				SIDE TWO				¥ ^
perator Name <u>Mar</u>	mik Oil Co	mpany		Lease Name	Berdea	n	Well #	1
	0.5	☐ _{East}		County	Rawlins			•
oc. <u>16</u> Twp. <u>1</u>	3"	⊠ _{West}						
NSTRUCTIONS: Show interval tested, time ydrostatic pressures, f more space is need	tool open a , bottom hole	nd closed, temperatur	, flowing a	and shut-in pres	sures, whet	her shut-in pre	ssure rea	ched static level
rill Stem Tests Take (Attach Additional	*	⊠ _{Y•s}	□ No	⊠ Log	Log Formation (Top), Dept			Sample
mples Sent to Geological Survey		区 _{Yes}	□ No	Name		Тор		Datum
ores Taken		☐ _{Yes}	⊠ _{No}	Anhydrit	e	3080 4014		
ectric Log Run (Submit Copy.)		⊠ _{Yes}	□ No	Oread Lansing		4127		
ist All E.Logs Run:	Dual Induc Radiation Comp. Den,	Guard	Neu.	IFP 66-6	.147-4250 .7∦ SIP 77 O# HP 200) Rec 30	'm w/os
	Report a		ING RECORD	New U		production, et	c.	
Purpose of String	Size Hole Drilled	:	Casing In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks	Type and Percent Additives
Surface	12 1/4"	8 5/8''		20 <u>/</u>	296	60/40 poz	205	3%cc 2%ge1
			ADDITIONAL	L CEMENTING/SQUEI	ZE RECORD		l 1	1
urpose:	Depth Top Bottom	Type of	Cement	#Sacks Used		Type and Percen	t Additive	
Perforate Protect Casing				To Commence the second		The Control of the Co	**************************************	WHEN THE PROPERTY OF THE PROPE
Plug Back TD Plug Off Zone								
Shots Per Foot	PERFORATION Specify Footag		-	ugs Set/Type Perforated		Fracture, Shot,		weeze Record Depth
								- Westernay
					·	***************************************		
							M-4	
UBING RECORD	Size ,	Set	At	Packer At	Liner Run	☐ _{Yes} ☐	No	
ate of First, Resume	d Production,	SWD or I	nj. Produ	icing Method	owing \Box Pum	aping Gas Li		her (Explain)
ations and Decision	lost							

Per 24 Hours		BDIS.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity	
Disposition of Gas:			н	ETHOD OF CON	PLETION			Production Interval	
Vented Sold Used on Lease (If vented, submit ACO-18.)			Open Hole Perf. Dually Comp. Commingled Other (Specify)						
				(()			The state of the s		

CUSTOMER COPY

INVOLCE

MAROLL

543450

ORIGINA

REMIT TO: P.U. BUX 951046

DALLAS, TX 75395-1046

INVOICE NO.

HALLIBURTON SERVICES

APR 2 1 A Halliburton Company

COMPANY TRUCK

DATE

32379

WELLIPLANT LOCATION PORTIA 04/06/1992 163849 WELL LEASE NO /PLANT NAME WELL/PLANT OWNER STATE BENDEAT KS RAWLINS MARMIN OIL CO SERVICE LOCATION CONTRACTOR JOB PURPOSE TICKET DATE OBERLI MIBLE DRLG. ALION 04/06/1992 CUSTOMER AGENT ACCT, NO VENDOR NO. CUSTOMER P.O. NUMBER SHIPPED VIA FILE NO.

DIRECT CORRESPONDENCE TO:

MA I OKLAHOMA TOMER 2 PEST PARK AVENUE 20 Y. 15 45 50: E. E 2050

E. L C. CHOMA CITY, OK 73102-5601

PRICE F	REF NO.	DESCRIPTION	QUANTITY	U/M	UNIT PRICE	TRUOMA
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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 18% PER ANNUM. IN THE EVENT IT BECOMES NESSARY 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.

