-2-Case No. 6572 Order No. R-6044

should file with the Division a final report of drilling upon completion thereof, specifying in said report the depth and location of the terminus of the drainhole.

(5) That the proposed drainhole, if successfully completed the wellbore, thereby preventing waste, will not impair but will protect correlative rights, and should be approved.

IT IS THEREFORE ORDERED:

(1) That the applicant, ARCO Oil and Gas Company, is hereby authorized to complete its Empire Abo Unit Well No.
K-142, the surface location of which is 1700 feet from the south line and 1400 feet from the West line of Section 2, Township 18 South, Range 27 East, NMPM, Empire-Abo Pool, Eddy County, New Mexico, in such a manner as to provide a 200-foot horizontal drainhole beneath the gas-oil contact in the Abo Reef, extending in a southeasterly direction from the surface location.

(2) That the applicant shall constantly monitor the pitch and direction of the drainhole as it is being drilled, and shall file a report of drilling upon completion thereof, specifying in said report the depth and location of the terminus of the drainhole.

(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.

Director KVWEX 10E D NOISIVIC OUR CONSEBANTION STATE OF NEW MEXICO

SEAL

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

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

> CASE NO. 6572 Order No. R-6044

• APPLICATION OF ARCO OIL AND GAS COMPANY TO DRILL A HORIZONTAL DRAINHOLE, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on June 13, 1979, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this <u>26th</u> day of June, 1979, 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, ARCO Oil and Gas Company, seeks approval to drill and complete its Empire Abo Unit Well No. K-142, the surface location of which, previously approved by Administrative Order NSL-999, is 1700 feet from the South line and 1400 feet from the West line of Section 2, Township 18 South, Range 27 East, Empire-Abo Pool, with a single horizontal drainhole of about 200 feet in length in the Abo formation.

(3) That the applicant proposes to vertically drill sold well through the Abo Reef in a conventional manner, set contained below the gas-oil contact, and by means of a specially constructed whipstock and knuckle-joint drill collars, turn said well in a southeasterly direction at the rate of approximately 5 degrees per foot, continuing such drilling until horizontal, and then drill in a southeasterly direction to complete the drainhole some 200 feet South and East of the kick-off point.

(4) That the applicant should constantly monitor the pitch and direction of the drainhole as it is being drilled, and

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ATLANTIC RICHFIELD COMPANY Blow Out Preventer Program

Lease 'Name Empire Abo Unit "K"

Well	No.	142	
		1 1 1	

Location 1700 FSL & 1400 FWL, Section 2, T18S, R27E

BOP to be tested before installed on well and will be maintained in good working condition during drilling. Al wellhead fittings to be of sufficient pressure to operate in a safe manner.



NEW MEXICO OIL CONSERVATION COMMISSION WELL OCATION AND ACREAGE DEDICATION LAT

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Form Course Supersedes Collab Utbective Course

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DISTRIBUTION		NEW MEXICO OIL CONSERVIETIEN CONERISION E D					Form C-101	
SANTA FE						R	evised 1-1-6	5
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OIL X GAS WELL) 0THE	R	~	ZONE X	MULTI	ONE	Empire	e Abo Unit "K"
2. Name of Operator ARCO O	il & Gas	Company	i V				Well No.	
Divisi	on of Atl	antic H	Richfield Comp	any		1		142
3. Address of Operator						1	0. Field on	d Pool, or Wildcat
P. O.	Box 1710,	Hobbs,	New Mexico	88240			Empire	e Abo
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		//////		6150'		Abo Ree:	f	Rotary
21. Elevations (Show whether DI	; RT, etc.)	21A. Kind	& Status Plug, Bond	21B. Drilling Cont	tractor		22. Approx	. Date Work will start
3523.4' GR		GCA #	#8	Hondo Dril	lling (Company		7-10-79
23.								
		Р	ROPOSED CASING AN	D CEMENT PROG	GRAM			
SIZE OF HOLE	SIZEOF	CASING	WEIGHT PER FOO	T SETTING D	EPTH	SACKS OF	CEMENT	EST. TOP
14-3/4"	10-3/4	OD	40.5# K-55	1000'		82	5	Circ to surf
9-1/2"	7-7/8'	OD	26.4# K-55	5600'		142	5	Circ to surf
· · · · · · · · · · · · · · · · · · ·	T							
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Propose to drill a	single 20	00' hor:	izontal drainh	ole in orde	er to m	ninimize	gas co	ning by dispers-
ing the pressure dr	op across	the p	roducing inter					
manner: order K	. 6644	6-26	-79	-		-	-	N'SL 990

N'SL 999

DRILLING COMMENCED,

- 1. Drill 6" hole 5600'-6150' TD. Run logs. Run orientation for kickoff.
- 2. Determine kickoff-point & ream 6" hole to 9-1/2" hole from 5600'-+25' above kickoff point. Directional surveys to be run thru out drainhole drilling.
- 3. DST to locate gas cap estimated @ 5750'.
- 4. Run 7-5/8" OD csg w/pkr shoe & cmt to surf.
- 5. Drill out DV tool & pkr shoe w/6-3/4" bit. Eun CBL.
- 6. Set whipstock & drill 4-3/4" drainhole using 12' radius @ point of departure from vertical APPROVAL VALID & continue to drill drainhole to 200'. FOR 90 DAYS UNLESS
- 7. Leave whipstock in well to use for future work on well.

Blowout preventer program attached.

ligned A	for LD Lane	_ Tüle	Dist. Drlg. Supt.	_ Date	5-8-79
	(This space for State Use) W. C. Aresset	TITLE	SUPERVISOR, DISTRICT II		JUL 2 1979
	APPROVAL, IF ANYI		Cement must be circulated to	_ DATE	

surface behind 10 74 casin