

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE 30-039-22005
Budget Bureau No. 42-0355.5.

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla Contr. #111

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla

7. UNIT AGREEMENT NAME

Jicarilla

8. FARM OR LEASE NAME

Jicarilla

9. WELL NO.

101

10. FIELD AND POOL, OR WILDCAT

W. Lindrith Gallup-Dako

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

Sec. 5-24N-4W

12. COUNTY OR PARISH

Rio Arriba New Mexico

13. STATE

19. ELEV. CASINGHEAD

6781'

23. INTERVALS DRILLED BY

0 - 7522'

25. WAS DIRECTIONAL SURVEY MADE

No

27. WAS WELL CORED

No

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. PERFOR ☐ Other _____

2. NAME OF OPERATOR ARCO Oil and Gas Company, Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR

Suite 501, 1860 Lincoln St., Denver, Colo. 80295

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

At surface

750' FNL & 990' FEL Section 5 (NE NE) (Unit A)

At top prod. interval reported below

Approx. same

At total depth

API #30-039-22005

Approx. same

14. PERMIT NO

Mr. Barrick

DATE ISSUED

3-6-79

15. DATE SPUDDED

3/10/79

16. DATE T.D. REACHED

3/22/79

17. DATE COMPL (Ready to prod)

5/7/79

18. ELEVATIONS (DP, REB. PT. GR. ETC.)*

6781' GR: 6795' KB

20. TOTAL DEPTH, MD & TVD

7522'

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

7438'

22. IF MULTIPLE COMPL. HOW MANY*

1

23. INTERVALS DRILLED BY

ROTARY TOOLS

CABLE TOOLS

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

Dakota: 7281-65' & 7250-21'

Graneros: 7093-77'

26. TYPE ELECTRIC AND OTHER LOGS RUN

FDC/CNL/GR; DIL/SFL; CBL

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	333'	12-1/4"	300 sx (Circl. approx. 30 sx cement)	None
5-1/2"	15.5 & 17#	7522'	7-7/8"	600 sx (in 2 stages)	None

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2-3/8"	7074'	- - -

31. PERFORATION RECORD (Interval, size and number)

Graneros: 7190-91' w/2 jet shots/ft.

(4 holes). (Squeezed-see #32)-----

Graneros: 7093-77 w/1 jet shot/ft.,

(16 holes).

(Cont'd on reverse side)

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

DEPTH INTERVAL (MD) **	AMOUNT AND KIND OF MATERIAL USED
7190-91'	(Sgz'd 3l sx Cl "B" cmt into perfs; no cmt rev. out
(**)	Sptd. 300 gal. MCA acid to btm.

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
4-28-79		Pumping (Insert, 2"x1-1/4"x15 x11 x18 13H)				Producing	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
5-7-79	24 hrs.	---	→	41 BO	109 MCF	est. 60BW	2659:1
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
TP 100#	CP 100#	→	41 BOPD	109 MCFD	est. 60 BWB	est. 44°@60°F	

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

To be sold.

35. LIST OF ATTACHMENTS

2 each of #26 above; Daily Well History

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

SIGNED W. A. Walther, Jr. TITLE Operations Manager

DATE MAY 10 1979
OIL CON. COM. DIST. 3
DIST. 79.

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

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: "Secks 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.)

STANDARD OF VARIOUS TYPES OF CORES, SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS, AND ALL DUAL-STEM TESTS, INCLUDING DEPTH INTERVAL, TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURE, AND RECOVERIES

