

SIDE ONE

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

API NO. 15- 097-21,308 - 0000
County Kiowa
SE SE Sec. 33 Twp. 30S Rge. 17 X East West

Operator: License # 3344
Name: Magnum Oil and Gas
Address Rt. 1 Box 49
City/State/Zip Greensburg, KS 67054

1275' Ft. North from Southeast Corner of Section
915' Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

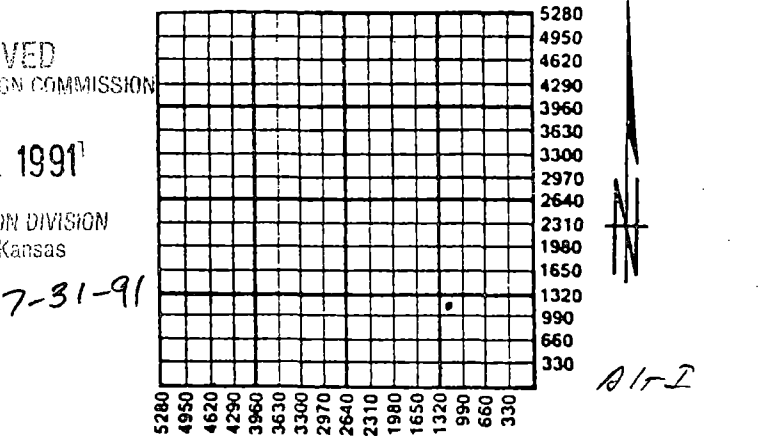
Purchaser:
Operator Contact Person: Huey Grey
Phone (316) 723-3123 or 2463

Lease Name Wedel Well # Lucky 7
Field Name _____
Producing Formation Mississippian
Elevation: Ground 2149 KB 2162
Total Depth 5679 PBDT 5677

Contractor: Name: Eagle Drilling
License: 5380
Wellsite Geologist: David Hickman

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STATE CORPORATION COMMISSION
JUL 31 1991

Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)



If OWMO: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Amount of Surface Pipe Set and Cemented at 422 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from _____
feet depth to _____ w/ _____ sx cmt.

Drilling Method:
 Mud Rotary Air Rotary Cable
3-22-91 4-1-91 7-26-91
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Crystal A. Huey
Title Secretary Date 7-29-91
Subscribed and sworn to before me this 29 day of July, 1991.
Notary Public Roberta A. Stauth
Date Commission Expires 11-6-92

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

NOTARY PUBLIC - State of Kansas
ROBERTA A. STAUTH
My Appt. Exp. 11-6-92

SIDE TWO

Operator Name Magnum Oil & Gas Lease Name Wedel Well # Lucky 7
 Sec. 33 Twp. 30S Rge. 17 East County Kiowa
 West

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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Attach Additional Sheets.) Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Submit Copy.) DST tested 4991-5080, 30-60-60-120, IF 100-119, FF 95, ISI 1359, FF 100-129, FSI 1379, IH 2411, FH 2411, BHT 120' ^{OC} , recovered 190' gas cut mud, 120' gas cut mud rainbow oil, gas to surface 17 min.	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Formation Description</th> </tr> <tr> <th style="text-align: left;">Name</th> <th></th> </tr> </thead> <tbody> <tr><td>T/Cherokee</td><td style="text-align: right;">4950</td></tr> <tr><td>T/viola</td><td style="text-align: right;">5312</td></tr> <tr><td>Simpson Dolo</td><td style="text-align: right;">5460</td></tr> <tr><td>Simpson Sd</td><td style="text-align: right;">5523</td></tr> <tr><td>Simpson SH</td><td style="text-align: right;">5546</td></tr> <tr><td>Bergen</td><td style="text-align: right;">5608</td></tr> <tr><td>Arb</td><td style="text-align: right;">5625</td></tr> <tr><td>B/Heeb</td><td></td></tr> <tr><td>t/Toron</td><td></td></tr> <tr><td>T/Doug</td><td></td></tr> <tr><td>Brown</td><td></td></tr> <tr><td>T/L.K.C.</td><td></td></tr> <tr><td>T/Stark</td><td style="text-align: right;">4769</td></tr> <tr><td>T/Swope</td><td style="text-align: right;">4781</td></tr> <tr><td>B/L.K.C.</td><td style="text-align: right;">4863</td></tr> <tr><td>Marmaton</td><td style="text-align: right;">4878</td></tr> <tr><td>Pawnee</td><td style="text-align: right;">4914</td></tr> </tbody> </table>	Formation Description		Name		T/Cherokee	4950	T/viola	5312	Simpson Dolo	5460	Simpson Sd	5523	Simpson SH	5546	Bergen	5608	Arb	5625	B/Heeb		t/Toron		T/Doug		Brown		T/L.K.C.		T/Stark	4769	T/Swope	4781	B/L.K.C.	4863	Marmaton	4878	Pawnee	4914
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CASING RECORD <input checked="" 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 $\frac{1}{4}$ "	8 5/8"	23	422	Common	225	pozmix 60/40
Production	7 7/8"	4 $\frac{1}{2}$ "	10.5	5677	Class A	135	90 pozmix 1800 A-5 salt 400 gel

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used) Depth
4	5052-5082	2000 gal 15% DSFE 5052-82
4	5028-5032	5000 gal 15% HCL 5028-32
	SQUEEZE 5052-5082 & 5028-5032, 1st 50sks salt blended 10% w/150	60% 1% Halad 322 150 sks standard cement
4	5028-5030	1000 gal 15% DSFE 5028-30
4	5051-5055	2000 gal 15% DSFE 5051-55
		32,000 gal frac gel 20-40 sand 5026-55

