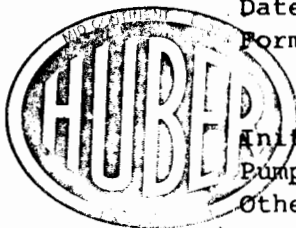


Lease E. SMITH #19-5Well No. #19-5Location C SE SW SEC. 19-31S-40WCounty MORTONState KANSASK. B. Elev. 3839'G. L. Elev. 3329' CHFDistance "H" 10'Date Completed 5-31-85Formation (s) UPPER MORROW - C -
- KINSLER (U. MORROW) FIELD -Initial Production Oil 299 B/
Pump () Flow (X) Water 0 B/
Other Gas 1318 MCF/

* FLOWING @ 350 # FTP ON 2 1/2" CHOKE; 721 PSIG BHP

Initial Treatments PERF 5030-40' W/2 HPF; SWAB
AND WELL KICKED OFF

8 5/8" 24 # J-55

Set @ 1598'W/ 750 Sks.Hole Sz. 12 1/4"TOC 2nd STAGE
@ 1950'

N/A

Gr. Thd. #
Set @ #
W/ Sks.
Hole Sz.

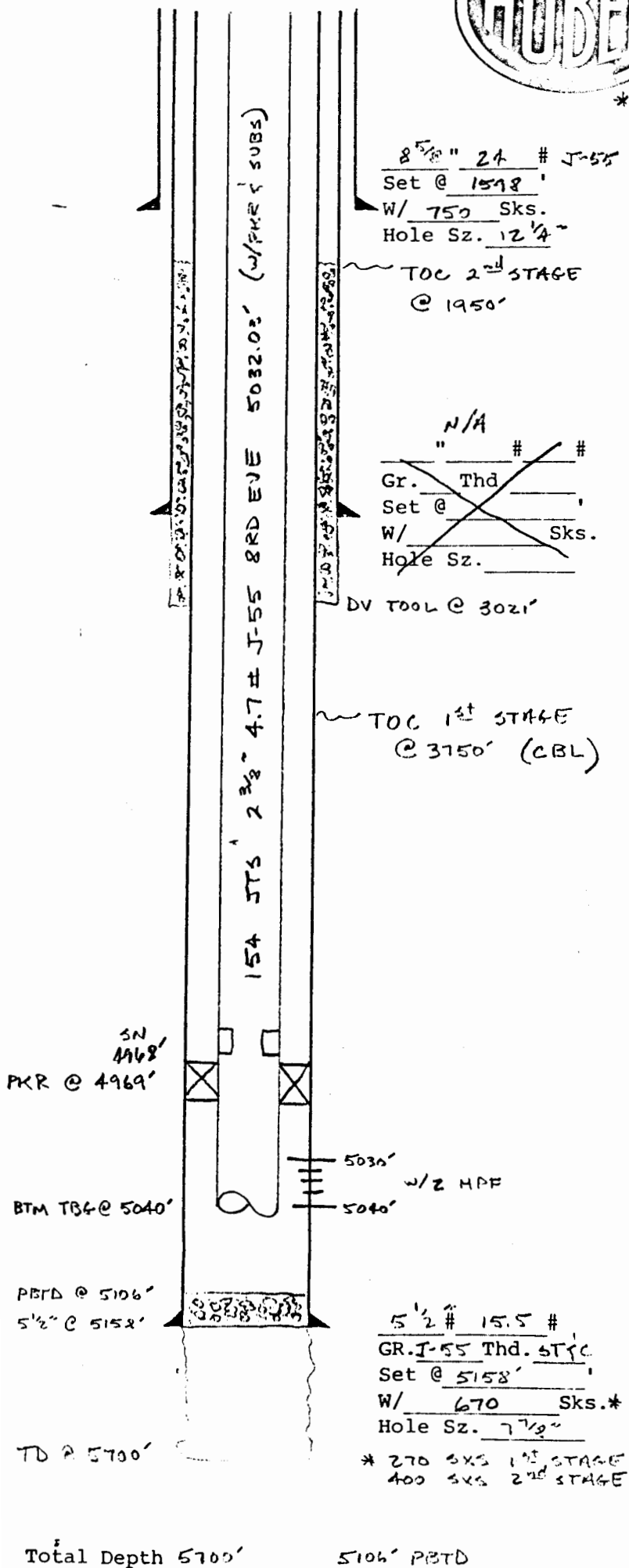
DV TOOL @ 3021'

