

**BETTIS, BOYLE & STOVALL**

P. O. BOX 1240

GRAHAM, TEXAS 76046

(817) 549-0780 OR FAX (817) 549-7400

OIL CONSERVATION DIVISION  
RECEIVED

DEC 10 AM 9 43

December 3, 1990

New Mexico Oil Conservation Commission  
Box 2088  
Santa Fe, New Mexico 87501

Attn: Mr. David Catanach  
Hearing Examiner

Re: Exxon Federal 8 #1  
Application for Dual Completion

Dear Mr. Catanach,

Enclosed please find our application for dual completion on the Exxon Fed 8 #1 well. Bettis, Boyle & Stovall completed the Exxon Federal 8 #1 in the Rustler Bluff Atoka Pool, Eddy County, New Mexico in August, 1988, from perforations 12,394-12,404 feet. Since that time the Atoka has produced 129 mmcf and was down to a rate of 30 mcf in August, 1990. In September I contacted you and discussed our plans to dual complete and commingle downhole the Morrow and Atoka formations. After proper approval of sundry notice we perforated the Morrow 13604-13614' and 13158-13163'. Combined, the two tested at 150 mcf with 600 psi flowing tubing pressure.

Due to the marginal productivity of both zones and because it would be cost prohibitive and economically unfeasible to mechanically isolate and produce both zones separately, we respectfully request administrative approval to downhole commingle the Atoka and Morrow as shown on the attached wellbore sketch.

We would propose that production be allocated one fifth (1/5) to the Atoka and four fifths (4/5) to the Morrow based on the deliverability of the Atoka prior to workover (30 mcf) versus deliverability of the two combined after workover (150 mcf).

To the best of our knowledge only two direct offset wells produce from the Atoka and Morrow. Bettis, Boyle & Stovall Pickett Draw Well #2 in Section 9 and CNG Bar 4 Federal in Section 4. CNG has no objection to our proposed commingled completion in that they do own a working interest in the Exxon Federal 8 #1 and have previously approved our recommendation to do so.

If you need additional information or I can be of service in any way please call me at (817) 549-0780.

Sincerely,

BETTIS, BOYLE & STOVALL

*Steve Gray*

Steve Gray  
Engineer

Submit 5 Copies  
Appropriate District Office  
DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-104  
Revised 1-1-89  
See Instructions  
at Bottom of Page

**OIL CONSERVATION DIVISION**

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

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

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

**REQUEST FOR ALLOWABLE AND AUTHORIZATION  
TO TRANSPORT OIL AND NATURAL GAS**

**I.**

Operator <b>BETTIS, BOYLE &amp; STOVALL</b>	Well API No. <b>300152589400S1</b>
Address <b>P. O. BOX 1240, GRAHAM, TEXAS 76046</b>	
Reason(s) for Filing (Check proper box) <input type="checkbox"/> Other (Please explain)	
New Well <input type="checkbox"/>	Change in Transporter of:
Recompletion <input checked="" type="checkbox"/>	Oil <input type="checkbox"/> Dry Gas <input checked="" type="checkbox"/>
Change in Operator <input type="checkbox"/>	Casinghead Gas <input type="checkbox"/> Condensate <input type="checkbox"/>

If change of operator give name and address of previous operator \_\_\_\_\_

**II. DESCRIPTION OF WELL AND LEASE**

Lease Name <b>EXXON "8" FEDERAL</b>	Well No. <b>-1-</b>	Pool Name, Including Formation <b>RUSTLER BLUFF ATOKA/MORROW</b>	Kind of Lease FED. State, Federal or Fee	Lease No. <b>NM-55929</b>
Location Unit Letter <b>A</b> : <b>860</b> Feet From The <b>E</b> Line and <b>660</b> Feet From The <b>N</b> Line Section <b>08</b> Township <b>25 SOUTH</b> Range <b>29 EAST</b> , NMPM, <b>EDDY</b> County				

**III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS**

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)			
Name of Authorized Transporter of Casinghead Gas <input type="checkbox"/> or Dry Gas <input checked="" type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)			
<b>EL PASO NATURAL GAS COMPANY</b>	<b>P.O. BOX 1492, EL PASO, TEXAS 79978</b>			
If well produces oil or liquids, give location of tanks.	Unit	Soc.	Twp.	Rge.
Is gas actually connected?	When ?			
<b>YES</b>	<b>9-14-88</b>			

If this production is commingled with that from any other lease or pool, give commingling order number: \_\_\_\_\_

