

RECEIVED
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ARTESIAN OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

NM 0501759

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Kurland "A" Federal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Avon Delaware BS

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

6-21S-27E

12. COUNTY OR PARISH
Eddy

13. STATE
NM

1. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. LEVEL ☐ Other ☐

2. NAME OF OPERATOR

ARCO Oil and Gas Company
Division of Atlantic Richfield Co.

3. ADDRESS OF OPERATOR

P.O. Box 1710, Hobbs, NM 88240

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

At surface 3009' FNL & 660' EWL

At sep prod. interval reported below as above

At total depth as above

14. PERMIT NO.

DATE ISSUED

15. DATE SPUNDED

8-29-84

16. DATE T.D. REACHED

9-18-84

17. DATE COMPL. (Ready to prod.)

11-3-84

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

3187.2' GR

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

5077'

21. PLUG, BACK T.D., MD & TVD

5034'

22. IS MULTIPLE COMPL. HOW MANY*

23. INTERVALS DRILLED BY
→

ROTARY TOOLS
0-5077'

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)*

4589-4580' Delaware

25. WAS DIRECTIONAL SURVEY MADE

NO

26. PIPE ELECTRIC AND OTHER LOGS RUN

GR-CNL/Lithoden/cal, EPT, GR-CCL

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
20"	Conductor Pipe	30'	26"	3 yds Redi-mix	
13 3/8" OD	54.5#	490'	17 1/2"	1300 sx & 38 yds Redi-mix	
8 5/8" OD	24#	2304'	11"	1850 sx	
5 1/2" OD	15.5 & 14#	5077'	7 7/8"	750 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SAC & CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2-7/8" OD	4553'	4553'

31. PERFORATION RECORD (Interval, size and number)

4881, 87, 95, 96, 97, 4902, 04, 05, 07 = 10-.48" holes
4635, 4636, 4640, 4641, 4642 = 10-.48" holes
4589, 85, 84, 83, 4580' = 10-.48" holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4881-4907'	2000 gals 15% NEFE/1000 SCF/bbl N ₂ fracd w/5000 gasl 30# gel'd 2% KCL wtr pad & 5000 gals 20% gel'd HCL NEFE acid/500 SCF/bbl N ₂ .

(Contd-see attached)

33. PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
11-3-84		Pumping 2 1/4" x 1 1/2" X 12' rod				Prod	
DATE OF TEST	HOURS TESTED	CHARGE SIZE	PERIOD FOR TEST PERIOD	OIL—BBL.	GAS—CUF.	WATER—BBL.	GAS-OIL RATIO
12-14-84	24	--	→	53	151	63	2849:1
FLOW TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—CUF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
24#	pkc	→	53	151	63	38.0°	

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

To be sold when permanent bttv is installed

35. LIST OF ATTACHMENTS

Logs as listed Item 26 above and Inclination Report.

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

SIGNED *E. J. ...*

TITLE *...*

DATE 12-20-84

*(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.)

27 SUMMARY OF FORMER ZONES

SHOW ALL INTERVAL ZONES OF PRODUCTIVITY AND CONTENTS THEREOF, CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION TESTED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	38. GEOLOGIC MARKERS		
				NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Cherry Canyon Bone Springs	2594' 4653'	

Form 9-330 Contd

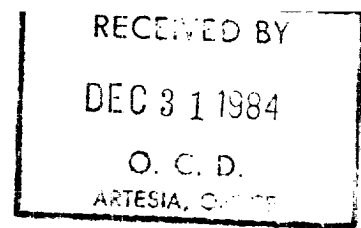
Kurland "A" Federal #1 NM 0501759

Sec. 6-21S-27E, Eddy Co., NM

Item 32 Acid, Shot, Fracture, Cement Squeeze, etc.

Depth Interval	Amount and Kind of Material Used
4635-4642'	1000 gals 15% NEFE, 3000 gasl 30# gelled 2% KCL & 3000 gals gelled 20% HCL NEFE flushed w/30 bbls non-gelled 2% KCL wtr.
4589-4580'	1500 gals 7½% NEFE acid flushed w/2% KCL wtr, frac w/75 Quality N ₂ foam & 21,000# 20/40 sd, liquid phase 60/40 2% KCL wtr to methanol.

DESERT DRILLING, INC.
P.O. Box 146
Hobbs, New Mexico 88240



WELL NAME AND NUMBER Cont. Arco - Kurland "A" Federal # 1

INCLINATION RECORD

<u>Depth</u>	<u>Deviation</u>
2791	3/4°
3081	2°
3231	3/4°
3480	3/4°
4042	3/4°
4672	1 3/4°
5077	1°

Signature Rhonda Cheatham

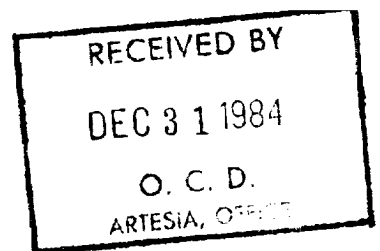
State of New Mexico
County of Lea

SWORN AND SUBSCRIBED TO BEFORE ME
BY Rhonda Cheatham

This 24 Day of September
19 84.

Sue Bennett
Notary Public 8/28/88

DESERT DRILLING, INC.
P.O. Box 146
Hobbs, New Mexico 88240



WELL NAME AND NUMBER Arco - Kurland "A" Federal # 1

INCLINATION RECORD

Depth	Deviation
270	$\frac{1}{2}^{\circ}$
504	1°
650	1°
845	$1 \frac{3}{4}^{\circ}$
1145	$2 \frac{3}{4}^{\circ}$
1244	$3 \frac{1}{2}^{\circ}$
1336	NP - 2 runs
1399	$3 \frac{3}{4}^{\circ}$
1490	$3 \frac{3}{4}^{\circ}$
1580	4°
1675	$4 \frac{1}{2}^{\circ}$
1790	$3 \frac{3}{4}^{\circ}$
1886	3°
1945	$2 \frac{1}{2}^{\circ}$
2043	$1 \frac{3}{4}^{\circ}$
2168	2°
2300	$1 \frac{3}{4}^{\circ}$
2571	$1 \frac{1}{2}^{\circ}$

Continued

Signature _____

State of New Mexico
County of Lea

SWORN AND SUBSCRIBED TO BEFORE ME
BY _____

This _____ Day of _____
19____.

Notary Public