CC 504	Plug Container White-Max Chg	Job	1		250 00
5003	Service Supervisor	ea	1		175 00
SUB TOTAL					

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		16 7391 87

SERVICE REPRESENTATIVE: <i>[Signature]</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>[Signature]</i>
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)	

FIELD SERVICE ORDER NO.

Customer <i>LD Drilling Inc</i>	Lease No.	Date <i>7-17-14</i>	
Lease <i>Deer Creek Properties</i>	Well # <i>LC 2</i>		
Field Order # <i>1107 A</i>	Station	Casing <i>2 3/8</i>	Depth <i>290</i>
Type Job <i>2 3/8 Surface CNW</i>	Formation	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
<i>2 3/8</i>							5 Min.
Depth <i>290</i>	Depth	From	To	Pre Pad	Max		
Volume <i>18</i>	Volume	From	To	Pad	Min		10 Min.
Max Press <i>200</i>	Max Press	From	To	Frac	Avg		15 Min.
Well Connection <i>2 3/8</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative	Station Manager <i>Kevin Gaudley</i>	Treater <i>Scott</i>
Service Units <i>19889</i>	<i>19843</i>	<i>21810</i>
Driver Names <i>Ed</i>	<i>Josh</i>	<i>Scott</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>10:30</i>					<i>On location Safety Meeting Required</i>
<i>3:15</i>					<i>Circulate well</i>
<i>3:25</i>	<i>11</i>		<i>65</i>	<i>5</i>	<i>pump 300 SPS 60/40 202 145 pp</i>
<i>3:39</i>					<i>Prep plug</i>
<i>3:40</i>	<i>200</i>		<i>16.5</i>	<i>5.5</i>	<i>Start Displacement</i>
<i>3:50</i>	<i>200</i>				<i>Stop pumping Displacement</i>
					<i>Job Complete</i>
					<i>Circulated Cement to pit</i>



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

TIME ON: 18:47 July 20  
TIME OFF: 01:55 July 21

**DRILL-STEM TEST TICKET**

FILE: Barrow Properties L.C 2 Dst 1

Company L.D Drilling INC. Lease & Well No. Barrow Properties L.C  
Contractor Petromark Drilling Rig 2 Charge to L.D Drilling L.C  
Elevation 1813 KB Formation \_\_\_\_\_ Lan "A-B" Effective Pay \_\_\_\_\_ Ft. Ticket No. RR052  
Date 07/20/2014 Sec. 5 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 12 W County \_\_\_\_\_ Barton State KANSAS  
Test Approved By Wes Hanson Diamond Representative \_\_\_\_\_ RICKY RAY

Formation Test No. 1 Interval Tested from 3103 ft. to 3142 ft. Total Depth 3142 ft.  
Packer Depth 3091 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3103 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3091 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3106 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 59 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
Weight 8.9 Water Loss 8 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides 500 P.P.M. Drill Pipe Length 2956 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number SJ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 39 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: NO Blow Built to 5 1/2 inches in 30mins NOBB  
2nd Open: 5" Blow BOB in 21 1/2 mins NOBB

Recovered 112 ft. of GIP  
Recovered 10 ft. of SLOCM 4% O 96% M  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
Tool Sample: 15% O 85% M	Total

Time Set Packer(s) 8:47 PM A.M. P.M. Time Started Off Bottom 11:47 PM A.M. P.M. Maximum Temperature 104

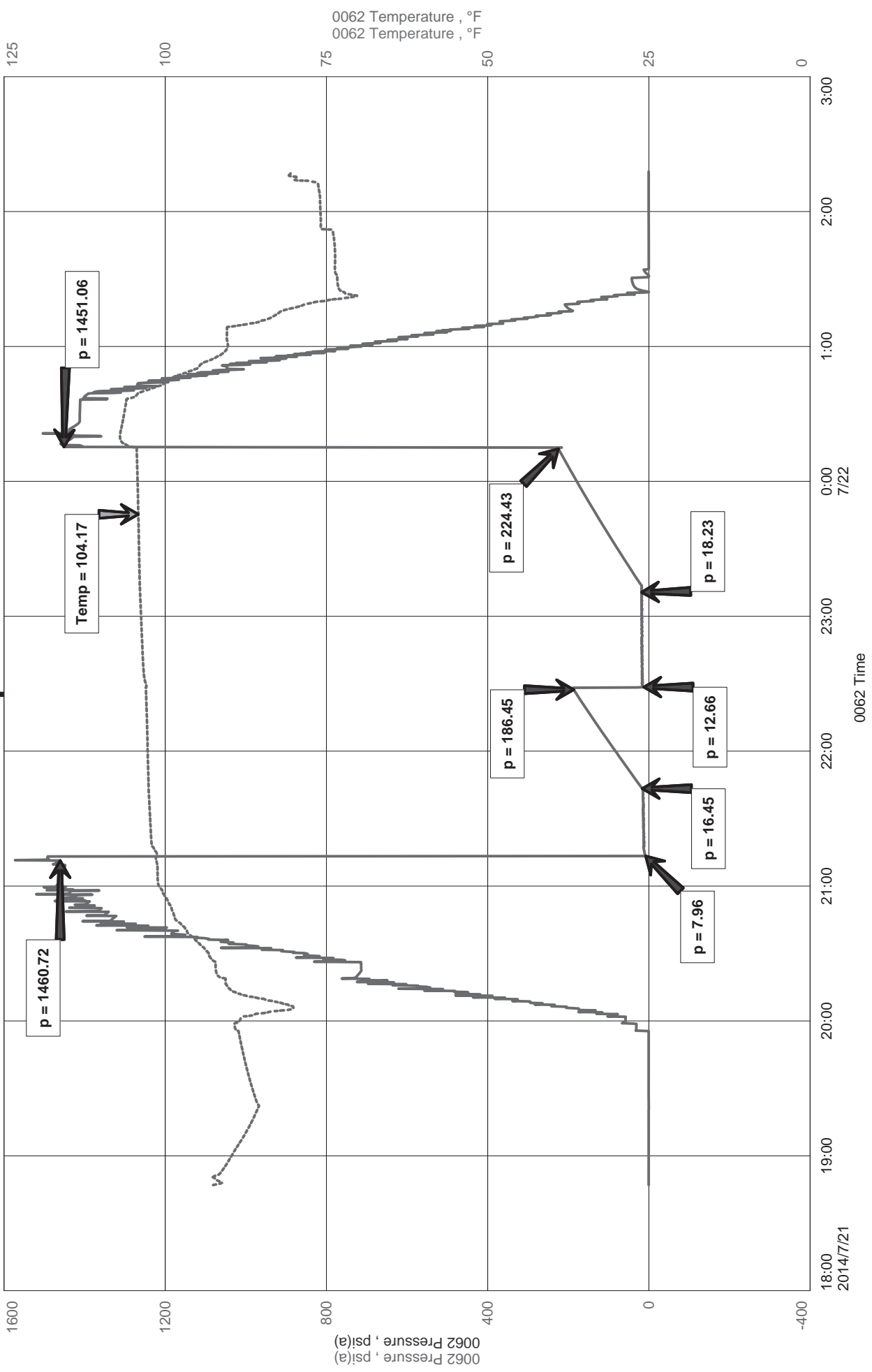
Initial Hydrostatic Pressure..... (A) 1461 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 16 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 186 P.S.I.  
Final Flow Period..... Minutes 45 (E) 13 P.S.I. to (F) 18 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 224 P.S.I.  
Final Hydrostatic Pressure..... (H) 1451 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.

