

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

FORM APPROVED
OMB NO. 1004-0167
Expires: February 28, 1995

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. TYPE OF WELL:		OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	DRY <input type="checkbox"/>	Other <input type="checkbox"/>	
b. TYPE OF COMPLETION:		NEW WELL <input checked="" type="checkbox"/>	WORK OVER <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	PLUG BACK <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>
2. NAME OF OPERATOR ARCO Permian						
3. ADDRESS AND TELEPHONE NO. P.O. Box 1610, Midland, TX 79702 915-688-5570						
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 1980' FSL, 1980' FWL At top prod. interval reported below At total depth						
14. PERMIT NO.		DATE ISSUED				
15. DATE SPUDDED 5/4/98		16. DATE T.D. REACHED 5/21/98		17. DATE COMPL. (Ready to prod.) 6/18/98		
18. ELEVATIONS (DP, RKB, RT, GR, ETC.)* 3506'		19. ELEV. CASINGHEAD				
20. TOTAL DEPTH, MD & TVD 8510		21. PLUG BACK T.D., MD & TVD 8458		22. IF MULTIPLE COMPL., HOW MANY*		
23. INTERVALS DRILLED BY		ROTARY TOOLS X		CABLE TOOLS		
24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* SEE ATTACHED						
25. WAS DIRECTIONAL SURVEY MADE N						
26. TYPE ELECTRIC AND OTHER LOGS RUN						
27. WAS WELL CORED N						
28. CASING RECORD (Report all strings set in well)						
CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED	
13-3/8	48	880	17-1/2	CIRC	NA	
8-5/8	32	4033	11	405'TS	NA	
5-1/2	17	8510	7-7/8	5488'TS	NA	
29. LINER RECORD						
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	PACKER SET (MD)	
				2-7/8	8044	
30. TUBING RECORD						
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number) SEE ATTACHED						
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED SEE ATTACHED						
33.* PRODUCTION						
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping - size and type of pump) PUMPING			WELL STATUS (Producing or shut-in) PRODUCING	
DATE OF TEST 6/25/98	HOURS TESTED 24	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL - BBL. 66	GAS - MCF. 70	
WATER - BBL. 673	GAS - OIL RATIO					
FLOW. TUBING PRESS. 250	CASING PRESSURE 65	CALCULATED 24-HOUR RATE	OIL - BBL.	GAS - MCF.	WATER - BBL.	
OIL GRAVITY - API (CORR.) 39.6						
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) SOLD					TEST WITNESSED BY	
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 <u>Laurie Cherry</u>		TITLE <u>REGULATORY COMPLIANCE</u>		DATE <u>7/7/98</u>		

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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
				DELAWARE	4521'	4521'
				BONE SPRING	8395'	8395'

38. GEOLOGIC MARKERS

ATTACHMENT TO FORM 3160-4
BARCLAY FEDERAL #7
API # 30-015-29785

24. 8329-8333, 8299-8303, 8208-8212, 8185-8189; ALL 3 SPF; 7737-7741, 7724-7727, 7715-7720, 7631-7363, 7623-7626, 7615-7617; ALL 1 SPF; 6795-6805; 1 SPF.

31. SEE #24

32. 8299-8333 ACID W/2000 GAL 15%; FRAC W/32250 GAL GEL; 43000 #SD
8185-8212 ACID W/1000 GAL 15%; FRAC W/32150 GAL GEL; 48000 #SD
7615-7741 ACID W/1000 GAL 15%; FRAC W/46000 GAL GEL; 84000 #SD
6795-6805 ACID W/1000 GAL 15%; FRAC W/28750 GAL GEL AND 43000 #SD

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

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

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Depart

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-29795	Pool Code 96149	Pool Name LIVINGSTON RIDGE (DEL)
Property Code 20860	Property Name BARCLAY FEDERAL	Well Number 7
OGRID No. 000990	Operator Name ARCO PERMIAN	Elevation 3506

