

ORIGINAL

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

Operator: License # 30819  
Name: Duncan Energy Company  
Address: 1777 S. Harrison St.  
Denver, CO 80210  
City/State/Zip \_\_\_\_\_

Purchaser: Scurlock Permian  
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  SVD  SIOW  Temp. Abd.  
 Gas  ENHR  SIGW  
 Dry  Other (Core, MSW, 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/SVD  
\_\_\_\_\_ Plug Back \_\_\_\_\_ PBTD  
\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No. \_\_\_\_\_  
\_\_\_\_\_ Other (SVD or Inj?) \_\_\_\_\_ Docket No. \_\_\_\_\_  
11-4-92 11-13-92 11-25-93  
Spud Date Date Reached TD Completion Date

API NO. 15- 071-20582-0000  
County Greeley  
SW - NE - SW - SE Sec. 11 Twp. 18S Rge. 43  E  
760 Feet from  NW (circle one) Line of Section  
2080 Feet from  EW (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE,  SE NW or SW (circle one)  
Lease Name Huddleston Well # 34-11  
Field Name Moore Johnson  
Producing Formation Morrow  
Elevation: Ground 3888' KB 3898'  
Total Depth 5300' PBTD 5250'  
Amount of Surface Pipe Set and Cemented at 237 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set 2009' Feet  
If Alternate II completion, cement circulated from 2009  
feet depth to surf CSG w/ 425 sz cat.  
Drilling Fluid Management Plan BLT-4293  
(Data must be collected from the Reserve Pit)  
Chloride content 10,000 ppm Fluid volume 3,000 bbls  
Deswering method used Evaporation  
Location of fluid disposal if hauled offsite:  
Operator Name N/A  
Lease Name \_\_\_\_\_ License No. \_\_\_\_\_  
Quarter Sec. Twp. 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 Mavis D'Keefe  
Title Sr. Engineering Technician Date 2-11-93  
Subscribed and sworn to before me this 11th day of February  
19 93  
Notary Public Helen M. Mowry  
Date Commission Expires 10-11-96

E.C.C. OFFICE USE ONLY  
F Letter of Compliance Attached  
C  Wireline Log Received  
C  Geologist Report Received  
RECEIVED  
MAR 22 1993  
KCC SVD/Rep NGPA  
KGS Plug Other  
CONSERVATION DIVISION (specify)  
Wichita, Kansas

Operator Name Duncan Energy Company Lease Name Huddleston Well # 34-11  
 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 (Attach Additional Sheets.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Stone Corral	2600'	
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Marmaton	4604'	
List All E.Logs Run:		Cherokee	4721'	
Logs enclosed		Atoka	4898'	
		Morrow	5077'	
		V-7 Sand	5151'	
		Base	5192'	
		L. Morrow	5193'	
		Miss.	5236'	

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"	24#	237'	60/40 poz	175	
Production	7-7/8"	5-1/2"	15.5#	5297'	Class G	375	3% KCL, 1% Hal.
					Lite	425	1/4# FS/SK

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	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth
4	5153-5163, 5166-5172, 5175-5177,	N/A
	5181-5188'	

TUBING RECORD	Size 2-7/8"	Set At 5117'	AC <del>XXXX</del> At 5060'	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First, Resumed Production, SWD or Inj. \_\_\_\_\_ Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bble.	Gas Mcf	Water Bble.	Gas-Oil Ratio	Gravity
	25	3(est)	0	100	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 5133-5188'



ORIGINAL

RECEIVED

INVOICE

NOV 26 1992



HALLIBURTON SERVICES

A Halliburton Company

ORIGINAL

REMIT TO:

P.O. BOX 951046

DALLAS, TX 75395-1046

INVOICE NO.	DATE
307641	11/14/1992

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER
ADOLESTON 34-11		GREGLEY		KS	SAME
SERVICE LOCATION		CONTRACTOR	JOB PURPOSE		TICKET DATE
BAR		MURFIN 14	CEMENT PRODUCTION CASING		11/14/1992
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO.
5803	DAN HALL			COMPANY TRUCK	43012

DIRECT CORRESPONDENCE TO:

DUNCAN ENERGY CO  
 1777 S. HARRISON, FENTON HOUSE  
 DENVER, CO 80210

FIRST OKLAHOMA TOWER  
 210 WEST PARK AVENUE  
 SUITE 2050  
 OKLAHOMA CITY, OK 73102-5601

PRICE REF NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	AMOUNT
	INVOICE SUBTOTAL				23,433.07
	DISCOUNT-(BID)				3,858.22-
	INVOICE BID AMOUNT				17,574.85
	*-KANSAS STATE SALES TAX				356.99
	*-GREGLEY COUNTY SALES TAX				134.09
	<p>11/30/92            11/21/92            307641            18365.93            11-14-92            013.95</p> <p>11/30/92            8300.00            500            71.67</p> <p>11/11</p>				
	<p>16504001 DE. 3670.160            18365.93</p>				
	INVOICE TOTAL - PLEASE PAY THIS AMOUNT				

RECEIVED IN A/P DEC 02 '92

ENTERED JAN 11 1992

RECEIVED

MAR 22 1993

CONSERVATION DIVISION  
\$18,365.93

FORM 1900-R4

TERMS: INVOICES PAYABLE NET BY THE 25TH 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 12% 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 2% OF THE AMOUNT OF THE UNPAID ACCOUNT.

