



KANSAS CORPORATION COMMISSION 1048308  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

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: \_\_\_\_\_



1048308

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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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:  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
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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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L.D. Drilling, Inc.
Well Name	JACK 1-6
Doc ID	1048308

All Electric Logs Run

DUAL COMPENSATED POROSITY LOG
DUAL INDUCTION LOG
BOREHOLE COMPENSATED SONIC LOG
MICRORESISTIVITY LOG
SONIC CEMENT BOND LOG

Form	ACO1 - Well Completion
Operator	L.D. Drilling, Inc.
Well Name	JACK 1-6
Doc ID	1048308

Tops

Name	Top	Datum
ANHYDRITE	689	+1148
HEEBNER	2951	-1114
TORONTO	2970	-1133
DOUGLAS	2982	-1145
BROWN LIME	3058	-1221
LANSING	3074	-1237
BASE KANSAS CITY	3300	-1463
CONGLOMERATE	3332	-1495
ARBUCKLE	3384	-1547
RTD	3485	-1648
LTD	3485	-1648



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

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

00-1011411  
FIELD SERVICE TICKET

1718 1711 A

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

DATE OF JOB <b>4-21-10</b> DISTRICT <b>KANSAS</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. A. Drilling Inc.</b>				LEASE <b>JACK</b> 1-6 WELL NO. <b>1</b>					
ADDRESS				COUNTY <b>Barton</b> 6-18-11 STATE <b>KANSAS</b>					
CITY STATE				SERVICE CREW <b>A. Werth, J. Melson, M. McGraw</b>					
AUTHORIZED BY				JOB TYPE: <b>8 5/8" surface</b>					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>28443. PM</b>	<b>1/2</b>					<b>4-21-10</b>	<b>4-21-10</b>	<b>AM</b>	<b>1:30</b>
<b>19959-26920</b>	<b>1/2</b>					<b>ARRIVED AT JOB</b>	<b>4-21-10</b>	<b>PM</b>	<b>2:40</b>
<b>19831-19862</b>	<b>1/2</b>					<b>START OPERATION</b>	<b>4-21-10</b>	<b>AM</b>	<b>4:00</b>
						<b>FINISH OPERATION</b>	<b>4-21-10</b>	<b>AM</b>	<b>4:30</b>
						<b>RELEASED</b>	<b>4-21-10</b>	<b>AM</b>	<b>5:00</b>
						<b>MILES FROM STATION TO WELL</b>	<b>65-miles</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: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<b>CP103</b>	<b>60/40 Poz</b>		<b>285-SK</b>		<b>\$ 3420.00</b>
<b>CC102</b>	<b>cell FLAKE</b>		<b>72-lb</b>		<b>\$ 266.40</b>
<b>CC109</b>	<b>CALCIUM CHLORIDE</b>		<b>738-lb</b>		<b>\$ 774.90</b>
<b>CF153</b>	<b>wooden cement Plug 8 5/8"</b>		<b>1-ea</b>		<b>\$ 160.00</b>
<b>E100</b>	<b>unit mileage charge pickup</b>		<b>65-mi</b>		<b>\$ 276.25</b>
<b>E101</b>	<b>Heavy Equip. Mileage</b>		<b>130-mi</b>		<b>\$ 910.00</b>
<b>E113</b>	<b>Bulk Deliberly Charge</b>		<b>800-Tm</b>		<b>\$ 1279.20</b>
<b>CE200</b>	<b>Depth Charge 0'-500</b>		<b>1-4hrs</b>		<b>\$ 1000.00</b>
<b>CE240</b>	<b>Blending + mixing Service Charge</b>		<b>285-SK</b>		<b>\$ 399.00</b>
<b>CE304</b>	<b>Plug container Utilization Charge</b>		<b>1-Job</b>		<b>\$ 250.00</b>
<b>S003</b>	<b>Service Supervisor first 8hrs. on Loc.</b>		<b>1-ea</b>		<b>\$ 175.00</b>

CHEMICAL / ACID DATA:			

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

SUB TOTAL  
**\$ 4633.59**  
DLS

SERVICE REPRESENTATIVE <b>Allen F. Werth</b>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <b>Scott Plons</b>
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FIELD SERVICE ORDER NO. \_\_\_\_\_

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)


