

STATE CORPORATION COMMISSION OF KANSAS
 OIL & GAS CONSERVATION DIVISION
 WELL COMPLETION FORM
 ACO-1 WELL HISTORY
 DESCRIPTION OF WELL AND LEASE

ORIGINAL

API NO. 15- 071-20,575-0000

County Greeley

NW - NW - SE - Sec. 11 Twp. 18S Rge. 43 X W

Operator: License # 30819

Name: Duncan Energy Company

Address 1777 S. Harrison Street

City/State/Zip Denver, CO 80210

Purchaser: _____

Operator Contact Person: John Bettridge

Phone (303) - 759-3303

Contractor: Name: Emphasis Oil Operations

License: 8241

Wellsite Geologist: Richard Bacon

Designate Type of Completion

New Well Re-Entry Workover

Oil SWD SIOW Temp. Abd.

Gas ENHR SIGW

Dry Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

Deepening Re-perf. Conv. to Inj/SWD

Plug Back PBDT

Commingled Docket No. _____

Dual Completion Docket No. _____

Other (SWD or Inj?) Docket No. _____

9/15/92 9/27/92 10-6-92

Spud Date Date Reached TD Completion Date

2042 Feet from SW (circle one) Line of Section

2066 Feet from SW (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE, SE, NW or SW (circle one)

Lease Name Huddleston Well # 33-11

Field Name Moore Johnson

Producing Formation Morrow

Elevation: Ground 3912' KB 3917'

Total Depth 5300' PBDT 5237'

Amount of Surface Pipe Set and Cemented at 352 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set 2600 Feet

If Alternate II completion, cement circulated from 2600

feet depth to surface casing w/ 300 sx cmt.

Drilling Fluid Management Plan ALT 2 F-3-PT
 (Data must be collected from the Reserve Pit)

Chloride content 10,000 ppm Fluid volume 3,000 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name N/A

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature Marie O'Keefe

Title Sr. Engineering Technician Date 11-16-92

Subscribed and sworn to before me this 16th day of November 19 92.

Notary Public Helen M. Mowry

Helen M. Mowry Date Commission Expires 10-11-96

K.C.C. OFFICE USE ONLY	
F	Letter of Confidentiality Attached
C	Wireline Log Received
C	Geologist Report Received
RECEIVED	
KANSAS CORPORATION COMMISSION	
Distribution	
KCC	SWD/Rep _____ NGPA
KGS	Plug _____ Other _____
(Specify)	
NOV 18 1992	
11-10-92	
CONSERVATION DIVISION	
WICHITA, KANSAS	

Operator Name Duncan Energy Company Lease Name Huddleston Well # 33-21

Sec. 11 Twp. 18S Rge. 43 East West County Greeley

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem 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 during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy.)
 List All E.Logs Run:

Log	Formation (Top), Depth and Datum	Sample
Name	Top	Datum
Stone Corral	2603	
Marmaton	4590	
Cherokee	4729	
Atoka	4883	
Morrow	5053	
Morrow Snd	5148	
Lower Morrow	5166	
Miss.	5218	

CASING RECORD <input checked="" 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
Surface	12 1/4"	8 5/8"	20#	357'	60/40 poz	190	2% gel 3% cd
Production	7 7/8"	5 1/2"	15.5#	5292'	Lite	210	3% KCL 1/4# FS
					Prem.	190	3% KCL 1% ha
					Lite	300	1/4# FS/ck

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 (Amount and Kind of Material Used)	Depth
4 JSPF	5150'-5160' 40 holes	N/A	

TUBING RECORD Size 2 7/8" Set At 5168' AC XXXXX At 5006' Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. 10-24-92 Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours Oil 329 Bbls. Gas Mcf Water 0 Bbls. Gas-Oil Ratio 100 Gravity 47.3

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.) METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled Other (Specify) _____ Production Interval 5150-5160'

PLAT AND CERTIFICATION OF ACREAGE ATTRIBUTABLE TO AN OIL WELL

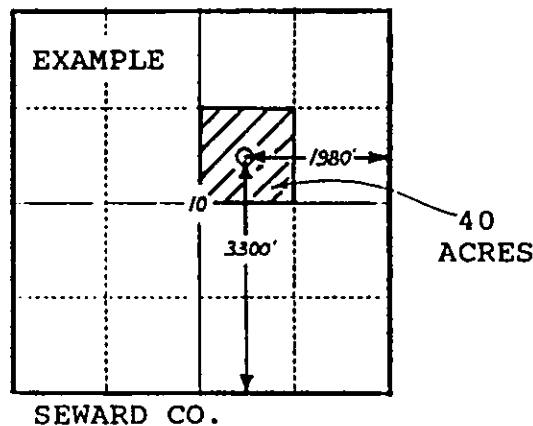
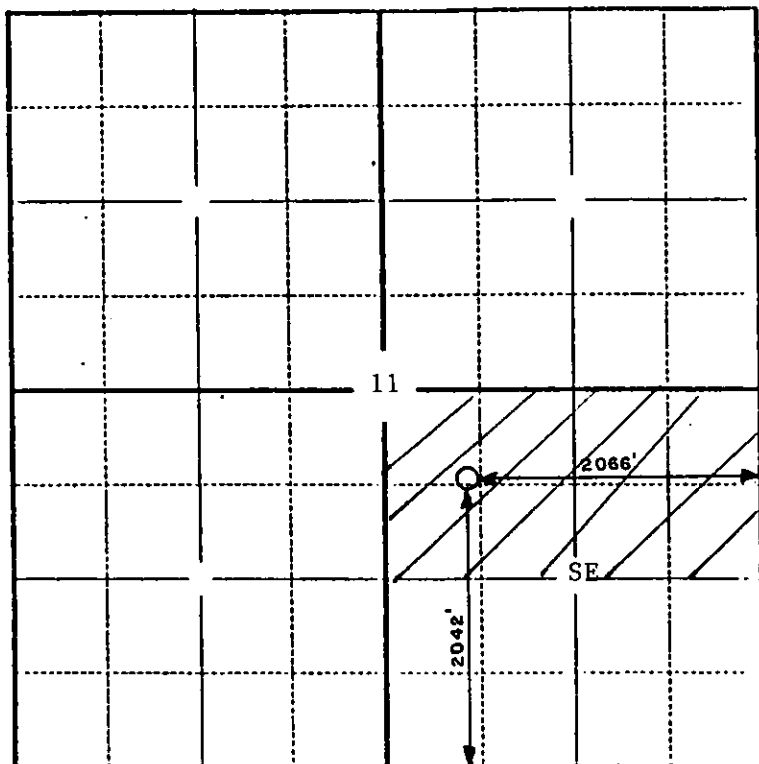
State Corporation Commission, Conservation Division
200 Colorado Derby Bldg. Wichita, Kansas 67202

