

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- 185-22,802.0000

Operator: License # 5558  
Name: Dawson-Markwell Exploration Co.  
Address 3620 N.W. 58th  
City/State/Zip Oklahoma City, OK 73112

Purchaser: \_\_\_\_\_  
Operator Contact Person: Ed L. Markwell  
Phone (405) 947-2587  
Contractor: Name: Lobo Drilling Company  
License: 5864

Wellsite Geologist: \_\_\_\_\_  
Designate Type of Completion  
 New Well  Re-Entry  Workover  
 Oil  SWD  SOW  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/SWD  
 Plug Back  PBTB  
 Cemented Docket No. \_\_\_\_\_  
 Dual Completion Docket No. \_\_\_\_\_  
 Other (SWD or Inj?) Docket No. \_\_\_\_\_  
Spud Date 09-26-91 Date Reached TD 10-02-91 Completion Date 10-20--91

County Stafford  
100' North  
of - NW - SW - SE Sec. 31 Twp. 21 Rge. 11  E  
1090 Feet from  S/W (circle one) Line of Section  
2310 Feet from  E/W (circle one) Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
NE,  NW or SW (circle one)

Lease Name Fischer Well # 2  
Field Name Max  
Producing Formation Arbuckle  
Elevation: Ground 1760 KB 1769  
Total Depth 3620 PBTB \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at 281 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 cnt.  
Drilling Fluid Management Plan A 172  
(Data must be collected from the Reserve Pit)  
Chloride content 40 ppm Fluid volume \_\_\_\_\_ bbls  
Truck off top of lined pit to SWD every few days  
Dewatering method used \_\_\_\_\_  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name \_\_\_\_\_  
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 [Signature]  
Title President Date 11-5--91  
Subscribed and sworn to before me this 5<sup>th</sup> day of November, 1991.  
Notary Public Christie Hall  
Date Commission Expires 11/19/94

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
G  Geologist Report Received  
RECEIVED  
STATE CORPORATION COMMISSION  
Distribution  
KCC \_\_\_\_\_ SWD/Rep \_\_\_\_\_ NGPA  
DEU 10 \_\_\_\_\_ Plug \_\_\_\_\_ Other  
(Specify)  
CONSERVATION DIVISION  
WICHITA, KANSAS

Operator Name Dawson-Markwell Exploration Co Lease Name Fischer Well # 2

Sec. 31 Twp. 21 Rge. 11  East  West County Stafford

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 checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input 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	Anhydrite	1248	-+ 1248
Electric Log Run (Submit Copy.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3020	-- 1250
List All E.Logs Run: Dual Induction, Micro-Log, Compensated Density Neutron and Radiation Guard Log		Brown Lime	3150	- 1380
		Lansing Kansas City	3174	- 1625
		Conglomerate	3418	- 1648
		Viola	3440	- 1670
		Simpson Shale	3460	- 1690
		Simpson Sand	3478	-1708
		Arbuckle	3515	- 1745

CASING RECORD <input type="checkbox"/> New <input checked="" 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"	25#	281'	60/40poz	170	2% gel 3% cc.
Production	7-7/8"	5 1/2"	14#	3617'	40/60 poz	150	2%gel 10% salt

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	3561-66, 3553-57, 3548-51, 3537-42, 3525-28	

<b>TUBING RECORD</b>	Size <u>2 EUE</u>	Set At <u>3517</u>	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Inj.	Producing Method <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)			
Estimated Production Per 24 Hours	Oil <u>46</u> Bbls.	Gas Mcf	Water <u>28</u> Bbls.	Gas-Oil Ratio <u>34</u>

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: 3525-66

ORIGINAL

15.185.22902.0000

**james r. craig**  
PETROLEUM CONSULTANT

GEOLOGICAL REPORT

OPERATOR: DAWSON-MARKWELL EXPLORATION CO.  
3620 N. W. 58th  
OKLAHOMA CITY, OKLA. 73112

WELL: # 2 FISCHER

LOCATION: 100' N C NW SW SE SEC. 31 T21s R11w  
STAFFORD COUNTY, KANSAS  
API 15-185-22802

CONTRACTOR: LOBO DRILLING CO.  
WICHITA, KANSAS

DATE SPUD: 9-26-91  
DATE COMPLETED: 10-2-91

SURFACE CASING: 281' 8 5/8 CEMENTED WITH 170 SACKS  
60/40 POZMIX (RECEMENTED 9-27-91)