HALLIBUATON SERVICES Duncan, Oklahoma 73536

BULK MATERIALS DELIVERY

ORIGINATICKET CONTINUATION

FER INVOICE AND 163849-4

	Company			· · · · · · · · · · · · · · · · · · ·		APR	21			
4.292	CUSTOMER ORDER	NO.	-	WELL NO. AND FARM	COUN	ZEONF	IDEN	TIAL	STATE	
CHARGE TO	016			OWNER OLL OLL O	CONTRACT	OR	live	No.	1139	47
MAILING ADDRESS	C Oct CD	-		DELIVERED FROM	LOCATION	CODE PR	EPARED B	1		
CITY & STATE				DELIVERED TO	TRUCK NO.) Bu	CEIVED B			
PRICE REFERENCE	SECONDARY REF. OR PART NO.	со	DE	DESCRIPTION	UNITS 1	UN	IITS 2	UNIT	AMOUN'	т
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HALLIBURTON SERVICES

WORK ORDER CONTRACT

WICHITA

HORSEPOWER ORDERED

	Juncan, Oklahoma 73536		genn
0	A Division of Halliburton Co	mpany	

FORM 1908 R-7 A Division of Halliburton Company	PRE-	TREATME	NT DA	TAK CU	AT INVOICE	TACH TO & TICKET NO	o. 1638	46-1
DISTRICT Pratt, KS.	· `		-	APR 2 1		DATE 3	-31-92	2
TO: HALLIBURTON SERVICES YOU ARE HEREBY THE SAME AS AN INDEPENDENT CONTRACTOR TO:	41 1111	11 016	RNISH E	SUMPLO E		CEMEN TO	DELIVER AI	ND OPERATE
WELL NO. # LEASE BETGEON			SEC	16	TWP	1	RAI	NGE 35
		E Ks.		OWNED				
THE FOLLOWING INFORMATION	WAS F	FURNISHED	BY TH	E CUSTON	MER OR H	IIS AGEN	Г	
FORMATION NAMETYPE			NEW USED	WEIGHT	SIZE	FROM	то	MAX. ALLOW. P.S.I.
FORMATION THICKNESS FROM TO		CASING	N	20"	8%"	KB	296	,
PACKER: TYPE SET AT		LINER						
TOTAL DEPTH 298' MUD WEIGHT		TUBING		٠.	KANSAS	CORPORA	ION COM	AISSION
BORE HOLE 12 14"		OPEN HOLE			HUMON			SHOTS/FT.
INITIAL PROD: OIL BPD, H2O BPD, GAS	MCF.	PERFORATIO	NS			APR 2	3 1992	,
, PRESENT PROD: OIL BPD, H2O BPD, GAS	MCF	PERFORATIO	NS ·			4-0	13-40	
		PERFORATIO	NS .		CO	NSERVAT	ON DIVIS	ION

PREVIOUS TREATMENT:	DATE	TYPE	MATERIALS
TREATMENT INSTRUCTIONS	S: TREAT THRU TUBING 🗆 A	NNULUS \square CASING \square	TUBING/ANNULUS HYDRAULIC

Cement 8 9/8" Surface Csq. W/205 SKS. LO140-28 Gel-38 C.C

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 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, 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 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 or the unseaworthiness of any vessel owned, operated, or furnished by Halliburton or any defect in the data, products, supplies the control 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 Guits-tron, its divisions, subsidiaries, parent and affiliated companies, and the officers, directors, employees, agents and servants of all of them.

- 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 suarantee the diffectiveness 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.
- That Halliburton warrants only title to the products, supplies and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and the same are free from defects in workmanship and materials and the same are free from defects in workmanship and materials and the same are free from defects in workmanship and materials and the same are free from defects in workmanship and materials and the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from defects in workmanship and materials and that the same are free from the same are
- 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.
- To waive the provisions of the Deceptive Trade Practices Consumer Protection Act, to the extent permitted by law.
- a) 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.

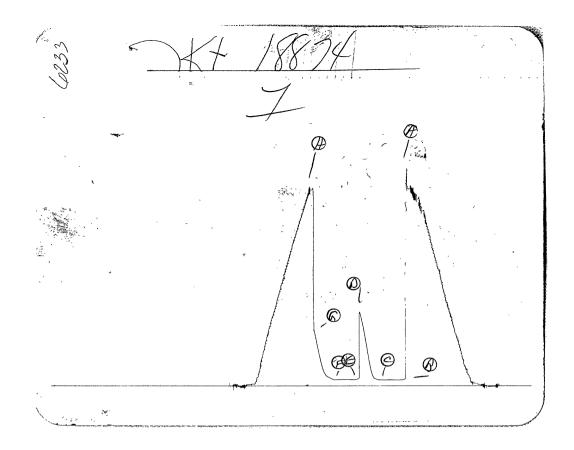
SIGNED_	They a single	Dear Secretary
DATE _	3-31-92	CUSTOMER

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.