L.D Drilling INC  
 Dst 1 Lan "A-B" (3103-3142)  
 Start Test Date: 2014/07/20  
 Final Test Date: 2014/07/21

Barrow Properties L.C 2  
 Formation: Sec: 5-19s-12w (Barton County)  
 Pool: Infield  
 Job Number: RR052

# Barrow Properties L.C 2





Diamond Testing LLC  
P.O. Box 157  
HoisingtonKS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

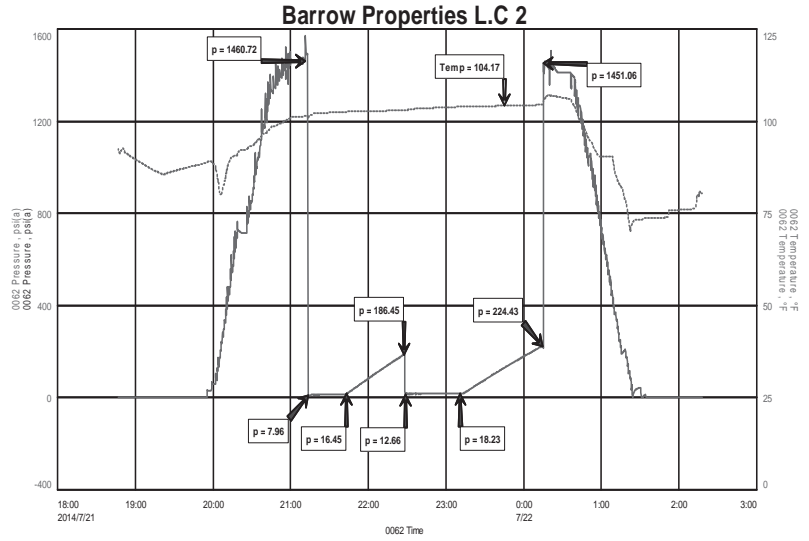
# Wellsite Report

## General Information

Company Name	L.D Drilling INC
Contact	L.D Davis
Well Operator	L.D Drilling INC
Well Name	Barrow Properties L.C 2
Surface Location	Sec: 5-19s-12w (Barton County)
Field	Cheneyenne West
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	Wes Hanson
Gauge Name	0062

## Test Information

Job Number	RR052
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Sec: 5-19s-12w (Barton County)
Start Test Date	2014/07/20 YYYY/MM/DD
Start Test Time	18:47:00 HH:mm:ss
Final Test Date	2014/07/21 YYYY/MM/DD
Final Test Time	01:55:00 HH:mm:ss



## Test Results

### Recovery:

112'	GIP		
10'	SLOCM	4% O	96% M

Tool Sample: 15% O 85% M





**DIAMOND TESTING**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (800) 542-7313

TIME ON: 10:59  
 TIME OFF: 17:58

**DRILL-STEM TEST TICKET**

FILE: Barrow Properties L.C 2 Dst 2

Company L.D Drilling INC. Lease & Well No. Barrow Properties L.C  
 Contractor Petromark Drilling Rig 2 Charge to L.D Drilling L.C  
 Elevation 1813 KB Formation \_\_\_\_\_ Lan "C-F" Effective Pay \_\_\_\_\_ Ft. Ticket No. RR053  
 Date 07/21/2014 Sec. 5 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 12 W County \_\_\_\_\_ Barton State KANSAS  
 Test Approved By Wes Hanson Diamond Representative RICKY RAY

Formation Test No. 2 Interval Tested from 3138 ft. to 3180 ft. Total Depth 3180 ft.  
 Packer Depth 3133 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3138 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3126 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3142 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 49 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
 Weight 8.9 Water Loss 9.6 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
 Chlorides 9500 P.P.M. Drill Pipe Length 2991 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number SJ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NA Reversed Out NA Anchor Length 42 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 2" Blow BOB in 1 1/4 mins NOBB  
 2nd Open: 3/4 Blow BOB in 4 3/4 mins NOBB

Recovered 10 ft. of GIP  
 Recovered 50 ft. of SLG+SLOWCM 2% G 1% O 8% W 89% M  
 Recovered 1178 ft. of SLG+SLOHMCW 4% G 1% O 70% W 25% M  
 Recovered 122 ft. of SLO+HWM 1% O 86% W 13% M

Recovered <u>1350</u> ft. of <u>Total Fluid</u>	PH: <u>7</u>	Price Job
Recovered _____ ft. of _____	RW <u>.09 @ 102 Deg</u>	Other Charges
Remarks: _____	Chlorides: <u>55,000 PPM</u>	Insurance
Tool Sample: 1% O 97% W 2% M		Total

Time Set Packer(s) 12:35 PM A.M. P.M. Time Started Off Bottom 3:35 PM A.M. P.M. Maximum Temperature 112