ZONES DST: ARBUCKLE

OIL & GAS ZONES: KANSAS CITY (135' ZONE), SIMPSON SAND  
ARBUCKLE DOLOMITE

ELECTRIC LOGS: WIRE-TECH DIL, CDL-N, MICRO, RG, SONIC

ROTARY TOTAL DEPTH: 3620 DRILLER, 3610 E-LOG

STATUS: 5 $\frac{1}{2}$ " CASING SET @ 3606 WITH 150 SKS 60/40  
POZMIX

RECEIVED  
STATE CORPORATION COMMISSION

DEC 18 1991

CONSERVATION DIVISION  
WICHITA, KANSAS

# ORIGINAL

OCTOBER 5, 1991

DAWSON-MARKWELL EXPLORATION CO.  
3620 N.W. 58th  
OKLAHOMA CITY, OKLA 73112

RE: # 2 FISCHER  
100' N C NW SW SE  
31-21-11w  
STAFFORD CTY KAN.

Dear Sirs;

The above captioned well was under my Geological supervision from a depth of 3000' to a total depth of 3610'. Drilling time was kept and samples examined with the Microscope and Black light for shows of hydrocarbons. Good shows of oil were encountered in the Arbuckle and a fair show was found in the Lansing/Kansas 135' zone. A small show was seen in the Simpson sand. Two DST'S were run in the top 40' of Arbuckle with positive results.

FORMATION TOPS  
E-LOG  
ELEVATIONS: 1770 KB  
1760 GL

ANHYDRITE	522	+1248
STOTLER LIME	2410	-640
TARKIO	2477	-707
HOWARD	2630	-860
TOPEKA	2730	-960
HEEBNER	3020	-1250
BROWN LIME	3150	-1380
LANSING/KANSAS CITY	3174	-1404
BASE KANSAS CITY	3395	-1625
CONGLOMERATE	3418	-1648
VIOLA	3440	-1670
SIMPSON SHALE	3460	-1690
SIMPSON SAND	3478	-1708
ARBUCKLE DOLOMITE	3515	-1745
LOG RTD	3610	

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DST # 1, 3522 / 3540 (corrected to E-Log) 30/30/30/60 STRONG blow off bottom of bucket in  $\frac{1}{2}$  min. STRONG blow off bottom of bucket in 3 min. Recovered 2000' feet of gas in pipe, 1250' clean oil (36 Gravity) BHT 112 degrees IHP 1932; IFP 357# FFP 509#; ICIP 1027#; FCIP 1017# FHP 1932.

DST # 2, 3542 / 3560 (corrected to E-Log) 30/30/30/60 STRONG blow on 1st with Gas to surface in 10 min. on second opening, recovered 2640' clean oil (36 gravity) BHT 114 degrees IHP 1902; IFP 729# FFP 958#; ICIP 1097#; FCIP 1126#; FHP 1892.

## MUD CHECKS

Date	Depth	Weight	Vis	Filtrate	Chloride
9-25-91 #1					
9-28-91 #2	2680	9.9	28		112000
9-29-91 #3	3290	10.0	38	12.8	48000
9-30-91 #4	3550	10.0	39	13.6	43000
10-1-91 #5	3580	9.6	39	8	40000

The drilling mud was in good shape during the drilling of this well.

## DAILY DRILLING PROGRESS

9-25-91 Move in & rig up  
9-26-91 Drilling at 840, set 281' 8 5/8 surface casing  
9-27-91 Drilling at 2290, re-cement surface casing (hole ?)  
9-28-91 Drilling at 2942.  
9-29-91 Drilling at 3477, start DST # 1  
9-30-91 Pull DST # 1, Drill to 3560, start DST # 2  
10-1-91 Pull DST # 2, drill to TD, run log  
10-2-91 Running production casing.

