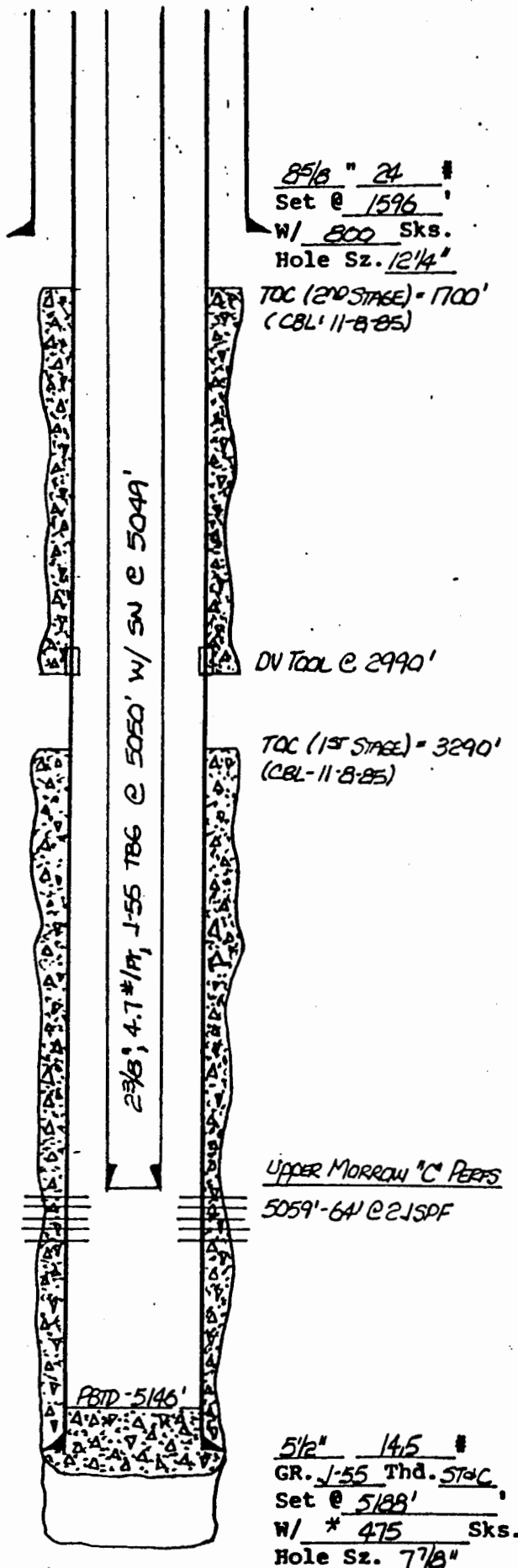


Well No. 19-6

State **KANSAS**

Date Completed 12-24-85

Formation (s) Upper Maestwich "C"

Distance "H" B' 

* 2 STAGE OMT Job w/ DV tool @ 2990'.
1st STAGE: 200 SY.
2nd STAGE: 275 SY.

Total Depth 5650'

Initial Production Oil	68	B/D
Pump () Flow (X) Water	0	B/D
Other Gas	1787	MCF/D

Initial Treatments *PERFED MRW "C" @ 5059'-64' @*

2/19/97 ACIDIZED W/ 750 GALS DIESEL + FLUSHED W/ 20.2 BBL
DIESEL. AIR: 1.5 BPM, ATP: 2100*, 151P: 2000*

FORCED W/ 12,680 GALS MY-T-OIL II (GELLED DIESEL) & 10,500*
2040 S.W.D. RUMPED 6000 GAL PAD, FOLLOWED BY 6680 GALS
TREATMENT FLUID & FLUSH. SCREENED OUT OIL FLUSH. MTP = 5000*,
ATP = 4500*, MIR = 7.5 BPM, AIR = 7 BPM. ISP = 5000*.
BHP = 718* (SURVEY OF 11-17-85)

Workovers

Present Production Oil _____ B/I
 Pump () Flow () Water _____ B/I
 Other Gas _____ MCF/I