ORIGINAL



REMIT TO: P.O. BOX 1046 DALLAS, TX 75201

RECEIVED NOV 26 1992

HALLIBURTON SERVICES

ORIGINAL

INVOICE

A Halliburton Company

INVOICE NO. 307641 DATE 11/14/1992

WELL LEASE NO./PLANT NAME		WELL/PLANT LOCATION		STATE	WELL/PLANT OWNER	
JUBILEE STN 24-11		DREELEY		KS	SAME	
SERVICE LOCATION		CONTRACTOR		JOB PURPOSE		TICKET DATE
MURFIN 14		CEMENT PRODUCTION CASING				11/14/1992
ACCT. NO.	CUSTOMER AGENT	VENDOR NO.	CUSTOMER P.O. NUMBER	SHIPPED VIA	FILE NO	
EC303	GAN HALL			COMPANY TRUCK	43012	

DIRECT CORRESPONDENCE TO:

BUNCAN ENERGY CO  
1777 S. HARRISON, PENTHOUSE 1  
DENVER, CO 80210

FIRST OKLAHOMA TOWER  
310 WEST PARK AVENUE  
SUITE 2050  
OKLAHOMA CITY, OK 73102-5601

PRICE REF NO	DESCRIPTION	QUANTITY	UM	UNIT PRICE	AMOUNT
00-117	RELEASE	60	MT	2.60	156.00
07-013	MULTI STAGE CEMENTING-1ST STAGE	5000	FT	1,810.00	1,810.00
07-161	MULTI STAGE CEMENTING-ADD STAGE	1	STG	1,243.00	1,243.00
07-103	MULTI STAGE CEMENTING-ADD HRS	8	HR	230.00	1,840.00
07-103	FLUAT ENDS - SSII-5-1/2 BRD	1	EA	225.00	225.00
07-103	FLUAT COLLAR-SSII-5-1/2 BRD	1	EA	253.00	253.00
07-103	CENTRALIZER 5-1/2" X 2' 1/2"	15	EA	44.00	660.00
07-103	MULTI STAGE CMT-5-1/2 BRD	1	EA	2,450.00	2,450.00
07-103	PLUG SET - FREE FALL - 3-STAGE	1	EA	460.00	460.00
07-103	AGGRT LIMIT CLAMP 1-1/2"	1	EA	11.30	11.30
07-103	HALLIBURTON WELD-A	1	LB	11.50	11.50
07-103	SUPER FLUSH	5	SK	101.50	507.50
07-103	HALLIBURTON LIGHT W/STANDARD	325	SK	7.64	2,485.00
07-103	STANDARD CEMENT	575	SK	4.02	2,311.50
07-103	POTASSIUM CHLORIDE	1219	LB	0.17	207.23
07-103	HALAG-522	674	LB	6.33	4,267.92
07-103	FLUCLE	100	LB	1.35	135.00
07-103	BULK SERVICE CHARGE	312	DFT	1.10	343.20
07-103	RELEASE CATD MAT DEL OR RETURN	215.00	MI	1.10	236.50

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MAR 22 1993

CONSERVATION DIVISION Wichita, Kansas

\*\*\*\*\* CONTINUED ON NEXT PAGE \*\*\*\*\*

FIX JOB TRK

TERMS

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 AFTER DEFAULT AT THE HIGHEST LAWFUL CONTRACT RATE APPLICABLE BUT NEVER TO EXCEED 13% 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



**HALLIBURTON SERVICES**  
Duncan, Oklahoma 72899

A Division of Halliburton Company

TICKET

NO. 307641-4

PAGE 1 OF \_\_\_\_\_ PAGES

ORIGINAL

FORM 1906 R-11

WELL NO.—FARM OR LEASE NAME <b>34-11 Huddleston</b>		COUNTY <b>Greeley</b>	STATE <b>Ks</b>	CITY / OFFSHORE LOCATION	DATE <b>11-14-92</b>
CHARGE TO <b>DUNCAN ENERGY</b>		OWNER <b>DUNCAN ENERGY</b>	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 <b>MURFIN #24</b>	LOCATION <b>1 LAMAR, CO</b>		CODE <b>25615</b>
CITY, STATE, ZIP		SHIPPED VIA <b>Co TRK</b>	FREIGHT CHARGES PPD <input type="checkbox"/> COLLECT <input type="checkbox"/>	LOCATION <b>2</b>	
WELL TYPE <b>01</b>	WELL CATEGORY <b>01</b>	WELL PERMIT NO.	DELIVERED TO <b>N.E. TOWNER CO.</b>	LOCATION <b>3</b>	
TYPE AND PURPOSE OF JOB <b>035</b>		ORDER NO. <b>B-116313</b>	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 after default 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 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	5.300	FT	1	unit		1810 00
007-161				2nd Stage Pump Chg.	1	unit	1	stg.		1243 00
007-203				Additional hrs Multi Stg.	8	hrs				1840 00
SA -	837.07100			Float Shoe SSII	1	ea	5/8	in		225 00
4A	836.07100			Float Collar SSII	1	ea	5/8	in		253 00
40	807.93022			s-4 Centralizers	15	ea	5/8	in	44.00	660 00
71	813,80300			Multi Stage Cementec	1	ea	5/8	in		3450 00
75	813,16510			Free Fall Plug Set	1	ea	5/8	in		460 00
66	807.64031			FAS Grip Clamp	1	ea	5/8	in		11 30
350				HALLIBURTON WELDA	1	ea				11 50
018-317				Super Flush	5	SKS			101.50	507 50

RECEIVED  
STATE COMMISSION

MAR 22 1993

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

**B-116313**

WAS JOB SATISFACTORILY COMPLETED? \_\_\_\_\_  
 WAS OPERATION OF EQUIPMENT SATISFACTORY? \_\_\_\_\_  
 WAS PERFORMANCE OF PERSONNEL SATISFACTORY? \_\_\_\_\_  
 X **DAN HALL**

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.

