

XII
April 23, 1998

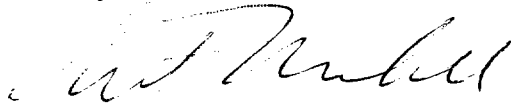
New Mexico Oil Conservation Division
P.O Box 2088 2040 S. Pacheco 87505
Santa Fe, NM 87501

RE: Permian Resources, Inc. #7 Buffalo Federal
T18S, R33E, Section 34(B)
Lea County, New Mexico

Ladies and Gentlemen:

I have reviewed the geological and hydrological conditions at the above captioned well and do find any evidence of open faults and other hydrogeologic connection between the disposal zone and any underground water sources.

Sincerely



Robert Marshall
Certified Petroleum Geologist #2528

SCHLUMBERGER**FORMATION DENSITY LOG**

Gamma-Gamma

SCHLUMBERGER WELL SURVEYING CORPORATION

Houston, Texas

COUNTY LEA FIELD or LOCATION SOUTH CORBIN WELL BUFFALO FEDERAL #1 COMPANY ROY H. SMITH DRILLING CO.	COMPANY	ROY H. SMITH DRILLING COMPANY	
	WELL	BUFFALO FEDERAL #1 (Seven)	
	FIELD	SOUTH CORBIN	
	COUNTY	LEA	STATE
Location:		1980' FEL 660' FNL	Other Services: L
Sec. 34		Twp. 18-S	Rge. 33-E

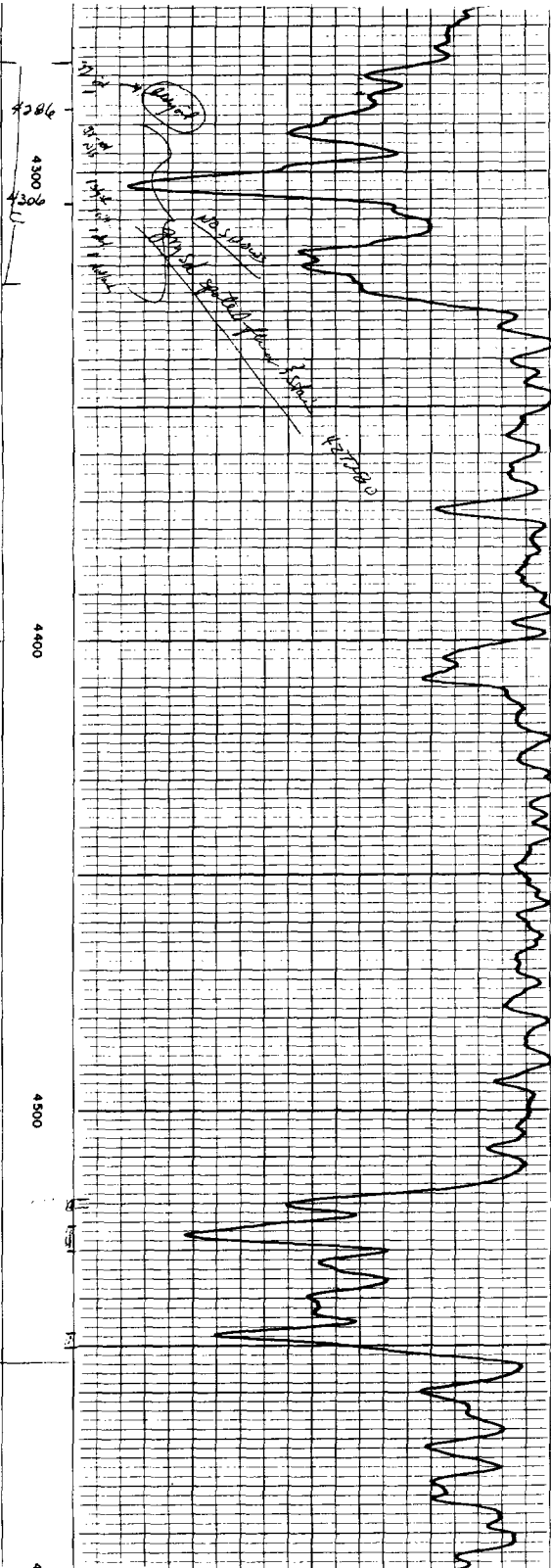
Permanent Datum: GROUND LEVEL ; Elev.: 3791
Log Measured From KB , 12 Ft. Above Perm. Datum
Drilling Measured From KB

