

Submit to Appropriate
District Office
State Lease - 6 copies
Fee Lease - 5 copies
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-105
Revised 1-1-89

WELL API NO.
30-025-32933
5. Indicate Type of Lease
STATE ☐ FEE ☒
6. State Oil & Gas Lease No.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER ☐	7. Lease Name or Unit Agreement Name LOTTIE YORK
b. Type of Completion: NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR ☐ OTHER ☐	8. Well No. #3
2. Name of Operator BONNEVILLE FUELS CORPORATION	9. Pool name or Wildcat Humble City Strawn, <i>Southwest</i> <i>See R-10595</i>
3. Address of Operator 1660 Lincoln St Denver, CO 80264	

4. Well Location Unit Letter <u>K</u> : <u>2030</u> Feet From The <u>South</u> Line and <u>2300</u> Feet From The <u>West</u> Line Section <u>14</u> Township <u>17S</u> Range <u>37E</u> NMPM LEA County

10. Date Spudded 5/2/95	11. Date T.D. Reached 6/3/95	12. Date Compl. (Ready to Prod.) 7/19/95	13. Elevations (DF & RKB, RT, GR, etc.) 3734 GR	14. Elev. Casinghead Same
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15. Total Depth 11,840'	16. Plug Back T.D. 11,709'	17. If Multiple Compl. How Many Zones?	18. Intervals Drilled By Rotary Tools All	Cable Tools
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19. Producing Interval(s), of this completion - Top, Bottom, Name 11,470-11,550' Strawn	20. Was Directional Survey Made No
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21. Type Electric and Other Logs Run DLL/MSFL-GR/CAL; FDC/CNL-GR/SP/CAL; BHC Sonic-GR/CAL; CBL	22. Was Well Cored No
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23. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8"	54.5	459'	17 1/2"	475 sx Cl-C	
8 5/8"	32.0	4,610'	11"	1080 sx Lite/Cl-C	
5 1/2"	17.0	11,839'	7 7/8"	1140 sx Cl-H/Lite	
5 1/2"		11,729 CIBP		2sx	

24. LINER RECORD	25. TUBING RECORD
SIZE TOP BOTTOM SACKS CEMENT SCREEN	SIZE DEPTH SET PACKER SET
	2 7/8" 11,633 CIBP @ 11,729'

26. Perforation record (interval, size, and number) 11535-11550 .42" 16 holes 11514-11528 .42" 15 holes 11500-11513 .42" 14 holes 11488-11490 .42" 3 holes; 11470-11480 .42" 18 holes	27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 11470-11535 1500 Gal 7 1/2% HCL/MCA Acid
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28. PRODUCTION

Date First Production 7/18/95	Production Method (Flowing, gas lift, pumping - Size and type pump) SWAB + FLOW	Well Status (Prod. or Shut-in) SI					
Date of Test 7/18/95	Hours Tested 16	Choke Size NA	Prod'n For Test Period	Oil - Bbl. 256	Gas - MCF 116	Water - Bbl. 0	Gas - Oil Ratio 453
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl. 348	Gas - MCF 175	Water - Bbl. 0	Oil Gravity - API - (Corr.)	

29. Disposition of Gas (Sold, used for fuel, vented, etc.) VENTED; Estimate 1st sales 7/28/95	Test Witnessed By R.A. Schwering
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30. List Attachments DST

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief
Signature <i>R.A. Schwering</i> Printed Name R. A. Schwering PE Title Senior Engineer Date 7/21/95

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

T. Anhy	T. Canyon
T. Salt	T. Strawn
B. Salt	T. Atoka
T. Yates	T. Miss
T. 7 Rivers	T. Devonian
T. Queen	T. Silurian
T. Grayburg	T. Montoya
T. San Andres	T. Simpson
T. Glorieta	T. McKee
T. Paddock	T. Ellenburger
T. Blinebry	T. Gr. Wash
T. Tubb	T. Delaware Sand
T. Drinkard	T. Bone Springs
T. Abo	T.
T. Wolfcamp	T.
T. Penn	T.
T. Cisco (Bough C)	T.