OPERATOR Duncan Energy Company
LEASE NAME Huddleston
WELL NUMBER 33-11
FIELD Moore Johnson
NUMBER OF ACRES ATTRIBUTED TO WELL 80

LOCATION OF WELL:
2042 feet north of SE corner
2066 feet west of SE corner
11 Sec. 18S T. 43W R.
COUNTY Greeley

PLAT

(Show location of well and shade attributable acreage)
(Show footage to nearest lease or unit boundary line)



The undersigned hereby certifies that he is Marie O'Keefe
for Duncan Energy Company (Co.), a duly authorized agent, that all
information shown hereon is true and correct to the best of his knowledge and
belief, and that all acreage claimed as attributable to the well named herein
is held by production from that well.

Subscribed and sworn to before me on this 16th day of November, 19 92

Marie O'Keefe
Helen Mowry Notary Public

My Commission expires 10-11-96

NOV 18 1992 (6-1989)

STATE CORPORATION COMMISSION
WICHITA, KANSAS

Phone 913-483-2627, Russell, Kansas
 Phone 316-793-5861, Great Bend, Kansas

CENTRAL

Phone Plainville 913-434-2812
 Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

1485

Home Office P. O. Box 31

Russell, Kansas 67665

New

Date	Sec.	Twp.	Range	Called Out	On Location	Job Start	Finish
9-15-92	11	18	43	02:00	05:00	06:45	07:15
Lease <u>Haddleton</u>	Well No. <u>33-11</u>	Co. <u>5</u> State <u>Line</u>	Location <u>2 N 1 E 1 N 1 W</u>	County <u>Greeley</u>	State <u>Ks.</u>		
Contractor <u>Emphasis 10</u>				Owner <u>Duncan Energy Co.</u>			
Type Job				To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size <u>12 1/4</u>	T.D. <u>357</u>						
Csg. <u>8 1/2</u>	Depth <u>357</u>						
Tbg. Size	Depth						
Drill Pipe	Depth						
Tool	Depth						
Cement Left in Csg. <u>15</u>	Shoe Joint						
Press Max.	Minimum						
Meas Line <u>no</u>	Displace <u>22.3 bbl</u>						
Perf.							
EQUIPMENT							
Pumptrk No. <u>158</u>	Cementer <u>Gary</u>	Helper <u>Rill</u>					
Pumptrk No.	Cementer	Helper					
Bulktrk <u>199</u>	Driver <u>Keith</u>						
Bulktrk	Driver						
DEPTH of Job							
Reference:	<u>Pump Truck</u>						
	<u>Mileage</u>						
	<u>8 1/2" TWP</u>						
	Sub Total						
	Tax						
	Total						
Remarks: <u>Cement did circulate.</u>							
<u>Approx 5 bbl.</u>							
<u>Thank you!</u> <u>Way L. Hens</u>							
Purchase Order No. <u>190</u>							
By <u>D. R. Guinness</u>							
CEMENT							
Amount Ordered <u>200 1/2 2% Gel 3% CC</u>							
Consisting of							
Common							
Poz. Mix							
Gel							
Chloride							
Quickset							
Sales Tax							
Handling							
Mileage							
Sub Total							
Total							
Floating Equipment							
RECEIVED NOV 18 1992							

Mo -
Do you need this
for reporting to state

PAGE 1 OF _____ PAGES



TICKET ORIGINAL NO. 260459-1

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME 33-11 Hudleston		COUNTY Greely	STATE KS	CITY / OFFSHORE LOCATION	DATE 9-27-92
CHARGE TO DUNCAN Energy Co.		OWNER DUNCAN Energy Co.		TICKET TYPE (CHECK ONE) SERVICE <input checked="" type="checkbox"/> SALES <input type="checkbox"/>	NITROGEN JOB YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>
ADDRESS		CONTRACTOR Emphasis		LOCATION 1 Lamar, Co	CODE 25615
CITY, STATE, ZIP		SHIPPED VIA Co TRK		LOCATION 2	CODE
WELL TYPE 01		WELL CATEGORY 01		DELIVERED TO N.E. Towner, Co	LOCATION 3
TYPE AND PURPOSE OF JOB 035		WELL PERMIT NO. B-116187		ORDER NO.	REFERRAL LOCATION

As consideration, the above-named Customer agrees to pay Halliburton in accord with the rates and terms stated in Halliburton's current price lists. Invoices payable NET by the 20th of the following month after date of invoice. Upon Customer's default in payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon at the highest lawful contract rate applicable, but never to exceed 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account. These terms and conditions shall be governed by the law of the state where services are performed or equipment or materials are furnished.

Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect, punitive or consequential damages.

PRICE REFERENCE	SECONDARY REF OR PART NO.	L O C.	ACCOUNT	DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT
					QTY	MEAS	QTY	MEAS		
000-117				MILEAGE	60	mi			2.60	156 00
007-013	001-016			1st Stage Pump Chg.	5291	FT		8 PARS		1810 00
007-161				2nd Stage Pump Chg.	1	CA				1243 00
018-317				Super Flush	5	SKS			101.50	507 50
5A	837.07100			Super Seal II Float Shoe	1	CA		5/2 IN		225 00
4A	836.07100			Super Seal II Float Collar	1	CA		5/2 IN		253 00
40	807.93022			S-4 Centralizers	15	CA		5 1/2 IN	44.00	660 00
66	807.64031			FAS Grip Clamp	2	CA			11.30	22 60
71	813.80300			Multiple Stage Cementor	1	CA		5 1/2 IN		2450 00
75	813.16510			FREE FALL Plug SET	1	CA		5 1/2 IN		460 00

RECEIVED
STAFF

NOV 18 1992

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B-116187

9270 15
17,057 25

WAS JOB SATISFACTORILY COMPLETED? YES
 WAS OPERATION OF EQUIPMENT SATISFACTORY? YES
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? YES

WE CERTIFY THAT THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED HAS BEEN COMPLIED WITH IN THE PRODUCTION OF GOODS AND OR WITH RESPECT TO SERVICES FURNISHED UNDER THIS CONTRACT.