Present Producing Equipment LT-23 1/8" 47 1/2" 8" TBG
1-23 1/8" x 4' 9 1/2", 1-23 1/8" x 8' 9 1/2", 1-23 1/8" x 10' 9 1/2", 158 lbs-23 1/8"
8" 47 1/2" TBG, tbg, 1-23 1/8" x 12 1/2' 32" SWL. BOTTOM OF TBG @ 5050'
W/SW @ 5049'

Proposed Work

Prepared by AEE Date 1-7-86

LEASE & WELL NO. *ESMITH #19-6*

PRESSURE GRADIENT SURVEY

Operator J.M. HUBER
Well Name SMITH 19-6Test Date 10-27-88
Reservoir MORROW CLocation 19-31S-40W
County MORTON
State KANSAS
Field KINSLERWell Status SI 50 HRS.
Elevation (Ft) 3340 GL; 3353 KB
Zero Point (Ft) GL + 10
Depth Datum (Ft) 5026

>>> BHP 233 psig at 5,026 (-1,686) Ft BHT 126 F at 5026 Ft <<<

>>> Fluid Levels: Oil (None) Water (None) Mud (None) <<<

Depth (Ft)	Pressure (Psig)	Pressure (Psia)	Fluid Gradient (Psi/Ft)	Pressure (K Pa)	Specific Gravity (Water = 1)
0	200.5	214.9		1 482	
5,026	232.7	247.1	.0064	1 704	.015



(5026 Ft = 1 532 Metres)

Specific Gravity Ranges of Well Bore Fluids

NATURAL GASES
CRUDE OILS
FORMATION WATERS
DRILLING MUDS

Tubing Pressure	201 psig DWG	Tubing Size	2 3/8	Set	5064
Casing Pressure	209 psig DWG	Packer Set	NONE	Top Conn	2 3/8
Pressure Element No	51094	Tubing	-	Min ID	-
Run by	H.B.	Casing/Liner Pfs			5059-5064

Remarks:

N. L. S., Inc.

PH. 316-624-4581

BOX 1417

LIBERAL, KANSAS 67901

STATIC BOTTOM HOLE PRESSURE TEST

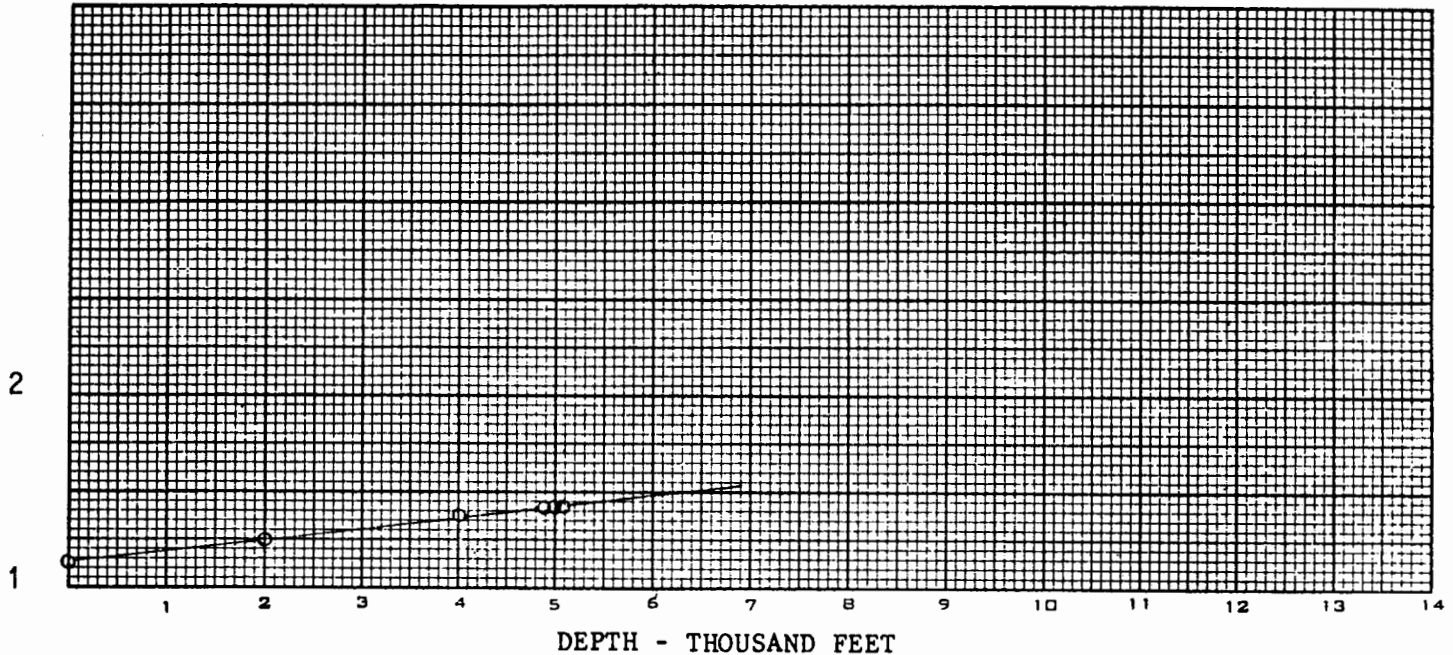
J. M. Huber Corporation
COMPANY



Lease E. Smith
Location Sec. 19- 31 S-40 W

NO. 19-6 TYPE COMPLETION: Single String
COUNTY: Morton STATE: Kansas

PRESSURE - HUNDRED P.S.I.G.



DEPTH - THOUSAND FEET

WELL RECORD

Elevations:
Ground _____
Derrick Floor _____
Kelly Bushing _____
Permanent Zero KB-13' A.G.L.
Instrument Zero 4' A.G.L.
Instrument to Permanent Zero -9'
Pressures are (X) are not () corrected

CASING RECORD

OD SIZE	WEIGHT LB./FT.	GRADE	SET AT

TUBING RECORD

OD SIZE	WEIGHT LB./FT.	GRADE	SET AT
2 3/8	4.7	J-55	5041

PERFORATION RECORD

From	To	From	To
5059	5064		

WELL TEST DATA

SHUT-IN: 1-25-90
FORMATION: Upper Morrow "C"
ELEVATION (GR.) _____ FEET
DATUM: 5061.5 FEET
CASING PRESSURE: 120.8 P.S.I.G.
TUBING PRESSURE: 112.8 P.S.I.G.
TOP OF FLUID: None FEET
TOP OF WATER: None FEET
B.H.T.: 134 *F
SHUT-IN TIME: 15 Days HRS.
INSTRUMENT: 35592 -N Amerada
CALIBRATION DATE: 2-5-90
LAST TEST DATE: Initial
PRESSURE LAST TEST: _____ P.S.I.G.
B.H.P. CHANGE _____
GAS GRAVITY: _____
DATE WHEN GRAVITY RUN: _____
TOTAL DEPTH: _____ FEET
FLUGBACK DEPTH: _____ FEET
OPERATOR: Mark Schmitzer

Instrument At 5062 Ft., @ 4:30 p.m.

REMARKS Well Dead Weight @ 4:00 P.M. Instrument T. D. @ 5,071'