Northwestern New Mexico

T. Ojo Alamo _____	T. Penn. "B" _____
T. Kirtland-Fruitland _____	T. Penn. "C" _____
T. Pictured Cliffs _____	T. Penn. "D" _____
T. Cliff House _____	T. Leadville _____
T. Menefee _____	T. Madison _____
T. Point Lookout _____	T. Elbert _____
T. Mancos _____	T. McCracken _____
T. Gallup _____	T. Ignacio Otzte _____
Base Greenhorn _____	T. Granite _____
T. Dakota _____	T. _____
T. Morrison _____	T. _____
T. Todilto _____	T. _____
T. Entrada _____	T. _____
T. Wingate _____	T. _____
T. Chinle _____	T. _____
T. Permain _____	T. _____
T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from 11.37.6 to 11.57.0 No. 3, from to
No. 2, from to No. 4, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness in Feet	Lithology

From	To	Thickness in Feet	Lithology

RECEIVED
JUL 2 8 1964
OCD HOBBS
OFFICE

RECEIVED

JUL 2 5 1964

U C D HUBBARD
OFFICE



Halliburton Energy Services Permian Basin DST Report

General Information

Bonneville Fuels Corporation

Well: Lottie York No. 3

DST No. 2

Date: May 31, 1995

TD: 11,427 ft

Bottom Packer: 11,385 ft

Gross tested footage: 42 ft

Recovery: 10 bbls of highly gas cut and oil cut drilling mud (estimated 10% was oil); gas to surface (max. surface pressure = 550 psig on a 1/4" choke at end of second flow)

Sampler recovery: 1.84 cf of gas; 150 cc's of oil; 50 cc's of mud

Sampler pressure: 300 psig at surface

Chlorides (ppm): pit = 17,156; top of recovery = 16,666; tool top = 16,666

Pressure Data

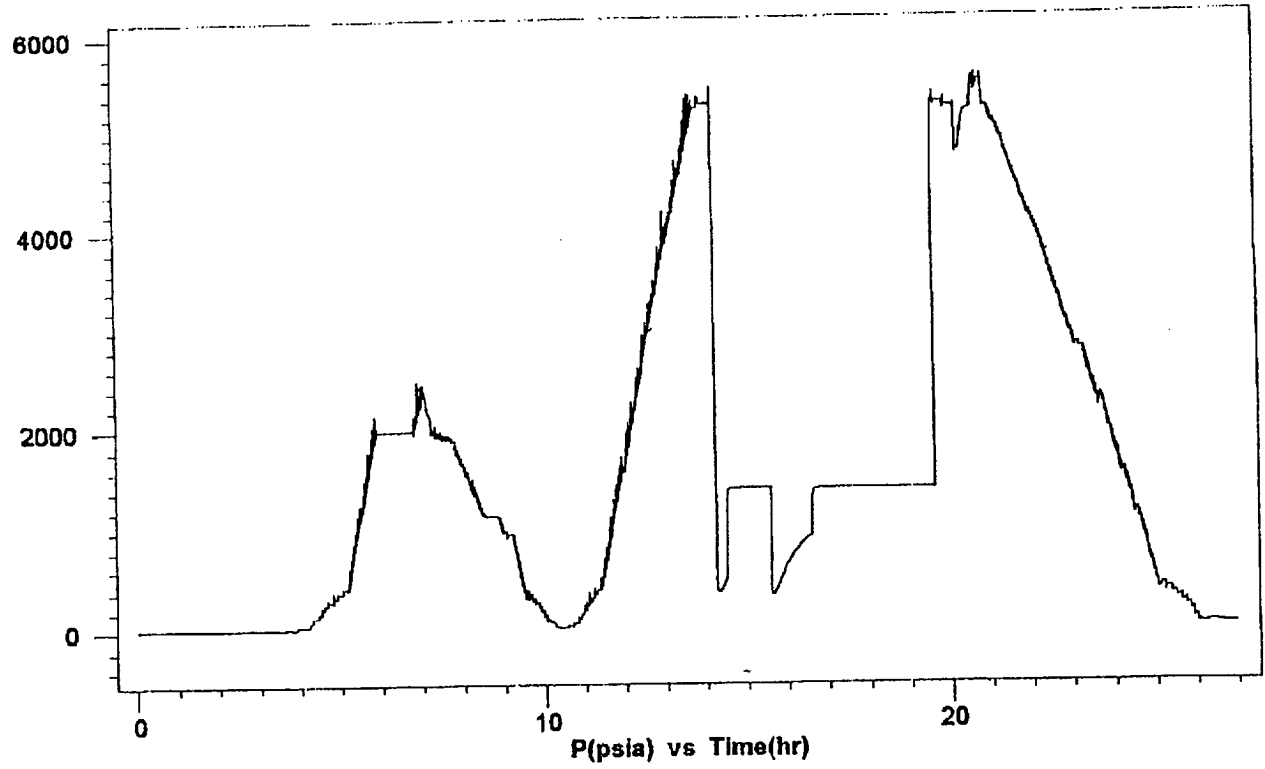
Initial Hydrostatic:	5295.2	
Initial First Flow:	475.9	
Final First Flow:	505.3	Duration of First Flow: 14.0 mins.
Final First CIP:	1394.4	Duration of First CIP: 66.1 mins.
Initial Second Flow:	453.2	
Final Second Flow:	934.2	Duration of Second Flow: 60.1 mins.
Final Second CIP:	1394.7	Duration of Second CIP: 180.3 mins.
Final Hydrostatic:	5285.9	