**IV. COMPLETION DATA**

Designate Type of Completion - (X)	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
				<b>X</b>				
Date Spudded <b>3-30-88</b>	Date Compl. Ready to Prod. <b>11-11-90-WORKOVER</b>		Total Depth <b>13,879</b>		P.B.T.D. <b>13,650</b>			
Elevations (DF, RKB, RT, GR, etc.) <b>2934.4 G R</b>	Name of Producing Formation <b>ATOKA &amp; MORROW</b>		Top Oil/Gas Pay <b>12,394</b>		Tubing Depth <b>12,372</b>			
Perforations					Depth Casing Shoe			

**TUBING, CASING AND CEMENTING RECORD**

HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT
<b>26"</b>	<b>20"</b>	<b>637</b>	<b>1800</b>
<b>17 1/2"</b>	<b>13 3/8"</b>	<b>2875</b>	<b>2700</b>
<b>12 1/4"</b>	<b>9 5/8"</b>	<b>10,000</b>	<b>900</b>
	<b>2 7/8"</b>	<b>12,372</b>	<b>NONE</b>

**V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL** (Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours.)

Date First New Oil Run To Tank	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas- MCF

**GAS WELL**

Actual Prod. Test - MCF/D	Length of Test <b>24 HRS.</b>	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.) <b>backpressure</b>	Tubing Pressure (Shut-in)	Casing Pressure (Shut-in)	Choke Size

**VI. OPERATOR CERTIFICATE OF COMPLIANCE**

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

*Kim Ligon*  
Signature  
**Kim Ligon** Production Analyst  
Printed Name Title  
**12/4/90** **817-549-0780**  
Date Telephone No.

**OIL CONSERVATION DIVISION**

Date Approved \_\_\_\_\_

By \_\_\_\_\_

Title \_\_\_\_\_

**INSTRUCTIONS:** This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

BETTIS, BOYLE & STOAVLL

3. Address and Telephone No.

P. O. BOX 1240, Graham, Texas 76046 817-549-0780

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

660' FNL & 860' FEL of Section 8, T25S, R29E

5. Lease Designation and Serial No.

NM 55929

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.

EXXON "8" FEDERAL #1

9. API Well No.

30015258900S1

10. Field and Pool, or Exploratory Area

RUSTLER BLUFF-ATOKA

11. County or Parish, State

EDDY COUNTY, NEW MEXICO

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

TYPE OF ACTION

- Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other \_\_\_\_\_
- Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

11/08/90 RU perforators and perforate Morrow through tubing from 13,604-14, 34 holes.

11/09/90 Acidize Morrow perforations with 3000 gallons 7 1/2%, 120 ball sealers used to isolate Atoka perforations @ 12,394 - 12,404.

11/12/90 RU perforators and perforate Morrow through tubing from 13,158 - 63, 21 holes.

11/17/90 Put well on line downhole commingling the Atoka and Morrow formations into El Paso Natural Gas Company's existing line. Forms 3160-4, C-122, C-107 with attachments and C-104 are enclosed.

14. I hereby certify that the foregoing is true and correct

Signed *Jim Sigon* Title Production Analyst Date 12/4/90

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**BUREAU OF LAND MANAGEMENT**

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NM-55929

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

EXXON "8" FEDERAL

9. WELL NO.

-1-

10. FIELD AND POOL, OR WILDCAT

RUSTLER BLUFF ATOKA/MORROW

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Section 8, T25S, R29E

12. COUNTY OR PARISH  
EDDY

13. STATE  
NEW MEXICO

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 \_\_\_\_\_

2. NAME OF OPERATOR  
BETTIS, BOYLE & STOVALL

3. ADDRESS OF OPERATOR  
P. O. BOX 1240, GRAHAM, TEXAS 76046

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*

At surface 660' FNL & 860' FEL of Section 8, T25S, R29E

At top prod. interval reported below

At total depth

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

15. DATE SPUDDED 3-30-88	16. DATE T.D. REACHED 6-7-88	17. DATE COMPL. (Ready to prod.) 11-11-90 workover	18. ELEVATIONS (DF, RKB, RT, OR, ETC.)* 2934.4	19. ELEV. CASINOHEAD 2937
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20. TOTAL DEPTH, MD & TVD 13,879	21. PLUG. BACK T.D., MD & TVD 13,650	22. IF MULTIPLE COMPL., HOW MANY* -2-	23. INTERVALS DRILLED BY ROTARY TOOLS 0-13,777	CABLE TOOLS
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24. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
12,394 - 12,404, Atoka;  
13,604 - 13,614, Morrow; 13,158 - 13,163, Morrow

25. WAS DIRECTIONAL SURVEY MADE  
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN  
None ran after dual completion

27. WAS WELL CORED  
NO

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

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	94# & 133#	637'	26'	1800 sx - circulated	0
13 3/8"	68#	2875'	17 1/2"	2700 sx - circulated	0
9 5/8"	43.5, 47 & 53.5#	10,100'	12 1/4"	900 sx	0

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
7 5/8"	9785	13,777	900 sx		2 7/8"	12,372	12,340