PANTECHS LABORATORIES

☐ P. O. BOX 2439 TEL. 806 669-6821 PAMPA, TEXAS 79066-2439
☐ P. O. BOX 3246 TEL. 806 797-4325 LUBBOCK, TEXAS 79452-3246

SAMPLE DATA

CUSTOMER..... J M HUBER CORPORATION

STATION No.... --

OPERATOR..... J M HUBER CORPORATION

LEASE..... E SMITH 19-6

PLANT..... SPEARMAN

SAMPLE OF..... --

PRESSURE..... 23#

TEMPERATURE... --

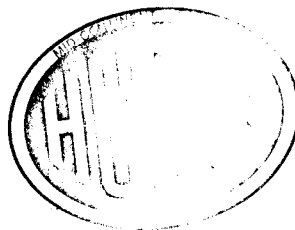
ATM. TEMP..... --

SAMPLE DATE... 10-9-90

SAMPLED BY.... HUBER

ANALYSIS DATE. 10-18-90

SAMPLE CYL.No. PL-1681



ANALYSIS RESULTS

COMPONENT	MOL %	GPM, *
NITROGEN N2	0.58	
CARBON D. CO2	0.49	
METHANE C1	49.31	
ETHANE C2	21.25	5.701
PROPANE C3	19.30	5.393
I-BUTANE IC4	2.40	0.808
N-BUTANE NC4	4.51	1.468
I-PENTANE IC5	0.81	0.311
N-PENTANE NC5	0.94	0.359
HEXANES+ C6+	0.41	0.184

DISTRIBUTION:

J M HUBER CORPORATION

3-#7120 I-40 WEST, AMARILLO, TX 79106
MR PAUL WALKER

1-P O Box 888, SPEARMAN, TX 79081
MR JERRY TROUT

1-P O Box 2381, BORGER, TX 79007
MR DOUG REED

GASOLINE CONTENT (GPM), *

PENTANES & HEAVIER....	0.854
BUTANES & HEAVIER.....	3.130
PROPANE & HEAVIER.....	8.523
ETHANE & HEAVIER.....	14.224
26 # GASOLINE.....	1.213

HEATING VALUE, ** (GROSS BTU/CF)

WATER VAP. SAT.....	1670
DRY GAS BASIS.....	1700

SPECIFIC GRAVITY

CALC., WATER SAT.....	1.006
CALC., DRY BASIS.....	1.013

REMARKS:

*, 14.65 PSIA & 60 F
 **, 14.65 PSIA & 60 F

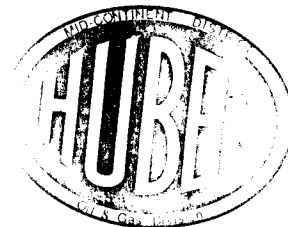
HIGH PLAINS

WIRELINE SERVICES, INC.

P.O. BOX 981 • PERRYTON, TX 79070 • 806-435-7195

Well Log

STATIC GRADIENT SURVEY



Company J.M. HUBER CORP. Test Date 8/23/89
Lease & Well No. E. SMITH 19-6 Field KINSLER
Section 19 Blk/Twnshp 31 Srvy/Rg 41
County MORTON State KANSAS
Measurements From 13' AGL Tubing Size 2 3/8 Set @ 5060'
Packer @ NONE Perforations 5059 to 5064 Formation UPPER MORROW
Instrument Run Depth 5062 Maximum Temperature 132 F
Test Started @ 2:50 Beginning Tubing Pressure(DWT) 133 PSIG
Beginning Casing Pressure(DWT) 140 PSIG
Shut-in Time 29.5 hrs
Date of Last Test N/A
Datum Pressure Last Test N/A PSIG
Comments: PERFS. CLEAR TO 5085'. NO T.D.

Instrument #: 57101

Range: 2010 psig

Clock Range: 3 hrs

Depth of Bomb(ft)	Time	Pressure PSIG	dPressure PSI	dDepth (ft)	Gradient (PSI/ft)
0	2:50	134.9	0.00	0	0.000
1500	2:56	142.2	7.34	1500	0.005
3000	3:01	150.2	7.96	1500	0.005
4500	3:06	159.9	9.74	1500	0.006
4862	3:10	162.5	2.62	362	0.007
4962	3:13	163.5	0.94	100	0.009
5062	3:16	164.2	0.73	100	0.007

HIGH PLAINS

WIRELINE SERVICES, INC.