Pressure readings from gauge 30005 located @ 11,362 ft; readings are psia; T = 166 F

Comments

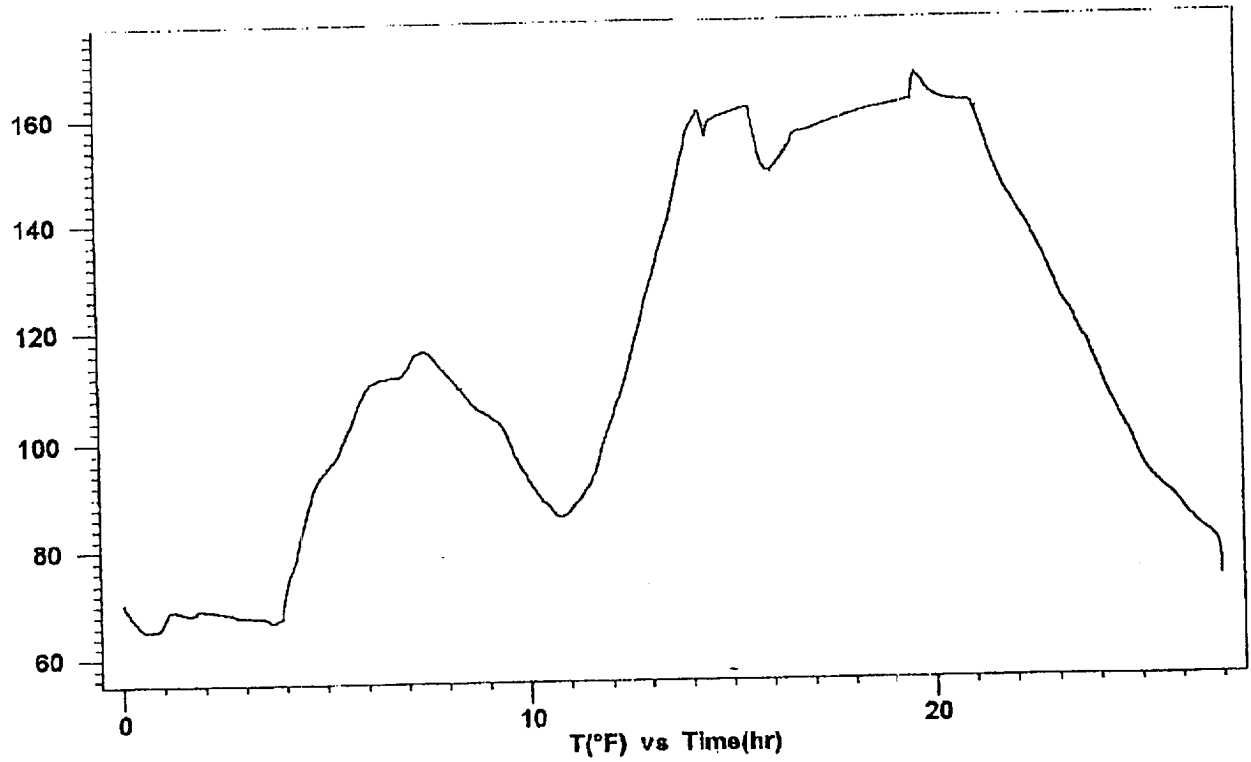
The test was mechanically successful. The test was analyzed effective to gas production with the rates for each flow period determined using a choke nipple calculation and the final reported surface conditions (i.e. surface flowing pressure and choke size) prior to shut-in. The surface flowing pressures were not essentially stabilized (climbing throughout flow periods) so results may be slightly affected. Qualitatively, the test indicates good permeability with positive wellbore skin damage. Semilog analysis of the final closed-in period yielded the following results: $k = 8.0$ md (for $h = 42$ ft); $skin = +33$; $p^* = 1396.3$ psia. The extrapolated pressure (p^*) is significantly below a normal pressure gradient for the depth, which may be the result of offset production in the vicinity. The mud hydrostatic was significantly above reservoir pressure. Please call Jeff Knight at (915) 682-4305 if you have any questions. Thank you for choosing Halliburton.

