Form 9-330
(Rev. 5-63)

N.M.O.C.D. COPY
"AMENDED"

SUBMIT IN DUPL. E*
(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☐ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☒ Other Commingled

R-6509

2. NAME OF OPERATOR: Texas Oil & Gas Corp.

3. ADDRESS OF OPERATOR: 900 Wilco Building, Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1650' FNL and 1980' FEL
At top prod. interval reported below
At total depth

OCT 27 1980

14. PERMIT NO.
DATE ISSUED 5-15-80

5. LEASE DESIGNATION AND SERIAL NO.: NM 0366497
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT AGREEMENT NAME:
8. FARM OR LEASE NAME: Superior Federal
9. WELL NO.: 1
10. FIELD AND POOL, OR WILDCAT: East Burton Flat (Atoka & Morrow)
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 8 T-20-S, R-29-E
12. COUNTY OR PARISH: Eddy
13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
N/A	N/A	6-9-80	3293 KB	3279GL

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
11,700'	11,500'	commingled 2zones	→		

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Atoka 11,091 - 11,097
Morrow 11,141 - 11,147

25. WAS DIRECTIONAL SURVEY MADE: N/A

26. TYPE ELECTRIC AND OTHER LOGS RUN: CN/FD, DLL, MLL

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	458	17½	410 sxs	none
8-5/8	24 & 32	3199	12¼	2000 sxs	none
4-1/2	11.5 & 13.6	11,700	7-7/8	First stage - 850 sxs	none
		DV TOOL	& 8495	Second stage - 800 sxs	none

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8		

31. PERFORATION RECORD (Interval, size and number)
11,091 - 97, 2-3/8" JSPF
11,141 - 47, 2-3/8" JSPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
11,091-147	1500 gal 7½% MS acid
11,091-147	1500 gal 7½% MS acid

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
6-7-80	Flowing	Producing

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
6-16-80	4	3 x .750	→	0	54	0	--

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
2630	pkr.	→	0	460		--

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): Sold
TEST WITNESSED BY

ACCEPTED FOR RECORD
NOV 5 1980
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED Tom Myers TITLE Production Engineer DATE 10-24-80

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "*Sacks Cement*": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Wolfcamp	10,107	10,177	DST #1 60"test. GTS 10", 350 MCFD. Rec 330; cond. 48 grav. @ 58°, 120' HMC cond. 60" ISIP 4969, IFP 170, 60: FFP 189 60" FSIP 4399
Morrow	11,190	11,342	DST #2 60" test, 1200; WB.GTS 40" TSTM Rec 1200; WB + 360' DM 90" ISIP 3752, IFP 662, 60" FFP 681, 90" FSIP 4722.
Morrow	11,348	11,490	DST #3 60" test, 1200' WB. Rev out due to backside kicking. No rec. 60" ISIP 1439, IFP 643, 60" FFP, 90" FSIP 1382
Morrow	11,610	11,700	DST #4 60" test, 1200' WB. GTS 15", 1.6 MMCF Rec 1200" WB, 270" WBCOM. 90" ISIP 4816, IFP 710, FFP 1075, FSIP 4816
Morrow	11,550	11,610	DST #5 90" test, 1200' WB, BTS 30" 30 MCF. Rec. 10,000' Fm Wtr, 1200' WB. 60" ISIP 4703, IFP 3486, 90" FFP 4646, 60" FSI 4703
Morrow	11,490	11,550	DST #6 Pkr failure

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Wolfcamp	9274	9258
Strawn	10,340	10,323
Atoka	10,668	10,651
Morrow Sd.	11,180	11,167
Morrow Sh.	11,518	11,499
Upper Miss.	11,636	11,623

★ U.S. GOVERNMENT PRINTING OFFICE: 1974-780-680/VIII-238

NEW MEXICO OIL CONSERVATION COMMSSION

Form C-122
Revised 9-1-65

MULTIPO T AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

122 File

RECEIVED

NOV 12 1980

O. C. C.

ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 6-16-80		
Company: TEXAS OIL & GAS Corp			Connection: DELHI PIPELINE CORPORATION			Unit: G
Pool: [illegible]			Formation: ATOKA - Morrow			
Completion Date: 5-3-80	Total Depth: 11,700		Plug Back TD: 11,500	Elevation: 3279 GR		Farm or Lease Name: SUPERIOR FEDERAL COM
Csg. Size: 4 1/2	Wt.	d	Set At: 11,700	Perforations: From 11,091 To 11,147		Well No.: 1
Tbg. Size: 2 3/8	Wt.	d	Set At: 11,018	Perforations: From OPEN To END		Unit: G Sec.: 8 Twp.: 20S Rge.: 29E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE				Packer Set At: 11,018		County: EDDY
Producing Thru: TUBING	Reservoir Temp. °F: 185° @ 11,120		Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2		State: NEW MEXICO
L: 11,120	H: 11,120	Gg: .602	% CO_2: .748	% N_2: 1.286	% H_2S:	Prover: / Meter Run: 3" / Taps: FLANGE