★ U.S. GOVERNMENT PRINTING OFFICE: 1974 - 780-680/V111-238

4/11/79	7435	PR - Prep to cont sub. 12 noon, FL @ 3200', CP 2500' subd 745 ft; 6 pm, FL 3200', CP 3000', subd 945 ft; 12 PM, FL 3600', CP 4000', subd 1145 ft; 6 am, FL 4000', CP 4500', subd 1350 ft. Gas flw 1/2 to 1 min after sub run. Production of oil on the str. 926 ft w/ yet to recover.
4/12/79	7436	PR - To cont sub. 12 noon, FL 3200', CP 2500' as foll: 12 noon, CP 5350', FL 4200', rec'd 1524 bls, tr oil; 6 pm, CP 5500', FL 4300', rec'd 1859 bls, tr oil; 12 PM, CP 5750', FL 4400', rec'd 1559 bls, tr oil; 6 am, CP 6000', FL 4500', rec'd 2045 bls, tr oil. 7 pm - 391 ft w/ yet to recover. Well will flw 15 min after sub pull.
4/13/79	7436	PR - Subg. Fin rod run parts 7251 ft, Bak flw, CP 650, FL 4500', total rec'd (est) 2110 bls. Loaded w/1. FL 4500', rev some gas & oil. POH w/ 2-3/8" tbg & ran Bkr CWP set @ 7170' & total 4500', OK. Perf Graneros zone 7093-7077' w/1 JSH - 16 bbl w/ 5000' w/1 5000' gals 150 BKA & frac as foll: 7150 gals pad, 32,600 gals slick wr, 39,000' 20/20 fresh sd & 7,000 gals flush. frac contained 27/1000 gals fl & 33/1000 gals oil. FC agent. Im brl do press 4000#, avg inj press 3500#, Box 10 4000#, a rate 20 BPM, 15IP 23500', 5 min 20200', 10 min 19300', 15 min 18500'. BKR used = 2452. St 1/4 hrs & bled off. Now GIB w/ 2-3/8" tbg.
4/14/79	7438	PR - Subg. Ran 2-3/8" FUE tbg to 7131' to ck fill then PU to 7093'. RU Xmas tree & RU sub. Strt sub 10 am 4/17/79. Graneros perms 7033-7077'. 12 noon, CP 07, FL @ surf; 6 pm, CP 1500', FL 3500'; 12 PM, CP 2000', FL 3200'; 6 am, 4/14, CP 4000', FL 4000'. Subd est 600 ft fld in 20 hrs. Total load was 1050 bls - left to recover 450 bls. Recovering frac fld w/ tr gas & oil.
4/15/79	7438	PR - Subg. 6 am CP 4500', FL 3-4500' w/ gas pockets. Subd est 520 bls w/ show of gas & green oil, 4-5. oil & passes 1-5 min after sub pull. Still subg frac wtr, although est 70 bls over recovered.
4/16/79	7438	PR - Prep to cont sub. 12 noon, CP 4750', FL 4200'; 6 pm, CP 5000', FL 4200'; 12 PM, CP 5750', FL 5000'; 6 am, CP 6500', FL 5000'. Subd est 200 bls, 50 oil, gas flw 5-10 min after sub pull.
4/17/79	7438	PR - Prep to B2 PR. Subd & fld Graneros zone f/24 hrs. Subd est total of 144 bl, est 5% oil. At 6 am 4/17, CP 1500', FL 6900'. Well fld f/4 am to 5 am, unloaded. CP dropped f/5500' to 1500'. Well died.
4/18/79	7438	PR - Prep to set anchor & install Xmas tree. Bled press off well. Removed Xmas tree. POH w/ 2-3/8" tbg. RTH w/bit & jk hskt to 7130'. Circ out considerable amt gas & oil. CO to GIB @ 7170'. PO & chase BP to 7435'. Circ out clean. POH w/tbg & bit. Now RTH w/ 2-3/8" tbg 4.7# R-55 8rd Rg 2 tbg. Ran 1 jt of 2-3/8" tbg, 1 - 5-1/2" bkr tbg anchor catcher, 1 API SN, 226 jts FUE tbg. Ran total of 227 jts (7061.91'), tbg anchor catcher 2.50', total tbg 7064.41'. RKB to GL 10'. Tbg will be landed @ 7074' B2.
4/19/79	7438	PR - MD pump unit installation. Fin rod tbg. Set Bkr tbg anchor catcher w/2000' pull. Instl'd xmas tree. Rel compl rig 10 a.m. 4/18/79.
4/20/79	7438	PR - MD pump unit installation.
4/21-24/79	7438	PR - MD pump unit installation.
4/25/79	7438	PR - Prep to install pump unit.
4/26/79	7438	PR - Prep to run pap & rods. Assembled Lufkin #228 pump unit. RI & RU Flint rig unit.
4/27/79	7438	PR - Prep to run 7/8" rods & strl well to pump. Chg'd top flange on tbg head. Instl'd Kation red PEP. Ran 102 3/4" Grade B new Morris rods. SBOL.
4/28/79	7438	PR - Pump. Fin rod rods (total string 7021') & 2" x 1-1/4" x 15 x 11 x 12 BH du insert pap. Began pump 5 pm 4/27/79, 8 SPH, 94" stroke. In 24 hrs pumpd some gas & large amt of wtr @ 5-10.
4/29/79	7438	PR - Cont pump. P, 1 3/4 10 In 24 hrs. Wtr not gauged - pumpd to separator & then to pit.
4/30/79	7438	PR - P.T. - Pump 4/30 In 24 hrs.
5/1/79	7438	PR - P.T. - Pump 5/1 In 24 hrs. 100 BCF on 24 hr est. Temp 8 SPH, 96" stroke, 1 1/2" tbg, 1 1/2" tbg.
5/2/79	7438	PR - P.T. - Pump 5/2 In 24 hrs.
5/3/79	7438	PR - P.T. - Pump 5/3 In 24 hrs. 100 BCF on 24 hr est. Temp 8 SPH, 96" stroke, 1 1/2" tbg, 1 1/2" tbg.
5/4/79	7438	PR - P.T. - Pump 5/4 In 24 hrs.
5/5/79	7438	PR - P.T. - Pump 5/5 In 24 hrs.
5/6/79	7438	PR - P.T. - Pump 5/6 In 24 hrs.
5/7/79	7438	PR - P.T. - Pump 5/7 In 24 hrs.
5/8/79	7438	PR - P.T. - Pump 5/8 In 24 hrs.