Halliburton	Pressure	YORK32
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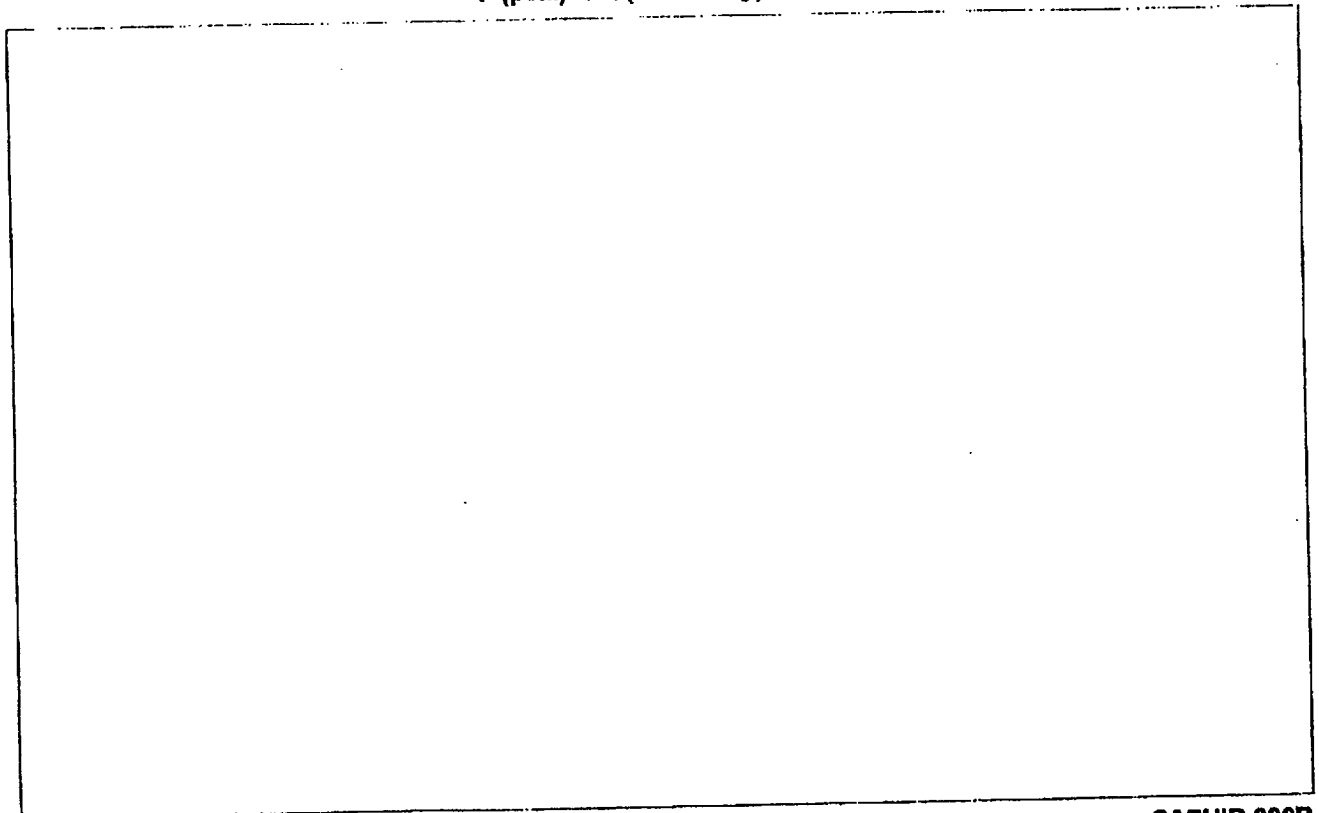
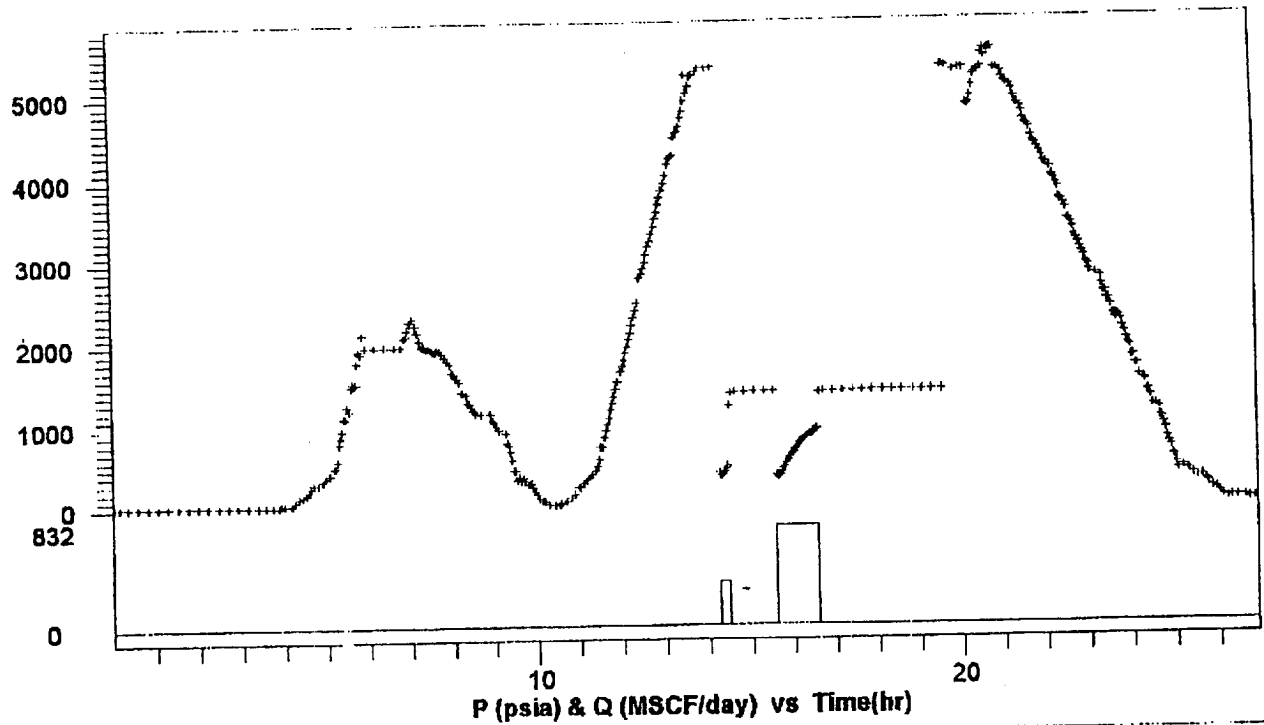
QR2 pressure response (depth = 11,362 ft KB)