Customer <b>L.D. Drilling Inc</b>	Lease No.	Date <b>4-21-10</b>
Lease <b>JACK</b>	Well # <b>1-6</b>	
Field Order # <b>17181711A</b>	Station <b>Pratt KS</b>	Casing <b>8 5/8</b>
Type Job <b>8 5/8" Surface</b>	Formation <b>SNW</b>	Depth <b>336'</b>
		County <b>Barton</b>
		State <b>KS</b>
		Legal Description <b>6-18-11</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>8 5/8"</b>	Tubing Size	Shots/Ft	<b>285</b>	Acid	<b>60/40 P02</b>	RATE	PRESS	ISIP
Depth <b>336'</b>	Depth	From	To	Pre Pad	<b>1.25</b>	Max		<b>5 Min.</b>
Volume <b>2064</b>	Volume	From	To	Pad		Min		<b>10 Min.</b>
Max Press <b>300</b>	Max Press	From	To	Frac		Avg		<b>15 Min.</b>
Well Connection <b>P.C.</b>	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <b>316</b>	Packer Depth	From	To	Flush	<b>Disp Fresh water</b>	Gas Volume		Total Load

Customer Representative <b>scotty / Driller</b>	Station Manager <b>scotty</b>	Treater <b>Allen F. Worth</b>
Service Units <b>28443 19959 20920 19831 19862</b>		
Driver Names <b>Worth Joe Nelson Mike McGraw</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>2:40 PM</b>					<b>Petromark #2</b>
<b>2:45 PM</b>					<b>on loc. Discuss Safety, Setup Blaw Job</b>
<b>2:52 PM</b>					<b>out of Hole w/ Bit Rig up</b>
<b>3:38 PM</b>					<b>to Run 8 5/8 csg.</b>
<b>4:00</b>	<b>200#</b>			<b>6</b>	<b>start 8 5/8" 24#</b>
<b>4:23</b>	<b>200#</b>		<b>64</b>	<b>6</b>	<b>Casing @ 336' CIRW/ Rig</b>
<b>4:30</b>	<b>300#</b>			<b>3</b>	<b>start mit 285SKS 60/40 P02</b>
<b>5:00</b>					<b>2% gel, 3% CC, 1/4" cellflake @ 14.7#</b>
					<b>Finish mix cont - Release Plug.</b>
					<b>start Disp. cap. 20BBLs</b>
					<b>Plug down</b>
					<b>shut in @ well.</b>
					<b>Release PSI.</b>
					<b>wash up Equip + Rack up.</b>
					<b>Job complete.</b>

cont. CIR. To Pit

Thanks Allen  
  
 M. McGraw



**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 1715 A

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

DATE OF JOB <b>4-27-10</b> DISTRICT <b>KANSAS</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>JACK</b>		WELL NO. <b>1-6</b>		
ADDRESS		COUNTY <b>Barton</b> <b>5-18-11</b> STATE <b>KANS.</b>				
CITY STATE		SERVICE CREW <b>A. Werth, C. Ueack, M. Fleming</b>				
AUTHORIZED BY		JOB TYPE: <b>CNW 5 1/2 Longstring</b>				
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED <b>4-26-10</b> DATE AM PM TIME <b>1000</b>
<b>28443 P.U</b>	<b>1</b>					ARRIVED AT JOB <b>4-27-10</b> AM PM <b>1:00</b>
<b>27463 Pt</b>	<b>1</b>					START OPERATION <b>4-27-10</b> AM PM <b>4:00</b>
<b>19821-19862</b>	<b>1</b>					FINISH OPERATION <b>4-27-10</b> AM PM <b>5:00</b>
						RELEASED <b>4-27-10</b> AM PM <b>5:45</b>
						MILES FROM STATION TO WELL <b>65 miles</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: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CF103	60/40 Por		125-SK		\$1500.00
CF103	60/40 Por		30-SK		\$360.00
CC111	SALT (FINE)		1117-lb		\$558.50
CC112	CEMENT Friction Reducer		54-lb		\$324.00
CC201	Gilsonite		625-lb		\$418.75
CF103	TOP Rubber Plug 5 1/2"		1-CA		\$105.00
CF251	Guide Shoe Regular 5/8" (Blue)		1-CA		\$250.00
CF1451	Flapper Type Insert Float Valve 5/8"		1-CA		\$215.00
CF1651	Turbolizer 5/8" (Blue)		5-CA		\$550.00
C704	CS-11 KCL Sub.		1-gal		\$35.00
CC151	mud Flush		500-gal		\$430.00
E100	unit milenge Charge Pickup		65-mi		\$276.25
E101	Heavy equip. milenge		130-mi		\$910.00
E113	Bulk Del. Chg.		436-Tm		\$1696.80
CE204	Depth Charge 3001-4000'		1-4hrs		\$2160.00
CE240	Blending & mixing service chg.		155-SK		\$217.00
CE304	Plus container utilization chg.		1-506		\$250.00
5003	Service Supervisor first 8hrs onloc		1-CA		\$175.00

