



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____

1141580



Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input 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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method:
	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	QUIVIRA RANCH 3-34
Doc ID	1141580

Tops

Name	Top	Datum
HEEBNER	3062	-1263
TORONTO	3081	-1282
DOUGLAS	3098	-1299
BROWN LIME	3203	-1404
LANSING	3221	-1422
BASE KANSAS CITY	3487	-1688
VIOLA	3532	-1733
SIMPSON SHALE	3573	-1774
ARBUCKLE	3617	-1818



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 07616 A

DATE _____ TICKET NO. _____

DATE OF JOB 2-18-2013 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 QUIVERA RANCH 3-34 WELL NO. _____				
ADDRESS _____		COUNTY STAFFORD STATE Ks.				
CITY _____ STATE _____		SERVICE CREW LESLEY, MARQUEZ, LAWRENCE				
AUTHORIZED BY _____		JOB TYPE: CNW - 5 1/2" L.S.				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 2-17-13 DATE PM 6:00
37586	5.5					ARRIVED AT JOB PM 10:00
19907	5.5					START OPERATION PM 11:30
19889-19843	5.5					FINISH OPERATION 2-18-13 AM 2:30
19826-19860	5.5					RELEASED AM 3:30
						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: Brandan D. Wills
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP100C	COMMON CMT.	SK	150		2,400.00
CP 103	60/40 POZ	SK	30		360.00
CC 105	C-41P DEFOAMER	lb	36		144.00
CC 111	SALT	lb	1216		608.00
CC 112	CMT. FRICTION REDUCER	lb	106		636.00
CC 113	GYPSON	lb	705		528.75
CC 201	GILSONITE	lb	750		502.50
CF 103	TOP RUBBER CMT. PLUG, 5 1/2"	EA	1		105.00
CF 251	REGULAR GUIDE SHOE, 5 1/2"	EA	1		250.00
CF 1451	FLAPPER TYPE INSERT FLOAT VALVE, 5 1/2"	EA	1		215.00
CF 1651	TURBOLYZER, 5 1/2"	EA	6		660.00
CC 159	FLOW-SEAL 11 (SOD. SILICATE)	GAL	330		1,980.00
E 100	PICKUP MILEAGE	MI	45		191.25
E 101	HEAVY EQUIPMENT MILEAGE	MI	90		630.00
E 113	BULK DELIVERY CHARGE	TM	316		601.20
CE 204	DEPTH CHARGE, 3001' - 4000'	HR	1-4		2,160.00
CE 240	BLENDING SERVICE	SK	180		252.00
CE 504	PLUG CONTAINER	CB	1		250.00
S 003	SERVICE SUPERVISOR	EA	1		175.00
					SUB TOTAL \$ 9,486.53

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE <u>Lesley</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Brandan D. Wills</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
FIELD SERVICE ORDER NO. _____	

Customer LD DRILLING, INC.	Lease No.	Date 2-18-2013
Lease QUIVERA RANCH	Well # 3-34	
Field Order # 01616	Station PRATT, KS.	Casing 5 1/2"
Type Job CNW - 5 1/2" L.S.	Formation TD - 3720'	Legal Description 34-22-11
Depth	County STAFFORD	State KS.

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2" x 14#	Tubing Size	Shots/Ft	CMT -	Acid 150 SKS. COMMON		RATE	PRESS	ISIP
Depth 3718.3'	Depth	From	To	Pre Pad @ 1.36 CU FT	Max			5 Min.
Volume 90.72 BBL	Volume	From	To	Pad	Min	5J = 12'		10 Min.
Max Press 1500	Max Press	From	To	Frac	Avg			15 Min.
Well Connection P.C.	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 3706.3'	Packer Depth	From	To	Flush 90.4 BBL	Gas Volume			Total Load

Customer Representative LD	Station Manager D. SCOTT	Treater K. LESLEY
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Service Units	37586	19889	19843	19826	19810				
Driver Names	LESLEY	MARQUEZ	---	LAWRENCE	---				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00 PM	2-17-13				ON LOCATION - SAFETY MEETING
11:30 PM	?				RUN 90 JTS. 5 1/2" x 14# CSG.
12:55 AM	2-18-13				CSG. ON BOTTOM
1:15 AM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
1:55 AM	275		5	6	H2O AHEAD
1:56 AM	250		8	6	SODIUM SILICATE
1:58 AM	250		5	6	H2O SPACER
1:59 AM	200		36	6	MIX 150 SKS. COMMON @ 15.5 PPG
?					LEAVE 1/2 TOB OF CMT.
2:05 AM					CLEAR TUB, PUMP, LINE - DROP T.R. PLUG
2:11 AM	0		0	6	START DISPLACEMENT
2:22 AM	200		65	5	LIFT PRESSURE
2:25 AM	600		80	2	SLOW RATE TO 2BPM LAST 10 BBL
2:30 AM	1200		90.4	2	PLUG DOWN - HELD
					CIRC. THRU JOB
			6		PLUG R.H.
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY

LD DRUG. - QUEVEDO RANCH 3-34

TD - 3720'

RUN 90 JTS. 5 1/2 14# CSG.

LEAVE 1 JT. OUT - #81 - 38.34'

$$\begin{array}{r} 90 \text{ JTS} = 3711.30' \\ + 6.00' \text{ LAND JT} \\ \hline 3717.30' \end{array}$$

SET 5 1/2 AT 3715'

SHOE JT = 12'

INSERT FLOAT AT 3703'

CENTRALIZER - 1-3-4-5-7-9

PLUG DOWN - 0230 2/18/13

TRULIED 91 JTS = 3749.64'



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET
1718 07818 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>2-12-13</u> DISTRICT <u>Pratt</u>				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 <u>L.D. Drilling</u>				LEASE <u>Quivera Ranch</u>		WELL NO. <u>3-34</u>			
ADDRESS				COUNTY <u>Stafford</u>		STATE <u>Ks</u>			
CITY _____ STATE _____				SERVICE CREW <u>Orlando, McBrow, Young</u>					
AUTHORIZED BY _____				JOB TYPE: <u>CNW-8 5/8 Surface</u>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>27283</u>	<u>1/2</u>						<u>2-11-13</u>	<u>AM</u>	<u>9:30</u>
<u>27463</u>	<u>1/2</u>						<u>2-11-13</u>	<u>AM</u>	<u>10:30</u>
<u>27686-73768</u>	<u>1/2</u>						<u>2-12-13</u>	<u>AM</u>	<u>12:45</u>
								<u>PM</u>	<u>1:15</u>
								<u>AM</u>	<u>2:00</u>
								<u>PM</u>	
									<u>45</u>

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: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CPI01	Alcon Blend Common	SK	175		3150.00
CPI02	Common Cement	SK	175		2800.00
EC102	Cellulose	LB	28		325.60
CC109	Calcium Chloride	LB	825		866.25
CF153	Wooden Cement Plug 8 5/8	ea	1		160.00
CC131	Sugar	LB	100		200.00
E100	Pickup Mileage	mi	45		191.25
E101	Heavy Equipment Mileage	mi	90		630.00
E113	Bulk Delivery	Tm	243		1188.00
CE200	Depth Charge 0-500	ea	1		1000.00
CE240	Blending & Mixing	SK	350		4900.00
CE504	Plug Container	ea	1		250.00
S003	Service Supervisor	ea	1		175.00

SUB TOTAL DLS 8569.58

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE <u>Steve Orlando</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Jim Niche</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. _____