*[Signature]*  
HALLIBURTON OPERATOR

CONSTRUCTION DIVISION 7  
Wichita Kansas  
SUB TOTAL 23433 07

APPLICABLE TAXES WILL BE ADDED TO INVOICE





WORK ORDER CONTRACT AND PRE-TREATMENT DATA

ORIGINAL

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 307641

DISTRICT LAMAR, CO

DATE 11-14-92

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 (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. 34-11 LEASE Haddleston SEC 11 TWP. 18S RANGE 43W

FIELD COUNTY Greeley STATE KS. OWNED BY DUNCAN ENERGY

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME TYPE
FORMATION THICKNESS FROM TO
DU TOOL SET AT 20 10 FT
TOTAL DEPTH MUD WEIGHT
BORE HOLE
INITIAL PROD: OIL BPD, H2O BPD, GAS MCF
PRESENT PROD: OIL BPD, H2O BPD, GAS MCF

Table with columns: NEW USED, WEIGHT, SIZE, FROM, TO, MAX. ALLOW. P.S.I. Rows include CASING, LINER, TUBING, OPEN HOLE, PERFORATIONS.

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED
Cement 5 1/2" Long string 1st stage w/ 325 SKS STANDARD 3% KCL
1% Halad 322 1/4# Floccle, 2nd stage w/ 425 SKS Halliburton Lite
3% KCL 1% Halad 322 1/4# Floccle, 50 SKS STANDARD 3% KCL
1% Halad 322 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
a) 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.
b) 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
1. 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.
2. Reservoir, formation, or well loss or damage, subsurface trespass or any action in the nature thereof.
3. 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 resulting from pollution, subsurface pressure, losing control of the well and/or a well blowout or the use of radioactive material.
c) 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 personnel.
d) 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.
e) 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 recovered, Customer shall pay Halliburton its replacement cost unless such loss is due to the sole negligence of Halliburton.
f) To waive the provisions of the Deceptive Trade Practices - Consumer Protection Act, to the extent permitted by law
g) That this contract shall be governed by the law of the state where services are performed or materials are furnished.
h) 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 [Signature] CUSTOMER

MAR 22 1993

CONSERVATION DIVISION





# JOB SUMMARY

HALLIBURTON DIVISION  
HALLIBURTON LOCATION

EASTERN AREA 1  
LAMAR, CO

**ORIGINAL**  
BILLED ON TICKET NO. 307641

### WELL DATA

FIELD \_\_\_\_\_ SEC. 11 TWP. 18S RNG. 43W COUNTY Greecley 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. \_\_\_\_\_

FRACER TYPE DU TOOL SET AT 2010 FT

BOTTOM HOLE TEMP. \_\_\_\_\_ PRESSURE \_\_\_\_\_

MISC. DATA \_\_\_\_\_ TOTAL DEPTH \_\_\_\_\_

### JOB DATA

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>11-14-92</u>	DATE <u>11-14-92</u>	DATE <u>11-14-92</u>	DATE <u>11-15-92</u>
TIME <u>1060</u>	TIME <u>1200</u>	TIME <u>1500</u>	TIME <u>0200</u>

### TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR <u>SS II</u>	<u>1</u>	<u>Howco</u>
FLOAT SHOE <u>SS II</u>	<u>1</u>	<u>Howco</u>
GUIDE SHOE		
CENTRALIZERS <u>S-4</u>	<u>15</u>	<u>Howco</u>
BOTTOM PLUG <u>DU PlugSet</u>	<u>1</u>	<u>Howco</u>
TOP PLUG		
HEAD <u>Free Fall</u>	<u>1</u>	<u>Howco</u>
PAWNER <u>DU TOOL</u>	<u>1</u>	<u>Howco</u>
OTHER <u>Limit Clamp</u>	<u>1</u>	<u>Howco</u>

### PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>G.D. MOORE</u> <u>46066</u>	<u>40079</u>	<u>LAMAR, CO</u>
<u>D. KRIEGERL</u> <u>69429</u>	<u>2592</u>	<u>LAMAR, CO</u>
<u>Cr Ashley</u> <u>44061</u>	<u>4149-8151</u> <u>4037-5070</u>	<u>LAMAR, CO</u>
<u>T. BRADENT</u> <u>D 4604</u>	<u>52276</u> <u>76900</u>	<u>Liberal, Mo</u>

### MATERIALS

TREAT. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API

DISPL. FLUID \_\_\_\_\_ DENSITY \_\_\_\_\_ LB/GAL. API

PROP. TYPE \_\_\_\_\_ SIZE \_\_\_\_\_ LB.

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 5 SKS SUPER FLUSH

OTHER 500 gal MUD FLUSH

DEPARTMENT Cement

DESCRIPTION OF JOB Cement 5 1/2" Longstring

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN

CUSTOMER REPRESENTATIVE X D. Full

HALLIBURTON OPERATOR P.D. Zy... COPIES REQUESTED \_\_\_\_\_

### CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU FT/SK.	MIXED LBS/GAL.
<u>1</u>	<u>300</u>	<u>STANDARD</u>	<u>SW</u>	<u>B</u>	<u>3% KCL 1% Natrad 3.22 1/4" Flocc</u>	<u>1.18</u>	<u>15.7</u>
<u>2</u>	<u>425</u>	<u>HLC</u>	<u>SW</u>	<u>B</u>	<u>3% KCL 1% Natrad 3.22 1/4" Flocc</u>	<u>1.84</u>	<u>15.7</u>
<u>3</u>	<u>75</u>	<u>STANDARD</u>	<u>SW</u>	<u>B</u>	<u>3% KCL 1% Natrad 3.22 1/4" Flocc</u>	<u>1.18</u>	<u>15.7</u>