TUBING RECORD	Size <u>2 3/8</u>	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Date of First Production N/a	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	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 To be sold after testing

METHOD OF COMPLETION

Open Hole Perforation Dually Completed Commingled
 Other (Specify) _____

Production Interval _____

ORIGINAL

TELEPHONE:
AREA CODE 913 483-2627

ALLIED CEMENTING COMPANY, INC.
P. O. BOX 31
RUSSELL, KANSAS 67665

TO: Magnum Oil & Gas
Box 47 Rte #1
Greensburg, Kansas 67054

INVOICE NO. 59103
PURCHASE ORDER NO: _____
LEASE NAME Huck 1-17
DATE March 22, 1991

SERVICE AND MATERIALS AS FOLLOWS:

Common 135 sks @\$5.25	\$ 708.75	
Pozmix 90 sks @\$2.25	202.50	
Chloride 7 sks @\$21.00	<u>147.00</u>	\$ 1,058.25
Handling 225 sks @\$1.00	225.00	
Mileage (60) @\$0.04¢ per sk per mi	540.00	
Surface	380.00	
100' @\$0.39¢ per ft. over 300'	39.00	
Mi @\$2.00 pmp. trk.	120.00	
1 plug	<u>42.00</u>	<u>1,346.00</u>
	Total	\$ 2,404.25

RECEIVED
STATE CORPORATION COMMISSION

JUL 31 1991 Paid by chek #1371 (\$1,923.40)

CONSERVATION DIVISION
Wichita, Kansas

If account CURRENT 20% discount will
be allowed ONLY if paid within 30 days
from date of invoice.
THANK YOU

All Prices Are Net, Payable 30 Days Following Date of Invoice. 1½% Charged Thereafter.

DEPTH of Job <u>422H</u>	Mileage <u>60</u>	<u>540.00</u>
Reference: <u>Pump Truck charge</u>		
<u>60 miles charge</u>		
<u>1 wooden plug</u>		
<u>100' at .39</u>		
Sub Total		<u>1823.25</u>
Total		<u>581.00</u>
Remarks: <u>Cement did Circulate</u>	<u>paid in full by 3-22-91 #1371</u>	<u>TOTAL 2404.25</u>
	<u>\$1923.40</u>	<u>Disc 480.85</u>
<u>Allied Cementing Co Inc</u>	<u>Thank you</u>	<u>\$ 1923.40</u>

Mike Munch

(original Bid 400'-adj footage)

316-793-5861, Great Bend, Kansas

ORIGINAL

Phone Plainville 913-434-2812

Phone Ness City 913-798-3843

ALLIED CEMENTING CO., INC.

Home Office P. O. Box 31

Russell, Kansas 67665

NO 1065

New

Date	3-22-91	Sec.	17	Twp.	31	Range	20	Called Out	3:00 PM	On Location	5:30 PM	Job Start	10:00 AM	Finish	10:00 AM	
Lease	Huck	Well No.	#1-19	Location				Hiom B / Comanche	183	County	Comanche	State	KS			
Contractor	Eagle Drilling Rig #1											Owner	Mogano Oil & Gas			
Type Job	Surface Pipe 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	12 1/4	T.D.	435 ft													
Csg #	23	9 5/8	Depth	422 ft												
Tbg. Size			Depth													
Drill Pipe			Depth													
Tool			Depth													
Cement Left in Csg.	20 ft		Shoe Joint													
Press Max.			Minimum													
Meas Line	402 ft		Displace	25.9 bbl												
Perf.																

EQUIPMENT

Pumptek	No.	Cementor	Mike
	170	Helper	Brad
Pumptek	No.	Cementor	
		Helper	
		Driver	Joe W.
Bulkok	No.	Driver	
	101		

DEPTH of Job	422 ft
Reference:	Pump Truck Charge
	Mileage Charge
	1 manhour 71.00
	Sub Total
	Tax
	Total

Remarks: Cement did not set

Charge To: *Mogano Oil & Gas*

Street: _____

City: _____ State: _____

The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. _____

X *James J. [Signature]*

CEMENT *100*

Amount Ordered: *225 @ 2.3*

Consisting of	
Common	
Pos. Mix	
Gel	
Chloride	
Quickset	
Handling	
Mileage	
Sub Total	
Total	

Floating Equipment: _____

Allied Cementing Co. Inc.
Mike [Signature]

RECEIVED
STATE CORPORATION COMMISSION

9772-40

JUL 31 1991

CONSERVATION DIVISION
Wichita, Kansas



LOAD SHEET

ORIGINAL

JOB NUMBER 148507	CONTRACT NUMBER	DATE 3-31-91	DISTRICT NAME
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CUSTOMER NAME AND ADDRESS Magnum Oil & Gas	DIRECT SHIPMENT FROM
	VENDOR NAME

Item No.	Part Number	Description	UNIT OF MEASURE	AMOUNT LOADED	DIRECT SHIPPED	AMOUNT RETURNED
1	470504	Phase A	Q	135		
2	415018	Fly Ash	Q	90		
3	414005	C-12-31	Y	150		
4	415038	Soft A-5	G	1100		
5	420145	BT B-1	GA	400		
6						
7						
8						
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RECEIVED
STATE OF TEXAS COMMISSION

MAR 31 1991

STATE OF TEXAS COMMISSION
REGULATORY DIVISION

COPY 1 - DISTRICT COPY COPY 2 - CUSTOMER COPY COPY 3 - HOUSTON	LOADED BY: David O. Smith <small>PRINTED</small>	CUSTOMER: J. Johnson <small>SIGNATURE</small>
	<small>SIGNATURE</small>	DATE: 3-31-91

DAILY DRILLING REPORT
43

CONTRACTOR
Leigh Drilling Co.