TIME 1600

and the second	ALLIBURTON SERVICES S	UMMA	AHY	HALLIBURTON LOCATION .	()ber/14	<u>), KS</u>			B	ILLED ON CE	3846-1
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MATION THICKNES		FROM			LINER	IV	etC)	0.79	1.10	100	
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# 5			. GA5		OPEN HOLE		<u> </u>				SHOTS/FT.
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AT SHOE			P11 11 C				PERS	ONNEL AN	D SERVICE	ŮNITS	
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14		DENISTY		LB/GALAPI							
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TYPE	1 110 G	AL		%		 	i	MOUNT	ra KS		
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CUSTOMER



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KCC APR 2 1 CONFIDENTIAL

FORMATION

RELEASED

TEST

5-13-93 FROM CONFIDENTIAL

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5864 ECEIVED

KANSAS CORPORATION COMMISSION

APR 2 3 1992

4-23-92

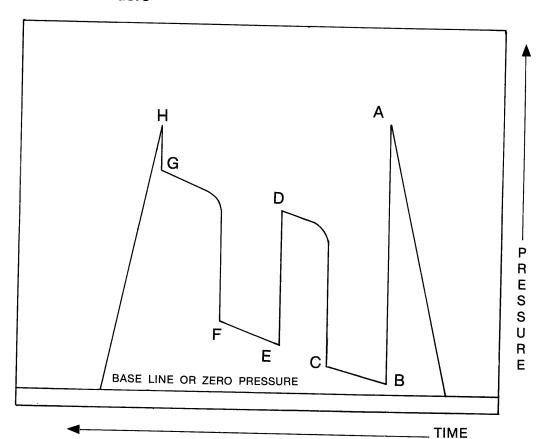
CONSERVATION DIVISION

WICHITA KS

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.

AK-1 Recorders



A - Initial Hydrostatic

B - First Initial Flow

C - First Final Flow

D - Initial Shut-In

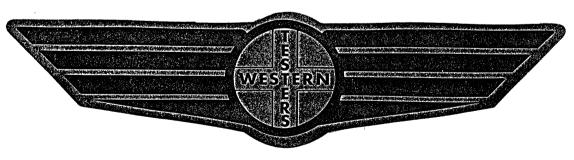
E - Second Initial Flow

F - Second Final Flow

G - Final Shut-In

H - Final Hydrostatic

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800 - 688 - 7021

DST REPORT

GENERAL INFORMATION

: 4/5/92 DATE TICKET : 18874 CUSTOMER: MARMIK OIL COMPANY LEASE : BERDEAN

WELL TEST: 1 GEOLOGIST: ?

FORMATION: L K.C. B&C

ELEVATION: 3183 KB SECTION: 16 RANGE: 35W TOWNSHIP: 1S 35W COUNTY: RAWLINS STATE : KS **GAUGE SN#: 6233** RANGE : 4000 CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4147.00 ft TO: 4250.00 ft TVD: 4250.0 ft

DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL

DEPTH OF RECORDERS: 4175.0 ft 4178.0 ft

TEMPERATURE: 128.0

DRILL COLLAR LENGTH: 0.0 ft 0.000 in I.D.: WEIGHT PIPE LENGTH : 538.0 ft I.D.: 3.200 in DRILL PIPE LENGTH : 3581.0 ft 3.800 in I.D.: TEST TOOL LENGTH : 28.0 ft TOOL SIZE : 5.500 in

ANCHOR LENGTH 103.0 ft : ANCHOR SIZE: 5.500 in 0.750 in 7.785 in 4142.0 ft SURFACE CHOKE SIZE : BOTTOM CHOKE SIZE: 0.750 in MAIN HOLE SIZE : TOOL JOINT SIZE : 4.5XH PACKER DEPTH: SIZE:

6.750 in PACKER DEPTH: 4147.0 ft SIZE: 6.750 in PACKER DEPTH: 0.0 ft SIZE: 0.000 in PACKER DEPTH: 0.0 ft SIZE: 0.000 in

MUD INFORMATION

DRILLING CON. : ABERCROMBIE RIG 4

MUD TYPE : CHEMICAL VISCOSITY: 50.00 cp WEIGHT 9.200 ppg WATER LOSS: 8.000 cc CHLORIDES

550 ppm : W.T.C. JARS-MAKE SERIAL NUMBER: 414 DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK STEADY BLOW - 1/2 INCH BLOW IN WATER.

FINAL FLOW PERIOD VERY WEAK BLOW - TOP OF WATER.

DST REPORT (CONTINUED)

.	FLUID	RECOVERY				,
	t of uid	% Oil	% Gas	% Water	% Mud	Comments
	80.0 0.0	0.0	0.0	0.0	100.0	MUD W/FEW OIL SPOTS ON TOP, OIL LESS THAN 1%

RATE INFORMATION

FINAL HYDROSTATIC PRESSURE: 2057.00

OIL VOLUME:	0.0000 STB		
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME:	70,0000 min.
MUD VOLUME:	0.7957 STB	AVERAGE OIL RATE:	16.3694 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.7957 STB	•	CCCCC DIB, B

FIELD TIME & PRESSURE INF	ORMATION							
INITIAL HYDROSTATIC PRESSURE: 2067.00								
Description	Duration	p1	p End					
INITIAL FLOW INITIAL SHUT-IN FINAL FLOW FINAL SHUT-IN	40.00 30.00 30.00 30.00	60.00	60.00 776.00 60.00 587.00					

OFFICE TIME & PRESSURE I	NFORMATION -		
INITIAL HYDROSTATIC PRESSURE:	2067.00		
Description	Duration	p1	p End
INITIAL FLOW INITIAL SHUT-IN FINAL FLOW FINAL SHUT-IN	40.00 27.00 30.00 36.00	66.00 70.00	67.00 779.00 70.00 594.00
FINAL HYDROSTATIC PRESSURE:	2054.00		

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/5/92 TICKET : 18874 CUSTOMER : MARMIK OIL COMPANY LEASE : BERDEAN

TEST: 1 WELL : 1 GEOLOGIST: ?

FORMATION: L K.C. B&C

ELEVATION: 3183 KB SECTION: 16 RANGE: 35W TOWNSHIP : 1S

COUNTY: RAWLINS RANGE: 4000 STATE : KS **GAUGE SN#: 6233** CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P	
0.00 5.00 10.00 15.00 20.00 25.00 30.00 35.00 40.00	66.00 66.00 66.00 67.00 67.00 67.00	66.00 0.00 0.00 0.00 1.00 0.00 0.00	

INITIAL SHUT IN

min)	Pressure	Delta P	Horner T
3.00	75.00	75.00	0.00
6.00	87.00	12.00	0.00
9.00	140.00	53.00	0.00
12.00	234.00	94.00	0.00
15.00	356.00	122.00	0.00
18.00	478.00	122.00	0.00
21.00	593.00	115.00	0.00
24.00	692.00	99.00	0.00
27.00	779.00	87.00	0.00

FINAL FLOW

Time		
(min)	Pressure	Delta P

PRESSURE TRANSIENT REPORT (CONTINUED)

 FINAL FLOW	(CONTINUED)	
Time (min)	Pressure	Delta 1
0.00	70.00	70.00
5.00 10.00	70.00	0.00
15.00	70.00 70.00	0.00
20.00	70.00	0.00
25.00 30.00	70.00 70.00	0.00

F	INAL SHUT	IN			. 1
Ti (m	me in)	Pressure	Delta P	Horner T	
1 1 1 2 2 2 2 3 3	3.00 6.00 9.00 2.00 5.00 8.00 1.00 4.00 7.00 0.00 3.00 6.00	70.00 70.00 72.00 84.00 95.00 107.00 136.00 188.00 280.00 374.00 476.00 594.00	70.00 0.00 2.00 12.00 11.00 12.00 29.00 52.00 92.00 94.00 102.00 118.00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	