3/11/79 349 Vsg. Spd 12-1/4" hole @ 9 p.m. 3/10/79. Rld to 340'. RU & ran 7 jts (319') 8-5/32" OD 2 1/2" ID, set @ 345' RAB, cont w/300 sx CI "P" & 2% CaCl₂ @ 1/4" FluoGel/sx. 10 @ 286'. Ran GS & 10, cont @ 286', 196', 107' & 62'. Plug did not drop, fine cut, Cont. 3/11. Circ 39 sx cut & floats held OK. 1/4" @ 340'. 75 RPM, all cut. Spd 12-1/4", HIC, GSCID, made 340' in 5-1/2 hrs.

3/12/79 1130 Drig 50'/hr. Inst'd w/dlg. 1, 2nd 1-2, press 1st esg to 1000# 1/15 min, hold OK. 80 @ 6 p.m. 3/11/79.

3/13/79 2171 Drig 45'/hr. 1/2" @ 144', 3/4" @ 1390'. 60 RPM, 20M. Mud: 8.6%, vis 33, WL 9.2, H: 9, oil 2.5%. F-2, 7-7/8", Sm., F-45, made 1050' in 18 hrs. (B#3) 544,360

3/14/79 3050 Drig 45'/hr. 3/4" @ 260' & 2 1/2" @ 260'. 64 RPM, 30M. Mud: 8.5%, vis 35, WL 5, H: 10, oil 8%. L-43, 7-7/8", Sm., F-45, made 1100' in 22-1/2 hrs. (B#4).

3/15/79 3700 Drig 33'/hr. 5d w/dlg. 1st time hole in trip back in @ 3565'. Ash'd to bit & read 1 dls. 1/2" @ 3570'. 50 RPM, 40M. Mud: 8.6%, vis 34, WL 6, oil 8%. L-43, 7-7/8", Sm., F-45, made 1170' in 22 hrs. (B#5).

3/16/79 4336 Drig 28'/hr. 5d w/dlg. 1/2" @ 3570'. 50 RPM, 40M. Mud: 8.8%, vis 36, WL 6, H: 6, oil 11%. (B#6)

3/17/79 4500 Drig 15'/hr. 5d w/dlg. 1/2" @ 4370'. 50 RPM, 40M. Mud: 8.7%, vis 33, WL 8.0, oil 7%. (B#7)

3/18/79 5435 Drig 12'/hr. 5d w/dlg. 1/2" @ 5120'. 50 RPM, 40M. Mud: 8.8%, vis 44, WL 6, oil 9%. (B#8)

3/19/79 5570 Drig 15'/hr. 5d w/dlg. 50 RPM, 40M. Mud: 8.7%, vis 36, WL 8, oil 9%. B#5, 7-7/8", Sm., F-45, made 2210' in 59 hrs. (B#6). 3/4" @ 5813'.

3/20/79 6465 Drig 20'/hr. 3/4" @ 6347'. 50 RPM, 40M. Mud: 8.0%, vis 38, WL 8, oil 10%. (B#6).

3/21/79 7035 Drig @ 15'/hr. 3/4" @ 6359'. 50 RPM, 40M. Mud: 8.7%, vis 36, WL 8, oil 8.5%. (B#6).

3/22/79 7265 Drig 14'/hr. 5d w/dlg. 1/2" @ 7275'. 50 RPM, 40M. Mud: 8.7%, vis 37, WL 6.5, oil 7.5%. L-6, 7-7/8", Sm., F-2, made 1202' in 52 hrs. (B#7).

3/23/79 7522 TD - POH w/PP & FCS, prep to run logs. TD hole @ 7522' @ 11 p.m. 3/22/79. 58 RPM, 40M. Mud: 8.9%, vis 58, WL 6, oil 10%. B#7, 7-7/8", Sm., F-45, made 447' in 31-3/4 hrs.