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
INTERVAL	HOLES	DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
12,394 - 12,404	41 holes;	13,604-13,614	acidized w/3000 gallons
13,604 - 13,614	34 holes;		7 1/2%, 120 balls
13,158 - 13,163	21 holes;		

33.\* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
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DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASINO PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
soled

TEST WITNESSED BY  
Carter Hughes

35. LIST OF ATTACHMENTS  
NONE

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

SIGNED Jim Pizon TITLE Production Analyst DATE 12/4/90

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

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);

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
Lamar LM.	2860'	2906'	Limestone	Lamar LM.	2860'	
Canyon	2906'	3756'	Sandstone w/Shale & Limestreaks	Bell Canyon	2906'	
Cherry Canyon	3756'	5390'	Sandstone w/Lime Streaks	Cherry Canyon	3756'	
Brushy Canyon	5390'	6656'	Sandstone w/Lime & Shale Streaks	Brushy Canyon	5390'	
Bone Springs	6656'	7566'	Lime, Shale & Sand	Bone Springs	6656'	
Bone SpringsSD	7566'	8384'	Sand w/Shale & Lime Streaks	Wolfcamp	9852'	
Bone SpringsSD	8384'	9452'	Sand w/Lime Streak	Strawn	12164'	
Bone SpringsSD	9452'	9852'	Sand & Shale	Upper Atoka	12381'	
Wolfcamp	9852'	12164'	Limestone w/Shale Streaks	Atoka Bank	12491'	
Strawn	12164'	12381'	Sand & Lime	Middle Atoka	12518'	
Upper Atoka	12381'	12491'	Sand w/Shale & Lime Streaks	Lower Atoka	12552'	
Atoka Bank	12491'	12518'	Limestone	Upper Morrow	12986'	
Middle Atoka	12518'	12552'	Shale Sand & Limestone	Middle Morrow	13366'	
Lower Atoka	12552'	12986'	Shale w/Sand & Lime Streak	Lower Morrow	13644'	
Upper Morrow	12986'	13366'	Shale & Sand	T.D.	13650'	
Middle Morrow	13366'	13644'	Shale & Sand			
Lower Morrow	13644'	13650'	Sand, Shale, Chert & Lime			