### PRESSURES IN PSI

### SUMMARY

### VOLUMES

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 \_\_\_\_\_

FEET 45.18 REASON Shoe Joint

PRESLUSH: BBL-GAL \_\_\_\_\_ TYPE \_\_\_\_\_

LOAD & BKDN: BBL-GAL \_\_\_\_\_

TREATMENT: BBL-GAL \_\_\_\_\_

CEMENT SLURRY: BBL-GAL \_\_\_\_\_

TOTAL VOLUME: BBL-GAL \_\_\_\_\_

REMARKS THANK YOU FOR WICHITA, KANSAS

**MAR 22 1993**

CONSERVATION DIVISION

CUSTOMER DUNCAN Energy

LEASE Hedderston

WELL NO. 34-11

JOB TYPE 5 1/2" Longstring

DATE 11-14-92

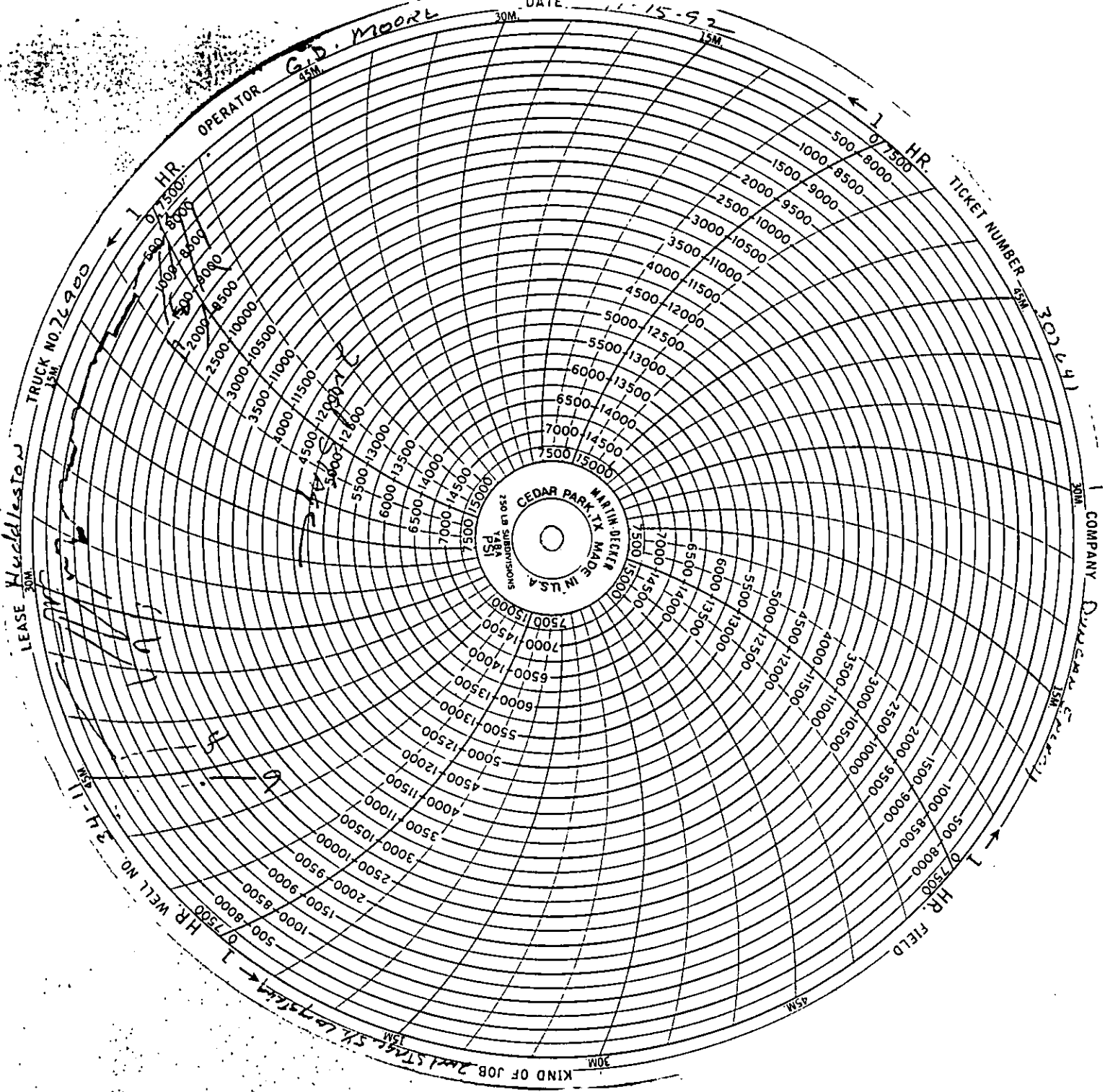
HALLIBURTON SERVICES  
JOB LOG

WELL NO. 34-11 LEASE Huddleston TICKET NO. 307641  
 CUSTOMER DUNCAN Energy PAGE NO. 1  
 JOB TYPE 5 1/2" 2 Stage Longstring DATE 11-14-92