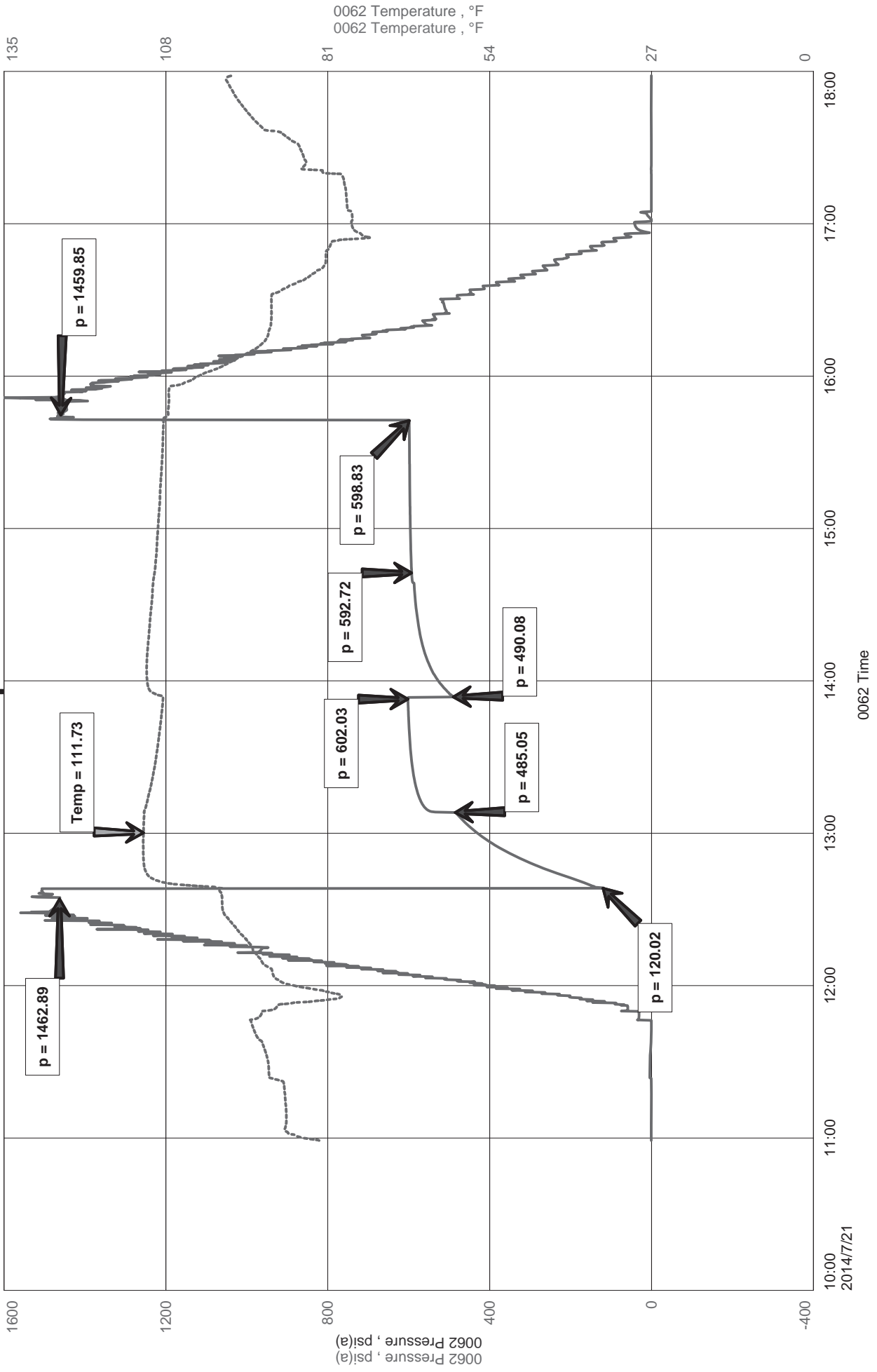
Initial Hydrostatic Pressure..... (A) 1463 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 120 P.S.I. to (C) 485 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 602 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 490 P.S.I. to (F) 593 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 599 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1460 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.

L.D Drilling Inc  
Dst 2 Lan "C-F" (3138-3180)  
Start Test Date: 2014/07/21  
Final Test Date: 2014/07/21

Barrow Properties L.C 2  
Formation: Dst 2 Lan "C-F" (3138-3180)  
Pool: Infield  
Job Number: RR053

# Barrow Properties L.C 2





# Diamond Testing LLC

P.O. Box 157

Hoisington KS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

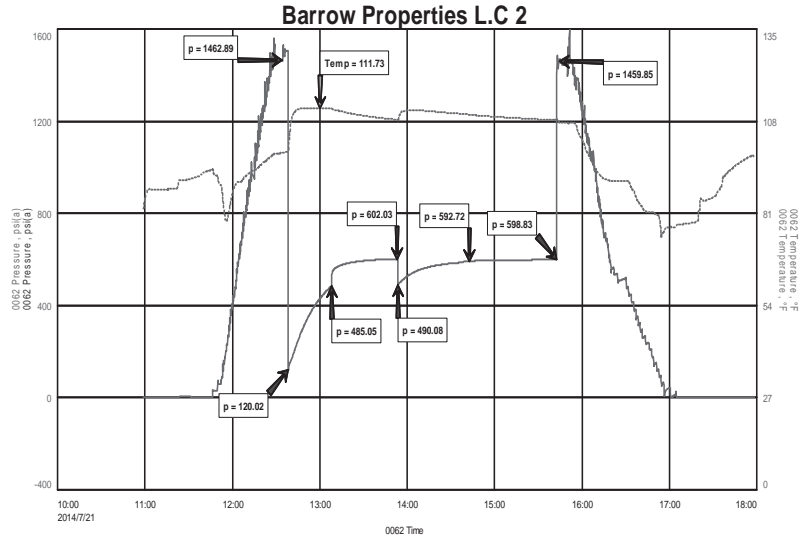
## Wellsite Report

### General Information

Company Name	L.D Drilling Inc
Contact	L.D Davis
Well Operator	L.D Drilling
Well Name	Barrow Properties L.C 2
Surface Location	Sec: 5-19s-12w (Barton County)
Field	Chenylene West
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	Wes Hanson
Gauge Name	0062

### Test Information

Job Number	RR053
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 2 Lan "C-F" (3138-3180)
Start Test Date	2014/07/21 YYYY/MM/DD
Start Test Time	10:59:00 HH:mm:ss
Final Test Date	2014/07/21 YYYY/MM/DD
Final Test Time	17:58:00 HH:mm:ss



### Test Results

#### Recovery:

10'	GIP				
50'	SLG+SLOWCM	2% G	1% O	8% W	89% M
1178'	SLG+SLOHMCW	4%G	1% O	70%W	25%M
122'	SLO+HWM	1%O	86%W	13%M	
1350'	Total Fluid				

Tool Sample: 1% O 97% W 2% M

PH: 7  
 RW .09 @ 102 Deg  
 Chlorides: 55,000 PPM



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

TIME ON: 11:45  
TIME OFF: 15:36

**DRILL-STEM TEST TICKET**  
FILE: Barrow Properties L.C 2 Dst 3

Company L.D Drilling INC. Lease & Well No. Barrow Properties L.C  
Contractor Petromark Drilling Rig 2 Charge to L.D Drilling L.C  
Elevation 1813 KB Formation \_\_\_\_\_ Lan "H-K" Effective Pay \_\_\_\_\_ Ft. Ticket No. RR054  
Date 07/22/2014 Sec. 5 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 12 W County \_\_\_\_\_ Barton State KANSAS  
Test Approved By Wes Hanson Diamond Representative \_\_\_\_\_ RICKY RAY

Formation Test No. 3 Interval Tested from 3326 ft. to 3330 ft. Total Depth 3330 ft.  
Packer Depth 3221 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3226 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3215 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3295 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 12.8 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
Chlorides 14000 P.P.M. Drill Pipe Length 3079 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number SJ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 41P (104) ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open:  
2nd Open:

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: MISS RUN Packer Failure  
Failed To Seat

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 1:24 PM A.M. / P.M. Time Started Off Bottom MR A.M. / P.M. Maximum Temperature 103  
Initial Hydrostatic Pressure..... (A) 1532 P.S.I.  
Initial Flow Period..... Minutes (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) 1539 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.