SUB TOTAL \$5470.15

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	DL5
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE Allan T. Werth THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Dave Roach  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

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

Customer <b>L.D Drilling, Inc</b>	Lease No.	Date <b>4-27-10</b>	
Lease <b>JACK</b>	Well # <b>1-6</b>		
Field Order # <b>17181715A</b>	Station <b>Pratt KS</b>	Casing <b>5 1/2"</b>	Depth <b>3473</b>
Type Job <b>5 1/2" L.S.</b>	Formation <b>CNW</b>	Legal Description <b>6-18-11</b>	State <b>KANS.</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size"	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2"		20 BBL		2% KCL			Max	
Depth 3473	Depth	From	To 12 BBL	Pre Pad			5 Min.	
Volume 8 1/2	Volume	From	To 125 SKS	60/40 Poz	Min		10 Min.	
Max Press 1000	Max Press	From	To 30 SKS	60/40 Poz A	Avg		15 Min.	
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 3460	Packer Depth	From	To	Flush Disp. Fresh water	Gas Volume		Total Load	

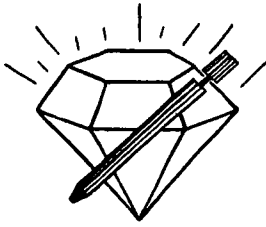
Customer Representative <b>Dave Roach</b>	Station Manager <b>Scotty</b>	Treater <b>Allen F. Worth</b>
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Service Units	28443	27463	19831	19862					
Driver Names	<b>A. Worth</b>	<b>D. Roach</b>	<b>Martin Fleming</b>						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
100 AM					on Loc. Discuss Safety, Setup. Plan Job out of Hole w/ D.P. Rig up to Run csg.
150					start 4 1/2" csg 14# S.S. 15' w/ Reg. Guide Shoe, & Insert fill up in collar cont 1-3-5-7-9
315					Tag Bottom @ 3485
400	200#		20	5	set @ 3473 CIR w/ Rig.
			12	5	Pump 20 BBL KCL water 2%
			3	5	Pump 12 BBL mud Flush
				6	Pump 3 BBL N <sup>2</sup> o spacer
			24		mix + Pump 125 SKS 60/40 Poz @ 15.4#
				6	Fin. mix - washout Pump & Line
				5	Drop. Top Rubber Plug. 5 1/2"
	400#			5	Start Disp. CAP. 84 1/2 BBLs
	1000		84 1/2	3	Caught Lift w/ 67 BBLs out
					Plug down -
					Release PSI - OK.
430					Plug Rat Hole w/ 30 SKS 60/40 Poz
					washup & Rackup Equip.
545					Job complete.

+ thanks Allen, Chris, Martin





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
STC 30046.D732

Company L. D. Drilling, Inc. Lease & Well No. Jack No. 1-6

Elevation 1837 KB Formation Lansing/Kansas City Effective Pay -- Ft. Ticket No. J2527

Date 4-24-10 Sec. 6 Twp. 18S Range 11W County Barton State Kansas

Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,090 ft. to 3,154 ft. Total Depth 3,154 ft.

Packer Depth 3,085 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,090 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside)          3,093 ft. Recorder Number 30046 Cap. 6,000 psi

Bottom Recorder Depth (Outside)          3,151 ft. Recorder Number 11017 Cap. 4,000 psi

Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

Drilling Contractor Petromark Drilling, LLC - Rig 2 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 65 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.8 Water Loss 7.2 cc. Drill Pipe Length 2,948 ft. I.D. 3 1/2 in.

Chlorides 2,000 P.P.M. Test Tool Length 22 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 64 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Fair, 4 in., blow. No blow back during shut-in.

2nd Open: Fair, 5 in., blow. No blow back during shut-in.

Recovered 120 ft. of drilling mud = .962800 bbls.

Recovered 40 ft. of water = .196800 bbls. (Chlorides: 70,000 Ppm)

Recovered 160 ft. of TOTAL FLUID = 1.159600 bbls.

Recovered          ft. of         

Recovered          ft. of         

Remarks         

Time Set Packer(s) 7:40 AM. P.M. Time Started Off Bottom 10:10 AM. P.M. Maximum Temperature 102°

Initial Hydrostatic Pressure ..... (A) 1491 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 28 P.S.I. to (C) 72 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 962 P.S.I.