TREATMENT REPORT

Customer <i>L.D. Drilling</i>	Lease No.	Date <i>2-12-13</i>
Lease <i>Quivera Ranch</i>	Well # <i>3-34</i>	
Field Order # <i>7818</i>	Station <i>P.041</i>	Casing <i>8-7/8</i>
	Depth <i>348</i>	County <i>Stafford</i>
Type Job <i>CNW - 8 5/8 Surface</i>	Formation	Legal Description <i>3422-11</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft			RATE	PRESS	ISIP	
			<i>175</i>	<i>Acid</i>	<i>Acid Blend</i>			
Depth <i>348</i>	Depth	From	To	Pre Pad	<i>2.117 gal/min</i>	Max		5 Min.
Volume <i>22</i>	Volume	From	To	Pad	<i>Common</i>	Min		10 Min.
Max Press <i>1800</i>	Max Press	From	To	Frac	<i>1.209 gal/min</i>	Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <i>323</i>	Packer Depth	From	To	Flush	<i>21.0</i>	Gas Volume		Total Load

Customer Representative <i>Jim</i>	Station Manager <i>Dave Small</i>	Treater <i>Steve Orlado</i>
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Service Units	<i>27223</i>	<i>27463</i>	<i>77686</i>	<i>73768</i>				
Driver Names	<i>016-00</i>	<i>M. Blaw</i>	<i>402-05</i>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>11:00 AM</i>					<i>On location - Safety Meeting</i>
					<i>Ran 8 3/4, 8 5/8 Casing</i>
					<i>Casing on Bottom Break (C/W/K)</i>
	<i>300</i>		<i>77</i>	<i>5</i>	<i>Mix 175 gal Acid Blend @ 12# / gal</i>
	<i>300</i>		<i>37</i>	<i>5</i>	<i>Mix 175 gal Common @ 15.6# / gal</i>
					<i>Release Plug</i>
	<i>0</i>	<i>0</i>		<i>5</i>	<i>Start H₂O Displacement</i>
	<i>300</i>		<i>9</i>	<i>5</i>	<i>Connect To Surface</i>
<i>1:15 PM</i>	<i>300</i>		<i>21.0</i>	<i>H</i>	<i>Plug Down</i>
					<i>Close In Manifold</i>
					<i>Circulation Through Job</i>
					<i>(Circulated) 12 bbl Top +</i>
					<i>Job Complete</i>
					<i>Thank You</i>



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	LD Drilling	Well Name	Quivira Ranch #3-34
Well Operator	LD Drilling	Unique Well ID	DST #1 Lansing "B-F" 3240'-3315'
Contact	LD Davis	Surface Location	Sec 34-22s-11w-Stafford Co.-KS
Site Contact	Josh Austin	Test Unit	#5
Field	Sleeper South	Pool	Sleeper South
Well Type	Vertical	Job Number	F095
Prepared By	Jake Fahrenbruch	Qualified By	Josh Austin

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	Lansing "B-F" 3240'-3315'	Gauge Name	0062
Start Test Date	2013/02/15	Start Test Time	07:37:00
Final Test Date	2013/02/15	Final Test Time	14:50:00

Test Results

Recovered: 65' SOSM 1% oil, 99% mud
65' GCOSWCM 10% gas, 2% oil, 25% wtr, 63% mud
180' OSW 2% oil, 98% wtr

500' GIP

Total Recovered Fluid: 310'

Tool Sample: OSW, 2% oil, 98% wtr

Chlorides: 66,000 ppm

RW: .175 ohm @ 46 deg F

PH: 7.5

Bottom Hole Temp: 103 Deg F

Pressures: IHP: 1600
IFP: 26-97
ISIP: 1070
FFP: 102-158
FSIP: 1068
FHP: 1594



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 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 _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

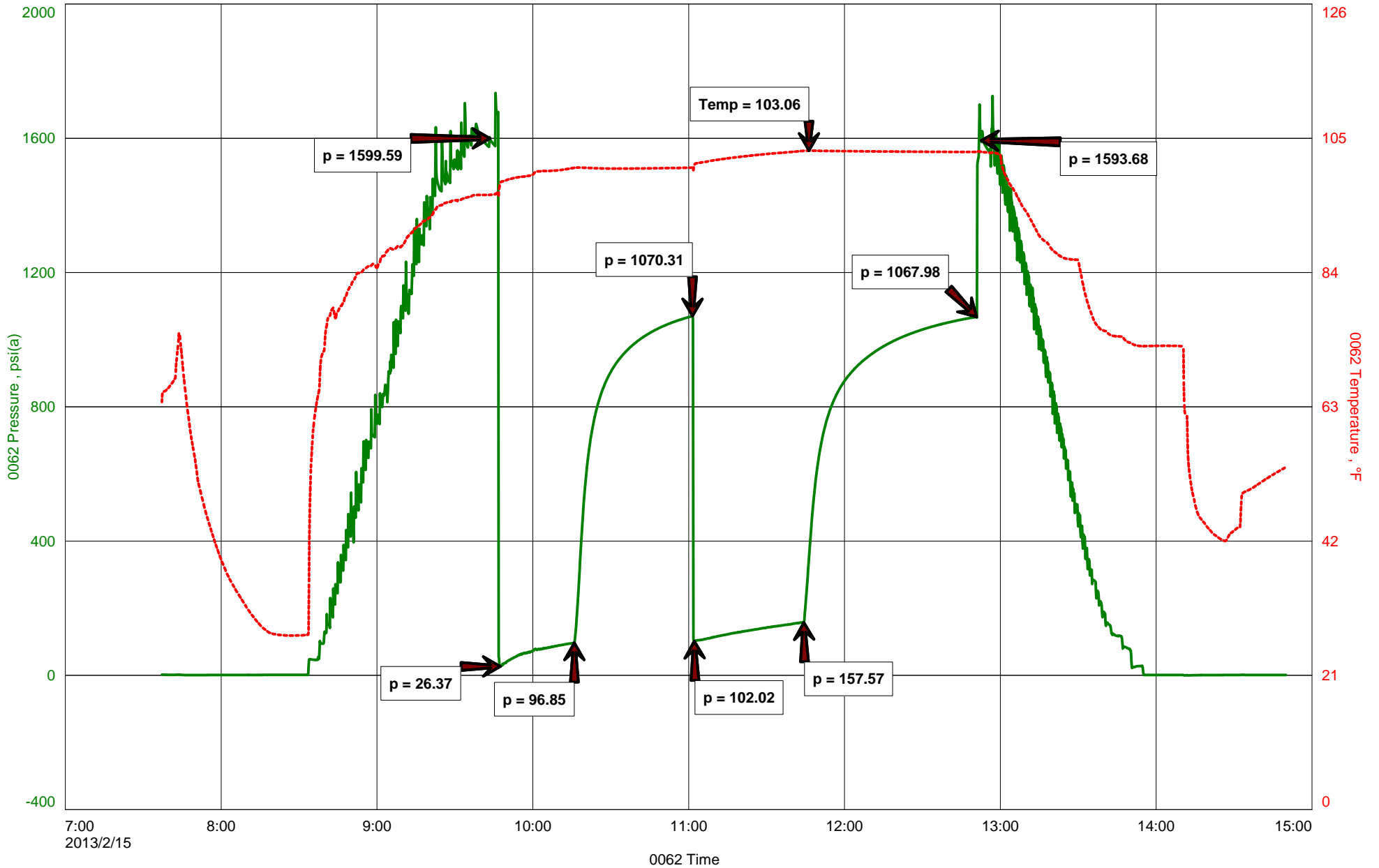
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ 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.