TOC 1st STAGE
@ 3150' (CBL)

Workovers

Present Production Oil 45 B/D
Pump () Flow (X) Water 0 B/D
Other Gas 500 MCF/D

Present Producing Equipment

Proposed Work INSTALL NATIONAL 160 P.U. W/25
HP ELEC. MOTOR, 3/4" ROD STRING W/1 1/4" I.D.H
PUMPPrepared by SIDDENSDate 6-7-85LEASE & WELL NO. E. SMITH #19-5

X copy

PANTCHS LABORATORIES

☐ P. O. BOX 2439 TEL. 806 669-6821
☐ P. O. BOX 3246 TEL. 806 797-4325

PAMPA, TEXAS 79066-2439
LUBBOCK, TEXAS 79452-3246

SAMPLE DATA

CUSTOMER..... J. M. HUBER CORPORATION

STATION No.... --
OPERATOR..... J. M. HUBER CORPORATION
LEASE..... E SMITH 19-2,3,5
PLANT..... --
SAMPLE OF..... --
PRESSURE..... 33#
TEMPERATURE... --
ATM. TEMP..... --
SAMPLE DATE... 7-13-89
TESTER..... --
SAMPLED BY.... HUBER
ANALYSIS DATE. 7-17-89

SAMPLE CYL.No. PL-1775

DISTRIBUTION:

J. M. HUBER CORPORATION

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

1-P. O. Box 888, SPEARMAN, TX 79108
MR. JERRY TROUT

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

REMARKS:

ANALYSIS RESULTS

COMPONENT		MOL %	GPM, *
NITROGEN	N2	4.11	
CARBON D.	CO2	0.52	
METHANE	C1	48.83	
ETHANE	C2	19.37	5.196
PROPANE	C3	18.54	5.180
I-BUTANE	IC4	2.32	0.781
N-BUTANE	NC4	4.32	1.406
I-PENTANE	IC5	0.76	0.292
N-PENTANE	NC5	0.87	0.333
HEXANES+	C6+	0.36	0.162

GASOLINE CONTENT (GPM), *

PENTANES & HEAVIER....	0.787
BUTANES & HEAVIER.....	2.974
PROPANE & HEAVIER.....	8.154
ETHANE & HEAVIER.....	13.350
26 # GASOLINE.....	1.115

HEATING VALUE,** (GROSS BTU/CF)

WATER VAP.SAT.....	1597
DRY GAS BASIS.....	1625

SPECIFIC GRAVITY

CALC., WATER SAT.....	0.997
CALC., DRY BASIS.....	1.003

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

HIGH PLAINS

WIRELINE SERVICES, INC.

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

SUBSURFACE PRESSURE SURVEY (Flowing Gradient)

Company J.M. Huber Corporation Test Date November 19, 1986
Lease E SMITH 19-5 Well No. Field
Section 19 Block 31 Survey 40W County Morton State Kansas
Producing Formation Measurements Are From KB @ 10'

Elevation
Shut-In Time FLOWING
Beginning
Shut-In Tubing Pressure 224#
Shut-In Casing Pressure --
Tubing Size 2 3/8" Set at 5040'
Packer Set at 4969
Perforations 5030' - 5040'
Top of Oil None Approx.
Top of Water None Approx.
Temperature at 5035 ft 133 F.
Date of Last Test
Shut-In Time, Last Test
Pressure at Datum, Last Test