Elev.: K.B. 3803
D.F. 3802
G.L. 3791

Date	1-25-66		
Run No.	ONE		
Type Log	GR + FDC		
Depth—Driller	4620		
Depth—Logger	4621		
Bottom logged interval	4620		
Top logged interval	100		
Type fluid in hole	SALT-GEL		
Salinity, PPM Cl.	SATURATED		
Density	10.3		
Level	FULL		
Max rec. temp., deg F.	97		
Operating rig time	4 HRS.		
Recorded by	RATLIFF		
Witnessed by	MOORHEAD-KELTON		

RUN No.	BORE-HOLE RECORD			CASING RECORD			
	Bit	From	To	Size	Wgt.	From	To
1	7 7/8	CSG	TD	8 5/8	-	SURF.	240

2-01-66 MICHUCCO

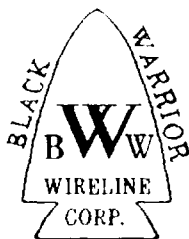


4300
4350
4380
4390
4400
4500
4600

4300
4350
4380
4390
4400
4500
4600

Collar

Gamma Ray



**BLACK WARRIOR
WIRELINE CORP.**

P.O. Drawer 9188
Columbus, MS 39705-9188

CEMENT BOND LOG WITH GAMMA RAY

COUNTY: LEA
FIELD: SOUTH CORBIN
LOCATION: 1980' FEL AND 660' FNL
WELL: BUFFALO FEDERAL NO. 7
COMPANY: M & W OF LOVINGTON, INC.

COMPANY M & W OF LOVINGTON INC.

WELL BUFFALO FEDERAL NO. 7

FIELD SOUTH CORBIN

COUNTY LEA STATE N. M.

LOCATION

1980' FEL AND 660' FNL

Sec. 34

Twp. 18-S

Rge. 33-E

Other Services

CIBP

CEMENT

PERFORATE

Permanent datum G.L.

Elev. 3791'

Elev. K.B. 3803'

Log Measured From K.B.

12'

Above Perm. Datum

D.F. 3802'

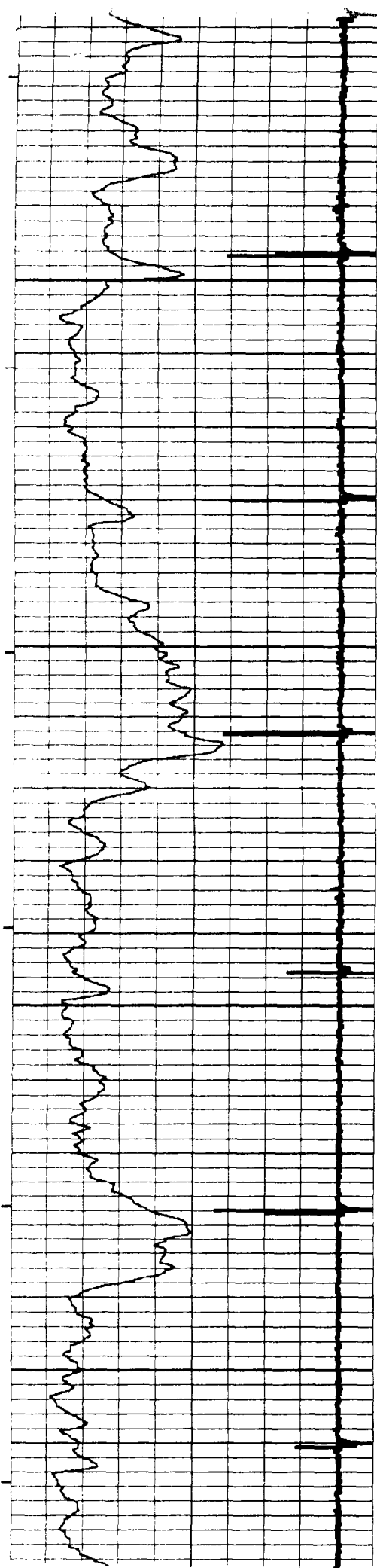
Drilling Measured From K.B.