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					3850				
1.	3 X .750	200	15	96	3650	100			45 MIN.
2.	3 X .750	200	34	88	3450	101			60 MIN.
3.	3 X .750	200	63	78	3002	102			60 MIN.
4.	3 X .750	200	64	69	2630	103			60 MIN.
5.									

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	2.672	56.55	213.2	.9671	1.289	1.015	191
2	2.672	85.14	213.2	.9741	1.289	1.016	290
3.	2.672	115.89	213.2	.9831	1.289	1.017	399
4.	2.672	132.22	213.2	.9915	1.289	1.018	460
5.							

NO.	P_r	Temp. °R	T_r	Z
1	.32	556	1.55	.971
2.	.32	548	1.53	.969
3.	.32	538	1.20	.967
4.	.32	529	1.48	.965
5				

Gas Liquid Hydrocarbon Ratio DRY Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons ____ Deg.
Specific Gravity Separator Gas .602 | X X X X X X X X X X
Specific Gravity Flowing Fluid X X X X X
Critical Pressure 671 P.S.I.A. ____ P.S.I.A.
Critical Temperature 358 R ____ R

* P_c 4120.1 P_c^2 16,975.2

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		*3922.7	15387.6	1587.6
2		*3711.9	13778.2	3197.0
3		*3282.4	10774.1	6201.1
4		*2815.8	7928.7	9046.5
5				

(1) $\dfrac{P_c^2}{P_c^2 - P_w^2} = 2.737$ (2) $\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.709$

$\left[\dfrac{P_c^2}{P_c^2 - P_w^2}\right]^n = .682$

Absolute Open Flow 682 Mcfd @ 15.025 | Angle of Slope θ 62 | Slope, n .532

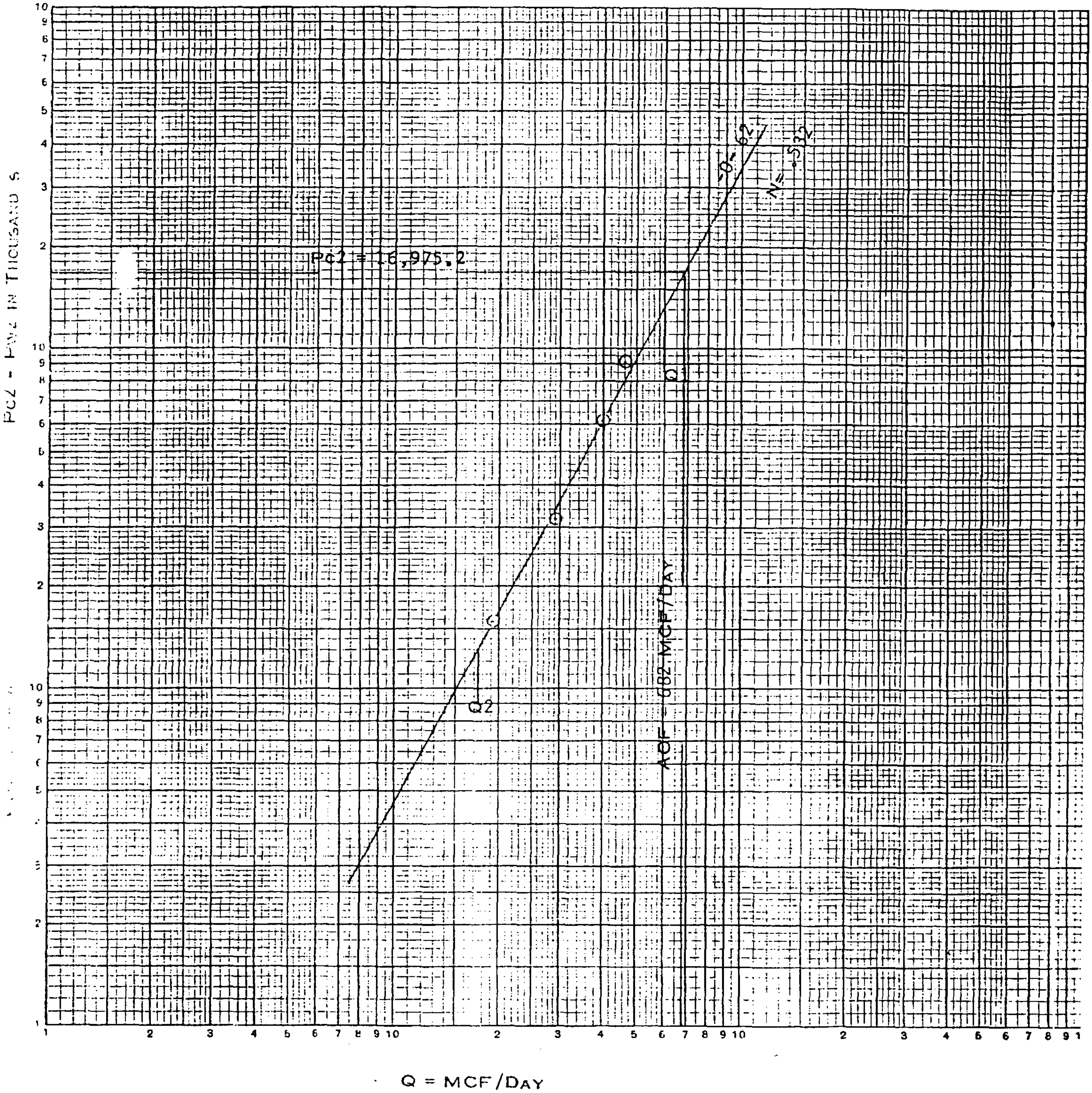
Remarks: *CALCULATED FROM KNOWN BOTTOM HOLE PRESSURES