Halliburton	Temperature	TEMP
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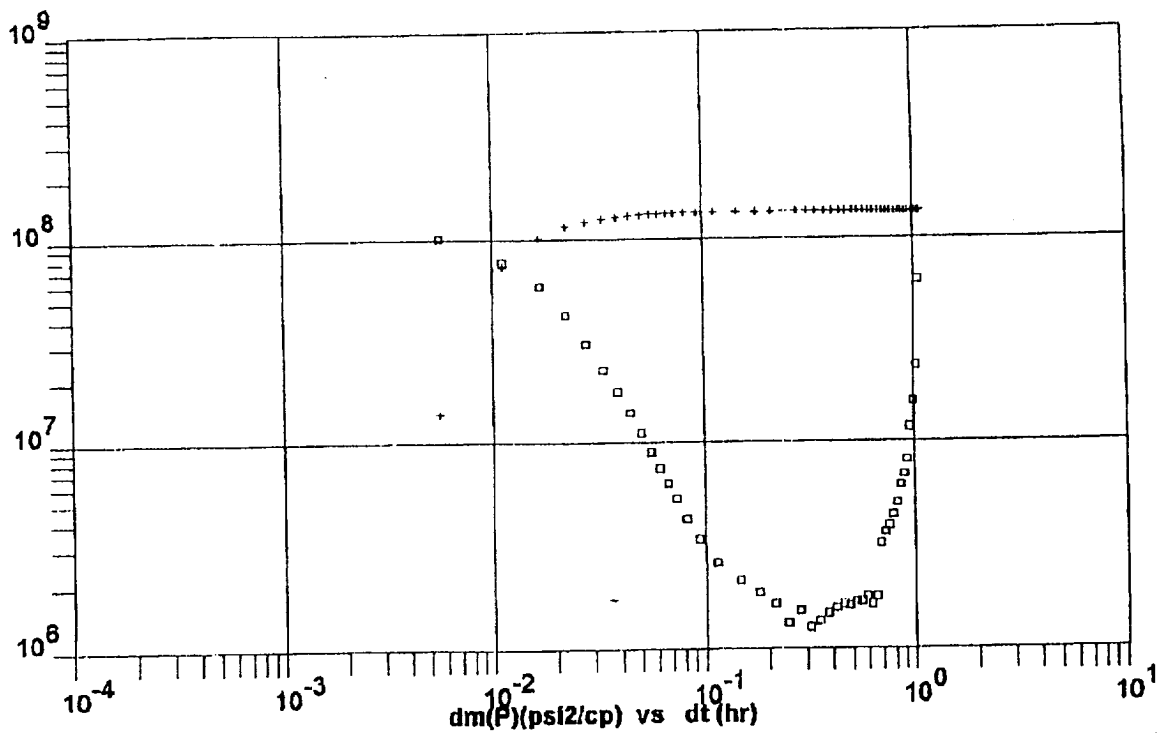