P.O. Box 981
Perryton, Texas 79070
Phone 806-435-7195

SUBSURFACE PRESSURE SURVEY

Company J.M. Huber Corporation Test Date August 14, 1987
Lease E. SMITH 19-6 Well No. Field Kinsler
Section 19 Block T31S Survey R40W County Morton State Kansas
Producing Formation Upper Morrow Measurements Are From KB @ 13'
Elevation
Shut-In Time 96 Hrs.
Shut-In Tubing Pressure 317#
Shut-In Casing Pressure —
Tubing Size 2 3/8" Set at 5064'
Packer Set at 4999'
Perforations 5059' - 5064'
Top of Oil In Last 100' Approx.
Top of Water None Approx.
Temperature at 5026 ft 130 F.
Date of Last Test April 2, 1987
Shut-In Time, Last Test 31 Hrs.
Pressure at Datum, Last Test 466.7

INSTRUMENT DATA

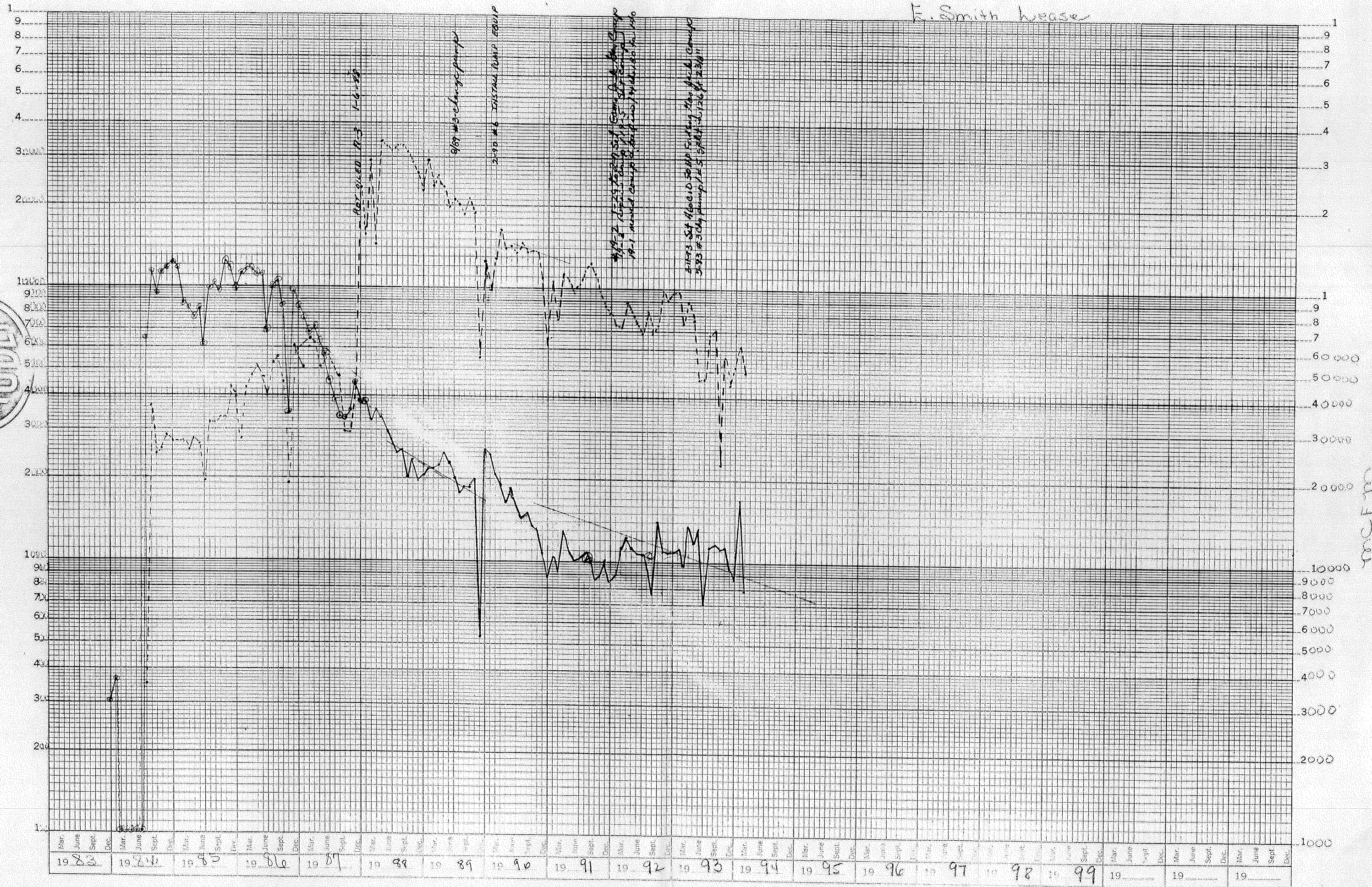
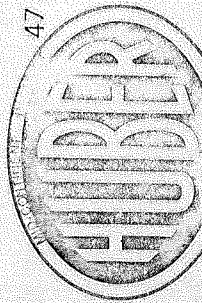
Element RPG-3
No. 47456 Range 0-1500 psi
Clock Amerada
No. A22096 Range 3 Hrs.
Calibration Date June 15, 1987