Final Flow Period ..... Minutes 45 (E) 79 P.S.I. to (F) 101 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 928 P.S.I.

Final Hydrostatic Pressure ..... (H) 1465 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact:

Phone: Fax: e-mail:

### Well Information:

Name: JACK 1-6

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S6/18S/11W BARTON

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL

Job Number: D732

Test Unit:

Start Date: 2010/04/24

Start Time: 18:30:00

End Date: 2010/04/24

End Time: 23:45:00

Report Date: 2010/04/24

Prepared By: JOHN RIEDL

### Remarks:

Qualified By: JIM MUSGROVE

RECOVERY: 120' DRILLING MUD  
40' WATER





# DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 30046.D733

Company L. D. Drilling, Inc. Lease & Well No. Jack No. 1-6

Elevation 1837 KB Formation Lansing/Kansas City "H" - "J" Effective Pay -- Ft. Ticket No. J2528

Date 4-25-10 Sec. 6 Twp. 18S Range 11W County Barton State Kansas

Test Approved By James C. Musgrove Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,218 ft. to 3,296 ft. Total Depth 3,296 ft.

Packer Depth 3,213 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,218 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 3,221 ft. Recorder Number 30046 Cap. 6,000 psi

Bottom Recorder Depth (Outside) 3,293 ft. Recorder Number 11017 Cap. 4,000 psi

Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

Drilling Contractor Petromark Drilling, LLC - Rig 2 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 60 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.0 Water Loss 7.2 cc. Drill Pipe Length 3,076 ft. I.D. 3 1/2 in.

Chlorides 3,000 P.P.M. Test Tool Length 22 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 78 ft. Size 4 1/2 - FH in.

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Good, 8 in., blow. Weak blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 35 mins. No blow back during shut-in.

Recovered 60 ft. of gas in pipe

Recovered 130 ft. of gas & oil cut mud = 1.291300 bbls. (Grind out: 10%-gas; 40%-oil; 50%-mud)

Recovered 60 ft. of slightly oil cut watery mud = .295200 bbls. (Grind out: 5%-oil; 40%-water; 55%-mud)

Recovered 190 ft. of TOTAL FLUID = 1.586500 bbls. Chlorides: 10,000 Ppm

Recovered          ft. of         

Remarks         

Time Set Packer(s) 2:05 ~~XXM.~~ P.M. Time Started Off Bottom 5:05 ~~XXM.~~ P.M. Maximum Temperature 103°

Initial Hydrostatic Pressure ..... (A) 1558 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 29 P.S.I. to (C) 83 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1049 P.S.I.

Final Flow Period ..... Minutes 45 (E) 87 P.S.I. to (F) 110 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1025 P.S.I.

Final Hydrostatic Pressure ..... (H) 1530 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

### Well Information:

Name: JACK 1-6

Operator: L D DRILLING INC

Location-Downhole:

Location-Surface: S6/18S/11W BARTON

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL Job Number: D733

Test Unit:

Start Date: 2010/04/25 Start Time: 13:10:00

End Date: 2010/04/25 End Time: 18:30:00

Report Date: 2010/04/25 Prepared By: JOHN RIEDL

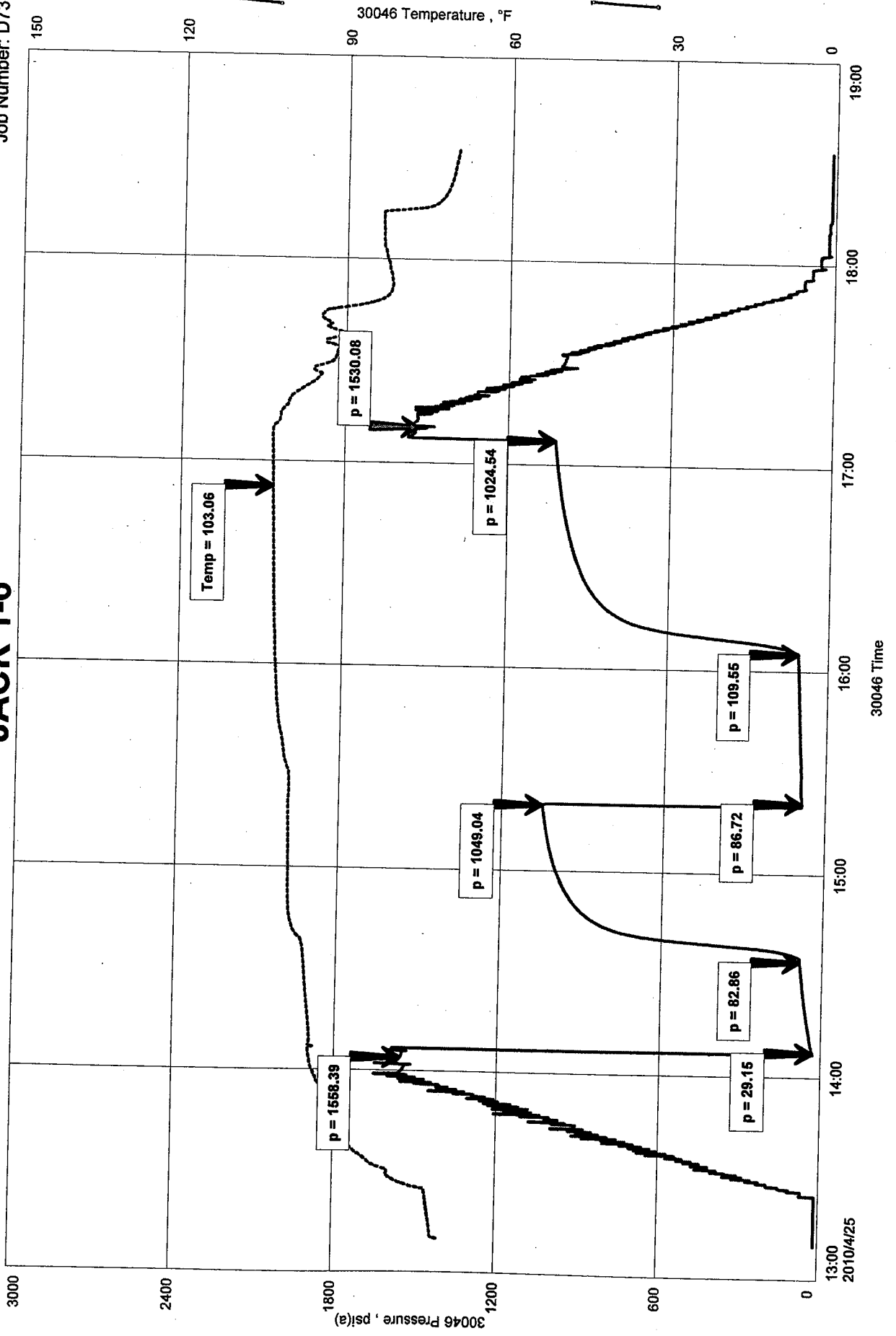
Remarks: Qualified By: JIM MUSGROVE

REC: 60' GAS IN PIPE, 130' HEAVY OIL CUT MUD, 60' SLIGHTLY OIL CUT WATER CUT MUD

L.D. DRILLING INC  
Start Test Date: 2010/04/25  
Final Test Date: 2010/04/25

# JACK 1-6

JACK 1-6  
Formation: LKC "H.I.J."  
Job Number: D733





James C. Musgrove  
Petroleum Geologist

Office  
20) 588-4250

212 Main St. • P.O. Box 215 • Claflin, KS 67525

Home  
(620) 587-3444

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

COMPANY LD Drilling Inc.  
 CASE Jack #1-6  
 FIELD Drews  
 LOCATION 1/2 NW-SW-NW (1610' FNL  
 330' FWL)  
 SEC 6 TWP 18S RGE 11W  
 COUNTY Barton STATE Kansas  
 CONTRACTOR Petromark Drilling (rig# 2)  
 START 4-21-2010 COMP 4-26-2010  
 ID 3485 LID 3485  
 JOE UP 2600 TYPE MUD Chemical  
 displaced

ELEVATIONS  
 KB 1837  
 DF \_\_\_\_\_  
 GL 1832  
 Measurements Are All  
 From -KB-

CASING  
 SURFACE 8 5/8" 341  
 PRODUCTION \_\_\_\_\_

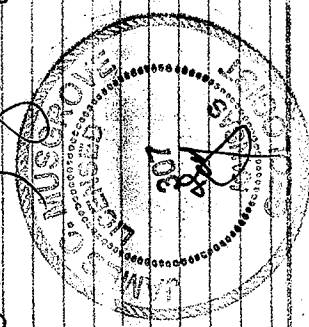
ELECTRICAL SURVEYS  
 By DIL, CNL/CDL,  
 LogTech BHCS & MEL