DATE
3-24-91

COMPANY
Wagoner Oil & Gas

LEASE
Wagoner

WELL NO.
7 RIG NO.
1

DISTRICT
Wagoner

COUNTY
Wagoner

D. P. STRING NO.
1 SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
210	210	shale	25	25000	115	DK <i>David Brooks</i>	8
			25	12500		EM <i>Mike Allardy</i>	8
		change straighten and set in tool room				H <i>Tom Hutton</i>	8
		ACCIDENT: (GIVE NAME) <i>Conf</i>				H	
		DEG. OFF				DLR <i>Edward L. Wacker</i>	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
UN. NO.	1	WEIGHT	98	DRILLING	7	SIZE D. P.	<i>3 gal in pump</i>
SIZE	<i>7 1/2</i>	VISC.		CORING		SIZE COLL.	<i>0 1/2</i>
MAKE	<i>Reed Wood</i>	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	<i>15090</i>	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	<i>435</i>	PH.		TRIP		COLLARS	FT.
CURR. RUN	<i>10' string at 5900</i>	MTL. ADDED (REMARKS)	<i>Right side 1</i>	TOTAL		TOTAL	FT.

REMARKS: *100' new rig 19' new 115' 1100' only. Just after top. Drop pit # 1-2-3. Work done on rig, rig floor, front of doghouse, tanks, handrails, lower steps, etc. Change doghouse tool room set up from doghouse. Also 8' oil dog house floor.*

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
210	214 1/2	shale / sand	25	24000	115	DM <i>P.S. SCHNEIDER</i>	8
		Tool bit was already running machine,				EM <i>Tom 100'</i>	8
						H <i>FOR CHASE</i>	8
		ACCIDENT: (GIVE NAME) <i>27' bit 1/2" 2225</i>				H	
		DEG. OFF <i>50-60' 2-5' 1/2" 2230</i>				DLR <i>Keneth McGraw</i>	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
UN. NO.	1	WEIGHT	98	DRILLING	<i>7 1/2</i>	SIZE D. P.	<i>0 1/2</i>
SIZE	<i>7 1/2</i>	VISC.		CORING		SIZE COLL.	<i>0 1/2</i>
MAKE	<i>Wagoner</i>	WTR. LOSS-C.C.		OTHER		JTS. D. P.	FT.
SERIAL NO.	<i>15090</i>	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	<i>435</i>	PH.		TRIP		COLLARS	<i>518 70'</i>
CURR. RUN	<i>24 1/2</i>	MTL. ADDED (REMARKS)	<i>Right side 1</i>	TOTAL		TOTAL	<i>24 1/2</i> FT.

REMARKS: *Run 7:15-8:00 on, clean 24 1/2' - 25' TRUSSING - P.S. changed 11/2-3/1. Work done on rig, rig floor, front of doghouse, tanks, handrails, lower steps, etc. Change doghouse tool room set up from doghouse. Also 8' oil dog house floor.*

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
24 1/2	2700	Shale & lime	25	24000	115	DM <i>Jim Wannick</i>	8
						EM <i>Bill Mordick</i>	8
						H <i>Tom Miller</i>	8
		ACCIDENT: (GIVE NAME) <i>109' 2-5' 1/2" 24 1/2 SA - 3 1/2' AS.</i>				H	
		DEG. OFF <i>24 1/2' 3 1/2' Log</i>				DLR <i>Carl Duvall</i>	8

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
UN. NO.	1	WEIGHT	98	DRILLING	7	SIZE D. P.	<i>3 gal in pump</i>
SIZE	<i>7 1/2</i>	VISC.		CORING		SIZE COLL.	
MAKE	<i>Reed Wood</i>	WTR. LOSS-C.C.		OTHER	<i>Change 1/2</i>	JTS. D. P.	FT.
SERIAL NO.	<i>15090</i>	FILTER CAKE		REPAIRS		KELLY DOWN	FT.
DEPTH IN	<i>435</i>	PH.		TRIP		COLLARS	<i>518 70'</i>
CURR. RUN	<i>24 1/2</i>	MTL. ADDED (REMARKS)	<i>Right side 1</i>	TOTAL		TOTAL	<i>2700</i> FT.

REMARKS: *3:00-3:30 - Rig machine survey 3:30-11:00 - Drilling Clean 3-2. Work done on rig, rig floor, front of doghouse, tanks, handrails, lower steps, etc. Change doghouse tool room set up from doghouse. Also 8' oil dog house floor.*

APPROVED: _____ RECEIVED STATE COMMISSION TOOL PUSHER

JUL 31 1991

CONSERVATION DIVISION
Wichita, Kansas

WELL DRILLING REPORT
43

CONTRACTOR *Eagle Drilling Co.* ORIGINAL

DATE *3-22-91*

COMPANY *Wagoner Oil & Gas* LEASE *Wagoner*
DISTRICT COUNTY STATE D. P. STRING NO. RIG NO. SIZE

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4155	4900	Line & shale	75	36,000	1225	DM <i>Donald Brooks</i>	8
					1025 PM	EM <i>Mike Allbury</i>	7
						H <i>Todd Hoffman</i>	8