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1000							Called out Unit # 2592.P
	1200							Request on Loc w/Float Equip.
	1200							on Loc w/Float Equip.
	1500							START Running Casing
	1815							START Circulate w/Rig Pump
1	1900	2	2		✓		500	START WATER Ahead
2	1901	2.5	5		✓		500	START Super Flush
3	1903	3	3		✓		500	START WATER behind
4	1905	6			✓		800	START Mix Cement
5	1915	6.3	63				1000	Drive shaft BROKE THAT runs hydro pump
	1915							Lacked 5 BBL mixing All Cement
6	1917							Drop Plug 1st Stage
7	1920	5			✓		500	START Water Displacement
8	1935	5	77		✓		400	Finish Water Displ + START mud
9	1945	4.8	48		✓		1000	Finish Mud Displacement
9	1945		125				1500	Plug Landed + Floatheld
10	1955							DROP FREE FALL Plug
11	2015	1/4	1/4		✓		1250	PRESSURE UP + OPEN DV TOOL
12	2018	5	10					Finish Pump Mud off truck
	2020							START Circulate w/Rig
	2020							Liberal Truck coming to Cement 2nd
								2nd Stage
	0030							Liberal Truck on Loc
1	0057	2	2		✓		400	START Spacer (water)
2	0058	6	12		✓		400	START Mud Flush
3	0100	2	2		✓		400	START Spacer (water)
4	0101				✓		500	START mix Cement
5	0128	5.7	154.75		✓		500	Finish Mix Cement
6	0129						0	Drop Plug + Washup
7	0131				✓		0	START Displacement
8	0141	3	28		✓		540	Cement Circ
9	0147	3	48		✓		540	Finish Displacement
9	0147		48				1500	Plug Landed
	0200							Job Complete

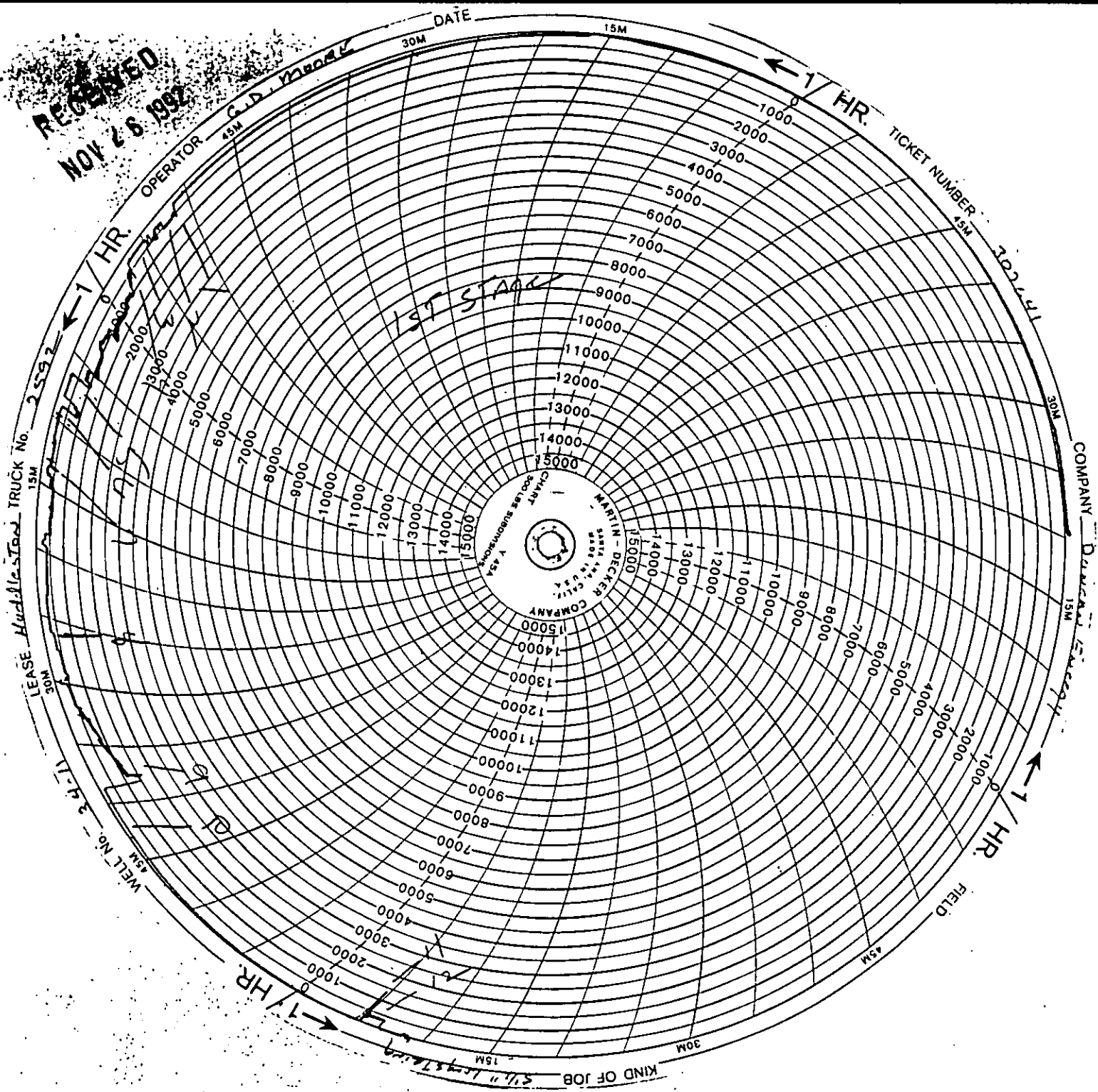
RECEIVED  
 STATE REGISTRATION COMMISSION  
 NOV 22 1993  
 CONSERVATION DIVISION  
 Wichita, Kansas  
 Thank You For a Job Well Done  
 Halliburton Services  
 Unit # 2592.P



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CONSERVATION DIVISION  
Wichita, Kansas