LD Drilling
DST #1 Lansing "B-F" 3240'-3315'
Start Test Date: 2013/02/15
Final Test Date: 2013/02/15

Quivira Ranch #3-34
Formation: Lansing "B-F" 3240'-3315'
Pool: Sleeper South
Job Number: F095

Quivira Ranch #3-34





Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	LD Drilling	Well Name	Quivira Ranch #3-34
Well Operator	LD Drilling	Unique Well ID	DST #2 Lansing "H-K" 3355'-3450'
Contact	LD Davis	Surface Location	Sec 34-22s-11w-Stafford Co.-KS
Site Contact	Josh Austin	Test Unit	#5
Field	Sleeper South	Pool	Sleeper South
Well Type	Vertical	Job Number	F096
Prepared By	Jake Fahrenbruch	Qualified By	Josh Austin

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	Lansing "H-K" 3355'-3450'	Gauge Name	0062
Start Test Date	2013/02/16	Start Test Time	03:35:00
Final Test Date	2013/02/16	Final Test Time	08:46:00

Test Results

Recovered: 170' SOSWCM <1% oil, 28% wtr, 71% mud
 ----- +/- 60' GIP
 ----- Tool Sample: OSWM 1% oil, 43% wtr, 56% mud
 ----- Chlorides: 18,000 ppm
 ----- RW: .7 ohm @ 42 deg F
 ----- PH: 8.0
 ----- Bottom Hole Temp: 103 deg F

Pressures: IHP: 1677
 IFP: 14-74
 ISIP: 1155
 FFP: 77-97
 FSIP: 1136
 FHP: 1676



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth _____ ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 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 _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

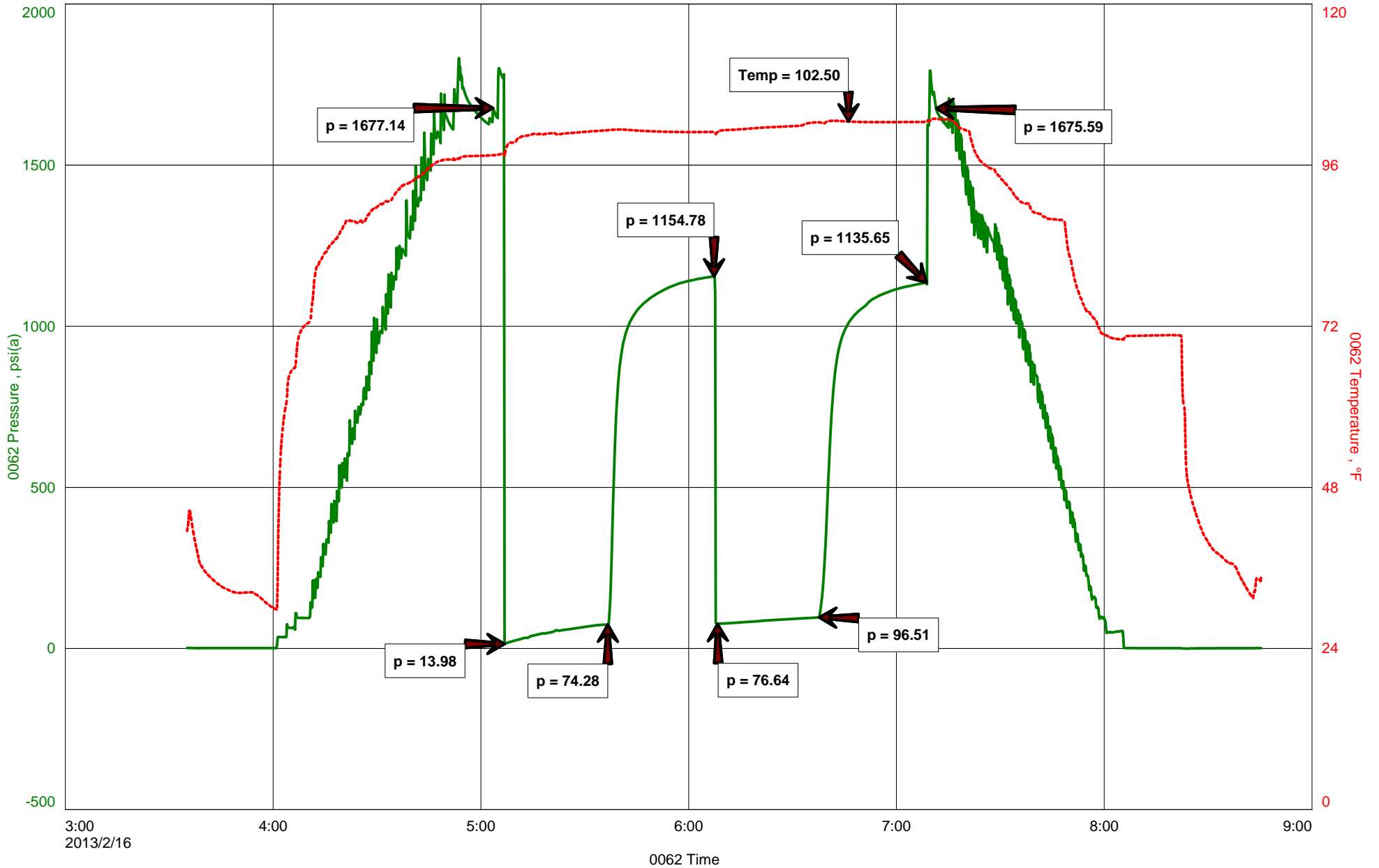
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ 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.

LD Drilling
DST #2 Lansing "H-K" 3355'-3450'
Start Test Date: 2013/02/16
Final Test Date: 2013/02/16

Quivira Ranch #3-34
Formation: Lansing "H-K" 3355'-3450'
Pool: Sleeper South
Job Number: F096

Quivira Ranch #3-34





Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	LD Drilling	Well Name	Quivira Ranch #3-34
Well Operator	LD Drilling	Unique Well ID	DST #3 Arbuckle 3567'-3620'
Contact	LD Davis	Surface Location	Sec 34-22s-11w-Stafford Co.-KS
Site Contact	Josh Austin	Test Unit	#5
Field	Sleeper South	Pool	Sleeper South
Well Type	Vertical	Job Number	F097
Prepared By	Jake Fahrenbruch	Qualified By	Josh Austin

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	Arbuckle 3567'-3620'	Gauge Name	0062
Start Test Date	2013/02/16	Start Test Time	21:45:00
Final Test Date	2013/02/17	Final Test Time	05:20:00

Test Results

Recovered: 645'-----9.16 BBL Clean Gassy Oil 100% oil
 180'-----1.44 BBL Gassy Oily Mud 22% gas, 36% oil, 42% mud
 ----- Total Recovered Fluid: 825' = 10.6 BBL
 ----- Tool Sample: Clean Oil, 100% oil
 ----- Gravity: 36 (corrected)
 ----- Gas To Surface (T.S.T.M.)
 ----- Bottom-Hole Temp: 114 Deg F

Pressures: IHP: 1789
 IFP: 67-185
 ISIP: 1196
 FFP: 200-355
 FSIP: 1208
 FHP: 1786



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

TIME ON: _____
TIME OFF: _____

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State **KANSAS**
Test Approved By _____ Diamond Representative _____