SLOPE TEST ACCIDENT: - *Get 25, Caustic-1, Soda Ash-1/2 gal. Lig-1, Dispac-1, P-10-1/2 Gal. Fuel-24 gal. F-2 Mud-1 Gal*
130 miles DRLR *Edward L. Wandy*

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT	93 93 93	DRILLING	7 1/2	SIZE D. P.	<i>Drill stem o.k.</i>
SIZE	7 1/2	VISC.	47 47 47	CORING		SIZE COLL.	
MAKE	<i>Reed HP52</i>	WTR. LOSS C.C.	10	OTHER		JTS. D. P.	<i>Pump o.k.</i>
SERIAL NO.	<i>130946</i>	FILTER CAKE		REPAIRS		KELLY DOWN	
DEPTH IN	<i>435</i>	PH.	<i>9 2</i>	TRIP		COLLARS	
HOURS RUN	<i>11:25 string wt. 98,000</i>	MTL. ADDED (REMARKS)	<i>High & cone 2</i>	TOTAL		FT.	

REMARKS: *11:00-11:45 Drly 11:45-12:00 Rig & cone. 12:00-7:00 Drly. Wash drawworks, rig floor, east of dghouse, Traps, Handrails, trays, etc. Clean dghouse, tool room, & battery dghouse. Map & oil dghouse floor.*

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
4900	5047	LIME / SHALE	75	36,000	1225	DM <i>LARRY NEWBY</i>	8
						EM <i>JOE LUSK</i>	8
						H <i>STEVE OAKES</i>	8

SLOPE TEST ACCIDENT: - *Run 60 PBL MUD @ 4932*
1" @ 4880" 1-Caustic, 2 gal
21" Fuel DEG. OFF 98 miles DRLR *Kenneth McGuire*

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT	93 93 93	DRILLING	6 3/4	SIZE D. P.	<i>Brooks - OK</i>
SIZE	7 1/2	VISC.	43 41 41	CORING		SIZE COLL.	<i>5-6AL</i>
MAKE	<i>Reed HP-52</i>	WTR. LOSS C.C.	10	OTHER	<i>Survey 1/4 1/2</i>	JTS. D. P.	<i>4487.04'</i>
SERIAL NO.	<i>X30706</i>	FILTER CAKE		REPAIRS	<i>CFs</i>	KELLY DOWN	<i>11.76 FT.</i>
DEPTH IN	<i>435</i>	PH.	<i>10</i>	TRIP		COLLARS	<i>18 548.20 FT.</i>
HOURS RUN	<i>115 1/2</i>	MTL. ADDED (REMARKS)	<i>Right hand 1/2</i>	TOTAL		FT.	<i>5047 - FT.</i>

REMARKS: *7:00-8:00 Drilling 8:00-8:30 Servo Rig, Clean #4, Run wireline survey, 8:30-9:30 Drilling --- 9:30-3:00 CFS @ 5047. Clean up sets & skids, Servo Pump motor, STAIRS & Hopper House*

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.
5047	5080	Lime and shale	75	36,000	1225	DM <i>Jim Warrick</i>	8
						EM <i>Chh Mordis</i>	8
						H <i>Steve Miller</i>	8

SLOPE TEST ACCIDENT: - *1 1/2 gal F-2 mud*
8 1/2" Fuel DEG. OFF 98 miles DRLR *Earl Duall*

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.	1	WEIGHT	93 75	DRILLING	1/2	SIZE D. P.	
SIZE	7 1/2	VISC.	45 51	CORING	<i>CFs 3</i>	SIZE COLL.	
MAKE	<i>Reed HP-52</i>	WTR. LOSS C.C.		OTHER	<i>over trip 1 1/4</i>	JTS. D. P.	
SERIAL NO.	<i>X30706</i>	FILTER CAKE		REPAIRS		KELLY DOWN	
DEPTH IN	<i>435</i>	PH.		TRIP	<i>2 1/2 3/4</i>	COLLARS	<i>18 548.20 FT.</i>
HOURS RUN	<i>116</i>	MTL. ADDED (REMARKS)	<i>Tact</i>	TOTAL		FT.	<i>5080 FT.</i>

REMARKS: *3:00-3:30 CFS @ 5047 3:30-4:00 Drilling - 4:00-5:00 CFS 5:00-5:00-6:15-275M bit trip - 6:15-7:45 CTCH & det - 7:45-9:45 TON what - 9:45-10:30 Make up tool - 10:30 11:00 TTH what*

APPROVED RECEIVED TOOL PUSHER

III 31 1991

DRILLING REPORT

CONTRACTOR *Eagle Drilling Co.* ORIGINAL

DATE *3-29-91*

WELL NO. *7* RIG NO. *1*
 COUNTY *Wade* STATE _____ D. P. STRING NO. _____ SIZE _____

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRB.
						DM <i>Deard Brooks</i>	<i>8</i>
		<i>Dst #1 - 4992-5080</i>				EM <i>Mike Allsbury</i>	<i>8</i>
		<i>Total wts - 30-40-60-120</i>				H <i>Todd Hoffman</i>	<i>8</i>
		ACCIDENT - (GIVE NAME)				H	
		<i>Wash front of down works & rig bar.</i>					
		DEG. OFF				DRLR <i>Edward L. Woody</i>	<i>8</i>

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
NO.		WEIGHT		DRILLING		SIZE D. P.	<i>4 1/2</i>
		VISC.		CORING		SIZE COLL.	<i>6 1/4</i>
		WTR. LOSS - C.C.		OTHER	<i>tool 1/4</i>	JTS. D. P.	<i>ok</i>
		FILTER CAKE		REPAIRS		KELLY DOWN	<i>ok</i>
		PH.		TRIP	<i>3 1/2</i>	COLLARS	<i>ok</i>
		MTL. ADDED (REMARKS)			<i>Dist 4 1/2</i>	TOTAL	<i>ok</i>

MARKS: *1100-1215 on hole w/ dist #1 1215-1145 Dist #1 on bottom.*
1145-1145 Pull Dist #1. 1145-900 Break tool.
has down hole tool room & bit room down hole & oil down hole floor.