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WICHITA, KANSAS

# ORIGINAL

## STRUCTURAL COMPARISON

	FISCHER # 2	FISCHER # 1
ANHYDRITE	+1248 -3	+1251
STOTLER	-640 -7	-633
TARKIO	-707 +5	-712
HOWARD	-860 +8	-868
TOPEKA	-960 +3	-963
HEEBNER	-1250 +5	-1255
BROWN LIME	-1380 +6	-1386
LANSING	-1404 +10	-1414
BASE KANSAS CITY	-1625 +16	-1641
CONGLOMERATE	-1648 +15	-1663
VIOLA	-1670 +45	-1715
SIMPSON SHALE	-1690 +65	-1755
SIMPSON SAND	-1707 +66	-1773
ARBUCKLE DOLOMITE	-1745 +52	-1797

## SEISMIC DATA

	SP 56	SP 57
ANHY/UNCOM	491	494

This reflection seems to be working. The subject well was lower on the anhydrite than the # 1, this was the case on the seismic reflections. THE SEISMIC PROGRAM SHOULD BE CONTINUED.

## FORMATION THICKNESS

ANHY/BR LIME	2628 -9	2637
BR LIME/CONG	268 -9	277
CONG/ARBUCKLE	97 -37	134
CONG	22 -30	52
VIOLA	20 -20	40
SIMPSON	55 +13	42
ANHY/ARBUCKLE	2993 -55	3048

A complete Electric log analysis was done by Mr. Richard Leith of Wichita, Kansas. He feels this well has 43' of net Arbuckle pay. His analysis is made a part of this report.

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WICHITA, KANSAS

# ORIGINAL

## SAMPLE DESCRIPTIONS OF PERTINENT ZONES FISCHER # 2

Lansing/Kansas City "H" zone 3309-11

Limestone White to Tan, a few pieces with fair X-ln porosity  
good show FREE OIL.

Arbuckle Dolomite 3515-3570

Dolomite ,light tan to dark tan, some Rhombic, Cherty,  
succorice, good even saturation, free oil & fluorsence.

The samples were very poor due to the problem we have had with  
the mud pits and no shale shacker, however a show was noted  
in the drilling samples at 3480 and again at 3510. The 3480  
sample was the Viola and Mr. Leith thinks there may be a foot  
of productive pay at 3445/46. The 3510 sample was from the  
Simpson sand, however Mr. Leith feels the Simpson would be tight  
and not productive.

The # 2 Fischer should make a fine producer.

  
JAMES R. CRAIG 10-9-94

197152

FORM 1908 R-7

A Division of Halliburton Company

DISTRICT Cott. Books DATE 10-2-91

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

WELL NO. 2 LEASE Fischler SEC. 31 TWP. 21 RANGE 11W FIELD COUNTY STAFFORD STATE K OWNED BY SAME

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.
CASING		<u>NEW</u>	<u>14</u>	<u>5 1/2</u>	<u>KB</u>	<u>3609</u>	
LINER							
TUBING							
OPEN HOLE					<u>3609</u>	<u>10</u>	SHOTS/FT.
PERFORATIONS							
PERFORATIONS							
PERFORATIONS							

PREVIOUS TREATMENT: DATE TYPE MATERIALS

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED  
SET 3609' 5 1/2" PAD W/ 75 SKS 40/60 P2 27661 1070 SAH,  
75" MAIND 322" D 75 SKS SAME W/ 10# 61/64" PROPRK  
20 600 SAH PUSK - W/ 400#

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. 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 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.
- 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.
  - 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 resulting 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's 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 in 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.
- 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 products, 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.
- 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. 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.
- 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 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 until returned to the landing, unless such loss or damage is caused by 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.