A. D. [Signature]

SJR

COLONIAL

3121



HALLIBURTON SERVICES

WORK ORDER CONTRACT AND PRE-TREATMENT DATA

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 260459

DISTRICT: LAMAR, CO

DATE: 9-26-92

TO: HALLIBURTON SERVICES YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: DUNCAN Energy Co (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 33-11 LEASE Nudleston SEC 11 TWP. 18S RANGE 43W

FIELD STATE LINE COUNTY Greeley STATE Ks OWNED BY DUNCAN Energy Co

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME	TYPE	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
FORMATION THICKNESS	FROM TO						
PACKER: TYPE	SET AT						
TOTAL DEPTH	MUD WEIGHT						
BORE HOLE							
INITIAL PROD: OIL BPD, H ₂ O BPD, GAS MCF							
PRESENT PROD: OIL BPD, H ₂ O BPD, GAS MCF							
CASING		U	24	8 5/8	KB	352	
LINER							
TUBING		N	15.5	5 1/2	KB	5241	
OPEN HOLE				7 7/8	352	5392	SHOTS/FT.
PERFORATIONS				Multi Stage Cementer 2600 FT			
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED
Cement 5 1/2 2 stage Long string 1st stage 210 SKS HLC STD
3% KCL 1/4" Floccle, 190SKS Premium 3% KCL 1" Nalad 322
1/4" Floccle 2nd stage 300SKS HLC STD 1/4" Floccle

CUSTOMER OR HIS AGENT WARRANTS THE WELL IS IN PROPER CONDITION TO RECEIVE THE PRODUCTS, SUPPLIES, MATERIALS, AND SERVICES

- As consideration, the above-named Customer agrees: THIS CONTRACT MUST BE SIGNED BEFORE WORK IS COMMENCED
- To pay Halliburton in accord with the rates and terms stated in Halliburton's current price list. Invoices are payable NET by the 20th of the following month after date of invoice. Upon Customer's default payment of Customer's account by the last day of the month following the month in which the invoice is dated, Customer agrees to pay interest thereon after default at the highest lawful contract rate applicable but never to exceed 18% per annum. In the event it becomes necessary to employ attorneys to enforce collection of said account, Customer agrees to pay all collection costs and attorney fees in the amount of 20% of the amount of the unpaid account.
 - To defend, indemnify, release and hold harmless Halliburton, its divisions, subsidiaries, parent and affiliated companies and the officers, directors, employees, agents and servants of all of them from and against any claims, liability, expenses, attorneys fees, and costs of defense to the extent permitted by law for:
 - Damage to property owned by, in the possession of, or leased by Customer, and/or the well owner (if different from Customer), including, but not limited to, surface and subsurface damage. The term "well owner" shall include working and royalty interest owners.
 - Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
 - Personal injury or death or property damage (including, but not limited to, damage to the reservoir, formation or well), or any damages whatsoever, growing out of or in any way connected with or result from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
 - The defense, indemnity, release and hold harmless obligations of Customer provided for in this Section b) and Section c) below shall apply to claims or liability even if caused or contributed to by Halliburton negligence, strict liability, or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies, materials, or equipment of Halliburton whether the preparation, design, manufacture, distribution, or marketing thereof, or from a failure to warn any person of such defect. Such defense, indemnity, release and hold harmless obligations of Customer shall not apply where the claims or liability are caused by the gross negligence or willful misconduct of Halliburton. The term "Halliburton" as used in said Sections b) and c) shall mean Halliburton, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.
 - That because of the uncertainty of variable well conditions and the necessity of relying on facts and supporting services furnished by others, Halliburton is unable to guarantee the effectiveness of the product supplies or materials, nor the results of any treatment or service, nor the accuracy of any chart interpretation, research analysis, job recommendation or other data furnished by Halliburton. Halliburton personnel will use their best efforts in gathering such information and their best judgment in interpreting it, but Customer agrees that Halliburton shall not be liable for and Customer shall indemnify Halliburton against any damages arising from the use of such information.
 - That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY, FITNESS OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Halliburton's liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, breach of warranty or otherwise) arising out of the sale or use of any products, supplies or materials is expressly limited to the replacement of such products, supplies or materials on their return to Halliburton or, at Halliburton's option, to the allowance to the Customer of credit for the cost of such items. In no event shall Halliburton be liable for special, incidental, indirect punitive or consequential damages.
 - That Customer shall, at its risk and expense, attempt to recover any Halliburton equipment, tools or instruments which are lost in the well and if such equipment, tools or instruments are not recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton. If Halliburton equipment, tools or instruments are damaged in the well, Customer shall pay Halliburton the lesser of its replacement cost or the cost of repairs unless such damage is caused by the sole negligence of Halliburton. In the case of equipment, tools or instruments for marine operations, Customer shall, in addition to the foregoing, be fully responsible for loss of or damage to any of Halliburton's equipment, tools or instruments which occurs at any time after delivery to Customer at the landing or returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.
 - To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law.
 - That this contract shall be governed by the law of the state where services are performed or materials are furnished.
 - That Halliburton shall not be bound by any changes or modifications in this contract, except where such change or modification is made in writing by a duly authorized executive officer of Halliburton.