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRB.
<i>050</i>	<i>5:05</i>	<i>lime & shale</i>	<i>75</i>	<i>36,000</i>	<i>1100</i>	DM <i>B.J. Schneider</i>	<i>8</i>
						EM <i>Steve Oares</i>	<i>8</i>
						H <i>Eric Chase</i>	<i>8</i>
		ACCIDENT - (GIVE NAME)					
		<i>Clean #1 Dist #1 Pds. on 120 bars down</i>					
		DEG. OFF				DRLR <i>Larry Newby</i>	<i>8</i>

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
NO.		WEIGHT	<i>75</i>	DRILLING	<i>4 1/2</i>	SIZE D. P.	<i>4 1/2</i>
		VISC.	<i>60</i>	CORING		SIZE COLL.	<i>6 1/4</i>
		WTR. LOSS - C.C.		OTHER	<i>tool - chaps 1/4</i>	JTS. D. P.	<i>ok</i>
		FILTER CAKE		REPAIRS		KELLY DOWN	<i>ok</i>
		PH.		TRIP	<i>2 1/2</i>	COLLARS	<i>18 548.29</i>
		MTL. ADDED (REMARKS)			<i>1/2</i>	TOTAL	<i>5205</i>

MARKS: *1:00-7:45 Break - down tool & rod joints 7:45-10:00 trip*
by bit break at 10:00-11:00 Only
trip up around 11:00-12:00 + repairs

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRB.
<i>305</i>	<i>5:30</i>	<i>lime and shale</i>	<i>75</i>	<i>36,000</i>	<i>900</i>	DM <i>J.M. Wenzel</i>	<i>8</i>
					<i>1200</i>	EM <i>Gary Masdon</i>	<i>8</i>
						H <i>Steve Miller</i>	<i>8</i>
		ACCIDENT - (GIVE NAME)					
		<i>1-Down - 3 CS - 2 Hg</i>					
		DEG. OFF				DRLR <i>Curt Duvall</i>	<i>8</i>

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
NO.		WEIGHT	<i>75</i>	DRILLING	<i>7 1/2</i>	SIZE D. P.	<i>4 1/2</i>
		VISC.	<i>14</i>	CORING		SIZE COLL.	<i>6 1/4</i>
		WTR. LOSS - C.C.	<i>10.0</i>	OTHER		JTS. D. P.	<i>ok</i>
		FILTER CAKE		REPAIRS		KELLY DOWN	<i>ok</i>
		PH.		TRIP	<i>1/2</i>	COLLARS	<i>18 548.20</i>
		MTL. ADDED (REMARKS)			<i>1/2</i>	TOTAL	<i>5330</i>

MARKS: *3:00-3:15 1st CS - 15 min Drilling Clean - 1-3 - Put up flood light -*
change oil in rod column & tighten collar pump packing - G.H.P. -
to 1st well - 1st CS - 1st CS - Put two wells last sacks to level -

FORM DEVELOPED AND DESIGNED BY _____ APPROVED _____
 AGENCY ASSOCIATION OF DRILLERS STATE CORPORATION COMMISSION TOOL PUSHER

JUL 31 1991

Geological Division
 Wichita, Kansas

DAILY DRILLING REPORT

43

CONTRACTOR Eagle Drilling Co.

ORIGINAL

DATE 3-30-91

COMPANY Magnum Oil & Gas LEASE Model DISTRICT COUNTY Kansas STATE Kansas D. P. STRING NO. 7 RIG NO. 1

Table with columns: FROM, TO, FORMATION, ROTARY SPEED, WEIGHT ON BIT, PUMP PRES., NAME, HRS. Includes entries for Dearld Brooks, Mike Allsbury, and B. P. Schneider.

BIT AND COREHEAD RECORD, MUD RECORD, TIME RECORD, DRILL STEM RECORD. Includes fields for UN NO., SIZE, MAKE, SERIAL NO., DEPTH IN, DURATION, WEIGHT, VISC., WTR. LOSS, etc.

REMARKS: 11:00-11:45 Drig 11:45-12:00 Rig & cone 12:00-1:00 Drig Dump pit #2

Table with columns: FROM, TO, FORMATION, ROTARY SPEED, WEIGHT ON BIT, PUMP PRES., NAME, HRS. Includes entries for B.J. SCHNEIDER, JOE LUSK, and ERIC CHASE.

BIT AND COREHEAD RECORD, MUD RECORD, TIME RECORD, DRILL STEM RECORD. Includes fields for UN NO., SIZE, MAKE, SERIAL NO., DEPTH IN, DURATION, WEIGHT, VISC., WTR. LOSS, etc.