SAMPLES SAVED FROM 2700 TO \_\_\_\_\_  
 DRILLING TIME KEPT FROM 2700 TO \_\_\_\_\_  
 SAMPLES EXAMINED FROM 2700 TO \_\_\_\_\_  
 GEOLOGICAL SUPERVISION FROM 2850 TO \_\_\_\_\_  
 GEOLOGIST ON WELL Jim Musgrove

FORMATION TOPS	LOG	SAMPLES
anhydrite	689 - 1148	
bedner	2951 - 114	
bronto	2970 - 133	
douglas	2982 - 145	
brown lime	3058 - 221	
lansing	3074 - 237	
base, Kansas City	3300 - 463	

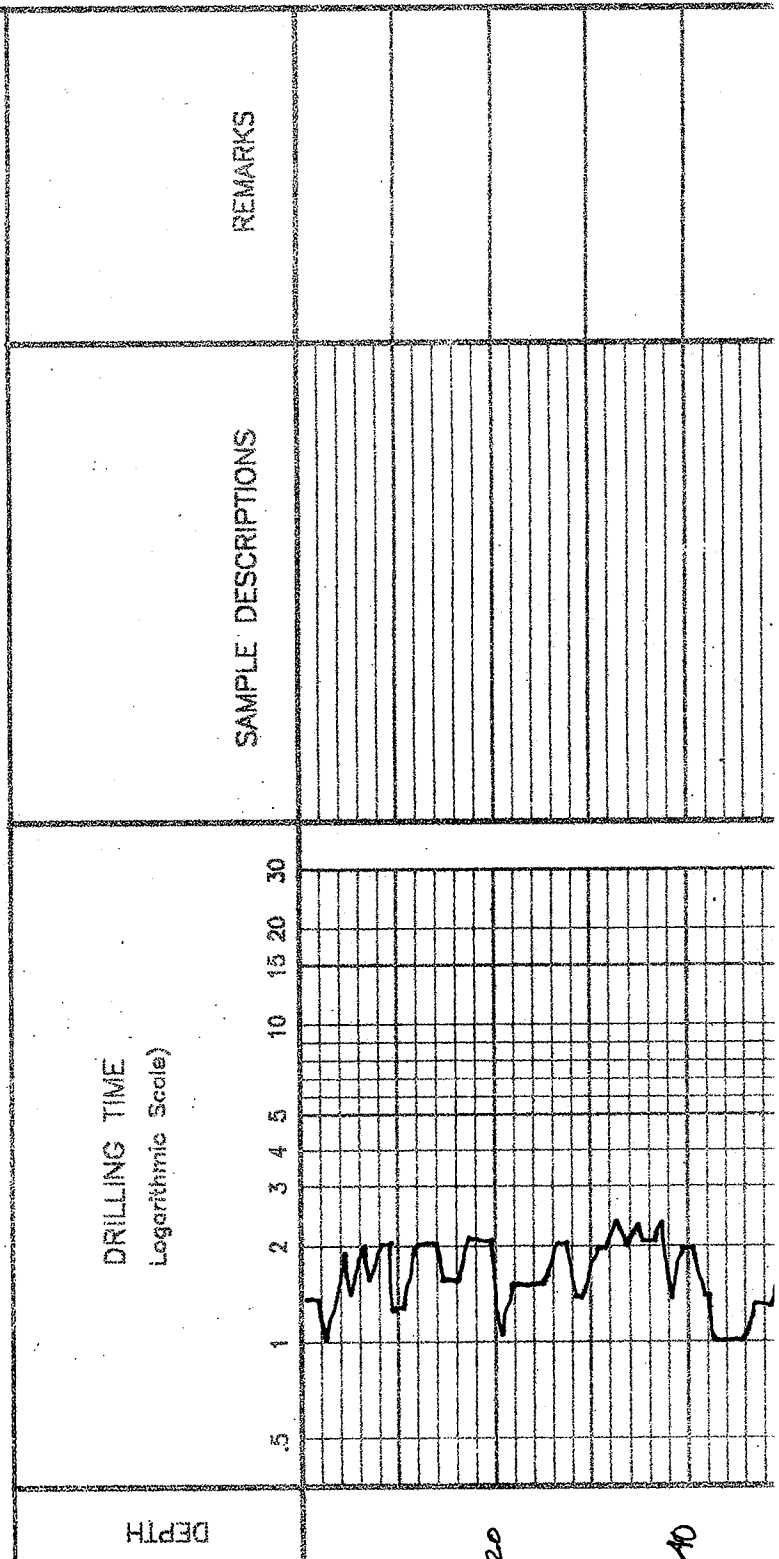
5 1/2" Production casing was set and cemented; and the  
 following zone should be perforated in the Jack #1  
 1) Lansing 3268 - 3276 Perforate  
 2) Lansing 3103 - 3108 "