15-071-20582-0000

ORIGINAL

DUNCAN ENERGY COMPANY  
HUDDLESTON #34-11  
SWSE SEC. 11 T18S R43W  
760' FSL 2080 FEL  
GREELEY COUNTY  
KANSAS

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*Richard E. Bacon*  
RICHARD E. BACON  
GEOLOGIST  
MAR 22 1993

CONSERVATION DIVISION  
Wichita, Kansas  
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RESUME

OPERATOR: DUNCAN ENERGY COMPANY  
WELL NAME: HUDDLESTON #34-11  
LOCATION: SWSE SEC. 11 T18S R43W  
COUNTY: GREELEY  
STATE: KANSAS  
SPUD DATE: NOVEMBER 4, 1992 1430 HRS CST  
COMPLETION DATE (TD): NOVEMBER 12, 1992 2303 HRS CST  
ELEVATIONS: GL 3888' KB 3897'  
TOTAL DEPTHS: DRILLER 5300' LOGGER 5297'  
CONTRACTOR: MURFIN DRILLING CO.  
RIG #24  
GEOLOGISTS: COMPANY-JIM WILLIAMS WELLSITE-RICH BACON  
ENGINEER: JOHN BETTRIDGE, DAN HALL  
TOOL PUSHER: ED McKENNA  
MUD COMPANY: MUD SERVICES INC.  
ENGINEER: DUSTY RHOADES  
DRILLING MUD: GEL CHEMICAL  
HOLE SIZES: SURFACE TO 237' 12 1/4"  
237' TO 5300' 7 7/8"  
CASING: 5 JOINTS 8 5/8" SET 237'  
CORES: NONE  
DST: DST #1 5068'-5190' SEE REPORT  
E-LOGS: BPB (LIBERAL, KS)  
ENGINEER: ROBINSON  
LOG SUITE: DSI/GR/SP 5296' TO 236'  
BCA/GR/SP 5296' TO 3300'  
CN/CPD/GR 5293' TO 3300'  
BOTTOM FORMATION: MISSISSIPPIAN  
WELL STATUS: TO COMPLETE AS A V-7 MORROW SAND OIL WELL

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## SUMMARY AND CONCLUSIONS

The DUNCAN ENERGY COM. HUDDLESTON #34-11 was drilled to a total depth of 5300' driller, 5297' logger. The primary objective was the Lower Morrow V-7 Sand. This well is a direct south offset to the HUDDLESTON #33-11, 400 yards to the north.

The HUDDLESTON #34-11 spudded November 4, 1992 and reached total depth on November 11, 1992. The geologist began cuttings examination at 4500'. These were 10' samples caught by the drilling crews and lagged by well site geologist. Sample quality was poor to fair from 4500' to 5150' becoming only slightly better to TD.

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

### CHEROKEE 4721' (-824')

The only uphole show occurred at the top of this formation. Show lags back to 4734' to 4746'. Drill time went from 4 min/ft to 2 min/ft and back to 3-4 min/ft. Samples contained a limestone that was cream, micro crystalline, firm, dense, oolitic round-cream, with traces of pinpoint porosity poor to fair. There were traces of an even bright to moderate yellow fluorescence, giving a milky white crush cut leaving a pale yellow ring with no visible residue. Logs give a porosity of 5% and a peak resistivity of 35 ohms. Too tight for production considerations.

### MORROW V-7 SAND 5151' (-1254')

This sand came in at 5151', base 5192'. Cuttings were clear, translucent medium to coarse grain with a slight downward coarsening, subround to subangular with downward increase in angularity, fair sorting, slightly glauconitic, slightly to non-calcareous, siliceous, occasional kaolin fill, poor to fair porosity slight increase with depth. Up to 80% of clusters were oil stained with a trace of dead oil stain. Clusters had an even bright yellow fluorescence, giving a bright milky yellow streaming to bleeding cut, leaving an even bright green yellow ring with slight oil residue. Logs give an average porosity of 14%-16% with a resistivity of 25 to 70 ohms. A DST over this sand recovered oil, see report.

After reviewing all available data the decision was made to run pipe and complete the HUDDLESTON 34-11 as a Morrow V-7 Sand oil well.