REMARKS: 7:00-8:45 DRILLING 8:45-9:00 SERVING CLEAN #4 9:00-3:00 DRILLING

Table with columns: FROM, TO, FORMATION, ROTARY SPEED, WEIGHT ON BIT, PUMP PRES., NAME, HRS. Includes entries for Jim Warrick, Jeff Mardis, and Steve Miller.

BIT AND COREHEAD RECORD, MUD RECORD, TIME RECORD, DRILL STEM RECORD. Includes fields for UN NO., SIZE, MAKE, SERIAL NO., DEPTH IN, DURATION, WEIGHT, VISC., WTR. LOSS, etc.

REMARKS: 3:00-3:15 Rig 3:15-3:45 Drilling 3:45-7:45 CFS @ 5680

FORM DEVELOPED AND CONTROLLED BY AMERICAN ASSOCIATION OF DRILLING CONTRACTORS

JUL 31 1991

Wichita, Kansas

DAILY DRILLING REPORT

ORIGINAL

43
 CONTRACTOR: *Engle Oil Co*
 DATE: *3-31-91*
 COMPANY: *Magnam Oil & Gas*
 WELL NO.: *7*
 RIG NO.: *1*
 DISTRICT: *Wade*
 COUNTY: *Winn*
 STATE: *Kansas*
 D. P. STRING NO.:
 SIZE:

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.	
<i>5680</i>		<i>Take down Floor Trip + Frame</i>		<i>900</i>		<i>Deard Brooks</i>	<i>8</i>	
		<i>Change o.l. of Filters in pump motor. Grease Fire hubs.</i>		<i>545PM</i>		<i>Mike Alshury</i>	<i>8</i>	
						<i>Todd Hoffman</i>	<i>8</i>	
SLOPE TEST		ACCIDENT:— (GIVE NAME)	<i>Check chains in drawworks.</i>					
<i>16" @ 5680 ft.</i>			<i>Replace oil base on pump motor.</i>					
<i>End 28 DEG. OFF</i>			<i>Hang to lay down pipe 130 miles</i>				<i>DRLR Edward L. Woody</i>	<i>8</i>

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	<i>DRS etc. O.K.</i>
SIZE		VISC.		CORING	<i>1</i>	SIZE COLL.	
NAME	<i>1630-700 W.O.D.</i>	WTR. LOSS-C.C.		OTHER	<i>4 1/2</i>	JTS. D. P.	<i>Change</i>
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	
DEPTH IN		PH.		TRIP	<i>2</i>	COLLARS	
HOURS RUN	<i>straight 108,000</i>	MTL. ADDED (REMARKS)	<i>W.O.D.</i>	TOTAL		TOTAL	

REMARKS: *11:00-12:00 C.H. 12:00-2:00 Survey & trip out P/129. 2:00-4:30 Logging. Clean doghouse, tool room, take down shed frame on steel pits, & pick up around location. Take down automatic diller. Set collar below head. Drain pit water. Wash out premix.*

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.	
<i>5680</i>						<i>R.T. SCHNEIDER</i>	<i>8</i>	
						<i>JOE LUSK</i>	<i>8</i>	
						<i>ERIC CHASE</i>	<i>8</i>	
SLOPE TEST		ACCIDENT:— (GIVE NAME)						
<i>26" Pvc. DEG. OFF</i>			<i>73 miles</i>				<i>DRLR Kennel McGuire</i>	<i>8</i>

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING	<i>1</i>	SIZE COLL.	
NAME		WTR. LOSS-C.C.		OTHER		JTS. D. P.	<i>5101.63 FT.</i>
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	<i>30.17 FT.</i>
DEPTH IN		PH.		TRIP	<i>2 1/2</i>	COLLARS	<i>548.20 FT.</i>
HOURS RUN		MTL. ADDED (REMARKS)	<i>LAY ON PIPE - 3/4</i>	TOTAL		TOTAL	<i>5680 FT.</i>

REMARKS: *7:00-9:30 TRIP IN BIT 9:30-10:30 CIRC + LOAD OUT TESTER, RIG UP TO LAY ON PIPE 10:30-11:45 LAY ON PIPE*

FROM	TO	FORMATION	ROTARY SPEED	WEIGHT ON BIT	PUMP PRES.	NAME	HRS.	
<i>5680</i>						<i>Jim Warrick</i>	<i>8</i>	
						<i>Jeff Menden</i>	<i>8</i>	
						<i>Steve Miller</i>	<i>8</i>	
SLOPE TEST		ACCIDENT:— (GIVE NAME)						
<i>6 FT.</i>			<i>78m</i>				<i>DRLR Brent Duval</i>	<i>8</i>

BIT AND COREHEAD RECORD		MUD RECORD		TIME RECORD		DRILL STEM RECORD	
RUN NO.		WEIGHT		DRILLING		SIZE D. P.	
SIZE		VISC.		CORING		SIZE COLL.	
NAME		WTR. LOSS-C.C.		OTHER	<i>Comment 1 1/4</i>	JTS. D. P.	
SERIAL NO.		FILTER CAKE		REPAIRS		KELLY DOWN	
DEPTH IN		PH.		TRIP	<i>4 1/2</i>	COLLARS	
HOURS RUN		MTL. ADDED (REMARKS)	<i>4 1/2</i>	TOTAL		TOTAL	

REMARKS: *8:00-5:15 - Rig up around Pvc 4 1/2 casing - 5:15-6:30 - Comment - 6:00-11:00 - Set slope - 11:00-11:45 -*