QR2 temperature response (depth = 11,362 ft KB)

Halliburton	History		YORK32
Company	BONNEVILLE FUELS		Test DST NO. 2
Field			Date MAY 31, 1995
Well	LOTTIE YORK NO. 3		Gauge QR2 S/N 30005

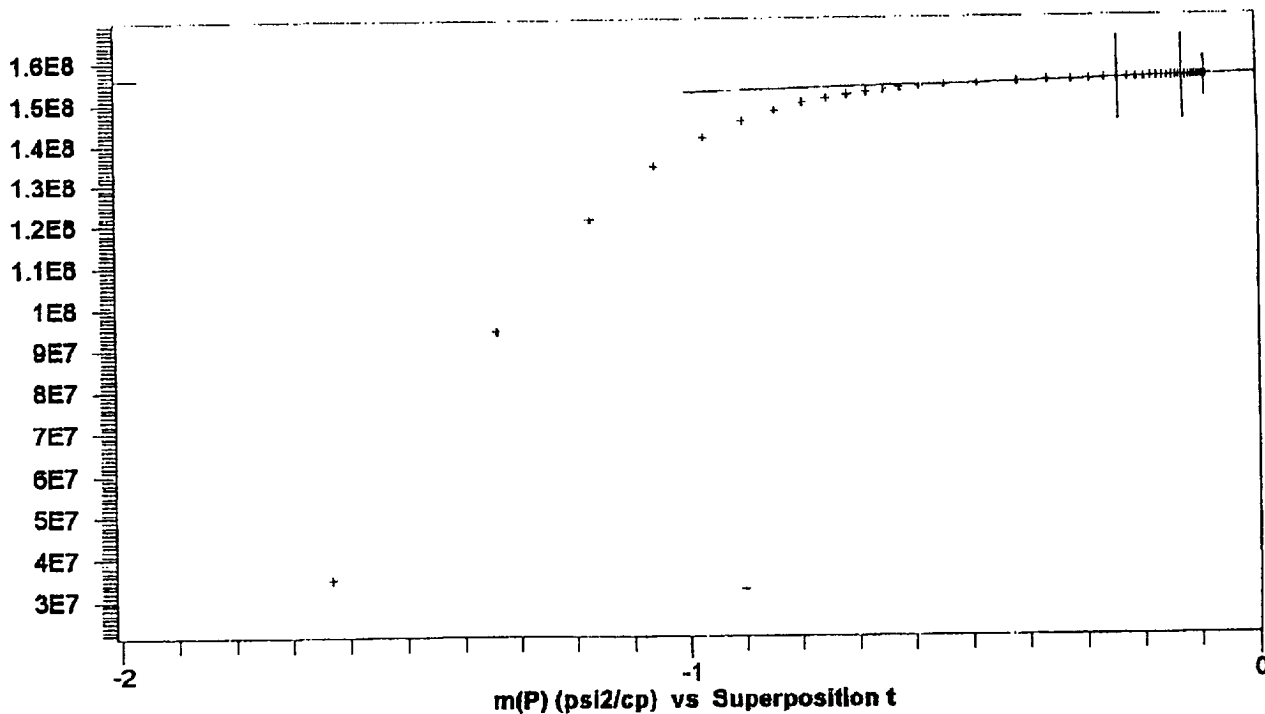


Halliburton	Log-Log	YORK32
Company	BONNEVILLE FUELS	Test DST NO. 2
Field		Date MAY 31, 1995
Well	LOTTIE YORK NO. 3	Gauge QR2 S/N 30005



Flow Period # 3
 Rate 0 MSCF/day
 Rate Change 380 MSCF/day
 P @ dt=0 505.34 psia
 PI 1395.9 psia
 Smoothing 0.1

Halliburton	Semi-Log	YORK32
Company	BONNEVILLE FUELS	Test DST NO. 2
Field		Date MAY 31, 1995
Well	LOTTIE YORK NO. 3	Gauge QR2 S/N 30005