[Signature] CUSTOMER

DATE 10-2-91



**WELL DATA**

FIELD: \_\_\_\_\_ SEC. 31 TWP. 21 RNG. 11W COUNTY STAFFORD 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: \_\_\_\_\_

**TOOLS AND ACCESSORIES**

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE	1	HOWCO
CENTRALIZERS	5	
BOTTOM PLUG		
TOP PLUG	1	
HEAD	1	
PACKER		
OTHER <u>ISORL 6 1/4" x 1 1/2"</u>	1	

**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 \_\_\_\_\_

PERFPAC BALLS TYPE \_\_\_\_\_ QTY. \_\_\_\_\_

OTHER \_\_\_\_\_

OTHER \_\_\_\_\_

**JOB DATA**

CALLED OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>10-1</u>	DATE <u>10-1</u>	DATE <u>10-2</u>	DATE <u>10-2</u>
TIME <u>1900</u>	TIME <u>2100</u>	TIME <u>0245</u>	TIME <u>0445</u>

**PERSONNEL AND SERVICE UNITS**

NAME	UNIT NO. & TYPE	LOCATION
<u>M 221 Duff</u>	<u>29247</u>	<u>25520</u>
<u>7501 GUSVOR</u>	<u>7501</u>	<u>25520</u>
<u>67184 SHEETS</u>	<u>3406</u>	<u>111</u>
	<u>BULK</u>	

DEPARTMENT SOS

DESCRIPTION OF JOB SET 3609 5 1/2 PAD

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE [Signature]

HALLIBURTON OPERATOR [Signature] COPIES REQUESTED \_\_\_\_\_

**CEMENT DATA**

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>75</u>	<u>PC2</u>	<u>40/60</u>	<u>7</u>	<u>236cl: 10% SAH, 75 HA(AD)322</u>	<u>1.27</u>	<u>14.38</u>
	<u>75</u>	<u>PC2</u>	<u>40/60</u>	<u>13</u>	<u>SAME W/ 10 #61500E PER/SK</u>	<u>1.58</u>	<u>14.18</u>

**PRESSURES IN PSI**

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

AVERAGE RATES IN BPM \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL. \_\_\_\_\_ OVERALL \_\_\_\_\_

CEMENT LEFT IN PIPE \_\_\_\_\_

FEET \_\_\_\_\_ REASON \_\_\_\_\_

**SUMMARY** 0 20 **VOLUMES** SALT

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

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

TREATMENT: BBL-GAL \_\_\_\_\_ DISPL. BBL-GAL \_\_\_\_\_

CEMENT SLURRY: BBL-GAL 17.23 + 18.45 = 35.68

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

REMARKS

STATE CORPORATION COMMISSION

DEC 18 1991

CONSERVATION DIVISION WICHITA, KANSAS

CUSTOMER MUSCO-MARKUSEL/EN/10

LEASE FISHER

WELL NO. 2

JOB TYPE S 1/2 PAD

DATE 10-2-91

**HALLIBURTON SERVICES**  
**JOB LOG**

WELL NO. 2 LEASE Fischer TICKET NO. 197152  
 CUSTOMER Dawson-Markwell Exp Co PAGE NO. \_\_\_\_\_  
 ORIGINAL JOB TYPE 5 1/2 PROD DATE 10-2-91

FORM 2013 R-2

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL.) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1900							Called out
	2100							ON WOC
								Counts 1, 3, 5, 7, 9
	0245							BREAK CIRC
	0303	7	-				500	START SALT FLUSH
	0306	6 1/2	70				500	FINISH SALT FLUSH
AST	0355	6 1/2	2.29				600	PLUG ZATHOLE w/10 SKS
AST	0355		2.29					PLUG Moushole w/10 SKS
	0355	6 1/2					600	START MIXING 55 SKS w/ G1
	0308	6 1/2	126.5				500	START MIXING 75 SKS w/ G1
	0311	6	31.08				500	FINISH MIXING
	0313	6	6					CLEAR LINES
	0313	-						RELEASE PLUG
	0314	8	-				500	START 87.67 BBI DISO
	0327	4	87.67				1000	PLUG DOWN - BY LINE
	0328	-						RELEASE HEAD
	0445							JOB COMPLETE
								THANK YOU

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STATE CORPORATION COMMISSION  
DEC 1 6 1991