APPROVED: _____ RECEIVED STATE CORPORATION COMMISSION

**WORK ORDER CONTRACT
 AND PRE-TREATMENT DATA**

ATTACH TO INVOICE & TICKET NO. 097547

DISTRICT P. 11 DATE 4-23-91

YOU ARE HEREBY REQUESTED TO FURNISH EQUIPMENT AND SERVICEMEN TO DELIVER AND OPERATE THE SAME AS AN INDEPENDENT CONTRACTOR TO: Grey Grey Oil Tools ORIGINAL (CUSTOMER) AND DELIVER AND SELL PRODUCTS, SUPPLIES, AND MATERIALS FOR THE PURPOSE OF SERVICING

WELL NO. Lucky #7 LEASE Wadell SEC. _____ TWP. _____ RANGE _____
 FIELD _____ COUNTY Lea STATE KS OWNED BY Same

THE FOLLOWING INFORMATION WAS FURNISHED BY THE CUSTOMER OR HIS AGENT

FORMATION NAME _____ TYPE _____
 FORMATION THICKNESS _____ FROM _____ TO _____
 ACKER TYPE 4 1/2" PHS SET AT _____
 TOTAL DEPTH _____ MUD WEIGHT _____
 CORE HOLE _____
 INITIAL PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF
 PRESENT PROD: OIL _____ BPD, H₂O _____ BPD, GAS _____ MCF

	NEW USED	WEIGHT	SIZE	FROM	TO	MAX. ALLOW. P.S.I.
CASING	61	105	4 1/2	13' 4 1/2		
LINER						
TUBING	61	4.7	2 3/8		4926	PHS
OPEN HOLE						SHOTS/FT.
PERFORATIONS				5028	5033	
PERFORATIONS				5052	5082	
PERFORATIONS						

PREVIOUS TREATMENT: DATE _____ TYPE _____ MATERIALS _____

TREATMENT INSTRUCTIONS: TREAT THRU TUBING ANNULUS CASING TUBING/ANNULUS HYDRAULIC HORSEPOWER ORDERED _____
Run 1 1/2" PHS - Square ports with 150 SX STD Port with 1025 SX
1 1/2" 50 SX has 6 of 176 Hval 322

RECEIVED
 STATE CORPORATION COMMISSION
 JUL 31 1991

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, 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 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.
 - 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.
 - 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 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.
 - 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 [Signature] CUSTOMER
 DATE 4-23-91
 TIME _____ A.M. P.M.

I 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.

CUSTOMER

**BULK MATERIALS DELIVERY
AND
TICKET CONTINUATION**

FOR INVOICE AND
TICKET NO. 097547

ORIGINAL

DATE 4-24-91	CUSTOMER ORDER NO.	WELL NO. AND FARM Weidel	COUNTY Kiowa	STATE Ks.
CHARGE TO Gray & Gray Oil & Gas		OWNER Same	CONTRACTOR Pratt Well Serv.	No. B 918144
MAILING ADDRESS		DELIVERED FROM Great Bend, Ks.	LOCATION CODE 25520	PREPARED BY J.M. Sheets
CITY & STATE		DELIVERED TO Location	TRUCK NO. 4604-8206	RECEIVED BY <i>[Signature]</i>

PRICE REFERENCE	SECONDARY REF. OR PART NO.	CODE		DESCRIPTION	UNITS 1		UNITS 2		UNIT PRICE	AMOUNT	
		L	D		QTY.	MEAS.	QTY.	MEAS.			
504-308	516.00261	2	b	Standard Cement	150	sk			5.35	802.50	
509-968	516.00315	2	b	Salt Blended 10% W/150	650	lb.			.10	65.00	
507-775	516.00144	2	b	Blad 322 Blended .6% W/50	28	lb.			6.15	172.20	
THIS IS NOT AN INVOICE											
RECEIVED STATE CORPORATION COMMISSION JUL 31 1991 CONSERVATION DIVISION Wichita, Kansas											
				Returned Mileage Charge	TOTAL WEIGHT	LOADED MILES	TON MILES				
				SERVICE CHARGE ON MATERIALS RETURNED			CU. FEET				
500-207		2	b	SERVICE CHARGE			CU. FEET 159	1.15		182.85	
500-306		2	b	Mileage Charge	14,778 TOTAL WEIGHT	44 LOADED MILES	325.12 TON MILES	.80		260.10	
No. B 918144		CARRY FORWARD TO INVOICE						SUB-TOTAL	8		1482.65

ORIGINAL

FORM 1906 R-11

WELL NO. - FARM OR LEASE NAME <i>Huck #2</i>		COUNTY <i>Kiowa</i>	STATE <i>KS</i>	CITY / OFFSHORE LOCATION		DATE <i>4-23-91</i>
CHARGE TO <i>Energy Dept 911605</i>			OWNER <i>Same</i>	TICKET TYPE (CHECK ONE) SERVICE <input type="checkbox"/> SALES <input type="checkbox"/>		NITROGEN JOB YES <input type="checkbox"/> NO <input type="checkbox"/>
ADDRESS <i>Energy Dept 911605</i>			CONTRACTOR <i>R.H. Hall</i>	LOCATION 1 <i>W.H.H.S.</i>		CODE <i>25555</i>
CITY, STATE, ZIP			SHIPPED VIA <i>Truck</i>	FREIGHT CHARGES <input type="checkbox"/> PPD <input type="checkbox"/> COLLECT		LOCATION 2 <i>61 Bank</i>
WELL TYPE <i>OL GAS</i>			WELL CATEGORY <i>Production</i>	DELIVERED TO <i>Loc</i>		LOCATION 3
TYPE AND PURPOSE OF JOB <i>W.H.H.S. 075-Spare</i>			WELL PERMIT NO. B-918144	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 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 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		
100-115		1		MILEAGE	40	M	1	M	135	5400
107-017		1		45 RNS	4726	FT				125500
000-117		1		Milage	40	M	1	M	260	10400
009-134		1		Pump Charge	5082	FT				146000

THIS IS AN INVOICE

AS PER ATTACHED BULK MATERIAL DELIVERY TICKET NO.