Respectfully Submitted  
 James C. Musgrove  
 Petroleum Geologist



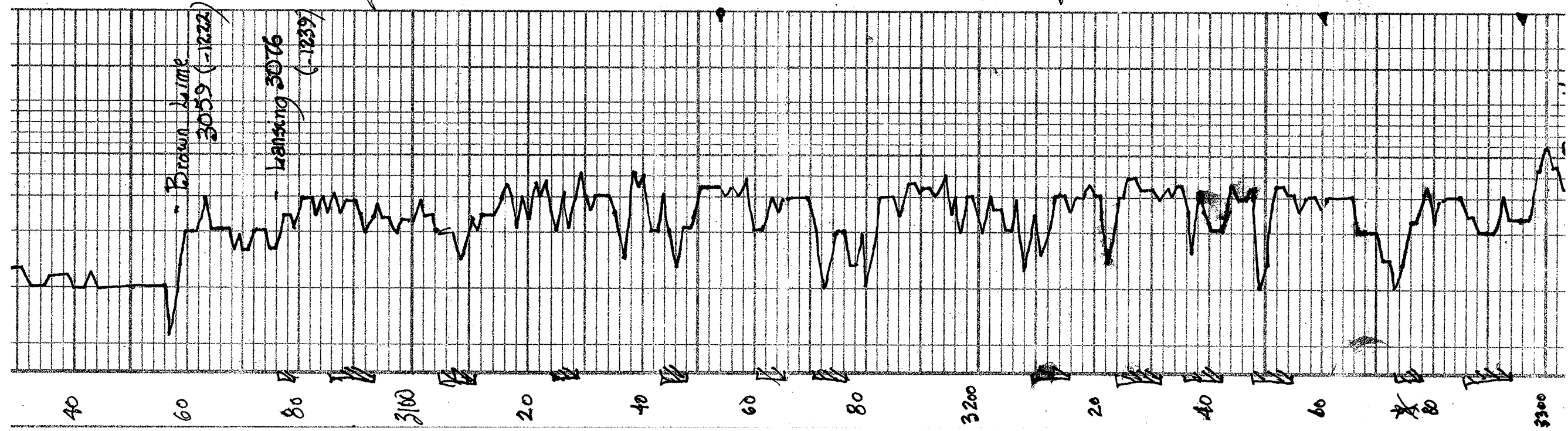
### LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb sh
- Limestone
- Ool. Lime
- Chert
- Dolomite