L.D Drilling Inc.

Dst 3 Lan "H-k" (3226-3330)

Start Test Date: 2014/07/21

Final Test Date: 2014/07/21

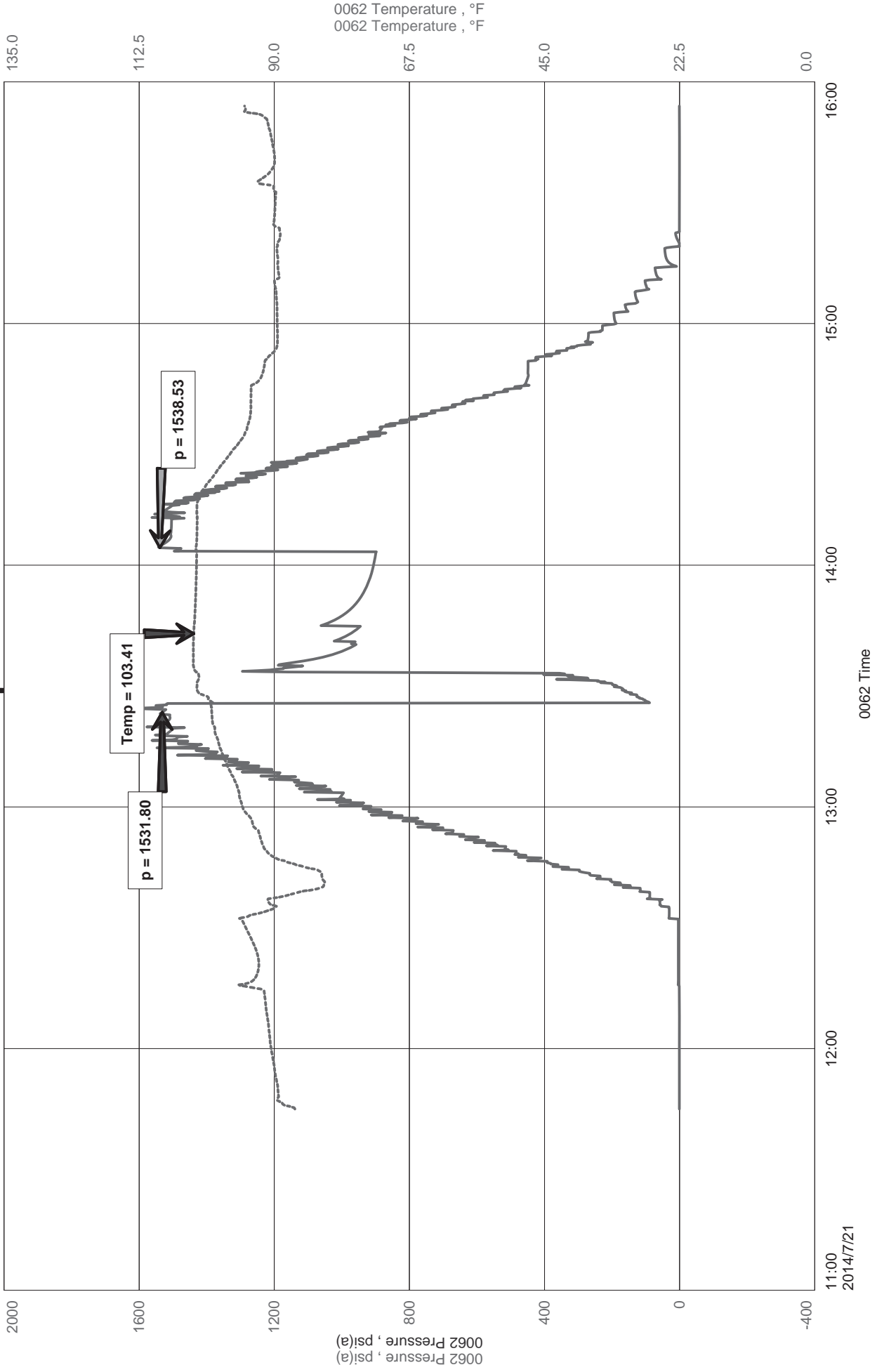
Barrow Properties L.C 2

Formation: Dst 3

Lan "H-k" (3226-3330)

Pool: Infield  
Job Number: RR054

# Barrow Properties L.C 2





Diamond Testing LLC  
P.O. Box 157  
HoisingtonKS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

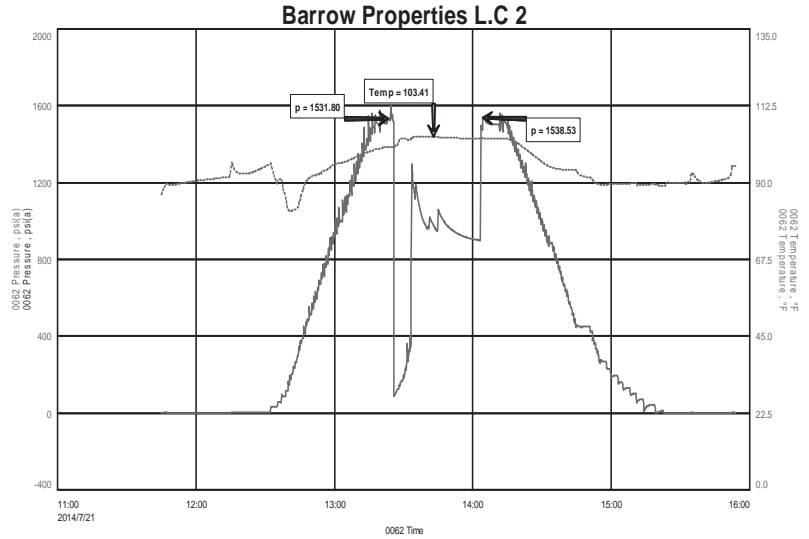
# Wellsite Report

## General Information

Company Name	L.D Drilling Inc.
Contact	L.D Davis
Well Operator	L.D Drilling
Well Name	Barrow Properties L.C 2
Surface Location	Sec: 5-19s-12w (Barton County)
Field	Cheneyenne West
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	Wes Hanson
Gauge Name	0062

## Test Information

Job Number	RR054
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 3 Lan "H-k" (3226-3330)
Start Test Date	2014/07/22 YYYY/MM/DD
Start Test Time	11:45:00 HH:mm:ss
Final Test Date	2014/07/22 YYYY/MM/DD
Final Test Time	15:36:00 HH:mm:ss