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size **6 3/4** in. Packer depth _____ ft. Size **6 3/4** in.
Packer Depth _____ ft. Size **6 3/4** in. Packer depth _____ ft. Size **6 3/4** in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. **2 1/4** in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. **2 7/8** in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. **3 1/2** in.
Jars: Make **STERLING** Serial Number _____ Test Tool Length _____ ft. Tool Size **3 1/2-IF** in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size **4 1/2-FH** in.
Main Hole Size **7 7/8** Tool Joint Size **4 1/2** in. Surface Choke Size **1** in. Bottom Choke Size **5/8** in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

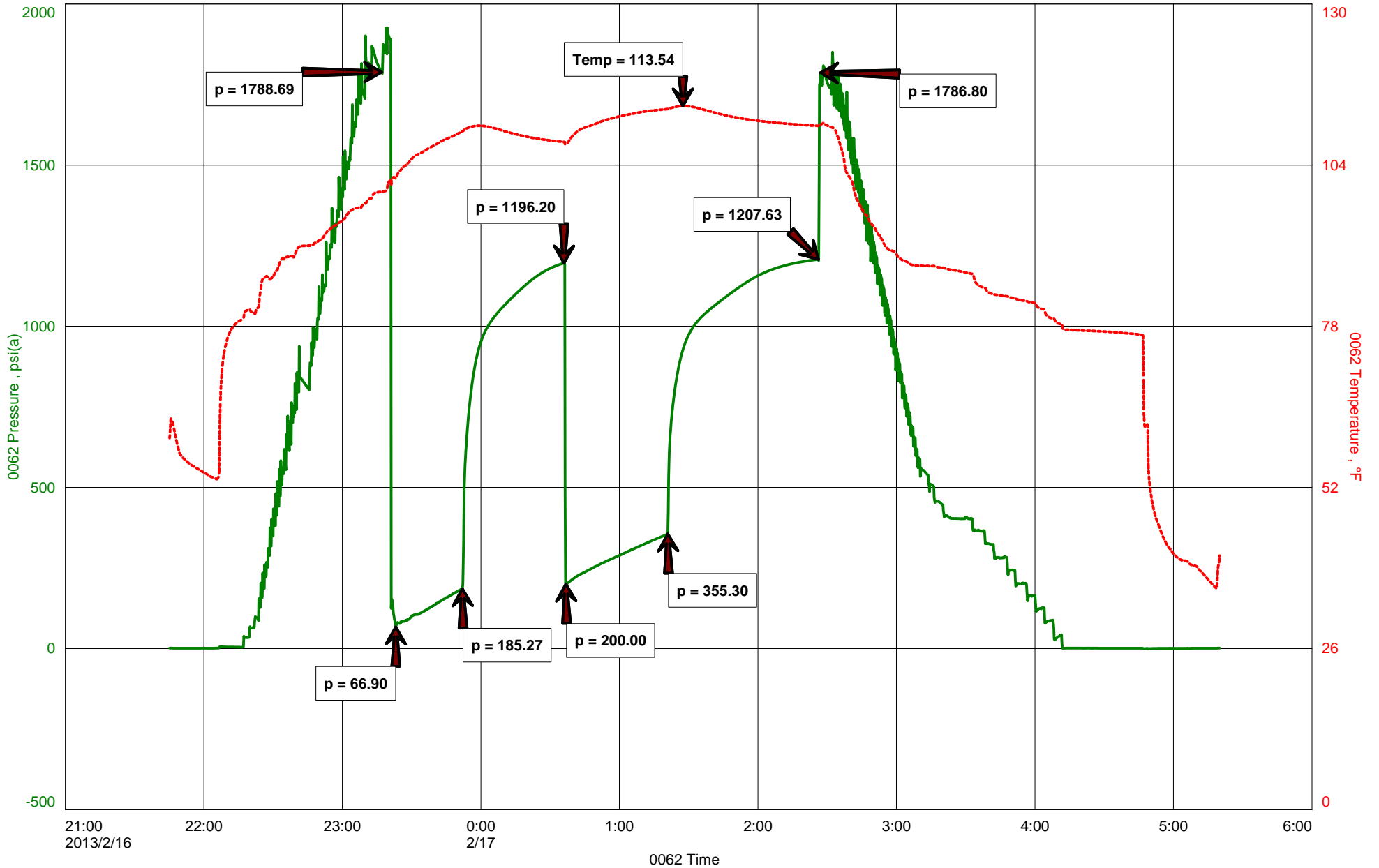
Time Set Packer(s) _____ A.M. P.M. Time Started Off Bottom _____ A.M. P.M. Maximum Temperature _____
Initial Hydrostatic Pressure..... (A) _____ P.S.I.
Initial Flow Period..... Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period..... Minutes _____ (D) _____ P.S.I.
Final Flow Period..... Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period..... Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure..... (H) _____ 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.

LD Drilling
DST #3 Arbuckle 3567'-3620'
Start Test Date: 2013/02/16
Final Test Date: 2013/02/17

Quivira Ranch #3-34
Formation: Arbuckle 3567'-3620'
Pool: Sleeper South
Job Number: F097

Quivira Ranch #3-34



OPERATOR

Company: L.D. Drilling, Inc
 Address: 7 SW 26th Ave
 Great Bend, Kansas 67530

Contact Geologist:
 Contact Phone Nbr: 620-793-3051
 Well Name: Quivira Ranch 3-34
 Location: 8 5/8" @ 343
 Pool:
 State: Kansas, Stafford County

API: 15-185-23792-00-00
 Field: Sleeper South
 Country: USA



Joshua R. Austin

Petroleum Geologist

report for

L.D. DRILLING, INC.



Scale 1:240 Imperial

Well Name: Quivira Ranch 3-34
 Surface Location: 8 5/8" @ 343
 Bottom Location:
 API: 15-185-23792-00-00
 License Number:
 Spud Date: 2/8/2013 Time: 7:34 AM
 Region: SE-SE-NW-NW Sec. 34- T22S- R11W
 Drilling Completed: 2/17/2013 Time: 5:50 PM
 Surface Coordinates: 1,259' From North Line & 1071' From West Line
 Bottom Hole Coordinates:
 Ground Elevation: 1794.00ft
 K.B. Elevation: 1799.00ft
 Logged Interval: 2700.00ft To: 3730.00ft
 Total Depth: 3720.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical mud was displaced at 2600'

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1,259' From North Line
 E/W Co-ord: 1071' From West Line

LOGGED BY

Company: Joshua R. Austin, Petroleum Geologist
 Address: 732 NE 110th Ave
 Stafford, KS 67578

Phone Nbr: 620-546-3960
 Logged By: Geologist Name: Josh Austin

CONTRACTOR

Contractor: Petromark Drilling, LLC
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 2/8/2013 Time: 7:34 AM
 TD Date: 2/17/2013 Time: 5:50 PM
 Rig Release: Time:

ing release:

time:

ELEVATIONS

K.B. Elevation: 1799.00ft
K.B. to Ground: 5.00ft

Ground Elevation: 1794.00ft

NOTES

On the basis of the positive drill stem test in the arbuckle and after reviewing the electric logs it was recommended by all parties involved in the Quivira Ranch #3-34 to run 5 1/2" production casing at the rotary total depth 3720.