Surface Location

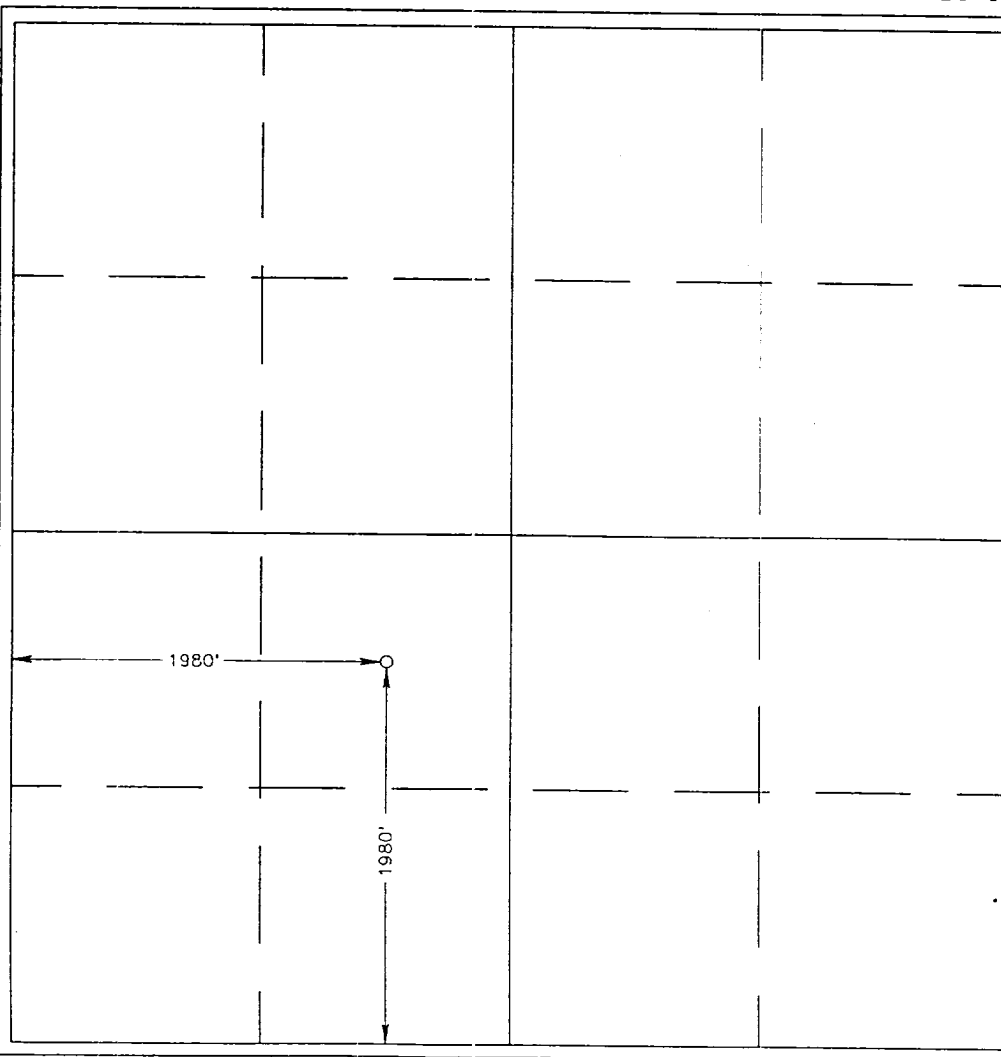
UL or lot No. K	Section 12	Township 23 S	Range 31 E	Lot Idn	Feet from the 1980	North/South line SOUTH	Feet from the 1980	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Laurie Cherry</i> Signature LAURIE CHERRY Printed Name REG. / COM. ASST. Title 1/7/98 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MARCH 24, 1997</p> <p>Date Surveyed Signature & Seal of Professional Surveyor NEW MEXICO RONALD J. EIDSON 3-31-97 9-11-0554 Certificate No. JOHN J. WEST 676 RONALD J. EIDSON 3239 RONALD J. EIDSON 12641</p>
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June 11, 1998

WELL NAME AND NUMBER: BARCLAY FEDERAL #7
LOCATION: SEC.12 T23S R31E
OPERATOR: ARCO
DRILLING CONTRACTOR: PATTERSON DRILLING CO.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