I HAVE READ AND UNDERSTAND THIS CONTRACT AND REPRESENT THAT I AM AUTHORIZED TO SIGN THE SAME AS CUSTOMER'S AGENT

SIGNED: Raymond Simblett

NOV 10 1992

HALLIBURTON SERVICES
JOB LOG

WELL NO. 33-11 LEASE Nudleston TICKET NO. 260459

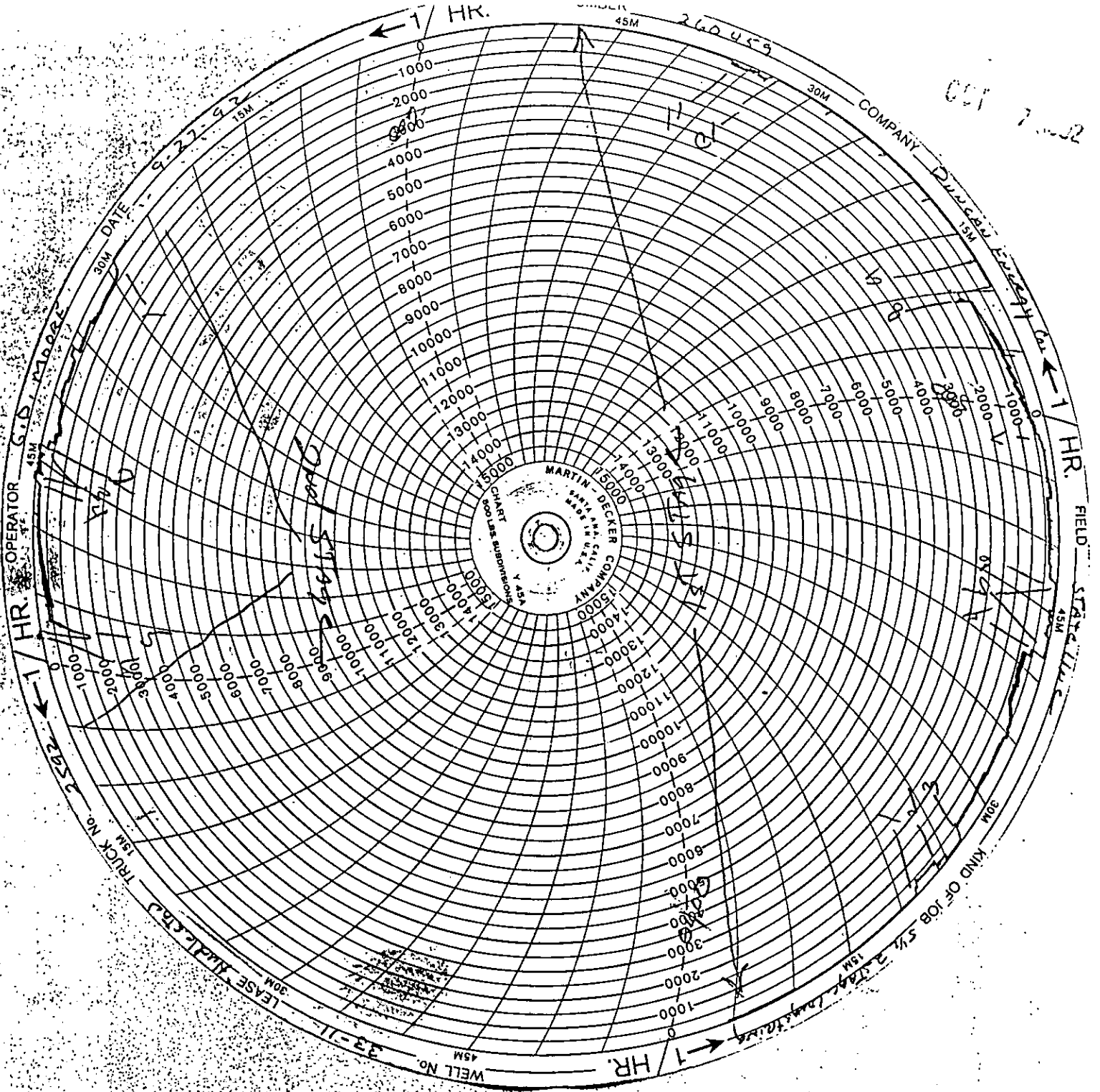
CUSTOMER DUNCAN Energy Co PAGE NO. 1

FORM 2013 R-2

JOB TYPE 5/8" DV Longstring DATE 9-27-92

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
9-26-92	1900							Called out Unit #2542P
	2200							Request on loc
	2135							ON LOC
	0100							START RUN CASING (DV @ 2000)
	0350							START Circulate w/Rig
1	0422	6	12				250	START Superflush Ahead
2	0424	3	3				250	Pump 3 BBL Water Spacer
3	0427	6					500	START Mix Cement
4	0443	6.5	104.6				700	Finish Mix Cement
5	0443						0	Drop Plug + Wash Pump Line
6	0447						200	START Water Displacement
7	0457	6.8	68				500	START Mud Displacement
8	0509	4.74	88.9				925	Finish Mud Displacement
8	0509						1500	Plug Landed + Floats held
9	0513							Drop Free Fall Plug
10	6533						1275	Open DV Tool w/Truck
11	0538							START Rig Circulating
	0538							WAIT TO Cement 2nd Stage
	0920							Finish Circulate w/Rig
1	0929						400	START Mix Cement
2	0944	6.5	98.3				200	Finish Mix Cement
3	0944						0	Drop Plug + Wash Pump + Line
4	0946						0	START Displacement
5	0956	6.1	64.88				400	Finish Displacement
5	0956		61.88				1500	Close DV Tool
6	0957						0	Release Pressure Tool Hold
	1010							Cement did not Circulate
								Job Complete
								Thank You For
								Calling Halliburton
								Steve, Randy, NPT

Thank You For
Calling Halliburton
Steve, Randy, NPT



ORIGINAL



JOB SUMMARY

HALLIBURTON DIVISION EASTERN AREA 1
HALLIBURTON LOCATION LAMAR, CO

BILLED ON TICKET NO. 260454

WELL DATA
FIELD STATELINE SEC 11 TWP. 18S RNG. 43W COUNTY Greeley STATE Ks

FORMATION NAME _____ TYPE _____
FORMATION THICKNESS _____ FROM _____ TO _____
INITIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
PRESENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD
COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____
PACKER TYPE _____ SET AT _____
BOTTOM HOLE TEMP. _____ PRESSURE _____
MISC. DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	U	24	8 7/8	KB	352	
LINER						
TUBING	N	15.5	5 1/2	KB	5291	
OPEN HOLE			7 7/8	352	5292	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
TYPE AND SIZE <u>5 1/2</u>		
FLOAT COLLAR <u>Super Seal</u>	<u>1</u>	<u>Howco</u>
FLOAT SHOE		
GUIDE SHOE <u>Super Seal</u>	<u>1</u>	<u>Howco</u>
CENTRALIZERS <u>S-4</u>	<u>15</u>	<u>Howco</u>
BOTTOM PLUG		
TOP PLUG <u>DV Plug Set</u>	<u>1</u>	<u>Howco</u>
HEAD <u>Free Fall</u>	<u>1</u>	<u>Howco</u>
BACKER <u>DV Tool</u>	<u>1</u>	<u>Howco</u>
OTHER <u>Limit Clamp</u>	<u>2</u>	<u>Howco</u>

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>9-26-92</u>	DATE <u>9-26-92</u>	DATE <u>9-27-92</u>	DATE <u>9-27-92</u>
TIME <u>1900</u>	TIME <u>2145</u>	TIME <u>0100</u>	TIME <u>1010</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>G.D. Moore</u>	<u>46066</u>	<u>LAMAR, CO</u>
<u>R. Palmer</u>	<u>B-6702</u>	<u>LAMAR, CO</u>
<u>D. Krieger</u>	<u>8151</u>	<u>LAMAR, CO</u>
<u>69429</u>	<u>4149</u>	<u>LAMAR, CO</u>

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API

DISPL. FLUID _____ DENSITY _____ LB/GAL-API

PROP. TYPE _____ SIZE _____ LB.