Depth	Time	Pressure	Δ P	Δ D	Gradient
0'	8:25 A	226.8	---	---	---
1500'	8:33	314.4	87.6	1500	.058
3000'	8:38	392.2	77.8	1500	.052
4500'	8:43	464.4	72.2	1500	.048
4635'	8:47	470.6	6.2	135	.046
4835'	8:51	481.0	10.4	200	.052
5035'	8:57	491.4	10.4	200	.052
5035'	9:55	493.5	2.1		

INSTRUMENT DATA

Element RPG-3
No. 57102 Range 0-2000 psi
Clock Amerada
No. A-21843 Range 3 Hrs.
Calibration Date September 1, 1986

Remarks:

Check T.D. at Not Requested

Operator Danny Fowler



Contractor Damac
 Rig No. 6
 Spot C/SE/SW
 Sec. 19
 Twp. 31S
 Rng. 40W
 Field Kinsler
 County Morton
 State Kansas
 Elevation 10
 Formation Upper Morrow

Top Choke 1/4"
 Bottom Choke 3/4"
 Size Hole 7 7/8"
 Size Rat Hole --
 Size & Wt. D. P. 4 1/2" XH 16.60#
 Size Wt. Pipe --
 I. D. of D. C. 2 1/4"
 Length of D. C. 523.34 ft.
 Total Depth 5700 ft.
 Interval Tested 4964-5029 ft.
 Type of Test Inflate
Straddle

Flow No. 1 -- Min.
 Shut-in No. 1 -- Min.
 Flow No. 2 -- Min.
 Shut-in No. 2 -- Min.
 Flow No. 3 -- Min.
 Shut-in No. 3 -- Min.
 Bottom Hole Temp. --
 Mud Weight 9.0 - 9.2#
 Gravity --
 Viscosity 60-65

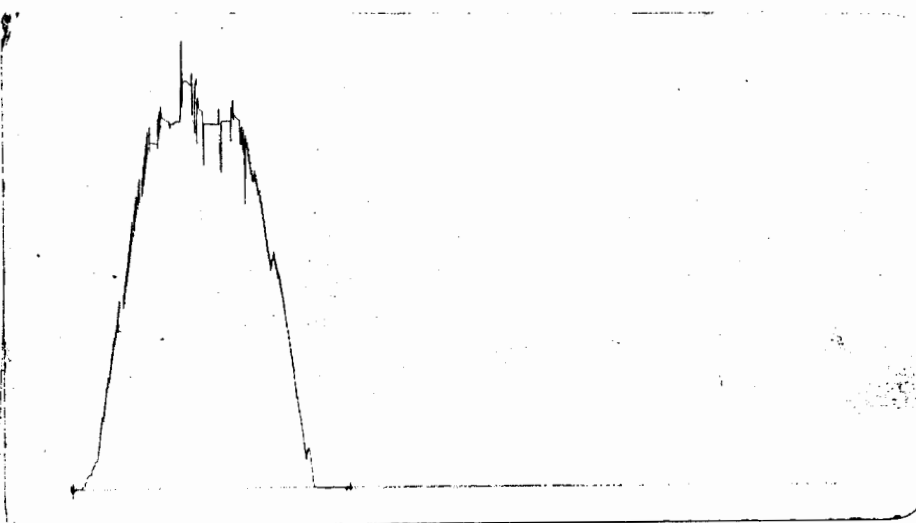
Tool opened @ --

Outside Recorder

PRD Make Kuster K-3
 No. 9491 Cap. 3050 @ 4971'

	Press	Corrected
Initial Hydrostatic	A	--
Final Hydrostatic	K	--
Initial Flow	B	--
Final Initial Flow	C	--
Initial Shut-in	D	--
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist. Oklahoma City OK
 Our Tester Terry Stephens
 Witnessed By Jerry Trout



Did Well Flow - Gas No Oil No Water No

RECOVERY IN PIPE:

60 ft. Drilling mud = .29 Bbls

MISRUN: Unable to maintain a packer seat.