JAMIE SHAWW  
JOLW

CONSERVATION DIVISION  
WICHITA, KANSAS

WORK ORDER CONTRACT  
AND PRE-TREATMENT DATA

ORIGINAL

FORM 1908 R-7

A Division of Halliburton Company

ATTACH TO INVOICE & TICKET NO. 135573

DISTRICT Pratt, Ks

DATE 9-26-91

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

WELL NO. # 2 LEASE Shaffer Fischer # 2 SEC. 31 TWP. 21 RANGE 11W  
FIELD \_\_\_\_\_ COUNTY Stafford STATE Ks OWNED BY Some

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME \_\_\_\_\_ TYPE \_\_\_\_\_  
FORMATION THICKNESS \_\_\_\_\_ FROM \_\_\_\_\_ TO \_\_\_\_\_  
PACKER: TYPE \_\_\_\_\_ SET AT \_\_\_\_\_  
TOTAL DEPTH \_\_\_\_\_ MUD WEIGHT \_\_\_\_\_  
BORE HOLE \_\_\_\_\_  
INITIAL PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF \_\_\_\_\_  
PRESENT PROD: OIL \_\_\_\_\_ BPD, H<sub>2</sub>O \_\_\_\_\_ BPD, GAS \_\_\_\_\_ MCF \_\_\_\_\_

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	<u>U</u>	<u>28</u>	<u>8 5/8</u>	<u>KB</u>	<u>279</u>	
LINER						
TUBING						
OPEN HOLE			<u>7 1/2</u>	<u>279</u>	<u>282</u>	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

PREVIOUS TREATMENT: DATE \_\_\_\_\_ TYPE \_\_\_\_\_ MATERIALS \_\_\_\_\_

TREATMENT INSTRUCTIONS: TREAT THRU TUBING  ANNULUS  CASING  TUBING/ANNULUS  HYDRAULIC HORSEPOWER ORDERED \_\_\_\_\_  
Set 8 5/8 at 279' w/ 170 SKS (40 60) Perm mix 2% gel, 3% cc

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. 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 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.

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.

- 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 resulting 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's 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 in 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.

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 products, 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.

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. 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.

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 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 until returned to the landing, unless such loss or damage is caused by the sole negligence of Halliburton.

f) To waive the provisions of the Deceptive Trade Practices Enforcement Act of the State of Kansas, as amended, which are prohibited 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.

CONSERVATION DIVISION  
WICHITA, KANSAS

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

SIGNED \_\_\_\_\_ CUSTOMER  
DATE 9-26-91  
TIME 10:00 AM

WELL DATA

FIELD \_\_\_\_\_ SEC. 31 TWP. 21 RING. 11 COUNTY. Stafford 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	J8	8 5/8	KB	299	
LINER						
TUBING						
OPEN HOLE			7 1/2	279	282	SHOTS/FT.
PERFORATIONS						
PERFORATIONS						
PERFORATIONS						

JOB DATA

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
FLOAT COLLAR		
FLOAT SHOE		
GUIDE SHOE		
CENTRALIZERS		
BOTTOM PLUG		
TOP PLUG	Wood	Howco
HEAD	Manifold	"
PACKER		
OTHER		

CALLLED OUT DATE	ON LOCATION DATE	JOB STARTED DATE	JOB COMPLETED DATE
9.26	9.26	9.26	9.26
TIME 0730	TIME 0900	TIME 1015	TIME 1130

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
J Bennett	REM - ADC	
K Gardley	51936	25520
	Bulk	
W Wilson	2656	25520

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. Set 8 1/2 Surface

JOB DONE THRU: TUBING  CASING  ANNULUS  TBG/ANN.

CUSTOMER REPRESENTATIVE. X E E Lightfoot

HALLIBURTON OPERATOR. Jerry Bennett COPIES REQUESTED \_\_\_\_\_

CEMENT DATA

STAGE	NUMBER OF BAGS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	170	40' 60	Palmix	B	2% gel, 3% cc	1.37	14.3

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING \_\_\_\_\_ DISPLACEMENT \_\_\_\_\_