PROP. TYPE _____ SIZE _____ LB.

ACID TYPE _____ GAL _____ %

ACID TYPE _____ GAL _____ %

ACID TYPE _____ GAL _____ %

SURFACTANT TYPE _____ GAL _____ IN

NE AGENT TYPE _____ GAL _____ IN

FLUID LOSS ADD. TYPE _____ GAL-LB. _____ IN

GELLING AGENT TYPE _____ GAL-LB. _____ IN

FRIC. RED. AGENT TYPE _____ GAL-LB. _____ IN

BREAKER TYPE _____ GAL-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL-LB. _____ IN

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT Cement

DESCRIPTION OF JOB Cement 2 stage 5 1/2" long string

JOB DONE THRU: TUBING CASING ANNULUS TBC/ANN.

CUSTOMER REPRESENTATIVE Raymond Siebel

HALLIBURTON OPERATOR G.D. Moore COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
1	210	HLC STD	SW	B	3% RCL 1/4" Floccle	1.84	12.7
2	190	Prem	SW	B	3% RCL 1% Hald 322 1/4" Floccle	1.04	16.4
2	1	300	HLC STD	SW	1/4" Floccle	1.84	12.7

PRESSURES IN PSI _____

CIRCULATING _____ DISPLACEMENT _____

BREAKDOWN _____ MAXIMUM _____

AVERAGE _____ FRACTURE GRADIENT _____

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____

HYDRAULIC HORSEPOWER _____

ORDERED _____ AVAILABLE _____ USED _____

AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____

CEMENT LEFT IN PIPE _____

SUMMARY _____

VOLUMES _____

PRESLUSH: BBL-GAL. _____ TYPE _____

LOAD & BKDN: BBL-GAL. _____

TREATMENT: BBL-GAL. _____ DISPL. BBL-GAL. _____

CEMENT SLURRY: BBL-GAL. _____

TOTAL VOLUME: BBL-GAL. _____

REMARKS See Job Log

THANK YOU FOR CALLING

Halliburton

CUSTOMER Duncan Energy Co

LEASE Mudleston

WELL NO. 33-11

JOB TYPE Long string

DATE 9-27

ORIGINAL

DUNCAN ENERGY COMPANY
HUDDLESTON #33-11
NWSE SEC. 11 T18S R43W
2080' FSL 2080' FEL
GREELEY COUNTY
KANSAS

Richard E. Bacon

RICHARD E. BACON
GEOLOGIST

STATE

NOV 18 1992

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WICHITA, KANSAS

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SUMMARY AND CONCLUSIONS

The DUNCAN ENERGY CO. HUDDLESTON #33-11 was drilled to a total depth of 5300' driller, 5293' logger. The primary objective was the Lower Morrow V-7 Sand. This well is an offset to the Moore-Johnson #1 the discovery well of the Moore-Johnson Field and is located 1/2 mile southwest in Sec. 14.

The HUDDLESTON #33-11 was spudded on Septmeber 14, 1992 and reached total depth on September 25, 1992. Samples, 10' intervals, were caught by the drilling crews and lagged by the geologist. Sample quality was very good throughout except for the interval 4750' to 4850' when viscosity was increased. After 4850' quality was again very good.

Detailed descriptions are noted on the geologic strip logs. Zones of interest are discussed below.

MORROW V-7 SAND 5053' (-1136')

The V-7 Basal Morrow Sand came in at 5148' (-1231'), 7' high to the Moore-Johnson #1. Penetration time increased through this sand. Going from a drill time of 2.5 min/ft, drill time went to 5 to 5.5 min/ft. Samples were circulated out at 5170' and 5180'. Drilling depth was about 7' deeper than logging depth. Cuttings consisted of a sandstone-clear, translucent, with clusters fine to coarse grain, round to subangular, firm to hard, slightly calcareous, kaolin fill, approximately 35% of the sand was loose grains coarse to very coarse subround to angular with occasional quartz overgrowth. visible porosity was fair to good with traces of light brown spotty oil stain. Both clusters and grains displayed an even bright yellow fluorescence, giving an immediate milky yellow streaming to bleeding cut, leaving an even bright yellow ring with very faint oil residue.

A DST over the interval 5158'-5228' was successful. Pressures went from 477 to 724 on the first opening and 771 to 806 on the second opening. Recovery was 2637' of fluid 90% oil and 10% gas.

Logs give a resistivity from 15 ohms at the top going to 30 ohms in the middle, peaking at 70 ohms at the base of the sand with good SP deflection, Density/neutron logs gives an average porosity of 14% with some cross-over.

After reviewing all available data the decision was made to run pipe and complete the HUDDLESTON #33-11 as a Morrow V-7 Sand oil well.

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OCT 9 1992

OBSERVATION DIVISION
Wichita, Kansas

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RESUME

OPERATOR: DUNCAN ENERGY COMPANY
WELL NAME: HUDDLESTON #33-11
LOCATION: NWSE SEC. 11 T18S R43W
COUNTY: GREELEY
STATE: KANSAS
SPUD DATE: SEPTEMBER 14, 1992 1830 HRS CDT
COMPLETION DATE (TD): SEPTEMBER 25, 1992 2143 HRS CDT
ELEVATIONS: GL 3909' KB 3917'
TOTAL DEPTHS: DRILLER 5300' LOGGER 5293'
CONTRACTOR: EMPHASIS OIL OPERATIONS (HAYS, KS)
RIG #10

GEOLOGISTS: COMPANY-JIM WILLIAMS WELLSITE-RICHARD E. BACON
ENGINEER: JOHN BETTRIDGE
TOOL PUSHER: DUDE FINNESY
MUD COMPANY: MIDLAND MUD CO.
ENGINEER: MIKE MAYS