## Test Results

Miss Run      Packer Failed to Seat



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

TIME ON: 16:42  
TIME OFF: 21:30

**DRILL-STEM TEST TICKET**  
FILE: Barrow Properties L.C 2 Dst 4

Company L.D Drilling Inc Lease & Well No. Barrow Properties L.C 2  
Contractor Petromark Drilling Rig 2 Charge to L.D Drilling Inc  
Elevation 1813 KB Formation \_\_\_\_\_ Lan "H-K" Effective Pay \_\_\_\_\_ Ft. Ticket No. RR055  
Date 07/22/2014 Sec. 5 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 12 W County \_\_\_\_\_ Barton State KANSAS  
Test Approved By Wes Hanson Diamond Representative RICKY RAY

Formation Test No. 4 Interval Tested from 3220 ft. to 3330 ft. Total Depth 3330 ft.  
Packer Depth 3215 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3220 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3208 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3288 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 12.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 14000 P.P.M. Drill Pipe Length 3073 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number SJ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 47P(110A) ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open:  
2nd Open:

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: Miss Run  
Mandrell Broke Inside Hydraulic Tool

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 6:15 A.M. P.M. Time Started Off Bottom Miss Run A.M. P.M. Maximum Temperature 106  
Initial Hydrostatic Pressure..... (A) 1502 P.S.I.  
Initial Flow Period..... Minutes (B) \_\_\_\_\_ P.S.I. to (C) \_\_\_\_\_ P.S.I.  
Initial Closed In Period..... Minutes (D) \_\_\_\_\_ P.S.I.  
Final Flow Period..... Minutes (E) \_\_\_\_\_ P.S.I. to (F) \_\_\_\_\_ P.S.I.  
Final Closed In Period..... Minutes (G) \_\_\_\_\_ P.S.I.  
Final Hydrostatic Pressure..... (H) 1517 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**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

TIME ON: 02:55  
TIME OFF: 10:55

**DRILL-STEM TEST TICKET**  
FILE: Barrow Properties L.C 2 Dst 5

Company L.D Drilling Inc Lease & Well No. Barrow Properties L.C 2  
Contractor Petromark Drilling Rig 2 Charge to L.D Drilling Inc  
Elevation 1813 KB Formation \_\_\_\_\_ Lan "H-K" Effective Pay \_\_\_\_\_ Ft. Ticket No. RR056  
Date 07/23/2014 Sec. 5 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 12 W County \_\_\_\_\_ Barton State KANSAS  
Test Approved By Wes Hanson Diamond Representative RICKY RAY

Formation Test No. 5 Interval Tested from 3220 ft. to 3330 ft. Total Depth 3330 ft.  
Packer Depth 3215 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3220 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3208 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3288 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 12.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 14000 P.P.M. Drill Pipe Length 3073 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number SJ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 47P(110A) ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/2" Blow BOB in 23 1/4 mins NOBB  
2nd Open: 1" Blow BOB in 4 1/2 mins 1" BB

Recovered 620 ft. of GIP  
Recovered 62 ft. of GO w/ HCM 10% G 10% O 80 % M  
Recovered 122 ft. of HG w/ OWCM 40% G 20% O 15% W 25 % M  
Recovered 184 ft. of Total Fluid

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
Tool Sample: <u>40% O 20% W 40 % M</u>	Total

Time Set Packer(s) 5:24 AM A.M. Time Started Off Bottom 8:24 AM P.M. Maximum Temperature 105

Initial Hydrostatic Pressure..... (A) 1540 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 65 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 788 P.S.I.  
Final Flow Period..... Minutes 45 (E) 61 P.S.I. to (F) 89 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 769 P.S.I.  
Final Hydrostatic Pressure..... (H) 1534 P.S.I.

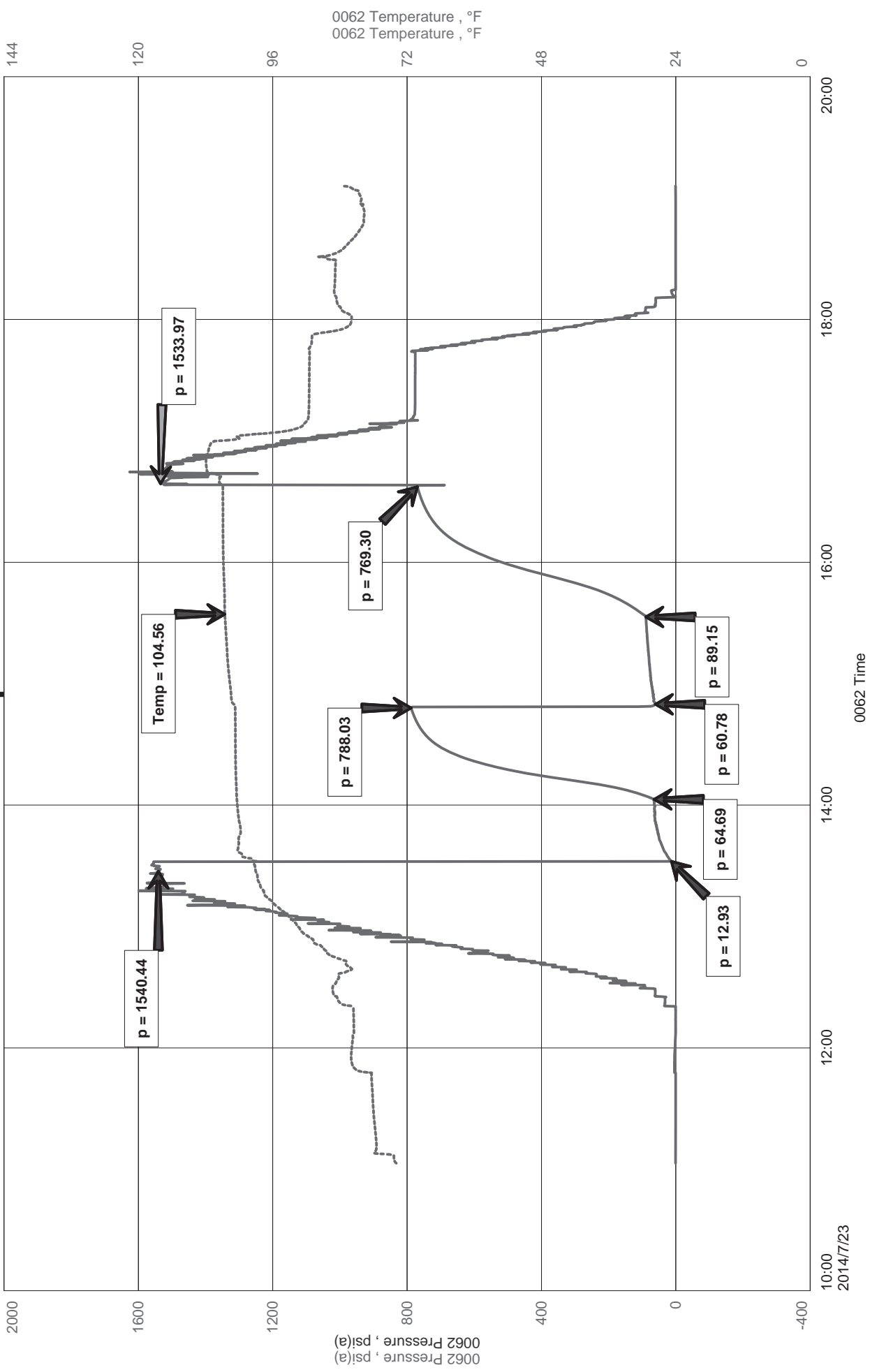
Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged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