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	M.B.	R.R.	J.W.W.

TEXAS OIL & GAS COMPANY

ABS (N) = Q1 = 600 = 2.778151
Q2 = 176 = 2.246151
N = .532000

$$CAOF = 399 \left(\frac{16975.2}{6201.1}\right)^{.532} = 682 \text{ MCF/DAY}$$



WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (~~P_c~~ or P_w)

FROM KNOWN BOTTOM HOLE PRESSURE (~~P_f~~ or P_s)

Form C-122F
Adopted 9-1-65

NY Texas oil And Gas LEASE Superior Fed WELL NO. 1 DATE ______

ION: Unit ______ Section ______ Township ______ Range ______

120 H 11,120 L/H 1.00 G .602 % CO_2 ______ % N_2 ______ % H_2S ______

GH 6694 P_{cr} 671 (TABLE IX & X) T_{cr} 358 (TABLE IX & X)

	1	2	3	4	5	6	7	8
T_w(W.H. °R)	534	534	530	530	530	[illegible]	[illegible]	[illegible]
T_s(B.H. °R)	645	645	645	645	645	645	645	645
T($\frac{T_w + T_s}{2}$)	590	590	590	590	590	590	590	590
Z (Est.)	.966	.924	.940	.906	.904	.872	.863	.839
TZ	569.5	544.7	556.5	534.1	532.9	514.0	[illegible]	494.6
GH/TZ	11.76	12.29	12.03	12.53	12.56	13.022	13.16	13.53
e^s (Table XIV)	1.55	1.59	1.57	1.60	1.60	1.63	1.64	1.66
P_f or P_s	4939.2	4939.2	4695.2	4695.2	4190.2	4190.2	3629.2	3629.2
P_f^2 or P_s^2	24395.7	24395.7	22044.9	22044.9	17557.8	17557.8	13171.1	13171.1
$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	15698.9	15387.5	14041.2	13778.0	10962.2	10774.3	8041.4	7928.7
P_c or P_w	3962.2	3922.7	3742.2	3711.9	3310.9	3282.4	2835.7	2815.8
$P \cdot (\frac{P_w + P_s}{2})$ or $(\frac{P_c + P_f}{2})$	4450.7	4430.9	4221.2	4203.5	3750.6	3736.3	3232.5	3222.5
$P_r = (P/P_{cr})$	6.63	6.60	6.29	6.26	5.59	5.57	4.82	4.80
$T_r = (T/T_{cr})$	1.65	1.65	1.65	1.65	1.65	1.65	1.65	1.65

Form C-122F
Adopted 5-1-65

WORK SHEET FOR CALCULATION OF WELLHEAD PRESSURES (P_c or ~~P_w~~)
FROM KNOWN BOTTOM HOLE PRESSURE (P_f or ~~P_s~~)