DRILLING MUD: GEL CHEMICAL
HOLE SIZES: SURFACE TO 357' 12 1/4"
357' TO 5300' 7 7/8"

CASING: 8 JOINTS 20# 8 5/8" TALLY 342.89 SET 352.84'
CORES: NONE
DST: DST #1 5158'-5228'
E-LOGS: BPB (LIBERAL, KS)
ENGINEER: JOHN CLARK

LOG SUITE: DSI/GR/SP 5292' TO 352'
BCA/GR/SP 5292' TO 2300'
CN/CPD/GR 5292' TO 4950'

BOTTOM FORMATION: MISSISSIPPIAN
WELL STATUS: TO COMPLETE AS A V-7 MORROW SAND OIL WELL

ORIGINAL

WELL CHRONOLOGY

<u>DATE</u>	<u>0700 DEPTH</u>	<u>FOOTAGE</u>	<u>ACTIVITY</u>
9-14-92	-	-	SPUD 1830 HRS CDT
9-15-92	357'	357'	RUN CASING, 8 JOINTS 20# 8 5/8" TALLY 342.89' SET 352.84. CEMENT WITH 190 SACKS 60/40 POZ 3% CaCl ₂ 2% GEL PLUG DOWN 0715 HRS BY ALLIED WOC DRILL AT 1500 HRS
9-16-92	1670'	1313'	DRILLING
9-17-92	2662'	1092'	BIT TRIP #3 2762'
9-18-92	3340'	578'	PULL OUT OF HOLE, HOLE IN PIPE, WORK ON RIG
9-19-92	3640'	300'	HOLE IN PIPE 3640'
9-20-92	4010'	370'	DRILLING
9-21-92	4325'	315'	DRILLING
9-22-92	4607'	282'	DRILLING
9-23-92	4865'	258'	DRILLING
9-24-92	5160'	295'	DRILL TO 5228' CIRCULATE FOR DST #1
9-25-92	5228'	68'	PULL TEST TOOL RESUME DRILLING 1315 HRS TD 2143 HRS CONDITION FOR LOGS
9-26-92	5300'	72'	COMPLETE LOG RUN

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OCT 12 1972

NOV 18 1972

WILLIAM W. WATSON
WILLIAM W. WATSON

ORIGINAL

LITHOLOGIC TOPS

	HUDDLESTON 33-11 NWSE SEC. 11 T18S R43W GREELEY COUNTY, KS GL 3909' KB 3917'	MOORE-JOHNSON NENW SEC. 14 T18S R43W GREELEY COUNTY, KS GL 3888' KB 3899'
STONE CORRAL	2603' (+1314')	2584' (+1315')
BASE	2632' (+1285')	2612' (+1287')
MARMATON	4590' (-673')	4565' (-666')
CHEROKEE	4729' (-812')	4698' (-799')
ATOKA	4883' (-966')	4868' (-969')
MORROW	5053' (-1136')	5044' (-1145')
SAND V-7	5148' (-1231')	5137' (-1238')
BASE	5160' (-1243')	5163' (-1264')
LOWER MORROW	5166' (-1249')	5168' (-1269')
MISSISSIPPIAN	5218' (-1301')	5216' (-1317')