1st  
2ns  
3rd

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

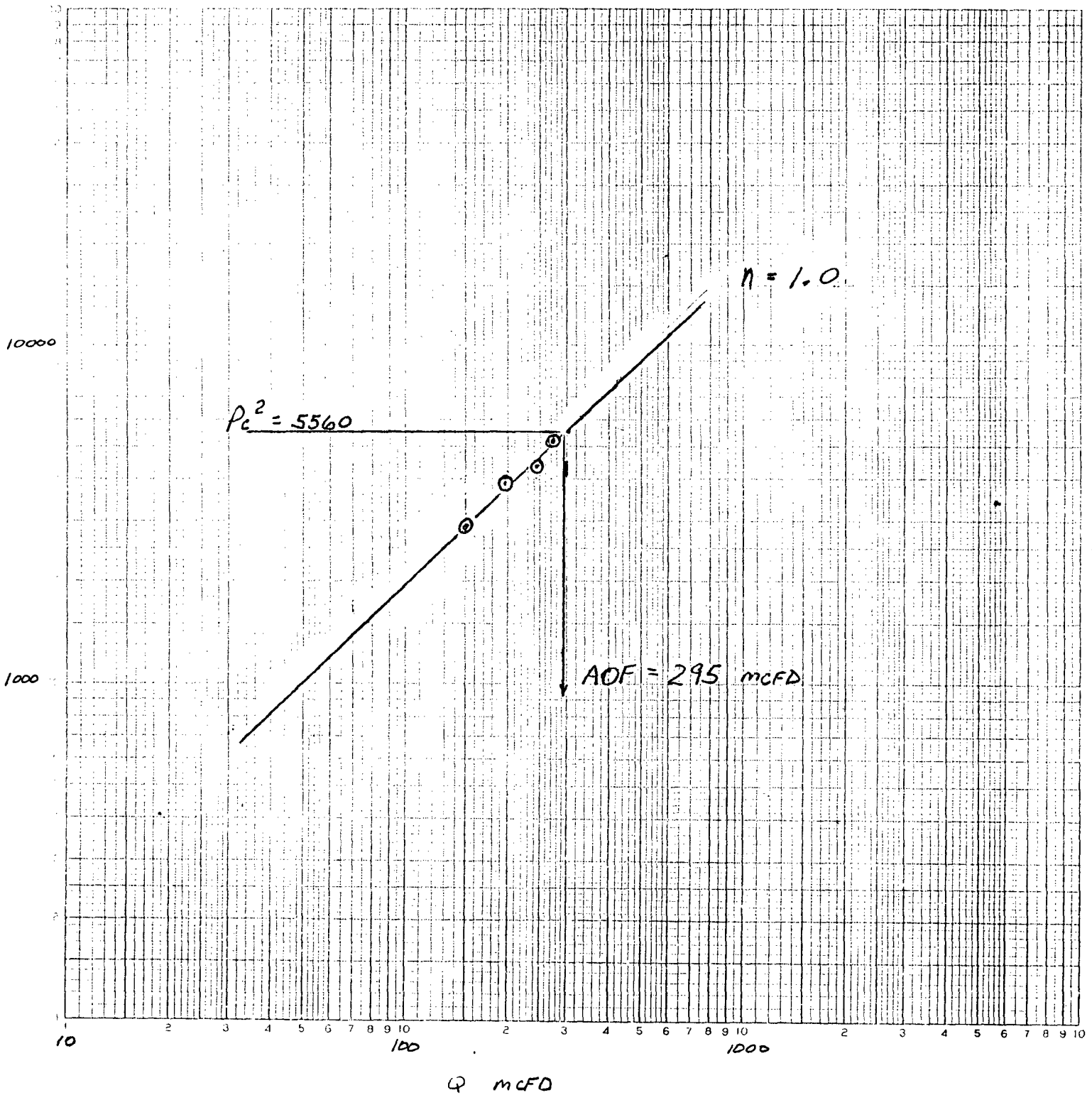
Form C-122  
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input type="checkbox"/> Initial <input type="checkbox"/> Annual <input checked="" type="checkbox"/> Special				Test Date 11-20-90							
Company Bettis, Boyle & Stovall			Connection Vented								
Pool RUSTLER BLUFF ATOKA/MORROW			Formation ATOKA & MORROW		Unit						
Completion Date 11-11-90		Total Depth 13879	Plug Back TD 13650		Elevation 2934.4						
Farm or Lease Name Exxon 8 Fed					Well No. 1						
Csq. Size 7.625	Wt. 39	d	Set At	Perforations: From                      To							
Tsq. Size 2.875	Wt. 7.9	d 2.29	Set At 12372	Perforations: From 12394              To 13614							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple				Packer Set At 12340							
Producing Thru Tubing					State NEW MEXICO						
Reservoir Temp. °F 196 @ 12399		Mean Annual Temp. °F 60		Baro. Press. - P <sub>a</sub> 13.2							
L 12399	H 12399	G <sub>g</sub> .68	% CO <sub>2</sub> .01	% N <sub>2</sub> .51	% H <sub>2</sub> S 0						
				Prover	Meter Run 4.026						
				Taps FLNG							
FLOW DATA			TUBING DATA		CASING DATA						
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. Surface	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							1800				72 hrs
1.	4.026		.50	580	15	75	1250	75			1 hr
2.	4.026		.50	580	25	78	940	79			1 hr
3.	4.026		.50	590	38	80	800	80			1 hr
4.	4.026		.50	590	48	80	420	80			1 hr
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd				
1	1.205	94.33	593.2	.9859	1.2910	1.044	151				
2	1.205	121.78	593.2	.9831	1.2910	1.047	195				
3	1.205	151.3	603.2	.9813	1.2910	1.048	242				
4	1.205	170.2	603.2	.9813	1.2910	1.048	272				
5											
NO.	R <sub>f</sub>	Temp. °R	T <sub>f</sub>	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1	.881	535	1.49	.917	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2	.881	539	1.50	.912	Specific Gravity Separator Gas .60      XXXXXXXXXX						
3	.896	540	1.51	.910	Specific Gravity Flowing Fluid      XXXXXX						
4	.896	540	1.51	.910	Critical Pressure 673      P.S.I.A.      P.S.I.A.						
5					Critical Temperature 358      R      R						
					(USED N=1)						
P <sub>c</sub> 2358		P <sub>w</sub> 5560									
NO.	P <sub>1</sub> <sup>2</sup>	P <sub>w</sub>	P <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.265$ (2) $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.265$						
1		1673	2681	2879							
2		1269	1610	3950							
3		1080	1166	4394							
4		580	336	5224	AOF = Q $\left[ \frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 306$						
5											
Absolute Open Flow 306					Mcf @ 15.025		Angle of Slope $\theta$		Slope, n		
Remarks:											
Approved By Division			Conducted By: Carter Hughes			Calculated By: Steve Gray			Checked By:		

BETTIS BOYLE & STOVALL  
EDDY COUNTY, NM

EXXON FED 8 #1  
11-17-90



APPLICATION FOR MULTIPLE COMPLETION

Bettis, Boyle & Stovall		Eddy County, New Mexico		12-4-90
Operator		County	Date	
P. O. Box 1240, Graham, Texas 76046		EXXON "8" FEDERAL	-1-	
Address		Lease	Well No.	
#1 - A	08	25S	29E	
Location of Well	Unit	Section	Township	Range

All Applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Rustler Bluff Atoka		Rustler Bluff Morrow
b. Top and Bottom of Pay Section (Perforations)	12,394 - 12,404		13604 - 13614 13158 - 13163
c. Type of production (Oil or Gas)	Gas		Gas
d. Method of Production (Flowing or Artificial Lift)	Flow		Flow
e. Daily Production <input checked="" type="checkbox"/> Actual <input type="checkbox"/> Estimated Oil Bbls. ( Gas MCF) Water Bbls.	30 MCFD		Est. 120 MCFD

2. The following must be attached:
- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
  - Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
  - Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed Steve Gray Title Engineer Date 12/4/90

(This space for State Use)

Approved By \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

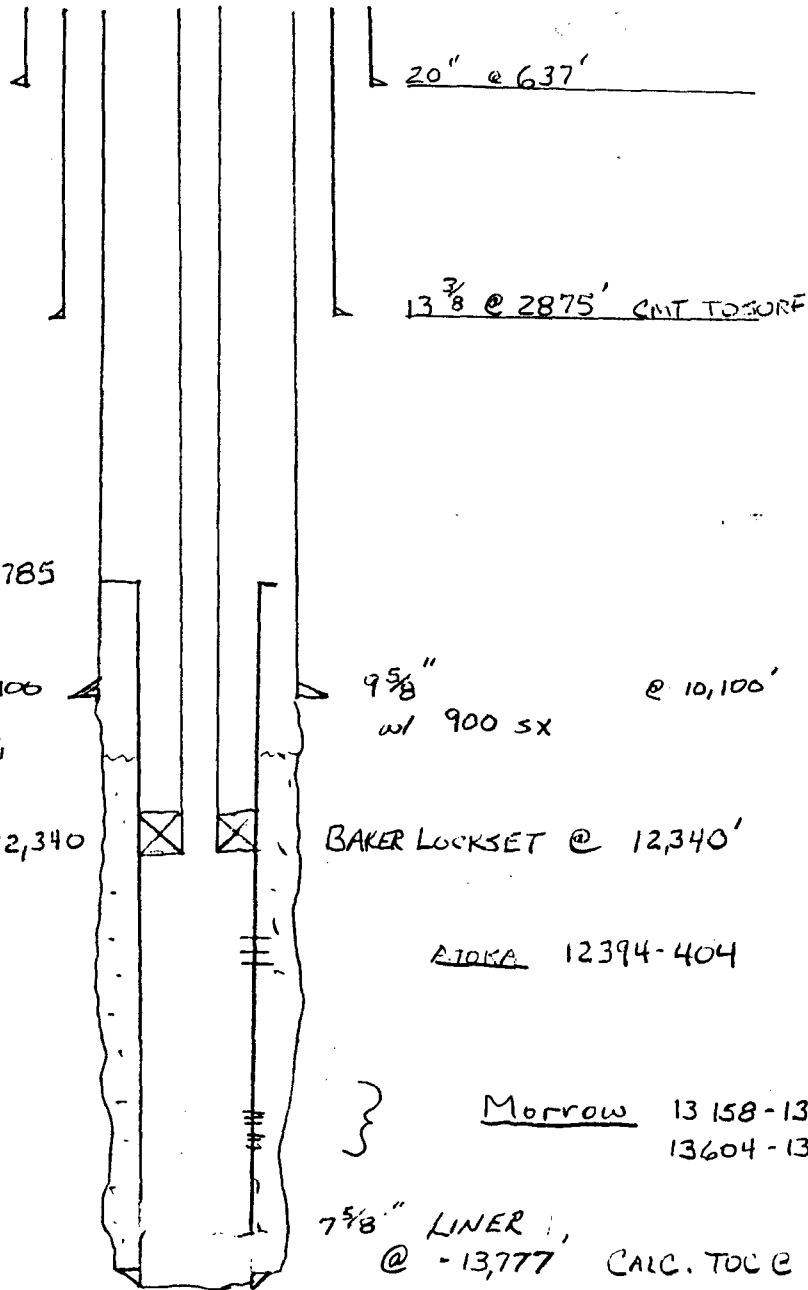
NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.