Operator J.M. Huber
 Address 7120 I-40 West
Amarillo, TX 79106

Well Name and No. E. Smith #19-5
 Ticket No. 21525

Date 5-9-85

DST No. 1
 No. Final Copies 5

Contractor Damac
 Rig No. 6
 Spot --
 Sec. 19
 Twp. 31S
 Rng. 40W
 Field --
 County Morton
 State Kansas
 Elevation --
 Formation Upper Morrow

Top Choke $\frac{1}{4}$ "
 Bottom Choke 1"
 Size Hole 7 7/8"
 Size Rat Hole --
 Size & Wt. D. P. 4 1/2" XH 16.60#
 Size Wt. Pipe --
 I. D. of D. C. 2 1/4"
 Length of D. C. 460 ft.
 Total Depth 5700 ft.
 Interval Tested 4967-5031 ft.
 Type of Test Inflate
Straddle

Flow No. 1 -- Min.
 Shut-in No. 1 -- Min.
 Flow No. 2 -- Min.
 Shut-in No. 2 -- Min.
 Flow No. 3 -- Min.
 Shut-in No. 3 -- Min.

Bottom
 Hole Temp. 119°F
 Mud Weight 9.2#
 Gravity --
 Viscosity 63

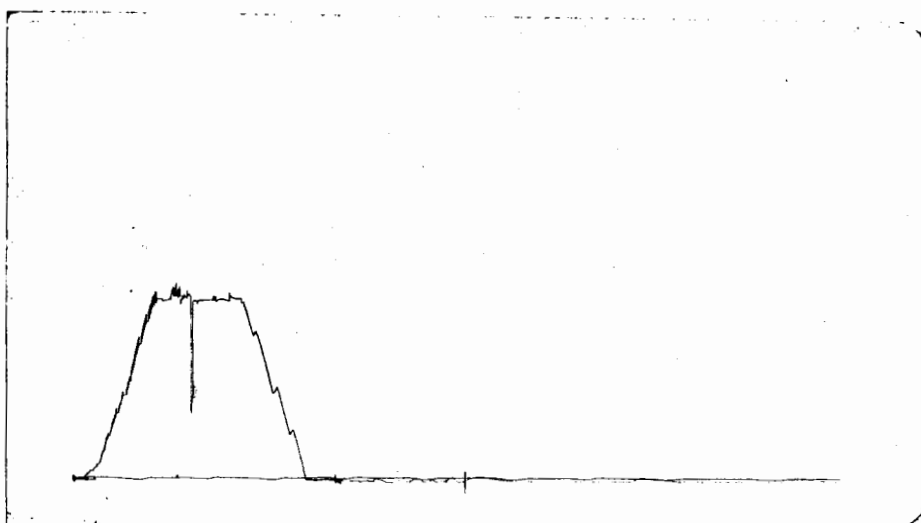
Tool opened @ 2:10 p.m.

Inside Recorder

PRD Make Kuster K-3
 No. 26480 Cap. 6200 @ 4957'

	Press	Corrected
Initial Hydrostatic	A	--
Final Hydrostatic	K	--
Initial Flow	B	--
Final Initial Flow	C	--
Initial Shut-in	D	--
Second Initial Flow	E	--
Second Final Flow	F	--
Second Shut-in	G	--
Third Initial Flow	H	--
Third Final Flow	I	--
Third Shut-in	J	--

Lynes Dist.: Woodward, OK
 Our Tester: Mark Olson
 Witnessed By: Jerry Trout



Did Well Flow - Gas No Oil No Water No
 RECOVERY IN PIPE:

30 ft. Drilling mud = .14 Bbls

MISRUN: Unable to maintain a packer seat.