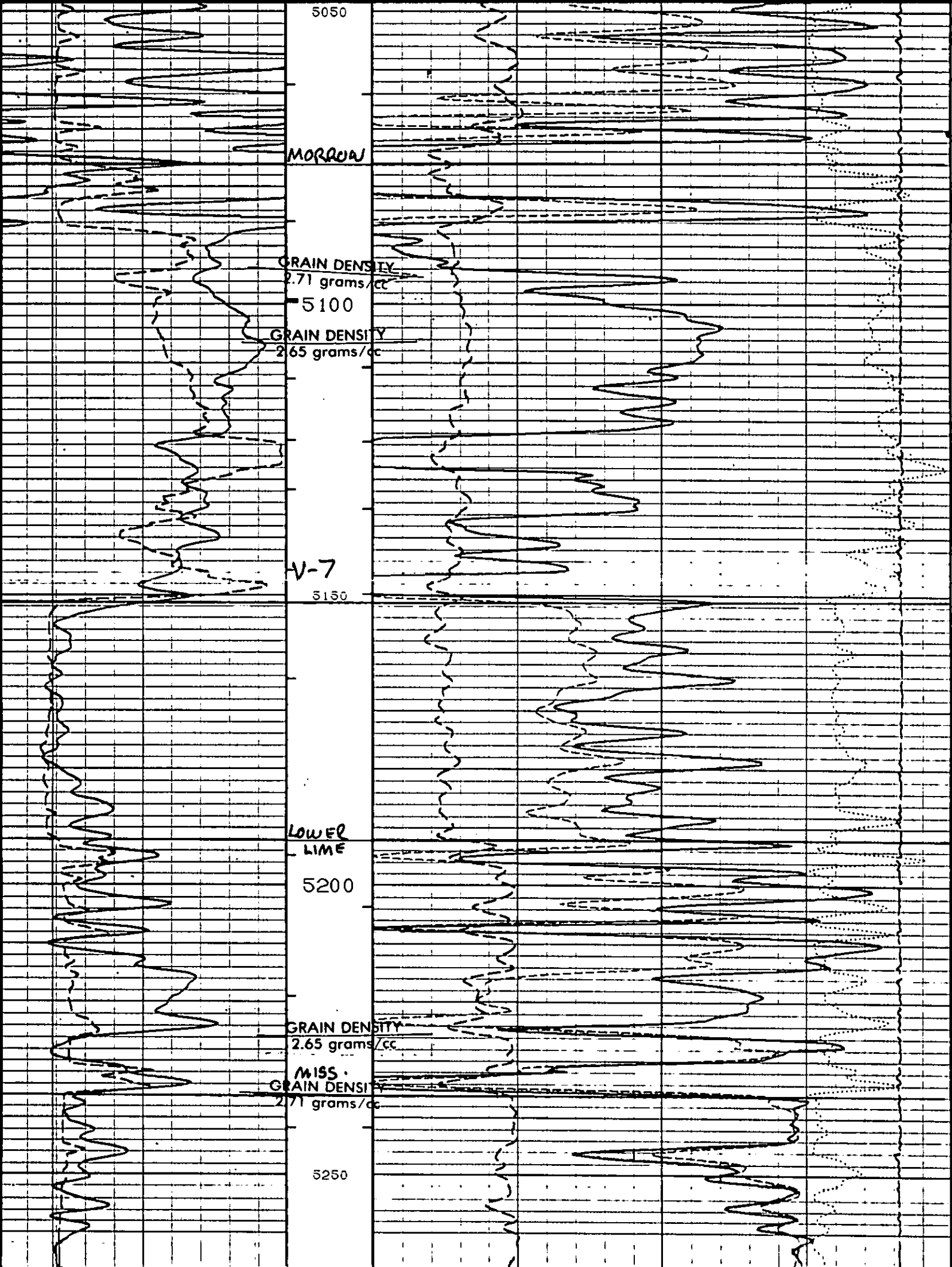
LITHOLOGIC TOPS

HUDDLESTON 34-11  
SWSE SEC. 11 T18S R43W  
GREELEY COUNTY, KS  
GL 3888' KB 3897'

HUDDLESTON 33-11  
NWSE SEC. 11 T18S R43W  
GREELEY COUNTY, KS  
GL 3909' KB 3917'

STONE CORRAL	2600' (+1297')	2603' (+1314')
MARMATON	4604' (-707')	4590' (-673')
CHEROKEE	4721' (-824')	4695' (-778')
ATOKA	4898' (-1001')	4883' (-966')
MORROW	5077' (-1180')	5053' (-1136')
V-7 SAND	5151' (-1254')	5148' (-1231')
BASE	5192' (-1295')	5160' (-1243')
LOWER MORROW	5193' (-1296')	5166' (-1249')
MISSISSIPPIAN	5236' (-1339')	5218' (-1301')