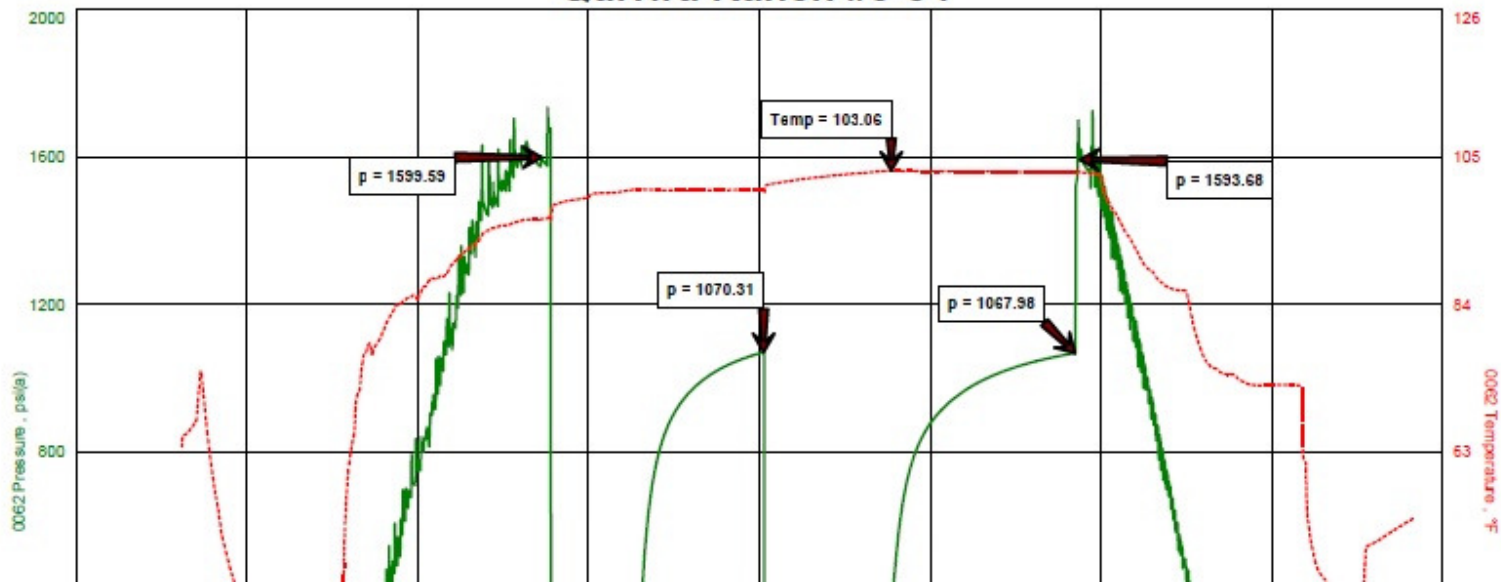
L.D. Drilling, Inc. well comparison sheet

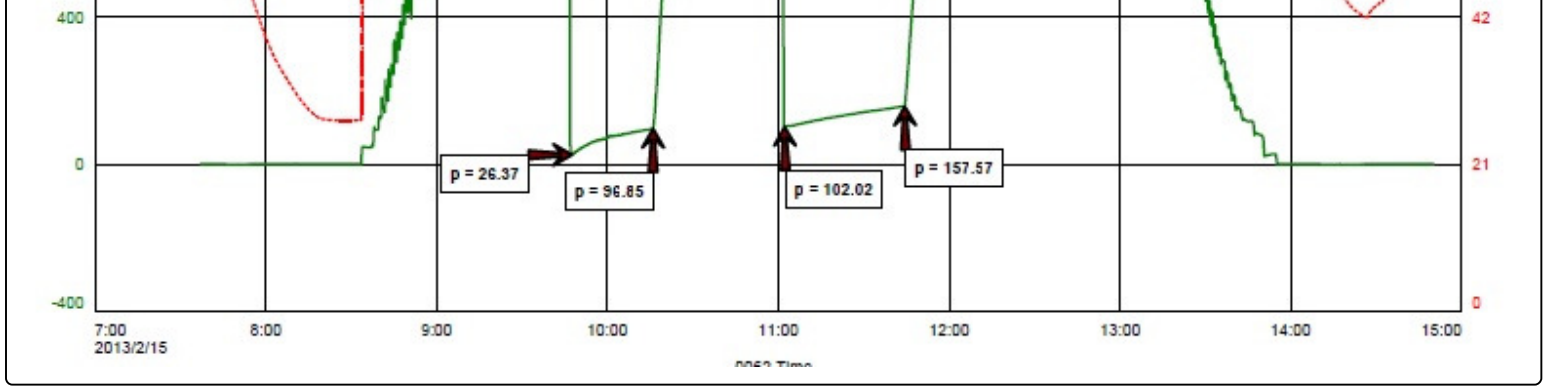
DRILLING WELL					COMPARISON WELL			
Quivira Ranch 3-34					Quivira Ranch 2-34			
							Structural Relationship	
1799 KB					1800 KB			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Heebner	3062	-1263	3062	-1263	3063	-1263	0	0
Toronto	3080	-1281	3081	-1282	3079	-1279	-2	-3
Douglas	3097	-1298	3098	-1299	3096	-1296	-2	-3
Brown Lime	3204	-1405	3203	-1404	3203	-1403	-2	-1
Lansing	3221	-1422	3221	-1422	3219	-1419	-3	-3
Base KC	3488	-1689	3487	-1688	3486	-1686	-3	-2
Viola	3532	-1733	3532	-1733	3536	-1736	3	3
Simpson Shale	3571	-1772	3573	-1774	3577	-1777	5	3
Arbuckle	3617	-1818	3617	-1818	3623	-1823	5	5
Total Depth	3720	-1921	3720	-1921	3730	-1930		

LD Drilling
DST #1 Lansing "B-F" 3240'-3315'
Start Test Date: 2013/02/15
Final Test Date: 2013/02/15

Quivira Ranch #3-34
Formation: Lansing "B-F" 3240'-3315'
Pool: Sleeper South
Job Number: F095