L.D Drilling Inc  
Dst 5 Lan "H-K" (3220-3330)  
Start Test Date: 2014/07/23  
Final Test Date: 2014/07/23

Barrow Properties L.C 2  
Formation: Dst 5 Lan "H-K" (3220-3330)  
Pool: Infield  
Job Number: RR056

# Barrow Properties L.C 2





# Diamond Testing LLC

P.O. Box 157

HoisingtonKS 67544

**Ricky Ray - Tester**

**(620) 617-7261**

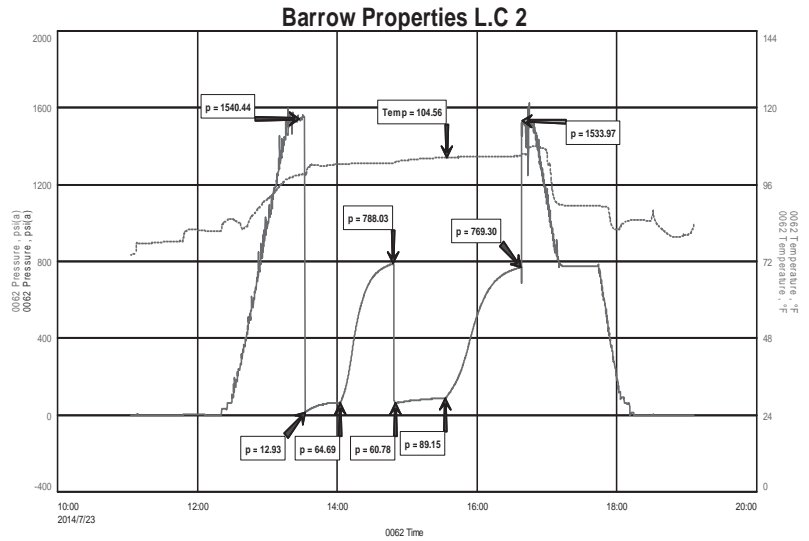
## Wellsite Report

### General Information

Company Name	L.D Drilling Inc
Contact	L.D Davis
Well Operator	L.D Drilling
Well Name	Barrow Properties L.C 2
Surface Location	Sec: 5--19s-12w
Field	Cheneyenne West
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	Wes Hanson
Gauge Name	0062

### Test Information

Job Number	RR056
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 5 Lan "H-K" (3220-3330)
Start Test Date	2014/07/23 YYYY/MM/DD
Start Test Time	02:55:00 HH:mm:ss
Final Test Date	2014/07/23 YYYY/MM/DD
Final Test Time	10:55:00 HH:mm:ss



### Test Results

#### Recovery:

620'	GIP					
62'	GO w/ HMC	10%G	20% O	80% M		
122'	HG w/ OWCM	40%G	20% O	15% W	25% M	
184'	Total Fluid					

Tool Sample: 40% O 20% W 40% M



**DIAMOND TESTING**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (800) 542-7313

TIME ON: 22:45 07/23  
 TIME OFF: 06:21 07/24

**DRILL-STEM TEST TICKET**  
 FILE: Barrow Properties L.C 2 Dst 6

Company L.D Drilling Inc Lease & Well No. Barrow Properties L.C 2  
 Contractor Petromark Drilling Rig 2 Charge to L.D Drilling Inc  
 Elevation 1813 KB Formation \_\_\_\_\_ Arb Effective Pay \_\_\_\_\_ Ft. Ticket No. RR057  
 Date 07/23/2014 Sec. 5 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 12 W County \_\_\_\_\_ Barton State KANSAS  
 Test Approved By Wes Hanson Diamond Representative RICKY RAY

Formation Test No. 6 Interval Tested from 3346 ft. to 3378 ft. Total Depth 3378 ft.  
 Packer Depth 3341 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 3346 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) 3334 ft. Recorder Number \_\_\_\_\_ 0062 Cap. \_\_\_\_\_ 5000 P.S.I.  
 Bottom Recorder Depth (Outside) 3350 ft. Recorder Number \_\_\_\_\_ 5954 Cap. \_\_\_\_\_ 5000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
 Weight 9.2 Water Loss 12.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 14000 P.P.M. Drill Pipe Length 3199 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number SJ Test Tool Length 25 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NA Reversed Out NA Anchor Length 32 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4" Blow Built to 1 inch in 30 mins NOBB  
 2nd Open: No Blow NOBB

Recovered <u>8</u> ft. of <u>SLG w/ OCM</u> <u>2% G</u> <u>4% O</u> <u>98 % M</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
Tool Sample: <u>2 % G</u> <u>12 % O</u> <u>86% M</u>	Total