Operator J.M. Huber Corporation
 P.O. Box 888
 Spearman, TX 79081

Well Name and No. E. SHILL UP 11000
 Ticket No. 05369
 Date 5-9-85

USI No. 1
 No. Final Copies 5

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 July 29, 1986
Lease E. SMITH 19-5 Well No. _____ Field Kinsler
Section 19 Block T31S Survey R40W County Morton State Kansas
Producing Formation Upper Morrow Measurements Are From KB @ 10'

Elevation _____
Shut-In Time 24 Hrs.
Shut-In Tubing Pressure 439#
Shut-In Casing Pressure --
Tubing Size 2 3/8" Set at 5040'
Packer Set at 4969'
Perforations 5030' - 5040'
Top of Oil 4810' Approx.
Top of Water None Approx.
Temperature at 5035 ft 133 F.
Date of Last Test _____
Shut-In Time, Last Test _____
Pressure at Datum, Last Test _____

INSTRUMENT DATA

Element RPG-3
No. 47456 Range 0-1500 psi
Clock Amerada
No. A-14569 Range 3 Hrs.
Calibration Date July 28, 1986

Remarks:

Check T.D. at Not Requested

Operator Danny Fowler

Depth	Time	Pressure	Δ P	Δ D	Gradient
0'	10:40A	441.7	---	---	---
2000'	10:44	467.4	25.8	2000	.013
4000'	10:49	495.5	28.0	2000	.014
4735'	10:52	506.1	10.6	735	.014
4835'	10:54	511.7	5.7	100	.057
4935'	10:56	543.6	31.8	100	.318
5035'	10:58A	575.8	32.2	100	.322