Quivira Ranch #3-34

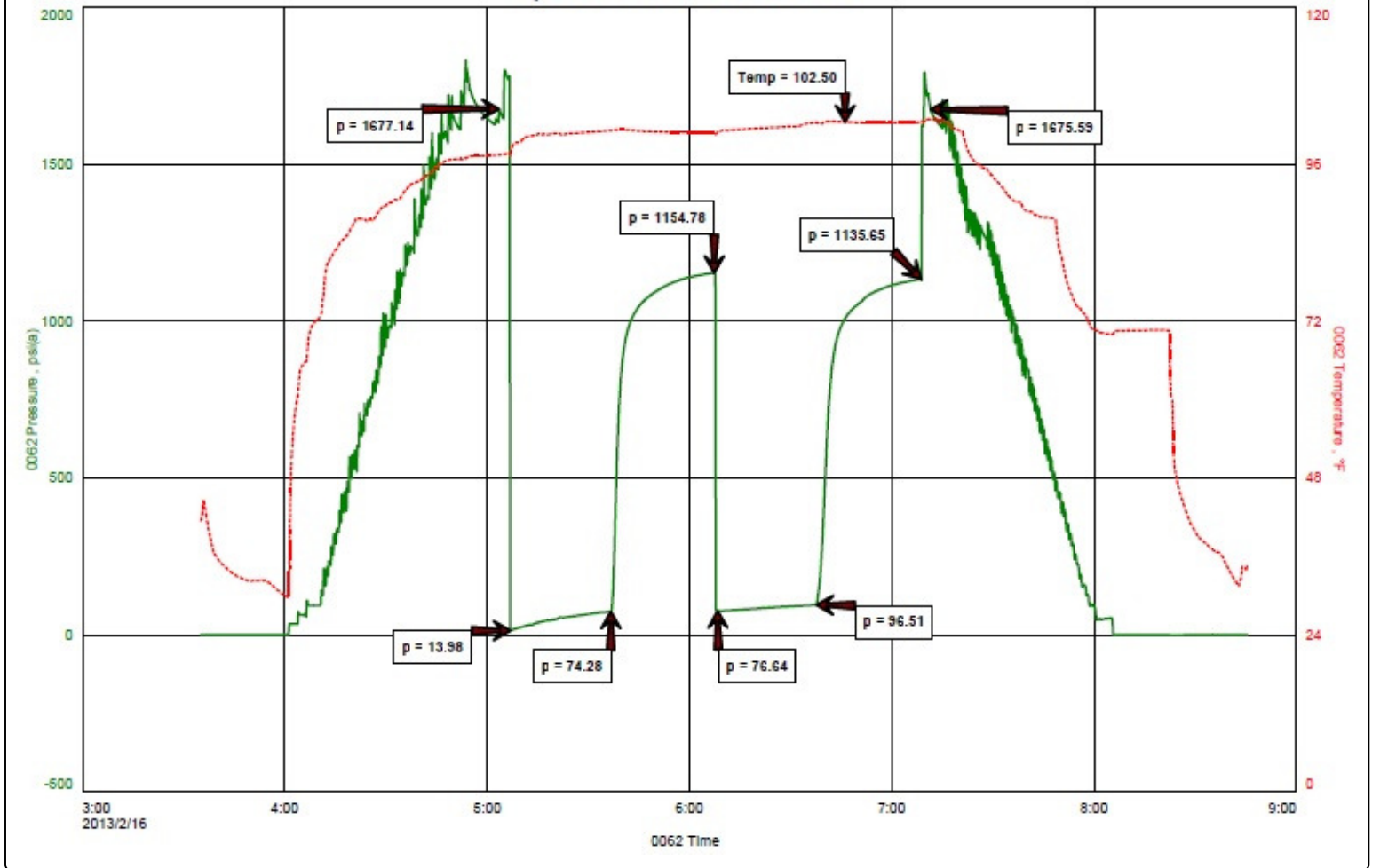




LD Drilling
DST #2 Lansing "H-K" 3355'-3450'
Start Test Date: 2013/02/16
Final Test Date: 2013/02/16

Quivira Ranch #3-34
Formation: Lansing "H-K" 3355'-3450'
Pool: Sleeper South
Job Number: F096

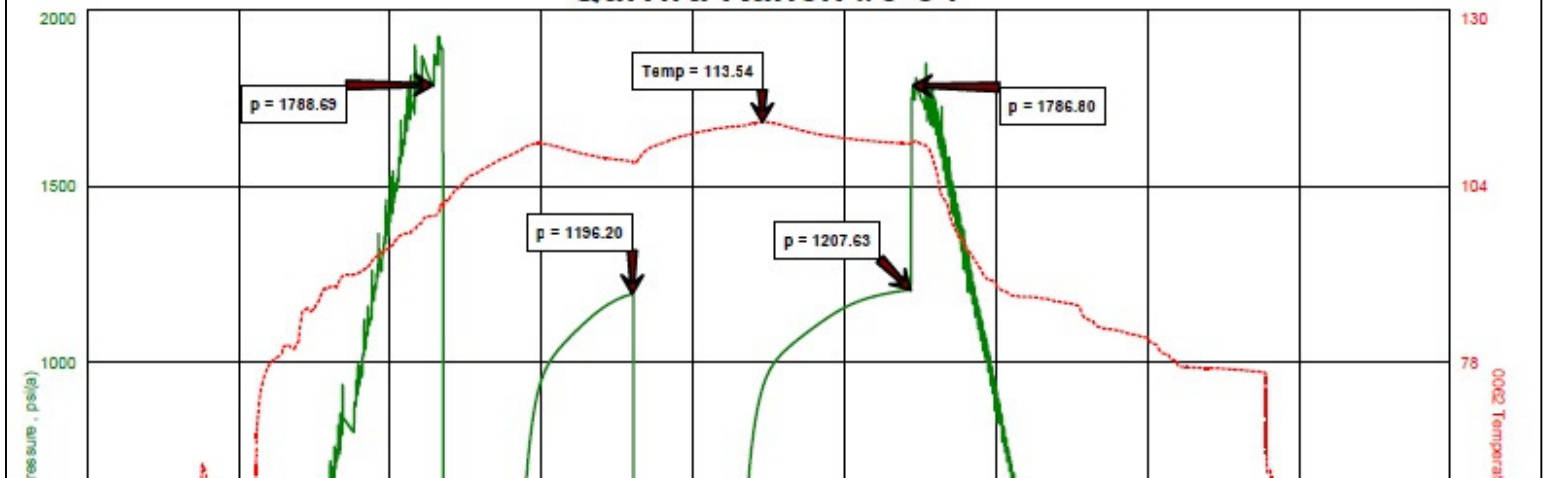
Quivira Ranch #3-34

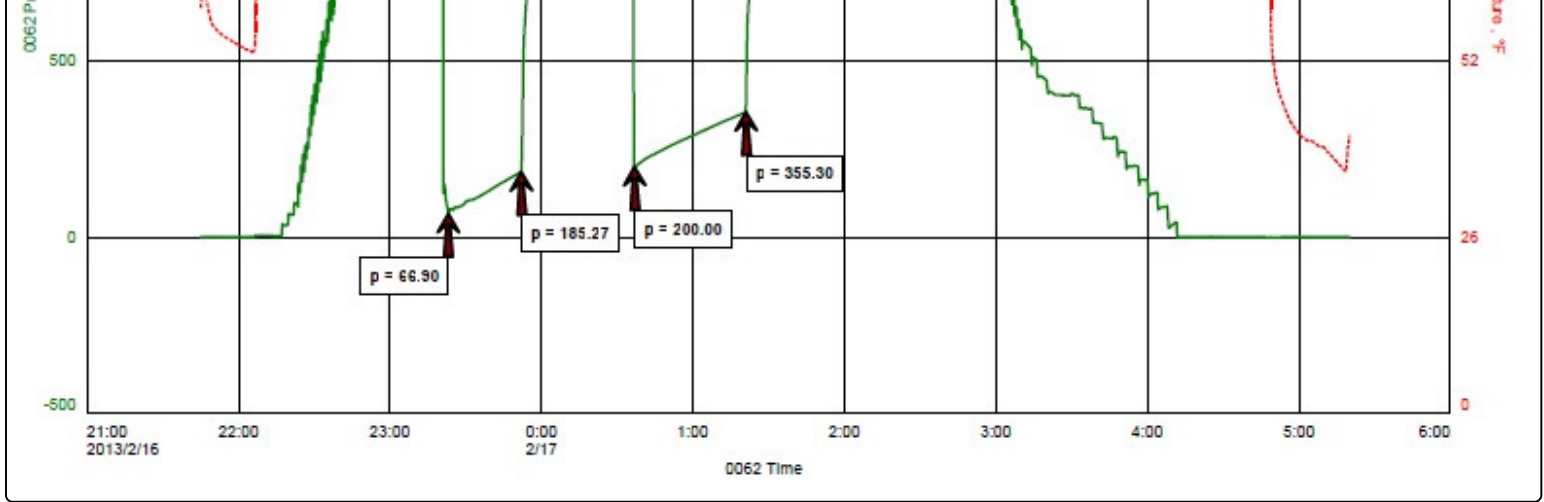


LD Drilling
DST #3 Arbuckle 3567'-3620'
Start Test Date: 2013/02/16
Final Test Date: 2013/02/17