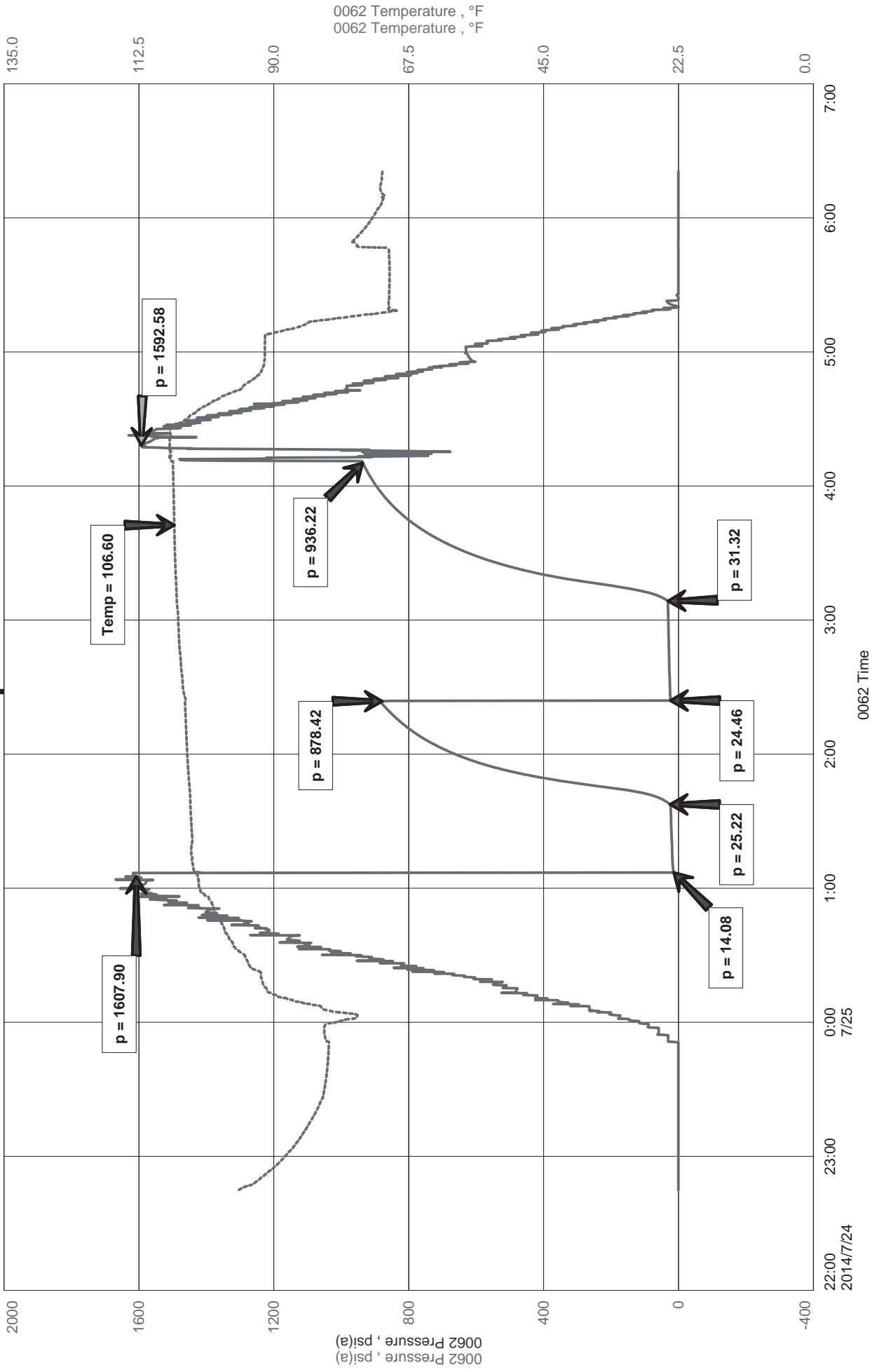
Time Set Packer(s) 1:08 07/24 A.M. P.M. Time Started Off Bottom 4:08 07/24 A.M. P.M. Maximum Temperature \_\_\_\_\_  
 Initial Hydrostatic Pressure..... (A) 1608 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 25 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 878 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 24 P.S.I. to (F) 31 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 936 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1593 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.

L.D Drilling Inc  
Dst 6 Arbuckle (3346-3378)  
Start Test Date: 2014/07/23  
Final Test Date: 2014/07/24

Barrow Properties L.C 2  
Formation: Dst 6 Arbuckle (3346-3378)  
Job Number: RR057

# Barrow Properties L.C 2





Diamond Testing LLC  
 P.O. Box 157  
 HoisingtonKS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

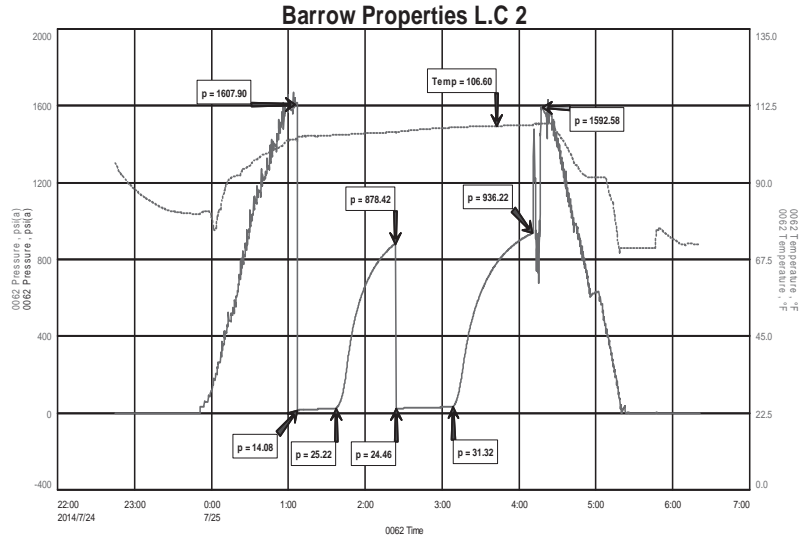
# Wellsite Report

## General Information

Company Name	L.D Drilling Inc
Contact	L.D Davis
Well Operator	L.D Drilling
Well Name	Barrow Properties L.C 2
Surface Location	Sec: 5-19s-12w (Barton County)
Field	Cheneyenne West
Well Type	Vertical
Pool	
Test Purpose (AEUB)	Initial Test
Qualified By	Wes Hanson
Gauge Name	0062

## Test Information

Job Number	RR057
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 6 Arbuckle (3346-3378)
Start Test Date	2014/07/23 YYYY/MM/DD
Start Test Time	22:45:00 HH:mm:ss
Final Test Date	2014/07/24 YYYY/MM/DD
Final Test Time	06:21:00 HH:mm:ss



## Test Results

Recovery:

8'      SLG w/ OCM      2% G      4% O      98% M



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313

TIME ON: 15:39  
TIME OFF: 23:29

**DRILL-STEM TEST TICKET**  
FILE: Barrow Properties L.C 2 Dst 7

Company L.D Drilling Inc Lease & Well No. Barrow Properties L.C 2  
Contractor Petromark Drilling Rig 2 Charge to L.D Drilling Inc  
Elevation 1813 KB Formation \_\_\_\_\_ Arb Effective Pay \_\_\_\_\_ Ft. Ticket No. RR058  
Date 07/24/2014 Sec. 5 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 12 W County \_\_\_\_\_ Barton State KANSAS  
Test Approved By Wes Hanson Diamond Representative RICKY RAY

Formation Test No. 7 Interval Tested from 3376 ft. to 3388 ft. Total Depth 3388 ft.  
Packer Depth 3371 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3376 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3358 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3377 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 122 ft. I.D. 2 1/4 in.  
Weight 8.8 Water Loss 14.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 16500 P.P.M. Drill Pipe Length 3221 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 8 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 12 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/2" Blow BOB in 18 1/2 mins 1/2 BB  
2nd Open: 1/2" Blow BOB in 20 3/4 mins NOBB

Recovered 93 ft. of GIP  
Recovered 279 ft. of O 100% O  
Recovered 122 ft. of WG w/ HOCM 20% G 40% O 6% W 34% M  
Recovered 401 ft. of Total Fluid