G.L. 3791'

Date	11-14-91		Type Fluid in Hole		WATER	
Job Tkt I Run No.	33064	ONE	Dens.	I Visc.	8.4	
Depth-Driller	4465'		Est. Cement Top		3115'	
Depth-Logger	4465'		Max. Rec. Temp.			
Btm. Log Interval	4400'		Equip. I Location		5610	HQBBS
Top log Interval	3000'		Recorded By		ROGER HAGAN	
Open Hole Size	7 7/8"		Witnessed By		JOHNNY WILSON	
CASING REC.	Size	Wt/Ft	Grade	Type Joint	Top	Bottom
Surface String	8 5/8"				SURFACE	240'
Prot. String						
Prod. String	4 1/2"	9.5			SURFACE	4620'
Liner						

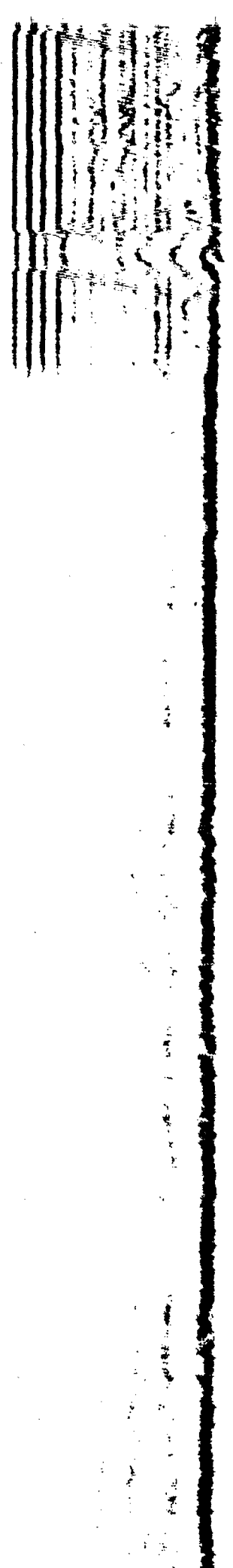
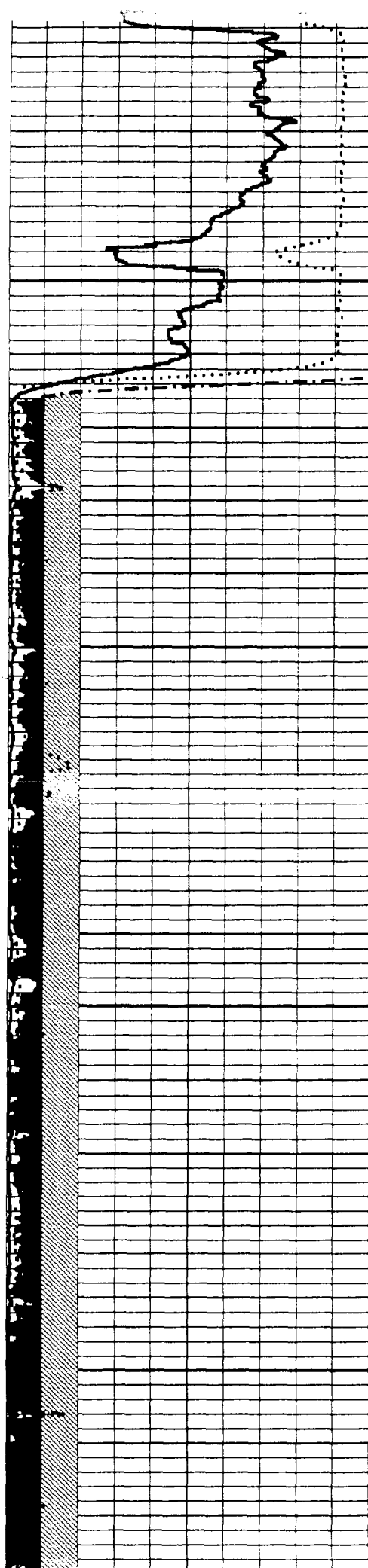
PRIMARY CEMENTING DATA

STRING	Surface	Protection	Production	Liner
Vol. of Cement				
Type of Cement				
Additive				
Additive by %				
Retarder				
Retarder by %				
Wt. of Slurry				
Water Loss				
Drill mud type				
Drilling mud wt				



3100

3200



Form 9-321
(May 1963)UNITED STATES
DEPARTMENT OF THE INTERIORSUBMIT IN TRIPLICATE
(Other instructions on reverse side)