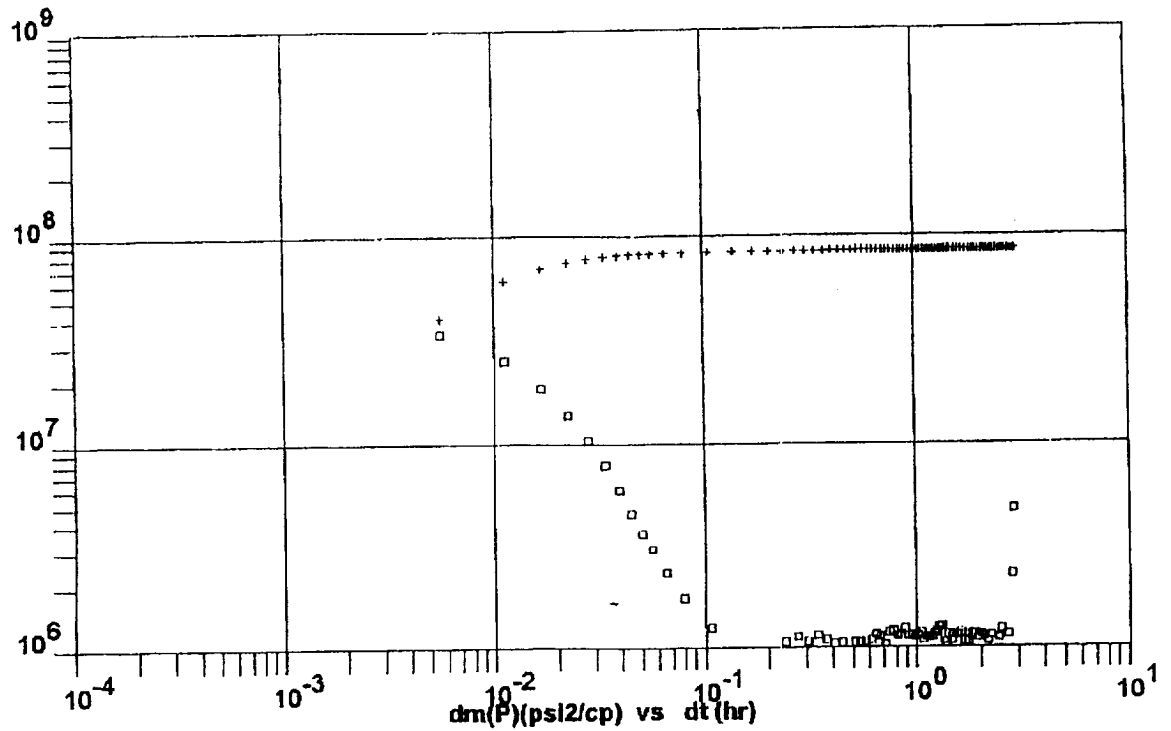
Flow Period # 3
Rate 0 MSCF/day
Rate Change 380 MSCF/day
P @ dt=0 505.34 psia
PI 1395.9 psia

STRAIGHT LINE

From 0.31139 hr
To 0.67806 hr
Slope 3.5831E8 psi2/cp
Intercept 1.5562E8 psi2/cp
value @ dt=1hr 1.5529E8 psi2/cp