DEGREE AND DEPTH		DEGREE AND DEPTH		DEGREE AND DEPTH	
0.75	351	1.50	3649	1.50	4562
0.50	594	3.00	3742	1.00	5000
0.50	882	3.50	3939	1.50	5499
0.50	1320	3.25	3992	0.50	5968
0.50	1820	3.00	4055	0.25	6439
1.00	2320	3.00	4117	0.25	6919
1.00	2579	2.75	4303	0.75	7419
0.75	3147	2.00	4867	0.75	7738
1.00	3399	2.00	4475	0.75	8192
				1.00	8470

Drilling Contractor:
Patterson Drilling Company

By: Billy Jensen
Billy Jensen

Subscribed and sworn to before me on this 11th day of June, 1998

My Commission Expires: June 30, 2001

Mary G. Henson
Mary G. Henson

Schlumberger

GEOFRAME
PROCESSED
INTERPRETATION

Platform Express Array Induction

Gamma Ray

*A Mark of Schlumberger

Using the following logs: TLD-CNL-GR
CMR

COMPANY: ARCO Permian Company
WELL: Barclay Federal No. 7
FIELD: Livingston Ridge
COUNTY: Eddy
STATE: New Mexico
COUNTRY: USA
Date Logged: 22-MAY-1998 Date Processed: 6-JUN-1998
Well Location: 1980' FSL & 1980' FWL

Elevations: KB: 3522ft DF: 3521ft GL: 3506ft

API Number: 30-015-29785 Job Number: 148517

The well name, location and borehole reference data were furnished by the customer.

FOLD HERE

Schlumberger

GEOFRAME
PROCESSED
INTERPRETATION

Platform Express LithoDensity

Compensated Neutron Log

*A Mark of Schlumberger

Using the following logs: TLD-CNL-GR
CMR

COMPANY:	ARCO Permian Company		
WELL:	Barclay Federal No. 7		
FIELD:	Livingston Ridge		
COUNTY:	Eddy		
STATE:	New Mexico		
COUNTRY:	USA		
Date Logged:	22-MAY-1998	Date Processed:	6-JUN-1998
Well Location:	1980' FSL & 1980' FWL		
Elevations:	KB: 3522ft	DF: 3521ft	GL: 3506ft
API Number:	30-015-29785	Job Number:	148517

The well name, location and borehole reference data were furnished by the customer.
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CEMENT BOND LOG

FILING NO.		COMPANY ARCO PERMIAN					
INVOICE #		WELL BARCLAY FEDERAL NO.7					
56746		FIELD					
COUNTY		EDDY		STATE		NEW MEXICO	
LOCATION				OTHER SERVICES			
SEC. 12				TWP. 23-S		RGE. 31-E	
PERMANENT DATUM: GROUND LEVEL				ELEV. N/A		ELEV: K.B. N/A 3520	
LOG MEASURED FROM K.B.				FT. ABOVE PERM. DATUM		D.F. N/A	
DRILLING MEASURED FROM K.B.						3506' G.L. N/A	
DATE		JUNE 01, 1998					
RUN NO.		ONE					
TYPE LOG		GR/CBL					
DEPTH-DRILLER		8480'					
DEPTH-LOGGER		8458'					
LOGGED INTERVAL		8451' TO 5300'		5300'		TO 30'	
OPERATING RIG TIME		CRANE					
TYPE FLUID IN HOLE		WATER		*****			
SALINITY, PPM CL.				CORRELATED TO DENS1-LOG			
DENSITY-VISCOSITY				DATED 26 MAY 98			
LEVEL		FULL		*****			
MAX. REC. TEMP., DEG. F		N/A					
EQUIPMENT-LOCATION		5044-ODESSA		6349-HOBBS			
RECORDED BY		MILLER		WARDEN			
WITNESSED BY		MR. SLATON					
RUN		BORE-HOLE RECORD		CASING RECORD			
NO.	BIT	FROM	TO	SIZE	WGT.	FROM	TO
				5.50		SURFACE	T.D.
THIS HEADING CONFORMS TO API STANDARD PRACTICE RP-33							