Quivira Ranch #3-34
Formation: Arbuckle 3567'-3620'
Pool: Sleeper South
Job Number: F097

Quivira Ranch #3-34





ROCK TYPES

Cht	Lmst fw7>	shale, gry	Ss
Dolsec	shale, grn	Carbon Sh	

ACCESSORIES

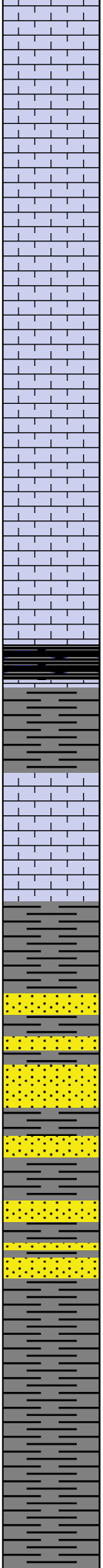
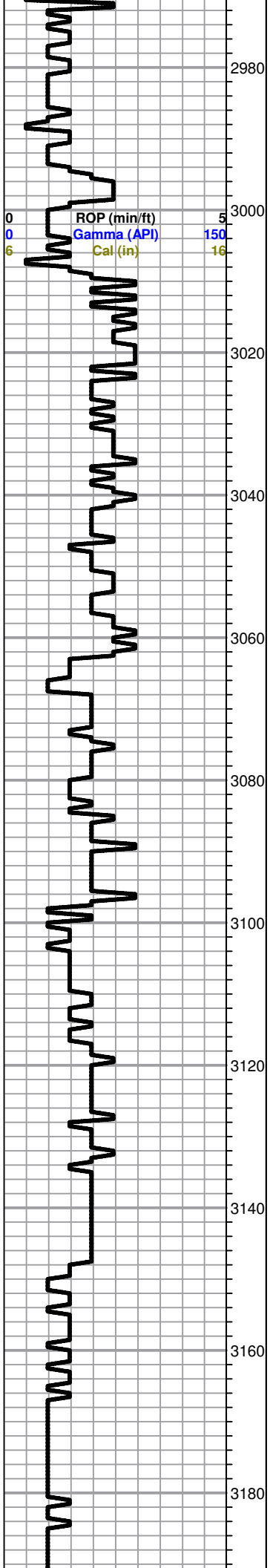
MINERAL
 Chert White

OTHER SYMBOLS

DST
 DST Int
 DST alt
 Core
 tail pipe

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)

Curve Track #1	Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5
ROP (min/ft) — Gamma (API) — Cal (in) - - -	Cored Interval DST Interval					Total Gas (units) — C1 (units) — C2 (units) — C3 (units) — C4 (units) —
1:240 Imperial 0 ROP (min/ft) 0 Gamma (API) 6 Cal (in)	5 150 16					1:240 Imperial 0 Total Gas (units) 100 0 C1 (units) 100 0 C2 (units) 100 0 C3 (units) 100 0 C4 (units) 100
	2930				Limestone; cream-buff-lt. grey, fine xln, fossiliferous in part, chalky, plus Chert; grey-white, boney, fossiliferous in part, no shows, few granular pieces	
	2920					
	2940				Limestone and Chert; as above	
	2960				trace black carboniferous shale	
					Limestone; lt. grey-cream, fine xln, chalky,	



fossiliferous in part, granular, slightly dolomitic, scattered porosity, no shows

Limestone; as above

Limestone; cream-lt. grey, fossiliferous, poorly developed porosity, no shows

Limestone; as above plus Chert; grey-cream

Limestone; cream-tan, fine xln, fossiliferous, chalky in part, dense, no visible porosity, few cherty pieces, no shows

HEEBNER 3062 (-1263)
Black Carboniferous Shale
grey shale

TORONTO 3080 (-1281)
Limestone; cream-white-lt. grey, fine xln, chalky, poorly developed porosity, no shows

DOUGLAS 3097 (-1298)
Shale; greyish green-grey-maroon, micaceous silty in part

Sand; greyish green, very fine grained, micaceous, shaley, poor porosity, no shows

Sand; grey- greyish green, very fine grained, micaceous, no shows

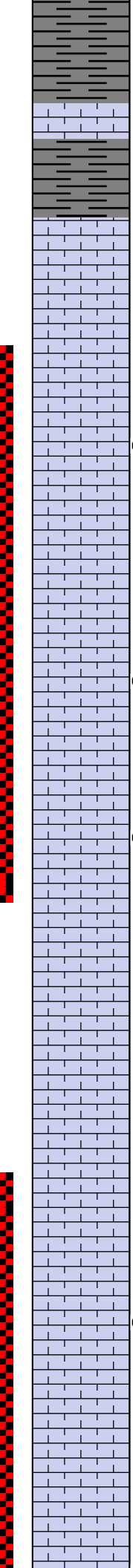
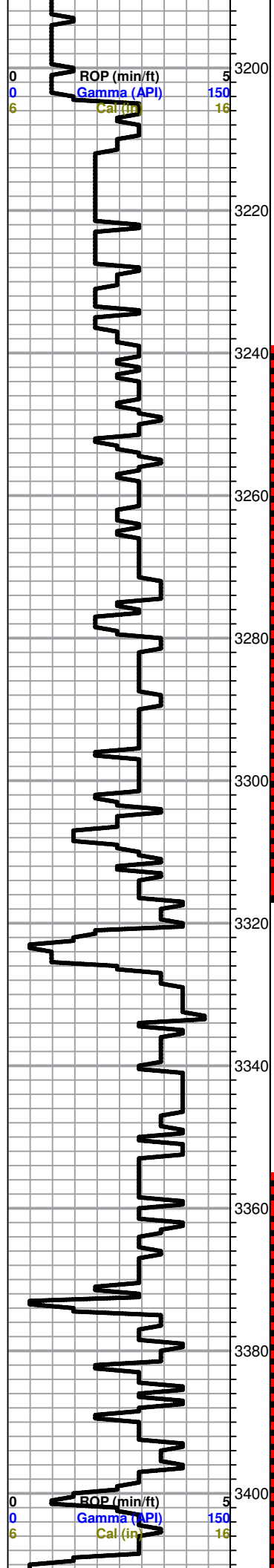
Sand and Shale as above

Shale; grey-greyish green-dark grey, soft, silty

Shale; grey-dark grey, soft

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

KB 1799



BROWN LIME 3204 (-1405)

Limestone; tan-cream-brown, fine-medium xln, highly fossiliferous, cherty in part

LANSING 3221 (-1422)

Limestone; buff-cream, fine-medium xln, fossiliferous-oolitic, chalky in part, dense, poorly developed porosity, no shows

Limestone; grey-cream, fine xln, slightly dolomitic in part, chalky, no shows

Limestone; cream-lt. grey, fine xln, slightly fossiliferous/oolitic, inter xln-finely vuggy type porosity, golden brown-brown stain, spotty SFO, fair-good odor

Limestone; white-cream, fine xln, chalky, dense, slightly cherty, plus white chalk, no shows

Limestone; cream-white, fine-medium xln, chalky, fair inter xln porosity, brown stain, trace free oil, faint odor

Limestone; cream-tan, fine-medium xln, dense, poorly developed porosity, trace brown spotty stain, trace spotty free oil, faint odor

Limestone; cream-tan, oomoldic, chalky, fair oomoldic porosity (Barren)