ANY Texas oil + GAS LEASE Superior Fed WELL NO. 1 DATE

TION: Unit Section Township Range

120 H 11,120 L/H 1.00 G .602 % CO_2 % N_2 % H_2S

GH 6694 P_{cr} 671 (TABLE IX & X) T_{cr} 358 (TABLE IX & X)

	1	2	3	4	5	6	7	8
T_w(W.H. °R)	534	534						
T_s(B.H. °R)	645	645						
$T=(\frac{T_w+T_s}{2})$	590	590						
Z (Est.)	.984	.941						
TZ	580.1	554.7						
GH/TZ	11.54	12.067						
e^s(Table XIV)	1.54	1.57						
or P_s	5166.2	5166.2						
P_f^2 or P_s^2	26689.6	26689.6						
$P_c^2 = P_f^2/e^s$ or $P_w^2 = P_s^2/e^s$	17314.1	16975.1						
P_c or ~~P_w~~	4161.0	4120.1						
$P \cdot (\frac{P_w+P_s}{2})$ or $(\frac{P_c+P_f}{2})$	4663.6	4643.1						
$P_r = (P/P_{cr})$	6.95	6.92						
$T_r = (T/T_{cr})$	1.65	1.65						

NEW-TEX LAB
P. O. BOX 1161
HOBBS, N.M. 88240

No. [illegible]
Run No.
Date of Run [illegible]
Date Secured [illegible]

CERTIFICATE OF ANALYSIS

...mple of
...red from
Secured by
Time Date
...mpling conditions Press
Temp

FRACTIONAL ANALYSIS

Percentage Composition

	MOL %	LIQ. %	G.P.M.
......			
......			
......			
...bon Dioxide	.748		
...ogen	1.286		
...ygen			
...rogen sulfide			
...rogen			
...hane	92.414		
...ane	4.363		1.164
...pane	.770		.211
...anes			
Butane	.163		.053
...utane	.151		.047
...anes			
Pentane	.033		.012
Pentane	.013		.005
...anes Plus	.059		.024
...anes			
...anes			
...TAL	100.000		1.516

Calc. Sp. Gr. — 0.6020
Calc. A.P.I. —
Calc. Vapor Press. — PSIA
Sp. Gr.
Mol. Wt. 17.43

LIQUID CONTENT (GAL./MCF)

Propane Calc. G.P.M.	.211
Butanes Calc. G.P.M.	.100
Pentanes Plus G.P.M.	.041
Ethane Calc. G.P.M.	1.164
___ RVP Gasoline G.P.M.	

B.T.U./Cu. Ft. @ 14.696 P.S.I.A.

Dry Basis	1045
Wet Basis	1027

Sulfur Analysis by Titration
Gr./100 Cu. Ft.

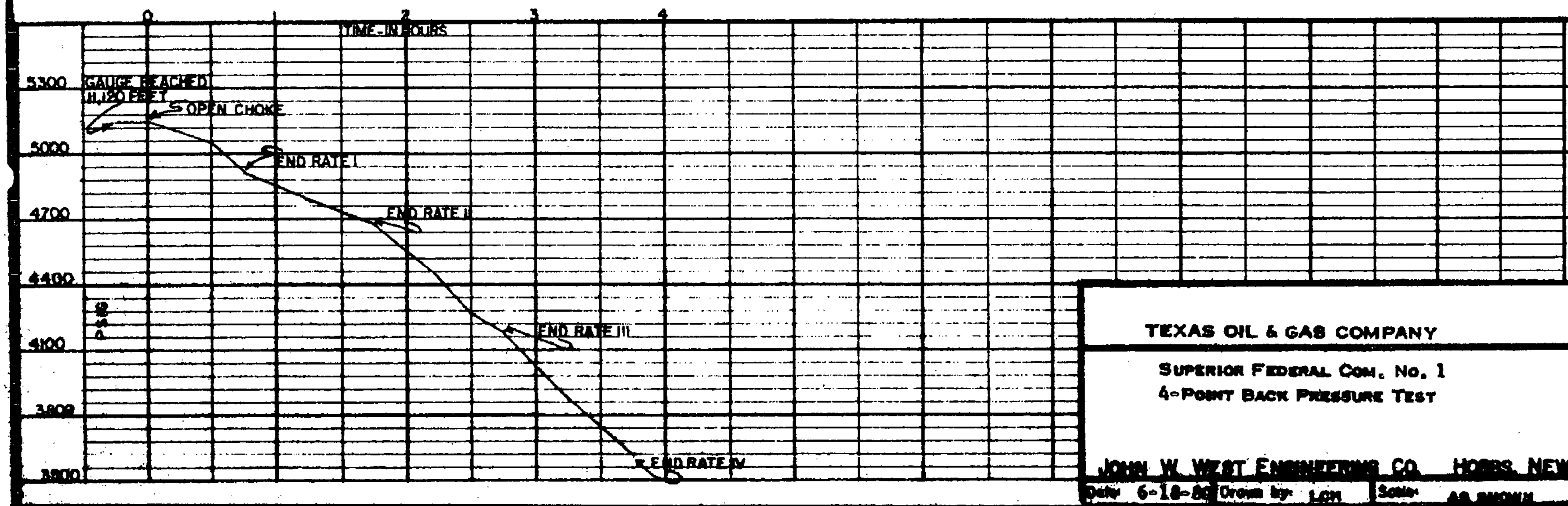
Hydrogen Sulfide	
Mercaptans	
Sulfides	
Residual Sulfur	
Total Sulfur	