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NOV 18 1932

W. V. S. S. S. S. S.
W. V. S. S. S. S. S.

MORROW

5100

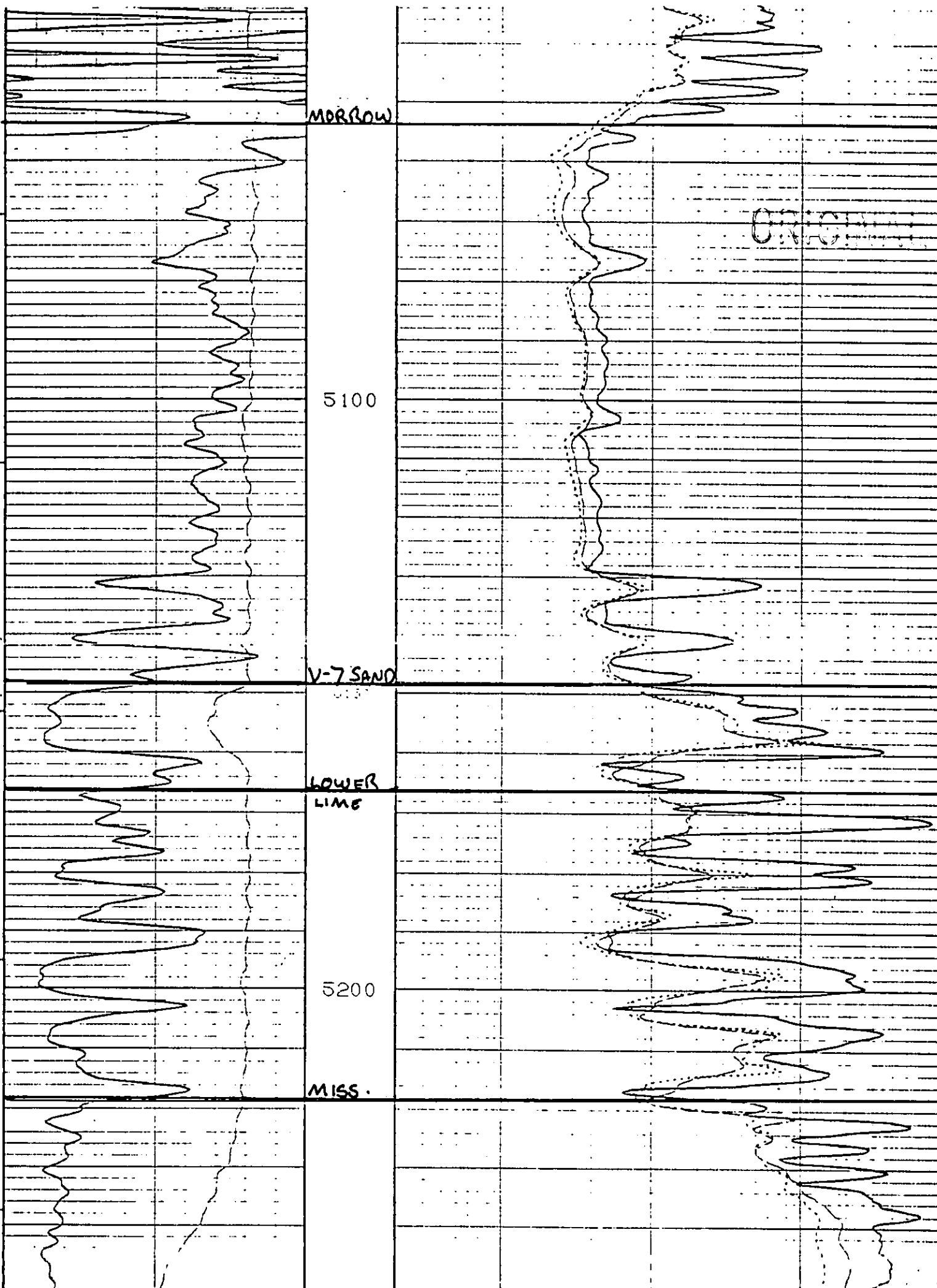
V-7 SAND

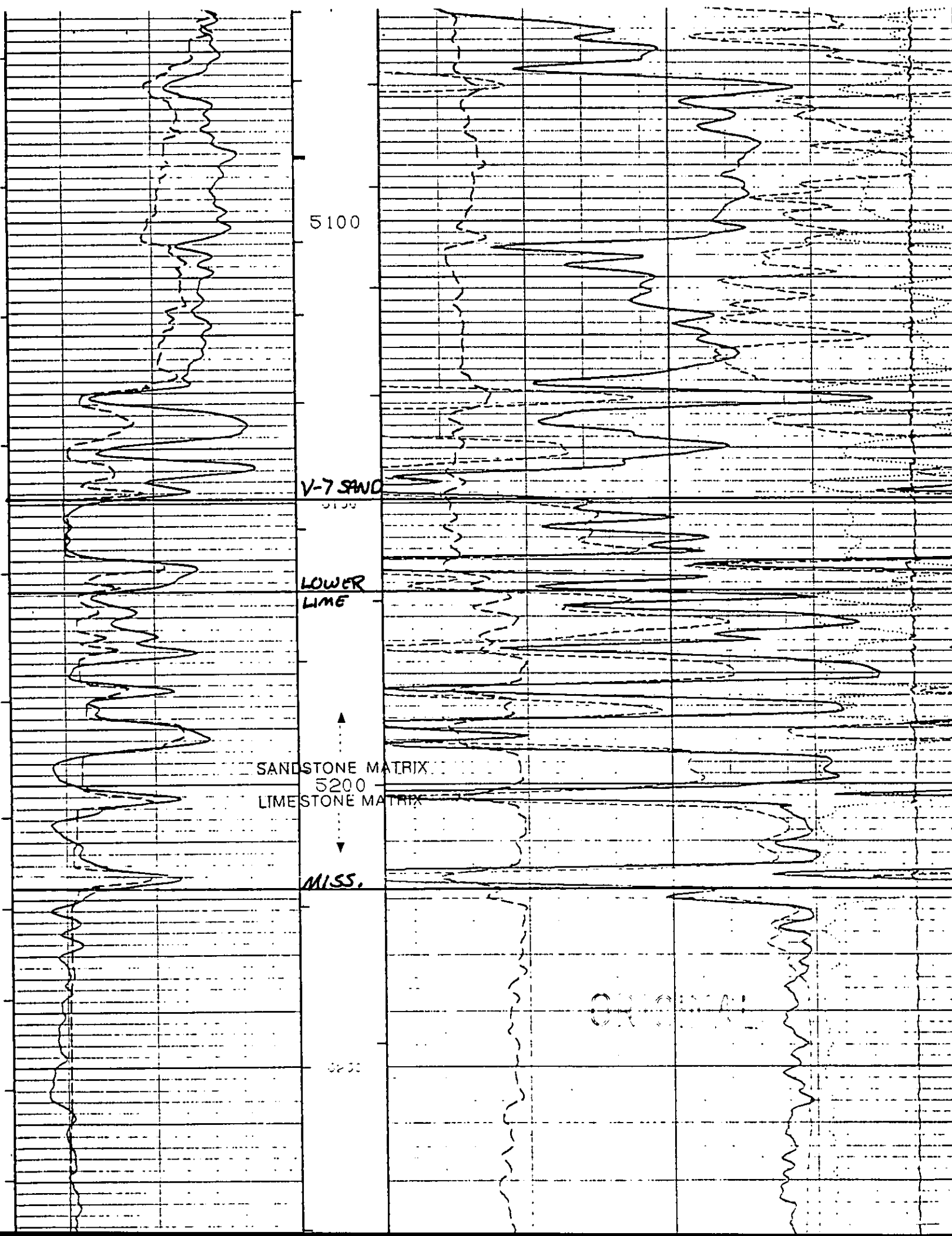
LOWER
LIME

5200

MISS.

ORIGINAL





5100

V-7 SAND

LOWER
LIME

SANDSTONE MATRIX
5200
LIMESTONE MATRIX

MISS.