5050

MORROW

GRAIN DENSITY  
2.71 grams/cc

5100

GRAIN DENSITY  
2.65 grams/cc

V-7

5150

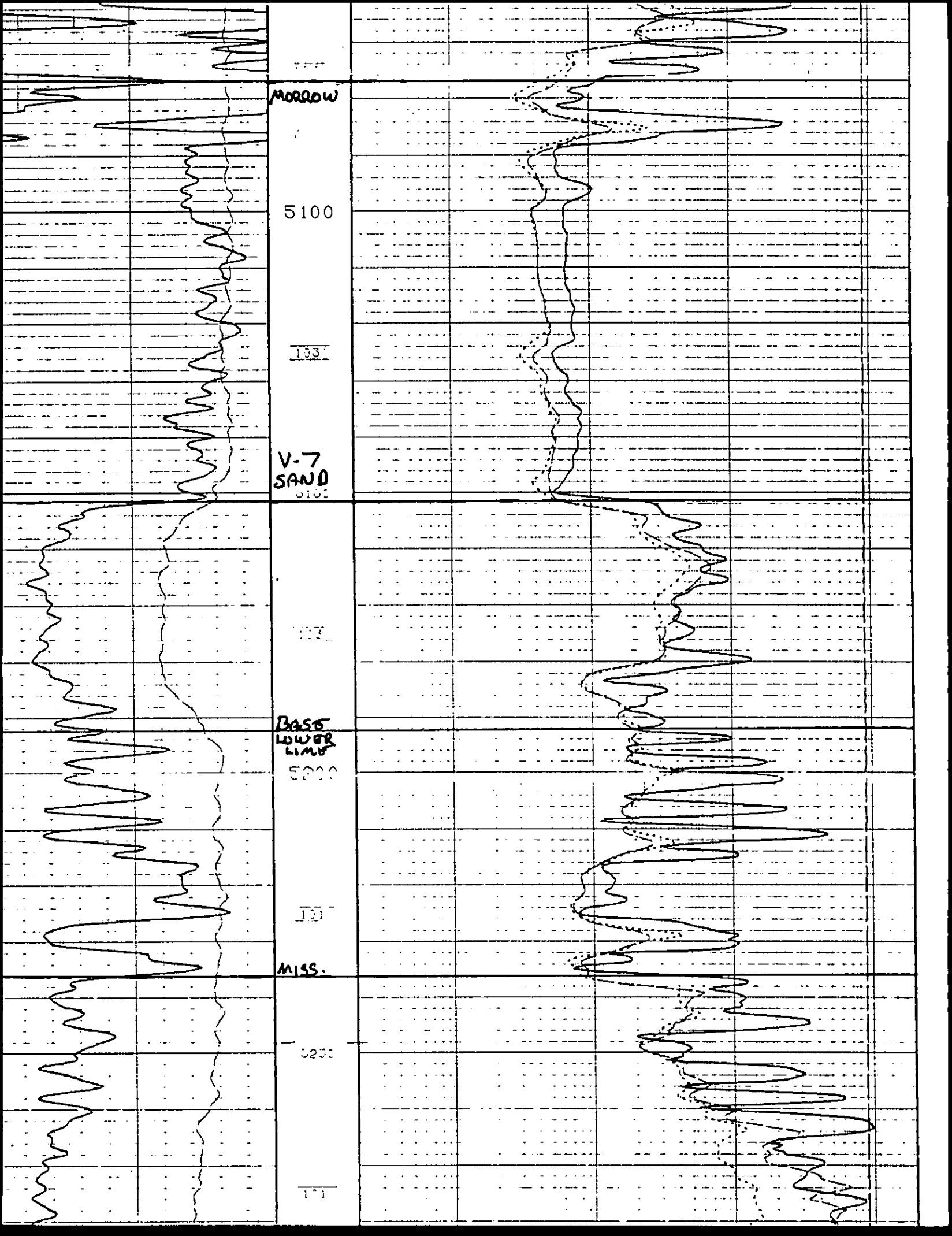
LOWER  
LIME

5200

GRAIN DENSITY  
2.65 grams/cc

MISS.  
GRAIN DENSITY  
2.71 grams/cc

5250



MORROW

5100

133

V-7 SAND  
5150

BASIS LOWER LIMB

5200

131

MISS.

5250

131

DST #1

FORMATION: LOWER MORROW V-7 SAND  
INTERVAL: 5068'-5190'  
TYPE OF TEST: CONVENTIONAL OFF BOTTOM  
TESTING COMPANY: WESTERN TESTING CO., INC.  
TESTOR: MIKE SCHUBERT  
INITIAL FLOW 30 MIN.: STRONG BLOW, OFF BOTTOM IN 10 MINUTES  
INITIAL SHUT-IN 60 MIN: DEAD  
FINAL FLOW 60 MIN.: STROMG BLOW OFF BOTTOM IN 5 MINUTES  
FINAL SHUT-IN 120 MIN.: CONTINUED BLOW, DIVERTED TO PITS  
PRESSURES: IHP 2462 FHP 2462  
IF 182 TO 294  
ISI 729  
FFP 335 TO 386  
FSI 740  
RECOVERY : 70' MUD  
602' MUD CUT OIL 80% OIL 20% MUD  
240' WATERY OIL 90% OIL 10% WATER 10,000 ppm Rw .6 @ 50°  
4298' GAS PIPE  
SAMPLER: OIL 2455 CC  
MUD 146 CC  
PRESSURE: 300 PSI  
BOTTOM HOLE TEMP.: 144°F  
SURFACE PRESSURES: PRESSURE ON SECOND OPENING REACHED 7 PSI AFTER 20 MIN.  
8 PSI AFTER 30 MIN. AND 10 PSI AFTER 45 MIN AND  
REMAINED AT 10

WELL CHRONOLOGY

<u>DATE</u>	<u>0700 DEPTH</u>	<u>FOOTAGE</u>	<u>ACTIVITY</u>
11-4-92	-	-	SPUD 1430 HRS CST, RUN CASING AT 237' 5 JOINTS 8 5/8" TALLY 225.37' SET 237' CEMENT WITH 175 SACKS 60/40 3% CaCl <sub>2</sub> 2% GEL, PLUG DOWN 1915 HRS WOC
11-5-92	237'	237'	DRILLING
11-6-92	1660'	1423'	NB #3 IN AT 2655'
11-7-92	2920'	1260'	DRILLING
11-8-92	3639'	719'	TRIP FOR HOLE IN PIPE 3639'
11-9-92	4230'	591'	MUD UP AT 4036'
11-10-92	4710'	480'	PULL PIPE FOR CRACKED COLLAR
11-11-92	4975'	265'	DRILL TO 5190' CONDITION FOR DST #1
11-12-92	5190'	215'	OPEN TEST TOOL AT 0445 HRS, COMPLETE TEST RESUME DRILLING AT 1620 HRS TD 2303 HRS
11-13-92	5300'	110'	RUN LOGS, HIT BRIDGE AT 5148' GO IN HOLE WITH DRILL PIPE, COMPLETE FIRST LOG RUN. SECOND TOOL HITS BRIDGE, GO BACK IN HOLE BUILD MUD VOLUME
11-14-92	5300'	0	CLEAR HOLE, COMPLETE SECOND LOG RUN

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"	RTC	HP11	237'	237'	2.25
2	7 7/8"	HTC	ATJ05	2655'	2418'	30
3	7 7/8"	HTC	ATJ22	5300'	2645'	101.50

DRILLING DATA

<u>DEPTH</u>	<u>BIT WEIGHT</u>	<u>REVOLUTIONS</u>	<u>PUMP PRESSURE</u>	<u>STROKES</u>
4400'	30/32	70/75	900	62
4800'	30/32	70/75	1000	62
5200'	30/32	70/75	800	56

DEVIATION SURVEYS

<u>DEPTH</u>	<u>SLOPE</u>
132'	3/4°
237'	3/4°
1203'	3/4°
2170'	1/2°
2660'	1/2°
3608'	3/4°