BREAKDOWN \_\_\_\_\_ MAXIMUM \_\_\_\_\_

AVERAGE \_\_\_\_\_ FRACTURE GRADIENT \_\_\_\_\_

SHUT-IN: INSTANT \_\_\_\_\_ 5-MIN. \_\_\_\_\_ 15-MIN. \_\_\_\_\_

ORDERED \_\_\_\_\_ AVAILABLE \_\_\_\_\_ USED \_\_\_\_\_

TREATING \_\_\_\_\_ DISPL \_\_\_\_\_ OVERALL \_\_\_\_\_

FEET. 15 REASON. Request

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

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

TREATMENT: BBL-GAL \_\_\_\_\_ DISPL. BBL-GAL. 16.5

CEMENT SLURRY: BBL-GAL. 38.4

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

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CONSERVATION DIVISION  
WICHITA, KANSAS

CUSTOMER: Dawson - Matthews  
LEASE: Steffen - Fischer  
WELL NO: #2  
JOB TYPE: Surf Face  
DATE: 9-26-91

**HALLIBURTON SERVICES**  
**JOB LOG**

WELL NO. 2 LEASE Steinertfischer TICKET NO. 185573

CUSTOMER Dowson Markwell PAGE NO. 1

FORM 2013 R-2

JOB TYPE Surface DATE 9-26-91

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0730							Called out
	0900							On location
	0930							Set up truck
	1030						300	Break circulation
	1044	5	1		✓			Start mixing cement
	1053	5	38.4		✓			Finish mixing cement
	1054		—				—	Release Plug
	1056	1	1		✓		100	Start displacement
	1100	5	16.5		✓		300	Plug down @ 165'
	1059						OK	Good cement returns
	1110							Wash + Rock up
	1130							Job complete
								Thank You
								51936-P
								81870 Terry Bennett
								88500 Kevin Gordley
								89377 Wayne Wilson

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CONSERVATION DIVISION  
WICHITA, KANSAS

CUSTOMER



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 18186

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 1760GL Formation ARB Eff. Pay Ft.

District GREAT BEND Date 9-30-91 Customer Order No.

COMPANY NAME DAWSON-MARKWELL

ADDRESS 3620 N.W. 58th OK CITY, OK

LEASE AND WELL NO FISCHER #2 COUNTY STAFFORD STATE KS Sec 31 Twp 21S Rge 11W

Mail Invoice To Co. Name SAME Address No. Copies Requested REG

Mail Charts To Co. Name SAME Address No. Copies Requested REG

Formation Test No. 2 Interval Tested From 3542 ft. to 3560 ft. Total Depth 3560 ft.

Packer Depth 3542 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Packer Depth 3537 ft. Size 6 5/8 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3555 ft. Recorder Number 3659 Cap 4000

Bottom Recorder Depth (Outside) 3558 ft. Recorder Number 4339 Cap 4300

Below Straddle Recorder Depth ft. Recorder Number Cap

Drilling Contractor LOBO Drill Collar Length I. D. in.

Mud Type STARCH Viscosity 40 Weight Pipe Length 575 I. D. 2.7 in.

Weight 10 Water Loss 12.8 cc. Drill Pipe Length 2947 I. D. 3.8 in.

Chlorides 43,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make Serial Number Anchor Length 18 ft. Size 5 1/2 in.

Did Well Flow? Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

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

Blow: STRONG STRONG GTS 10MIN TO WEAK TO GAUGE

Recovered 2640 ft. of OIL 36 GRAVITY

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides P.P.M. Sample Jars used Remarks:

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CONSERVATION DIVISION WICHITA, KANSAS

Time On Location 8:15 AM Time Pick Up Tool 9:30 AM Time Off Location 6:00 PM

Time Set Packer(s) 1:10 AM Time Started Off Bottom 1:40 PM Maximum Temperature 114

Initial Hydrostatic Pressure (A) 1902 P.S.I.

Initial Flow Period Minutes 30 (B) 489 P.S.I. to (C) 729 P.S.I.

Initial Closed In Period Minutes 30 (D) 1097 P.S.I.

Final Flow Period Minutes 30 (E) 838 P.S.I. to (F) 958 P.S.I.

Final Closed In Period Minutes 60 (G) 1126 P.S.I.

Final Hydrostatic Pressure (H) 1892 P.S.I.