B- 118144

118265

WAS JOB SATISFACTORILY COMPLETED? _____

WAS OPERATION OF EQUIPMENT SATISFACTORY? _____

WAS PERFORMANCE OF PERSONNEL SATISFACTORY? _____

James Gray
CUSTOMER OR HIS AGENT (PLEASE PRINT)

James Gray
CUSTOMER OR HIS AGENT (SIGNATURE)

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.

F. J. ...
HALLIBURTON OPERATOR

HALLIBURTON APPROVAL

CUSTOMER

SUB TOTAL

4555 65

APPLICABLE TAXES WILL BE ADDED ON INVOICE.

WELL DATA

LOG NO. SEC. TWP. RNG. COUNTY Rock STATE KS

FORMATION NAME _____ TYPE _____

FORMATION THICKNESS _____ FROM _____ TO _____

STIAL PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

ESSENT PROD: OIL _____ BPD. WATER _____ BPD. GAS _____ MCFD

COMPLETION DATE _____ MUD TYPE _____ MUD WT. _____

DRILLER TYPE _____ SET AT _____

BOTTOM HOLE TEMP. _____ PRESSURE _____

LOG DATA _____ TOTAL DEPTH _____

	NEW USED	WEIGHT	SIZE	FROM	TO	MAXIMUM PSI ALLOWABLE
CASING	1	25	4"	1750		
LINER						
TUBING		11			177	14-
OPEN HOLE						SHOTS/FT.
PERFORATIONS					2020	4/1
PERFORATIONS				250	2050	
PERFORATIONS						

JOB DATA

CALLER OUT	ON LOCATION	JOB STARTED	JOB COMPLETED
DATE <u>7-20</u>	DATE <u>7-20</u>	DATE <u>7-20</u>	DATE <u>7-27</u>
TIME <u>8:00</u>	TIME <u>1:00</u>	TIME <u>10:00</u>	TIME <u>11:00</u>

PERSONNEL AND SERVICE UNITS

NAME	UNIT NO. & TYPE	LOCATION
<u>F. R. ...</u>	<u>114</u>	<u>Rock</u>
<u>D. King</u>	<u>7000</u>	<u>Rock</u>
<u>J. ...</u>		
<u>D. ...</u>	<u>7000</u>	<u>Rock</u>
<u>A. ...</u>	<u>7000</u>	<u>Rock</u>

TOOLS AND ACCESSORIES

TYPE AND SIZE	QTY.	MAKE
COAT COLLAR		
COAT SHOE		
WHEEL SHOE		
CENTRALIZERS		
BOTTOM PLUG		
CP PLUG		
EAD		
WACKER	<u>1</u>	<u>...</u>
OTHER		

MATERIALS

TREAT. FLUID _____ DENSITY _____ LB/GAL-API

WATER 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

WATER AGENT TYPE _____ GAL _____ IN

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

SELLING AGENT TYPE _____ GAL-LB. _____ IN

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

BREAKER TYPE _____ GAL-LB. _____ IN

BLOCKING AGENT TYPE _____ GAL-LB. _____ IN

PERFPAC BALLS TYPE _____ QTY. _____

OTHER _____

OTHER _____

DEPARTMENT ...

DESCRIPTION OF JOB ...

JOB DONE THRU: TUBING CASING ANNULUS TBG/ANN.

CUSTOMER REPRESENTATIVE X

HALLIBURTON OPERATOR ... COPIES REQUESTED _____

CEMENT DATA

STAGE	NUMBER OF SACKS	CEMENT	BRAND	BULK SACKED	ADDITIVES	YIELD CU.FT./SK.	MIXED LBS./GAL.
	<u>51</u>	<u>...</u>		<u>...</u>	<u>...</u>	<u>...</u>	<u>...</u>
	<u>106</u>	<u>...</u>		<u>...</u>	<u>...</u>	<u>...</u>	<u>...</u>

PRESSURES IN PSI

SUMMARY

VOLUMES

CIRCULATING _____ DISPLACEMENT _____ PRESLUSH: BBL-GAL _____ TYPE _____

BREAKDOWN _____ MAXIMUM _____ LOAD & BKDN: BBL-GAL _____ PAD: BBL-GAL _____

AVERAGE _____ FRACTURE GRADIENT _____ TREATMENT: BBL-GAL _____ DISPL: BBL-GAL 17

SHUT-IN: INSTANT _____ 5-MIN. _____ 15-MIN. _____ CEMENT SLURRY: BBL-GAL ...

HYDRAULIC HORSEPOWER _____ TOTAL VOLUME BBL-GAL _____

ORDERED _____ AVAILABLE _____ USED _____ AVERAGE RATES IN BPM _____

TREATING _____ DISPL. _____ OVERALL _____ CEMENT LEFT IN PIPE _____

FEET _____ REASON ...

REMARKS

RECEIVED

STATE CORPORATION COMMISSION

JUL 31 1991

CUSTOMER: ... DATE: 7-27-91