... by Checked by Approved by

Additional Data and Remarks

Test Date:	June 16, 1980
Test Depth:	11,120 Feet
Element No.:	7542-N
Range:	0 - 6950 psi
Clock No.:	4052
Range:	82 Hours

NOTE: See following page for tabulation of times and pressures.



TEXAS OIL & GAS COMPANY

Superior Federal Com. No. 1
4-Point Back Pressure Test

JOHN W. WEST ENGINEERING CO. HOBBS, NEW MEXICO

Date: 6-18-80	Drawn by: LGM	Scale: AS SHOWN

Texas Oil & Gas Company
Superior Federal Com. No. 1
4-Point Back Pressure Test
Tabulation of Times and Pressures

Test Conducted By:
John West Engineering Company

Test Date:	June 16, 1980
Test Depth:	11,120 Feet
Element No.:	7542-N
Operator:	M.B.

DATE	TIME	CUM. HRS. / MIN.		PSIG @ 11,120 FEET	
6-16-80	11:00 AM			5153	Gauge reached 11,120"
	11:15 AM	00 Hrs.	00 Min.	5153	Open choke; Begin 4-Poin
	11:30 AM	00	15	5110	
	11:45 AM	00	30	5057	
	12:00 Noon	00	45	4926	End Rate I
6-16-80	12:15 PM	01	00	4855	
	12:30 PM	01	15	4781	
	12:45 PM	01	30	4732	
	1:00 PM	01	45	4682	End Rate II
6-16-80	1:15 PM	02	00	4555	
	1:30 PM	02	15	4424	
	1:45 PM	02	30	4276	
	2:00 PM	02	45	4177	End Rate III
6-16-80	2:15 PM	03	00	4007	
	2:30 PM	03	15	3870	
	2:45 PM	03	30	3743	
	3:00 PM	03	45	3616	End Rate Iv; End 4-Foint Gauge Out; End Test

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

RECEIVED

NOV 12 1980

O. C. D.
ARTESIA, OFFICE

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 7045
Order No. R-6509

APPLICATION OF TEXAS OIL & GAS CORP.
FOR DOWNHOLE COMMINGLING, EDDY
COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on October 29, 1980, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 6th day of November, 1980, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Texas Oil & Gas Corp., is the owner and operator of the Superior Federal Com. Well No. 1, located in Unit G of Section 8, Township 20 South, Range 29 East, NMPM, Eddy County, New Mexico.

(3) That the applicant seeks authority to commingle Atoka and Upper Morrow production within the wellbore of the above-described well.

(4) That said well was originally completed in the Lower Morrow formation only, but that zone was depleted, and the well was recompleted in the Atoka and Upper Morrow formations as a salvage operation.

(5) That from the Atoka zone, the subject well is capable of low marginal production only.

(6) That from the Upper Morrow zone, the subject well is capable of low marginal production only.

(7) That the proposed commingling may result in the recovery of additional hydrocarbons from each of the subject pools, thereby preventing waste, and will not violate correlative rights.

(8) That in order to allocate the commingled production to each of the commingled zones in the subject well, 50 percent of the commingled production should be allocated to the Atoka zone, and 50 percent to the Upper Morrow zone.

IT IS THEREFORE ORDERED:

(1) That the applicant, Texas Oil & Gas Corp., is hereby authorized to commingle Atoka and Upper Morrow production within the wellbore of the Superior Federal Com. Well No. 1, located in Unit G of Section 8, Township 20 South, Range 29 East, NMPM, Eddy County, New Mexico.

(2) That 50 percent of the commingled production shall be allocated to the Atoka zone and 50 percent to the Upper Morrow zone.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JOE D. RAMEY
Director

S E A L

fd/