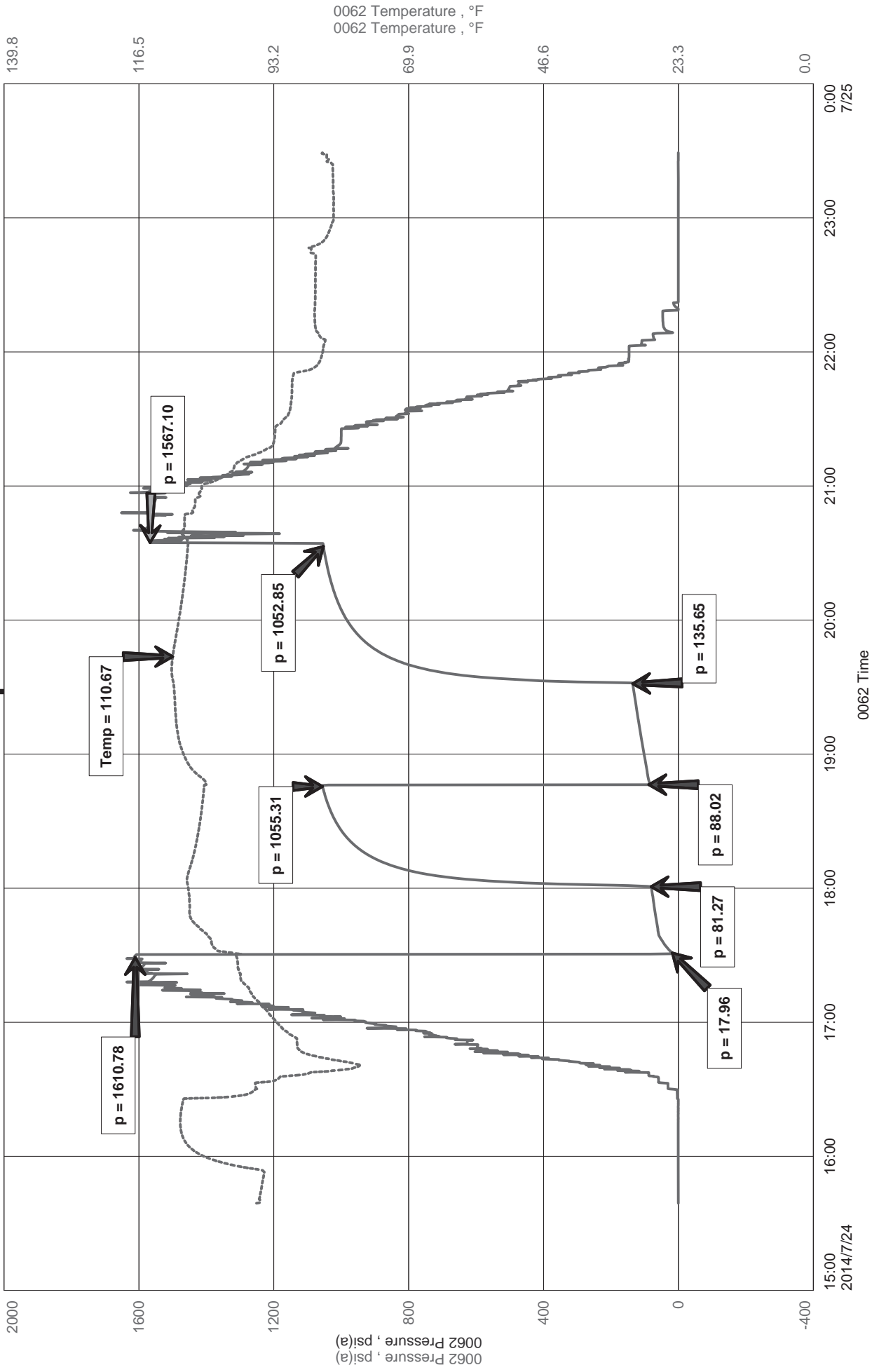
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
Tool Sample: <u>10% G</u> <u>60% O</u> <u>6% W</u> <u>24% M</u>	Total

Time Set Packer(s) 5:31 PM A.M. / P.M. Time Started Off Bottom 8:31 PM A.M. / P.M. Maximum Temperature \_\_\_\_\_

Initial Hydrostatic Pressure..... (A) 1611 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 18 P.S.I. to (C) 81 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1055 P.S.I.  
Final Flow Period..... Minutes 45 (E) 88 P.S.I. to (F) 136 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1053 P.S.I.  
Final Hydrostatic Pressure..... (H) 1567 P.S.I.

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# Barrow Properties L.C 2





# Diamond Testing LLC

P.O. Box 157

HoisingtonKS 67544

**Ricky Ray - Tester**

**(620) 617-7261**

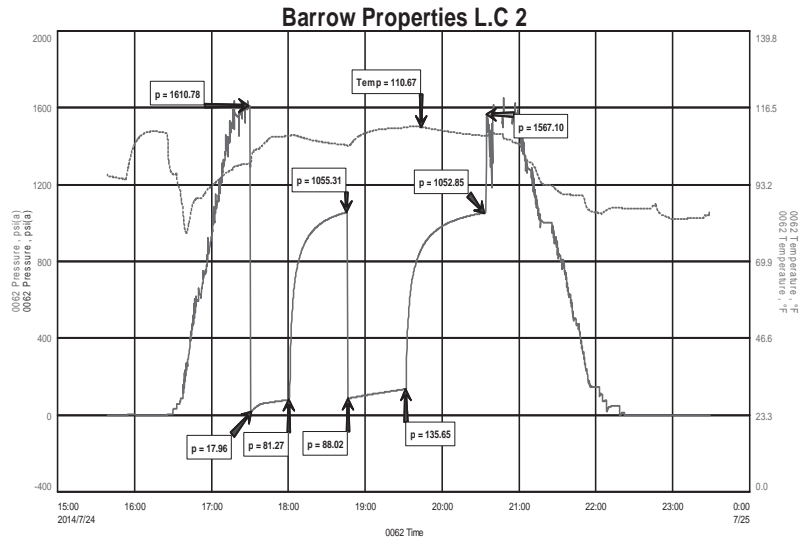
## Wellsite Report

### General Information

Company Name	L.D Drilling Inc
Contact	L.D Davis
Well Operator	L.D Drilling Inc
Well Name	Barrow Properties L.C 2
Surface Location	Sec: 5-19s-12w (Barton County)
Field	Cheneyenne West
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	Wes Hanson
Gauge Name	0062

### Test Information

Job Number	RR058
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 7 Arbuckle (3376-3388)
Start Test Date	2014/07/24 YYYY/MM/DD
Start Test Time	15:39:00 HH:mm:ss
Final Test Date	2014/07/24 YYYY/MM/DD
Final Test Time	23:29:00 HH:mm:ss



### Test Results

#### Recovery:

93'	GIP				
279'	O	100% O			
122'	WG w/ HOCCM	20% G	40% O	6% W	34% M
401'	Total Fluid				

Tool Sample: 10% G 60% O 6% W 24% M