COMPANY TERMS

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

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature] Signature of Customer or his authorized representative

FIELD INVOICE

Open Hole Test \$ Mistrun \$ Straddle Test \$ Jars \$ Selective Zone \$ Safety Joint \$ Standby \$ Evaluation \$ Extra Packer \$ Circ. Sub. \$ Mileage \$



WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET ORIGINAL No. 18185

P. O. BOX 1599 PHONE (316) 262-5861  
WICHITA, KANSAS 67201

Elevation 1760 GJ Formation \_\_\_\_\_ Eff. Pay. \_\_\_\_\_ Ft.

District GREAT BEND Date 9-30-91 Customer Order No. \_\_\_\_\_

COMPANY NAME DAWSON MARKWELL

ADDRESS 3620 N.W. 58th

LEASE AND WELL NO. FISCHEA #2 COUNTY STAFFORD STATE KS Sec. 31 Twp 21 Rge 11

Mail Invoice To \_\_\_\_\_ Co. Name \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested REG

Mail Charts To \_\_\_\_\_ Address \_\_\_\_\_ No. Copies Requested REG

Formation Test No. 1 Interval Tested From 3532 ft. to 3540 ft. Total Depth 3540 ft.  
Packer Depth 3532 ft. Size 65/8 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Packer Depth 3527 ft. Size 65/8 in. Packer Depth \_\_\_\_\_ ft. Size \_\_\_\_\_ in.  
Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3545 ft. Recorder Number 3659 Cap. 4000  
Bottom Recorder Depth (Outside) 3548 ft. Recorder Number 4339 Cap. 4300  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_

Drilling Contractor LOBO #1 Drill Collar Length \_\_\_\_\_ I. D. \_\_\_\_\_ in.  
Mud Type STARCH Viscosity 42 Weight Pipe Length 575 I. D. 2.7 in.  
Weight 10 Water Loss 12.8 cc. Drill Pipe Length 2927 I. D. 3.8 in.  
Chlorides 48,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.  
Jars: Make \_\_\_\_\_ Serial Number \_\_\_\_\_ Anchor Length 18 ft. Size 5 1/2 in.  
Did Well Flow? \_\_\_\_\_ Reversed Out \_\_\_\_\_ Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.  
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 x 11 in.

Blow: STRONG OFF BOTTOM BUCKET 1/2 MIN  
STRONG OFF BOTTOM BUCKET 3 MIN.

Recovered 2000 ft. of GTP  
Recovered 1250 ft. of OT 36 GRAVITY  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Chlorides \_\_\_\_\_ P.P.M. Sample Jars used 6 Remarks: \_\_\_\_\_

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CONSERVATION DIVISION  
WICHITA, KANSAS

Time On Location 700 A.M. Time Pick Up Tool 7:30 P.M. Time Off Location 300 P.M.  
Time Set Packer(s) 900 A.M. Time Started Off Bottom 1130 P.M. Maximum Temperature 112  
Initial Hydrostatic Pressure ..... (A) 1932 P.S.I.  
Initial Flow Period ..... Minutes 30 (B) 153 P.S.I. to (C) 357 P.S.I.  
Initial Closed In Period ..... Minutes 30 (D) 1027 P.S.I.  
Final Flow Period ..... Minutes 30 (E) 408 P.S.I. to (F) 509 P.S.I.  
Final Closed In Period ..... Minutes 60 (G) 1017 P.S.I.  
Final Hydrostatic Pressure ..... (H) 1932 P.S.I.

COMPANY TERMS

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

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]  
Signature of Customer or his authorized representative

FIELD INVOICE

Open Hole Test ✓ \$ \_\_\_\_\_  
Misrun \$ \_\_\_\_\_  
Straddle Test \$ \_\_\_\_\_  
Jars \$ \_\_\_\_\_  
Selective Zone \$ \_\_\_\_\_  
Safety Joint \$ \_\_\_\_\_  
Standby \$ \_\_\_\_\_  
Evaluation \$ \_\_\_\_\_  
Extra Packer \$ \_\_\_\_\_  
Circ. Sub. \$ \_\_\_\_\_  
Mileage \$ \_\_\_\_\_