HIGH PLAINS

WIRELINE SERVICES, INC.
Formerly Hysell Wireline Service

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

Company J.M. Huber Corporation

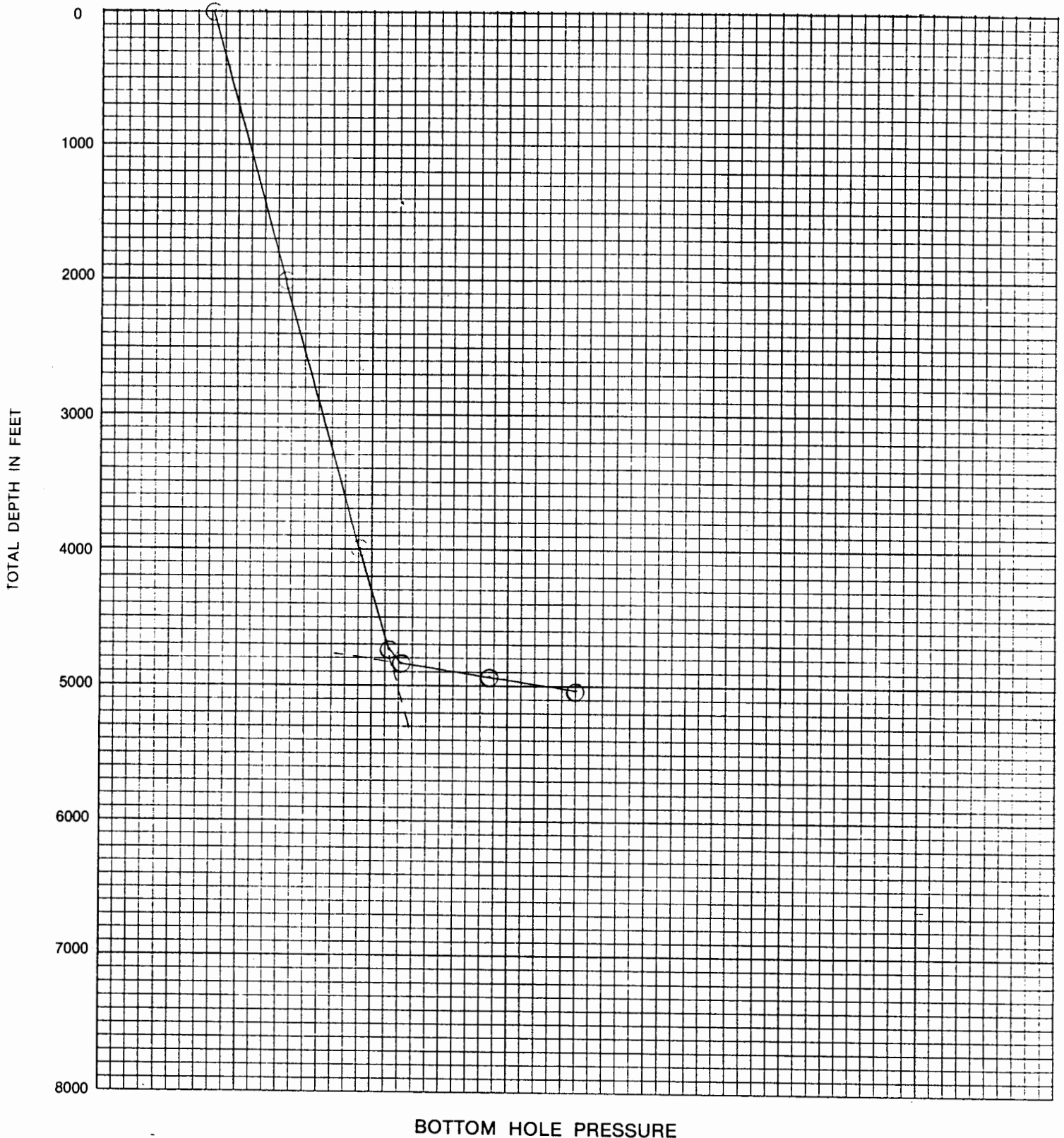
Date Tested July 29, 1986

Lease and Well No. E. SMITH 19-5

County Morton

Type of Test Static Bottom Hole

State Kansas



STATE OF KANSAS - CORPORATION COMMISSION
PRODUCTION TEST & GOR REPORT

Form C-5 Revised

Conservation Division

TYPE TEST: PRODUCTION Annual WATER REDACTION TEST DATE: 7-24-92

Company J. M. Huber Corporation Lease Smith Well No. 19-5

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

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

Completion Date 5-31-85 Type Completion (Describe) Single (Oil) Plug Back T.D. 5106' 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 15.5 I.D. 4.950 Set At 5158' To 5030' 5040'

Tubing Size 2-3/8" Weight 4.7 I.D. 1.995 Set At 5073' To

Pretest: Starting Date 7-23-92 Time 9:30 AM Ending Date 7-24-92 Time 9:30 AM Duration Hrs. 24

Test: Starting Date 7-23-92 Time 9:30 AM Ending Date 7-24-92 Time 9:30 AM Duration Hrs. 24

OIL PRODUCTION OBSERVED DATA

Producing Wellhead Pressure			Separator Pressure			Choke Size		
Casing: <u>25 psi</u>			Tubing:					
Bbls./In.	Tank	Starting Gauge	Ending Gauge			Net Prod. Bbls.		
Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water
								Oil
Pretest:								
Test:								
Test:	<u>480</u>	<u>1143</u>	<u>7</u>	<u>0</u>	<u>140</u>	<u>7</u>	<u>8</u>	<u>152.8</u>
								<u>0</u>
								<u>12.8</u>

GAS PRODUCTION OBSERVED DATA

Orifice Meter Connections			Orifice Meter Range		
Pipe Taps:	Flange Taps:	<u>✓</u>	Differential:	<u>50</u>	Static Pressure: <u>500</u>
Measuring Device	Run-Prover-Tester Size	Orifice Size	Meter-Prover-Tester Pressure	Diff. Press. (hw) or (hd)	Gravity Gas (Gg)
Orifice Meter	<u>4</u>	<u>1.500</u>	<u>17.0</u>	<u>1.620</u>	<u>.827</u>
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>11.12</u>	<u>31.4</u>	<u>7.132</u>	<u>1.100</u>	<u>1.000</u>		

Gas Prod. MCFD 87 Oil Prod. Bbls./Day: 12.8 Gas/Oil Ratio (GOR) = 6797 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 24 day of July 19 92

James R. Hunt For Offset Operator James R. Hunt For State James R. Hunt For Company

Form C-5 (5/88)