5200

0.10

5050
MORROW

5100

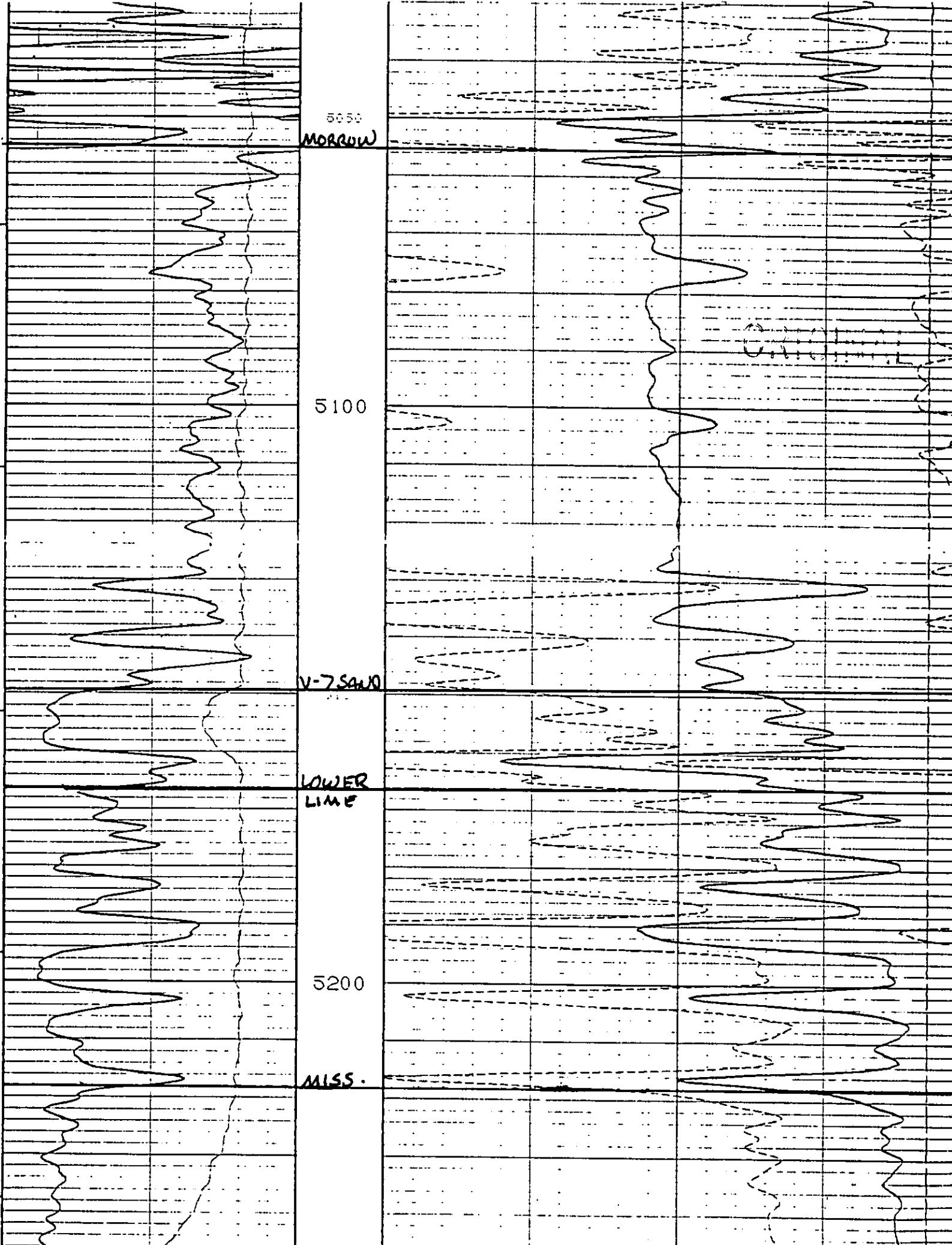
V-7 SAW

LOWER
LIME

5200

MISS.

CHINA



DST #1

FORMATION: LOWER MORROW SAND V-7
INTERVAL: 5158'-5228'
TYPE OF TEST: CONVENTIONAL OFF BOTTOM
TESTING COMPANY: TRILOBITE TESTING COMPANY (HAYS, KS)
TESTOR: MARK HERSKOWITZ
INITIAL BLOW 30 MIN: OFF BOTTOM IN 10 SECONDS, GAS TO SURFACE IN 24 MINUTES
FINIAL BLOW 60 MIN: OFF BOTTOM IN 2 MINUTES 15 SECONDS
PRESSURES: IHP 2602 FHP 2531
IF 477 TO 724
ISI 806
FFP 771 TO 806
FSI 806
RECOVERY: TOTAL 2637' 10% GAS 90% OIL 37°
SAMPLER: GAS 2.60 GF
OIL 3750 ML
PRESSURE 750
TOTAL 4000 ML

GAS VOLUME REPORT:

<u>MIN.</u>	<u>INS. OF WATER</u>	<u>PSIG</u>	<u>ORFICE</u>	<u>MCF/D</u>
10	10		1/2"	19.2
15	6			16.0
20	8		1/4"	4.76
25	18			7.12
30	16			6.72
5	18		1/4"	7.12
10	8			4.76
15	4			3.37
20	4			3.37
25	4			3.37
30	3			292
35	3			292
40	3			292
45	3			292
50	3			292
55	2			237
60	2			237

ORIGINAL

BIT RECORD

<u>NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FOOTAGE</u>	<u>HOURS</u>
1	12 1/4"	HTC	L126rr	357'	357'	3 3/4
2	7 7/8"	HTC	ATJ05	2762'	2405'	29
3	7 7/8"	HTC	ATJ11C	5300'	2538'	158 1/4

DRILLING DATA

<u>DEPTH</u>	<u>REVOLUTIONS</u>	<u>BIT WEIGHT</u>	<u>PUMP PRESSURE</u>	<u>STROKES</u>
4510'	60/80	30/35	800	56
4790'	60/80	30/35	800	56
5200	60/80	30/35	800	56

DEVIATION SURVEYS

<u>DEPTH</u>	<u>SLOPE</u>
352'	MISRUN
2762'	1 1/2°
5228'	3/4°

ORIGINAL

KCC OIL/GAS REGULATORY OFFICE

DATE 2/23/93

New Situation
 Response to Request
 Follow-up

OPERATOR Duncan Energy Company #30819

NAME 1777 S. Harrison St.

LOCATION NW NW SE, SEC 11, T 18 S, R 43 ^{SW}

& ADDRESS Denver, CO 80210

LEASE Huddleston Well # 33-11

PHONE NO. _____
OPER. _____ OTHER _____

COUNTY Greeley API#15-071-20,575

REASON FOR INVESTIGATION: Alternate II completion

PROBLEM: Port Collar @ 2574', cement did not circulate with 300 sx.

PERSON(S) CONTACTED: David Zwickl

FINDINGS: Estimated top of cement at 1100'. Pumped 150 sx cement down backside with no pressure. Waited one hour and pumped 10 sx cement with no pressure. Waited one hour and pumped 10 sx cement down backside with no pressure. Waited one hour and pumped 10 sx cement with no pressure. Waited one hour and pumped 20 sx cement to approximately 50#. 200 sx 60/40 Pozmix 6% gel.

2/24/93-Pressure tested backside, held 300#.

3-2-93 - Cement Evaluation log on file - Log indicates TOL in surface pipe. Also good to exclude cement across slotted. Opinion was that there was a channel in cement. I allowed top-down squeeze - See log - S. Dumont - photos taken:

ACTION/RECOMMENDATIONS: None. Case closed.

Retain 1 copy Joint District Office
Send 1 copy Conservation Division

By Dan Goodrow
2/24/93

LEASE INSPECTION

COMPLAINT

FIELD REPORT

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 03 1993
CONSERVATION DIVISION
WICHITA, KS