Remarks:

Check T.D. at Not Requested

Operator Danny Fowler

Depth	Time	Pressure	ΔP	ΔD	Gradient
0'	9:13 A	309.5	---	---	---
2000'	9:17	328.8	19.3	2000	.010
4000'	9:22	350.0	21.2	2000	.011
4726'	9:25	358.1	8.1	726	.011
4826'	9:28	359.1	1.0	100	.010
4926'	9:30	360.2	1.1	100	.011
5026'	9:34 A	393.6	33.4	100	.334



STATE OF KANSAS - CORPORATION COMMISSION
PRODUCTION TEST & GOR REPORT



Form C-5 Revised

Conservation Division

TYPE TEST: Initial Annual Monthly Reclassification None TEST DATE: 7-21-92

Company J. M. Huber Corporation Lease Smith Well No. 19-6

County Morton Location C SW SW Section 19 Township 31S Range 40W Acres 80

Field Kinsler (U. Morrow) Reservoir Morrow Pipeline Connection Colony Natural Gas ANGI

Completion Date 12-24-85 Type Completion (Describe) Single (Oil) Plug Back T.D. 5146' Packer Set At

Production Method: Pumping Type Fluid Production. Oil & Gas & SW API Gravity of Liquid/Oil 42.3

Casing Size 5-1/2" Weight 14 I.D. 5.012 Set At 5188' Perforations 5059' To 5064'

Tubing Size 2-3/8" Weight 4.7 I.D. 1.995 Set At 5060' Perforations To

Pretest: Duration Hrs.

Starting Date 7-20-92 Time 9:00 AM Ending Date 7-21-92 Time 9:00 AM Duration Hrs. 24

Test: Starting Date 7-20-92 Time 9:00 AM Ending Date 7-21-92 Time 9:00 AM Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure					Choke Size		
Casing: 25 psi			Tubing:							
Bbls./In.	Tank		Starting Gauge			Ending Gauge			Net Prod. Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:										
Test:	480	11.44	2	1 1/2	42.4	2	2	43.2	0	.8

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range					
Pipe Taps:	Flange Taps: ✓		Differential: 50			Static Pressure: 500		
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure			Diff. Press. (hw) or (hd)	Gravity Gas (Gg)	Flowing Temp. (t)
			In.Water	In.Merc.	Psig or (Pd)			
Orifice Meter	3	1 1/4			24.0	6.125	.827	60
Critical Flow Prover								
Orifice Well Tester								

GAS FLOW RATE CALCULATIONS (R)

Coeff. MCFD (Fb)(Fp)(OWTC)	Meter-Prover Press. (Psia) (Pm)	Extension $\sqrt{hw \times Pm}$	Gravity Factor (Fg)	Flowing Temp. Factor (Ft)	Deviation Factor (Fpv)	Chart Factor (Fd)
<u>7.771</u>	<u>38.4</u>	<u>15.34</u>	<u>1.100</u>	<u>1.000</u>		
Gas Prod. MCFD	<u>131</u>	Oil Prod. Bbls./Day: <u>.8</u>	Gas/Oil Ratio (GOR) = <u>16,375</u>	Cubic Ft. per Bbl.		

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 21 day of July 19 92

For Office Operator

For State

For Company

Form C-5 (5/88)