3/24/79 7522 TD - Rug 5-1/2" esg. POH w/drig assembly & Sch ran IES sonde to 7522'. Exper'd malfunction & POH w/sonde. Ran CRF-FDC to bridge @ 7433' & logged selected intervals 1/7433-2500'. Ran ILS 1/7428-340'. Made trip to cond mud f/esg, finding 3' fill on bit. LD drig assembly & strtd in hole w/ 5-1/2" esg. Mud: 8.9, vis 58, WL 6, oil 10%.

3/25/79 7522 TD - HORT. Ran 192 jts 5-1/2" 15.5# & 17# K-55 STAC esg (7524') set @ 7522', w/DV tool @ 4170', 10 @ 7475'. Cont 1st stage w/500 gals mud flush foll w/250 sx Poz 50/50 cut w/4% gel, 6.5% gilsonite/sx, 3/4% CR-2, & 1/2% BR-4, foll by 150 sx neat cut. Circ'd thru DV tool 1/4 hrs & cont 2nd stage w/500 gals mud flush foll by 100 sx 50/50 Poz cut w/same additives as above, foll w/100 sx neat cut. PD 5:45 p.m. 3/24/79 w/gd returns. Held OK. Rang esg w/1100#. Removed BOP & RR 8:00 p.m. 3/24/79.

3/26/79 7522 TD - No completion.

3/27-4/5/79 7522 TD - No completion.

4/6/79 7522 TD - Prep to POH w/OBL. RI & PD Artec Well Serv rig. Inst'd w/dlg & POP equip. Reas & PD 2-3/4" ID. Then, Rld w/ 4-3/4" bit & esg scraper. Rld DV tool @ 4170', tagged 100' @ 7530' (this seal). Circ'd out clean.

4/11/79 7430 RD - This pt. to bit & scraper. Rld 104 w/bit & scraper. RU D-A & ran cut bond GR ch control log w/2nd esg @ 4250-340' (ARFD 7427'). Tstd esg @ BOP to 340', 100' @ 4250' & 4250-340' w/4 holes. MHA w/RTS phr, set @ 7416'. Press to 4250' & 4250-340' & bleed to 2800' in 2 min & holds.

4/13/79 7430 RD - 1st stage esg, 100' @ 4250' & 4250-340' & bleed to 2800' in 2 min & holds. Spd 12-1/4" hole @ 9 p.m. 3/10/79. Rld to 340'. RU & ran 7 jts (319') 8-5/32" OD 2 1/2" ID, set @ 345' RAB, cont w/300 sx CI "P" & 2% CaCl₂ @ 1/4" FluoGel/sx. 10 @ 286'. Ran GS & 10, cont @ 286', 196', 107' & 62'. Plug did not drop, fine cut, Cont. 3/11. Circ 39 sx cut & floats held OK. 1/4" @ 340'. 75 RPM, all cut. Spd 12-1/4", HIC, GSCID, made 340' in 5-1/2 hrs.

4/20/79 7430 RD - 2nd stage esg, 100' @ 4250' & 4250-340' & bleed to 2800' in 2 min & holds. Spd 12-1/4" hole @ 9 p.m. 3/10/79. Rld to 340'. RU & ran 7 jts (319') 8-5/32" OD 2 1/2" ID, set @ 345' RAB, cont w/300 sx CI "P" & 2% CaCl₂ @ 1/4" FluoGel/sx. 10 @ 286'. Ran GS & 10, cont @ 286', 196', 107' & 62'. Plug did not drop, fine cut, Cont. 3/11. Circ 39 sx cut & floats held OK. 1/4" @ 340'. 75 RPM, all cut. Spd 12-1/4", HIC, GSCID, made 340' in 5-1/2 hrs.

4/21/79 7430 RD - 3rd stage esg, 100' @ 4250' & 4250-340' & bleed to 2800' in 2 min & holds. Spd 12-1/4" hole @ 9 p.m. 3/10/79. Rld to 340'. RU & ran 7 jts (319') 8-5/32" OD 2 1/2" ID, set @ 345' RAB, cont w/300 sx CI "P" & 2% CaCl₂ @ 1/4" FluoGel/sx. 10 @ 286'. Ran GS & 10, cont @ 286', 196', 107' & 62'. Plug did not drop, fine cut, Cont. 3/11. Circ 39 sx cut & floats held OK. 1/4" @ 340'. 75 RPM, all cut. Spd 12-1/4", HIC, GSCID, made 340' in 5-1/2 hrs.