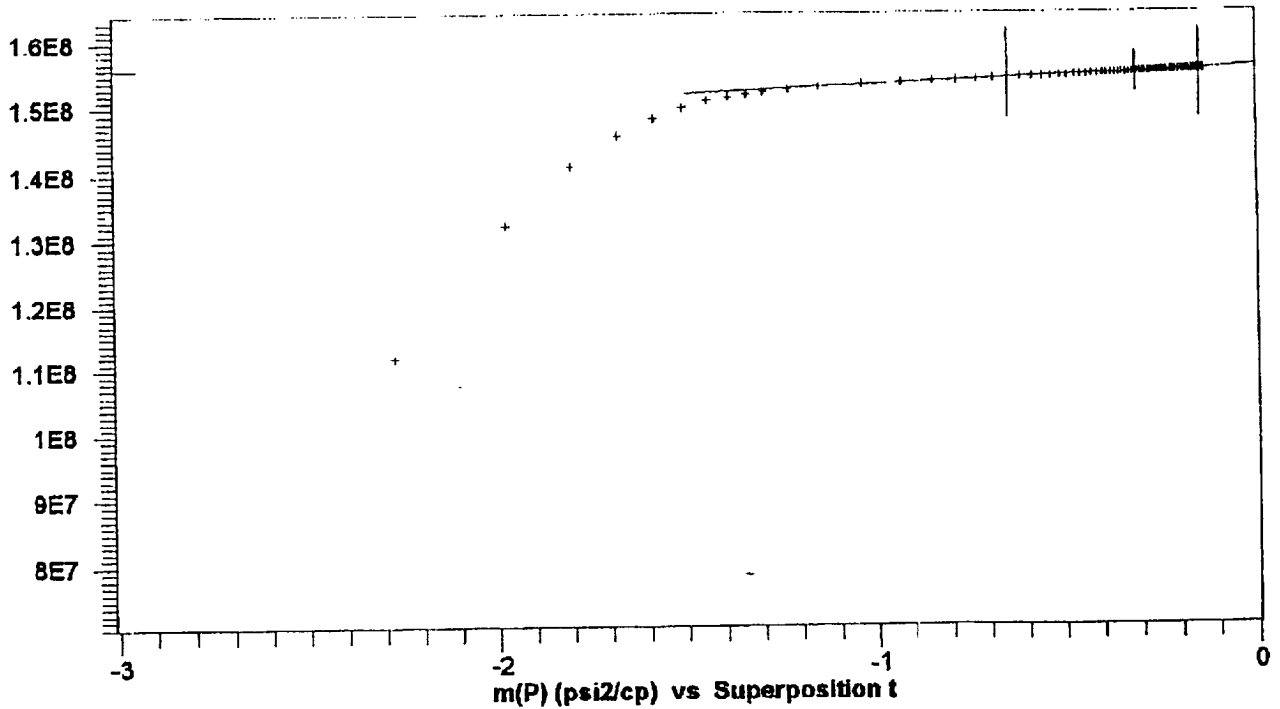
-> m* 1.5562E8 psi2/cp
-> p* 1395.9 psia
-> PMatch 3.2123E-7 (psi2/cp)-1
-> k.h 108.68 md.ft
-> k 2.5876 md
-> Skin 38.385

Halliburton	Log-Log	YORK32
Company	BONNEVILLE FUELS	Test DST NO. 2
Field		Date MAY 31, 1995
Well	LOTTIE YORK NO. 3	Gauge QR2 S/N 30005



Flow Period # 5
Rate 0 MSCF/day
Rate Change 832 MSCF/day
P @ dt=0 934.16 psia
Pi 1396.3 psia
Smoothing 0.15

Halliburton	Semi-Log		YORK32	
Company	BONNEVILLE FUELS		Test	DST NO. 2
Field			Date	MAY 31, 1995
Well	LOTTIE YORK NO. 3		Gauge	QR2 S/N 30005



Flow Period # 5
 Rate 0 MSCF/day
 Rate Change 832 MSCF/day
 P @ dt=0 934.16 psia
 Pi 1396.3 psia

STRAIGHT LINE

From 0.30556 hr
 To 2.8722 hr
 Slope 2.5385E6 psi²/cp
 Intercept 1.5571E8 psi²/cp
 value @ dt=1hr 1.5491E8 psi²/cp

-> m* 1.5571E8 psi²/cp
 -> p* 1396.3 psia
 -> PMatch 4.5377E-7 (psi²/cp)⁻¹
 -> k.h 336.12 md.ft
 -> k 8.0028 md
 -> S_{kin} 32.795

Halliburton	Main Results		YORK32
Company	BONNEVILLE FUELS	Formation interval	STRAWN
Field		Perforated interval	11,385' - 11,427'
Well	LOTTIE YORK NO. 3	COUNTY:	LEA
Test	DST NO. 2	STATE:	NEW MEXICO
Date	MAY 31, 1995	SERVICE CENTER:	HOBBS
Gauge	QR2 S/N 30005	DRLNG CONTR:	PETERSON
Depth	11,382'	WITNESS:	B. SCHWERING

Test type	Standard	FLUID TYPE:	Gas
Porosity Phi (%)	10	Gas Gravity	0.6
Well Radius rw	0.328 ft	Temperature T	166 °F
Pay Zone h	42 ft	Pseudo-Critical P	676.9 psia
		Pseudo-Critical T	352.26 °R
		Gas properties	at pi
		Compressibility	0.00076353 psi-1
		Viscosity	0.01421 cp

Flow Period # 5
 Rate 0 MSCF/day
 Rate Change 832 MSCF/day
 P @ dt=0 934.16 psia
 PI 1396.3 psia
 Smoothing 0.15

Date	Time	FP #	Rate MSCF/day	Duration hr
31/05/95	13:36:12	1	0.00	14.2367
	13:50:12	2	380.000	0.23333
	14:56:16	3	0.00	1.10138
	15:58:21	4	832.000	1.00112
	18:58:41	5	0.00	3.00556
01/06/95	02:12:59	6	0.10000	7.27192