Limestone; cream-tan, oomoldic, scattered porosity, white chalk, no shows

Limestone; cream-grey-tan, fine xln, fossiliferous-oolitic, dense, poorly developed porosity, plus grey Chert

Dark grey-black shale

Limestone; white-cream, sub oomoldic, chalky, fair oomoldic-inter xln porosity, trace brown spotty stain, NSFO, questionable odor

Limestone; cream, highly oolitic, chalky, scattered oolitic-fossil cast type porosity, no shows

Limestone; buff-lt. grey, fine xln, dense in

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

**DST #1 3240-3315
30-45-45-60**

Blow; BOB in 1 min
Final; BOB in 7 min

Recovery;
500' GIP
65' SOSM
(1%oil 99%mud)
65' GCOSWCM
(10%g 2%o 25%w 63%
m)
180' OSW
(2%oil 98%mud)

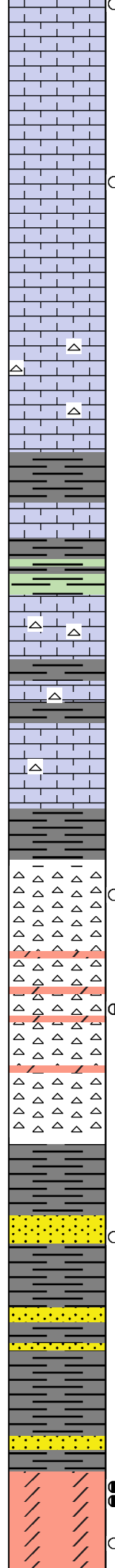
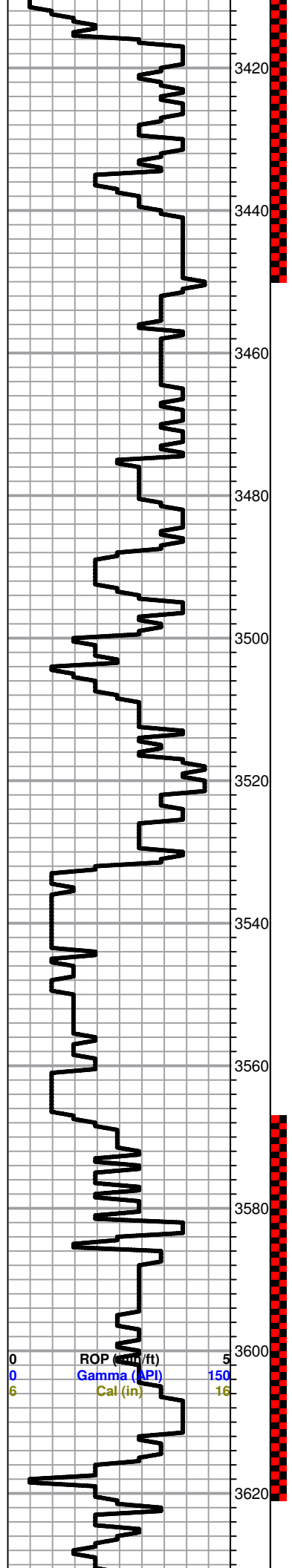
Pressures;
ISIP 1070
FSIP 1068
IFP 26-97
FFP 102-158
HSH 1600-1594

**DST #2 3355-3450
30-30-30-30**

Blow; built to 10"
Final; Built to 6"

Recovery;
60' GIP
170' sos wcm
(1%o 28%w 71%m)

Pressures;
ISIP 115
FSIP 1136



part, sub oomoldic, trace vuggy porosity, brown stain, dark SFO, faint odor

Limestone; cream-white, highly oolitic, chalky, fair oolitic porosity, brown stain, spotty SFO, no odor

Limestone; buff-cream, fine xln, dense, no visible porosity, cherty, no shows

Limestone; buff, fine xln, cherty in part, dense, no visible porosity, no shows

Limestone; as above plus grey chert

grey shale

BASE KANSAS CITY 3488

Shale; grey-green-maroon, silty

Limestone; white-cream, chalky, dense, plus orange Chert

Limestone; as above plus Chert; amber-cream, boney

Greyish green shaley Limestone, plus Sand, very fine grained, micaceous in part

VIOLA 3532 (-1733)

Chert; white-cream, semi tripolitic, weathered, trace brown-black stain, trace spotty free oil, faint odor

trace Dolomite; grey-buff, fine xln, sucrosic, brown stain, SFO, fair odor when broke

Chert; as above plus white-cream, boney/fresh

SIMPSON SHALE 3571 (-1772)

Shale; grey-green, waxey in part, slightly silty

Sand; clear-grey, sub angular, sub rounded, friable, fair inter granular porosity, black "dead" stain, slight SFO, faint odor

Shale; grey-greyish green, micaceous, silty in part, plus Sand as above

ARBUCKLE 3617 (-1818)

Dolomite; cream-buff-lt. grey, oomoldic-oolitic in part, good oomoldic porosity, brown stain, SFO/SAT, strong odor

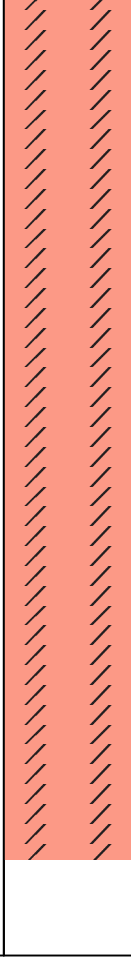
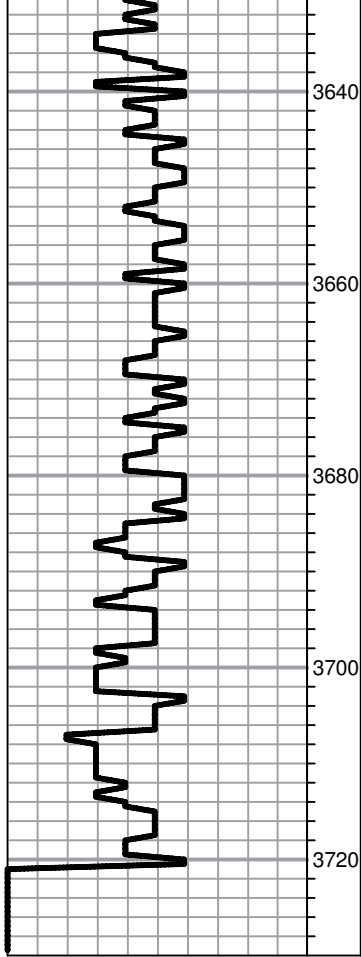
IFP 14-74
FFP 77-97
HSH 1677-1676

DST #3 3567-3620
30-45-45-60

Blow; BOB in 45 sec
GTS in 15 min TSTM
BOB blow back
Final; BOB in 1 min
BOB blow back

Recovery;
645' Clean Gassy Oil
180' Gassy Oily Mud
(22%g, 36%o, 42%m)

Pressures;
ISIP 1196
FSIP 1208
IFP 67-185
FFP 200-255



SFO/SAT, strong odor

○

○ Dolomite; buff, grey, fine xln, dense, sucrosic, few inter xln porosity, brown-grey-black stain, SFO, fair-good odor

○

Dolomite; cream-grey, fine xln, dense, few scattered inter xln porosity, black stain, NSFO very faint odor, trace Chert; white-lt. grey, boney

Dolomite and Chert as above

Dolomite; cream-tan, fine-medium xln, few scattered porosity, dense, slightly cherty, no shows

ROTARY TOTAL DEPTH 3720 (-1921)