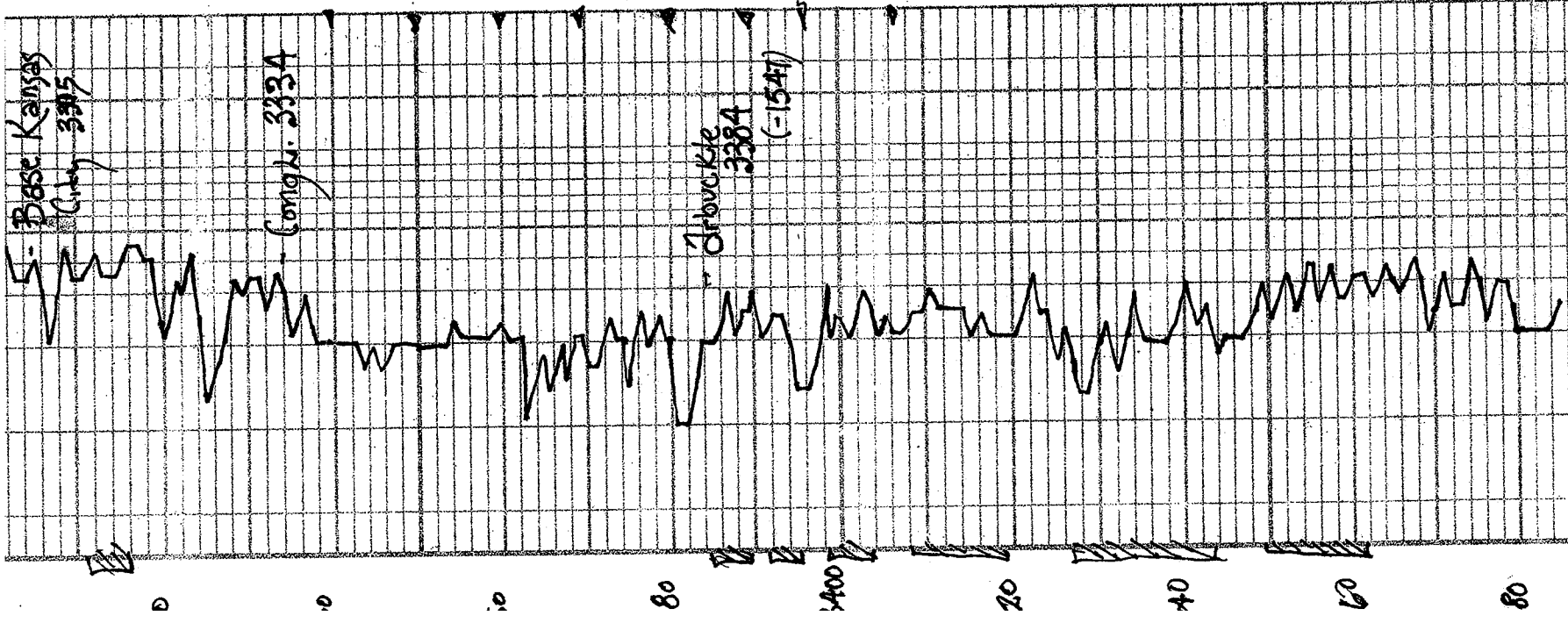








ditto	
32	
15) brown/tan, fxl, slightly dy - dense	DST # 1 3090-3154 30-30-45-45 Blow, fair (4") Synal, fair (5") Recovery, 120' mud 40' water Pressures, I.S.P. 262 psia S.P. 928 " I.S.P. 28-72 " S.P. 79-101 " HSH 149, -1465
15) tan/brown, fxl, fassy S.C.B. 9, Jr. S.P. 100 H.S.G. no odor	
15) gray, com, fr. com, d Brown/golden brown, 500 S.P. fr. odor	
15) tan, fassy, oil, fr. vis, g fr. par. sh. n.s.g., no odor	
15) tan, oil, Chicky fr. brown sh. n.s.g., no odor	
15) wh, oil, Chicky, fr. light brown sh. n.s.g., no odor	
15) g/y/w, com, fairly d com, fr. wh/par. oil	
22	
15) g/y/w, fxl, Chicky fr. duff, g/y sh. n.s.g., or odor	DST # 2 3218 -3296 30-45-45-60 Blow, good (8") finst, string (0.8. 35 min) Recovery, 60' gas in pipe 130' Heavy oil, gas cut mud (129 g/y, fassy, 50% mud) 60' slightly oil, water cut mud (5900, 40% water, 55% mud) Pressures, I.S.P. 1049 psia S.P. 1025 " I.S.P. 29-83 " S.P. 87-110 " HSH 1558-1530
15) g/y/w, sh.	
15) wh/par. oil, Chicky, S.C.B. fr. no sh. n.s.g., or odor	
15) g/y/w, oil, S.C.B. 9, fr. brown/golden brown sh, fr. fr. odor	
15) par.	
15) g/y/w, fassy, oil, fr. brown oil, brown sh. n.s.g., fr. grade.	43
15) tan/g/y, finely com, Chicky	1837 K.S.



~ gray / blk sh

~ 1/2 inch / 1/2 inch f-med x h  
Cherty  
fr orange A?

~ green / gray sh

~ 1/2 inch sh: 2x with rose tinted  
ss. / with gray / cherty  
fr. / fine ss

(-1513)

~ 1/2 inch sh

(-1523)

~ white / gray / honey / opaque A

(-1533)

~ 1/2 inch / 1/2 inch sandy; sh  
~ ss.

(-1547)

~ dol. / tan / gray / suc. / poor vis. g  
+ fcs 2

(-1553)

~ dol. / gray / med x h / s / calc / g (ss x l)  
+ 1/2 inch / gray / calc / dol. / ss. / calc.

~ dol. / gray / + ss. / calc.

~ dol. / gray / + ss. / calc. / slightly

~ 1/2 inch / poor g.

~ ss. / sandy; few glove  
fr. / ss. / calc.

~ dol. / gray / wh. / med x h / for good  
fr. / ss. / calc. / type 2 (barren)

~ dol. / ss. / + med x h

~ dol. / gray / tan / med x h / ss. / calc. / fr. / ss. / calc. / (barren)

~ dol. / tan / gray / med (ss. / calc. / x h)  
and fr. / ss. / calc. / (barren)  
+ 1/2 inch / calc.

No show  
~ }  
~ }

RTD 3485 (-1648)