GEOLOGICAL SURVEY OF U.S.G.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill on the surface of a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Dry Hole		5. LEASE DESIGNATION AND SERIAL NO. USA, LC-064944	
2. NAME OF OPERATOR Roy M. Smith Drilling Company		6. IF INDIAN, ALLOTTEE OR HEIR NAME	
3. ADDRESS OF OPERATOR 726 First Wichita National Bldg., Wichita Falls, Texas		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface T-186, R-33E, Sec. 27, 330' fr south line and 2310' fr east line of section		8. FARM OR LEASE NAME Astec-Federal	
14. PERMIT NO.		9. WELL NO.	
15. ELEVATIONS (Show whether op. wt. or, etc.) 3792 (gr); 3803 (df)		10. FIELD AND POOL, OR WILDCAT South Corbin	
		11. SEC., T. & R., OR L&A, AND SURVEY OR AREA Sec. 27, T-186, R-33E	
		12. COUNTY OR PARISH Lee	
		13. STATE New Mexico	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF ☐	FULL OR ALTER CASING ☐	WATER SHUT-OFF ☐	REPAIRING WELL ☐
FRACTURE TREAT ☐	MULTIPLE COMPLETS ☐	FRACTURE TREATMENT ☐	ALTERING CASING ☐
SHOOT OR ACIDISE ☐	ABANDON* ☐	SHOOTING OR ACIDISING ☐	ABANDONMENT* ☒
REPAIR WELL ☐	CHANGE PLANS ☐	(Other) ☐	

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

17. 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 points pertinent to this work.)

Roy M. Smith Drilling Company No. 1 Astec-Federal, T.D. 4580', plugged with following approved procedure:

No. 1 plug	4330 - 4250, 35 sx.	displaced thru drill pipe
No. 2 plug	3000 - 2900, 30 sx.	" " " "
No. 3 plug	1530 - 1430, 30 sx.	" " " "
No. 4 plug	350 - 250, 30 sx.	" " " "
No. 5 plug	10 - 0, 5 sx.	" " " "

No. 5 plug in top of surface casing w/4" diameter marker

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

SIGNED

TITLE **Sole Owner**DATE **8/12/66**

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

Form 9-331
(May 1965)UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate
(Other instructions on reverse side)Form approved.
Budget Bureau No. 42-21424

5. LEASE DESIGNATION AND SERIAL NO.

NM-01177-A

6. IF INDIAN, ALLOTTEE OF THIS NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT" for such proposals.)

1.

OIL WELL ☐ GAS WELL ☐ OTHER ☒ DRY HOLE

2. NAME OF OPERATOR

PAN AMERICAN PETROLEUM CORPORATION

3. ADDRESS OF OPERATOR

BOX 68, HOBBS, N. M. 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface

1650' FNL x 2310' FWL Sec. 34 (Unit F, SE 1/4 NW 1/4)

14. PERMIT NO.

15. ELEVATIONS (Show whether DV, ST, OR, etc.)

3787' RDB

7. UNIT ASSIGNMENT NAME

BUFFALO Federal UNIT

8. FARM OR LEASE NAME

9. WELL NO.

9

10. FIELD AND POOL, OR WILDCAT

CORBIN Queen South

11. SEC., T., R., & S., OR BLM, AND SURVEY OR AREA

34-18-33 NMPM

12. COUNTY OR PARISH 13. STATE

Lea N.M.

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETS

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDISING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of start/line and proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and source vertical to this work.)

In accordance w/ Form G-331 submitted 3-3-67, well P.A. as follows:

Spotted 20 04 cement plug from 4400-4072'

Shot log @ 3215. Ratchet @ 2995 and pulled 4 1/2" log.

Spotted 25 04 cement plug in and out of stub @ 2995.

25 04 @ 1455-1345; 25 04 in & out of 8 1/2" CSA 264' (210-250).

10 04 @ surface and erect P.A. marker.

Made final cleanup and restored ground to contour.

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

SIGNED

TITLE

AREA SUPERINTENDENT

DATE

6-8-67

(This space for Federal or State office use)

APPROVED BY

TITLE

APPROVED

CONDITIONS OF APPROVAL, IF ANY:

SEP 14 1967

*See Instructions on Reverse Side

J L GORDON
ACTING DISTRICT ENGINEER014 - USGS-H
1- NSW
1- SUSP
1- RRY
1- CONOCO
1- STATE LAND