# EXXON FED 8 #1 BETTIS, BOYLE, + STOVALL

LOCATION: 860 FEL + 660 FNL SEC 8 - 255 - 29E

42,381 50 SHEETS 5 SQUARE  
42,382 100 SHEETS 5 SQUARE  
42,383 100 SHEETS 5 SQUARE  
NATIONAL



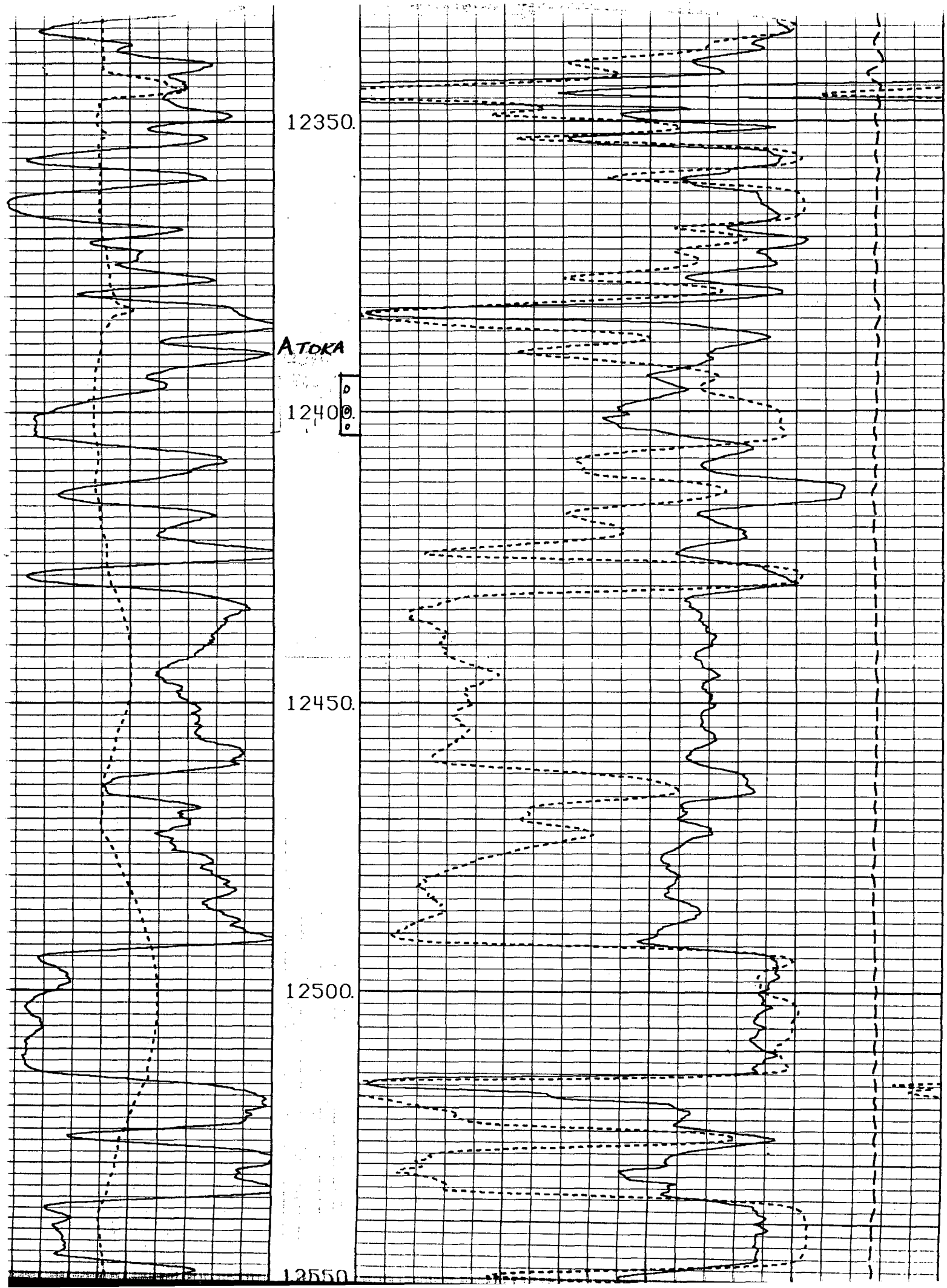
ATOKA 12394-404

OLD PERFS

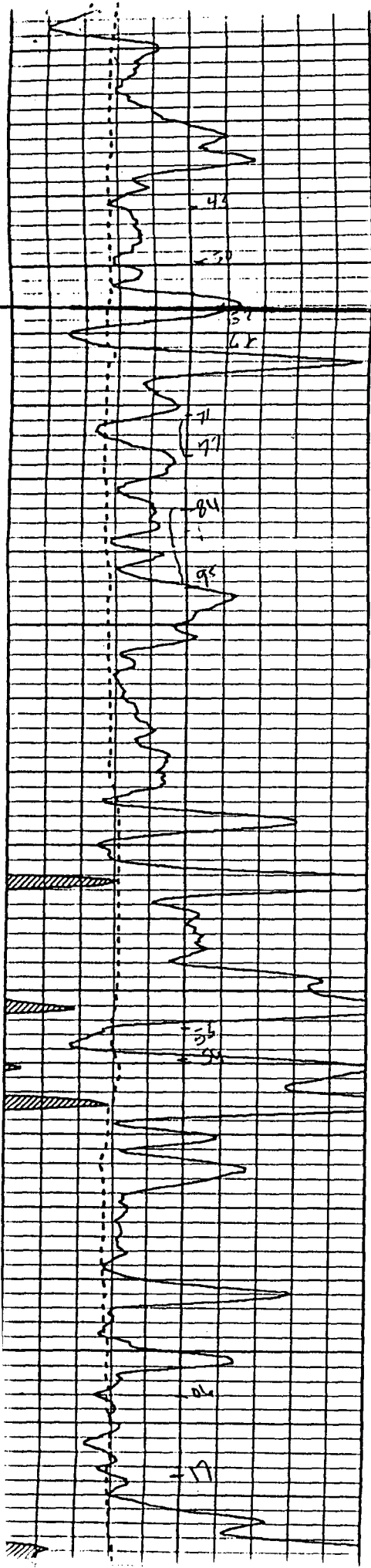
Morrow 13158-13163  
13604-13614

NEW PERFS

EST PDTD 13650



# EXXON FED 8#1

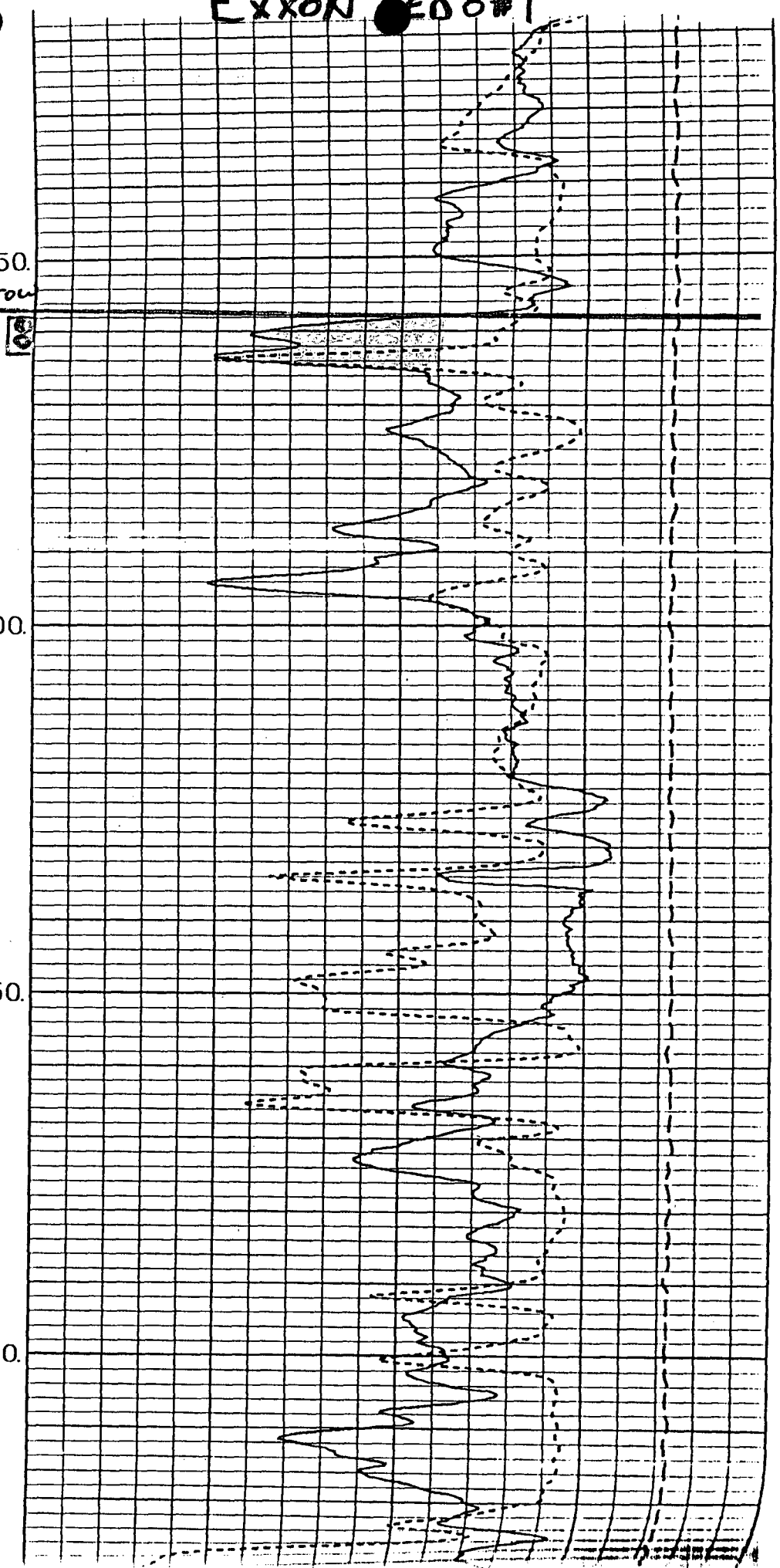


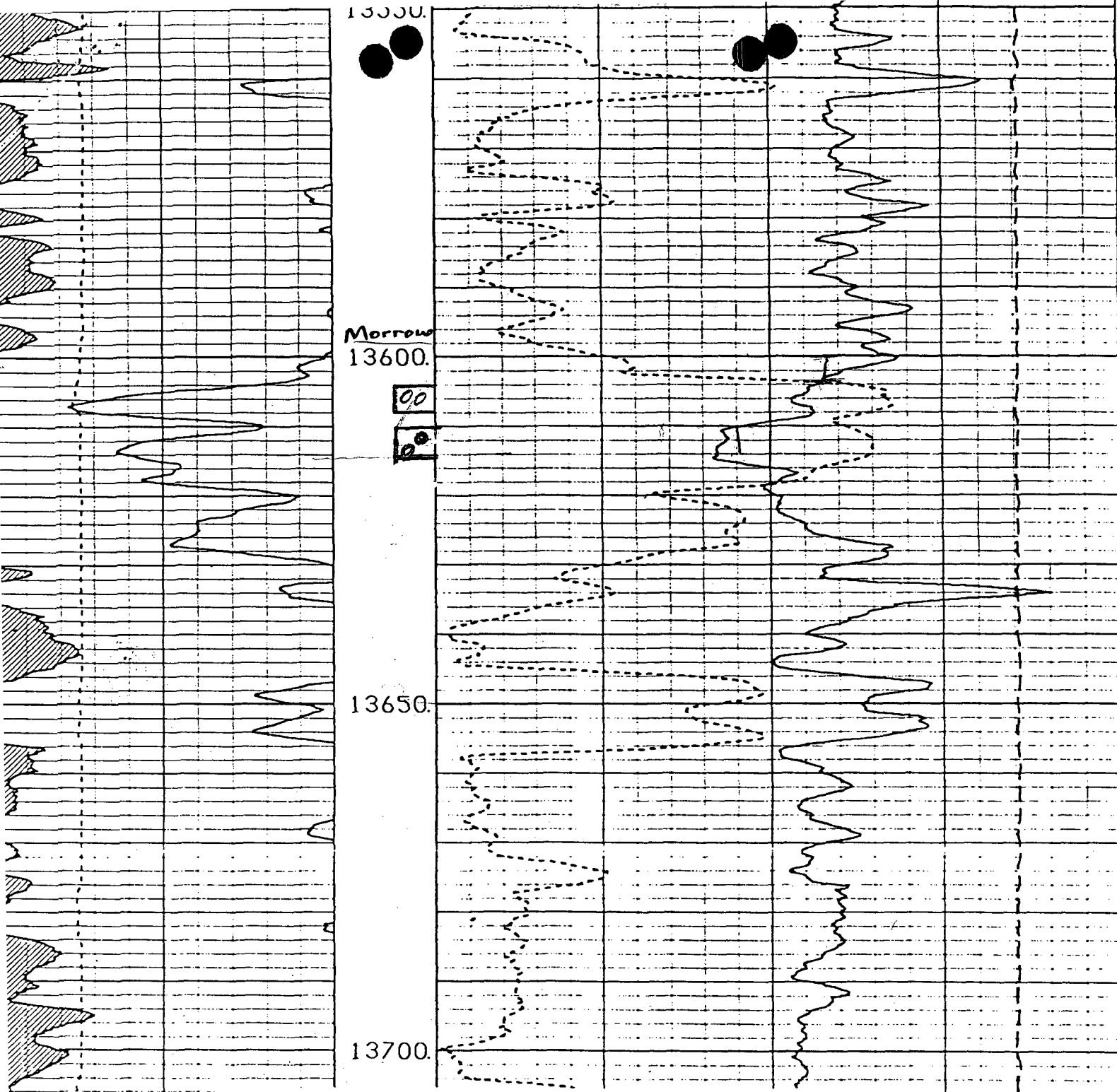
13150.  
Morrow

13200.

13250.

13300.





**O'BRIANT ENGINEERING**

P O BOX 10487  
MIDLAND, TEXAS 79702

BETTIS, BOYLE AND STOVALL

EXXON"8" FEDERAL NO. 1

Eddy County, New Mexico

Welex: GR-SD-DSNL  
(dated 5/29/88)

*Handwritten signature and date:*  
5/30/88

