

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

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DISTRIBUTION	
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FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate Type of Lease State <input checked="" type="checkbox"/> Fee <input type="checkbox"/>	
5. State Oil & Gas Lease No. E 29137	
7. Unit Agreement Name Canyon Largo Unit	
8. Farm or Lease Name Canyon Largo Unit	
9. Well No. 327	
10. Field and Pool, or Wildcat Devils Fork Gallup Ext A.	
12. County Rio Arriba	

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 -" (FORM C-101) FOR SUCH PROPOSALS.)

OIL WELL <input checked="" type="checkbox"/>	GAS WELL <input type="checkbox"/>	OTHER-
Name of Operator Arrion Oil & Gas Corporation		
Address of Operator O. Box 1017, Farmington, New Mexico 87499		
Location of Well UNIT LETTER <u>O</u> <u>790</u> FEET FROM THE <u>South</u> LINE AND <u>1850</u> FEET FROM THE <u>East</u> LINE, SECTION <u>32</u> TOWNSHIP <u>25N</u> RANGE <u>6W</u> NMPM.		

15. Elevation (Show whether DF, RT, GR, etc.)
6486' GL

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF:

FORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
WELL OR ALTER CASING <input type="checkbox"/>	OTHER <input type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <u>Well history attached</u> <input checked="" type="checkbox"/>

Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

First production: 1/6/84
Well history attached.

RECEIVED
JAN 12 1984
OIL CONSERVATION DIVISION

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

BY [Signature] TITLE Operations Manager DATE 1/11/84

APPROVED BY Original Signed by FRANK T. CHAVEZ TITLE SUPERVISOR DISTRICT # 3 DATE JAN 12 1984

CONDITIONS OF APPROVAL, IF ANY:

MERRION OIL & GAS CORPORATION

CANYON LARGO UNIT 327

Sec. 32, T25N, R6W

Rio Arriba Co., New Mexico

- 9/7/83 Move in, rig up Young Rig No. 2. TD 1250. Current operation drilling. Survey: 1/2° @ 220' KB. Ran 5 joints, 200 ft., of 8-5/8" surface casing @ 220' KB with 170 sx (350 cu. ft.) Class B 2% CaCl. Circulated 3 Bbls to surface.
- 9/8/83 TD 2895. Current operation: tripping for bit no. 4. Mud wt. 9.1, Vis. 38. Water Loss 6. Survey: 2895' - 1°.
- 9/9/83 TD 3586. Current operation: drilling. Mud wt. 9.1, Vis. 36, Water Loss 5. Survey: 2895' - 1°.
- 9/10/83 TD 4028. Current operation drilling. Survey: 4020' - 3/4°. Mud wt. 9.1, Vis. 38, Water Loss 6.
- 9/11/83 TD 4627. Current operation drilling. Mud wt. 9.1, Vis. 37, Water Loss 6.
- 9/12/83 TD 5182. Current operation drilling. Mud wt. 9.1, Vis. 38, Water Loss 6.
- 9/13/83 TD 5584. Current operation drilling. Mud wt. 9.1, Vis. 36, Water Loss 6. Survey: 5310' - 3/4°.
- 9/14/83 TD 6014'. Current operation drilling. Mud wt. 9.1, Vis. 36, Water Loss 6.
- 9/15/83 - TD @ 6084'. Condition mud for logs. Trip out. Rig up Welex. Ran induction log. Log stopped @ 900' KB. Trip in with drillpipe to 2500" KB. Circulated to clean up. Trip out. Log went to bottom. Loggers TD @ 6092' KB. Ran IES induction and compensated density logs. Rig down loggers. Trip in hole with drillpipe.
- 9/16/83 - Lay down drillpipe. Rig up to run casing. Ran new Alesio 4-1/2" 10.5#/ft. J-55 ERW ST&C 8rd R-3 casing white band. Hydrotested to 4400 PSI (details on tomorrow's report). Circulated to thin mud back. Rig up Dowell. Cemented first stage with 225 sx Class "H" 2% gel, yield 1.22 cu. ft./sx (275 cu. ft.) displaced with 18 bbls. water, 78 bbls. mud. Plug down @ 7:30 P.M. Good circulation. Dropped bomb. Opened stage tool. Circulated for 3 hours between stages. Cemented second stage with 700 sx Class "B" 2% D-79, yield 2.06 cu. ft./sx (1,442 cu. ft.), tail-in with 100 sx Class "H" 2% gel, yield 1.22 cu. ft./sx (122 cu. ft.). Displaced with 77 bbls. water. Plug down @ 12:30 A.M. Good circulation throughout. Plug held good. Landed and cut off, preparing to move.
- 9/17/83 Long String Casing recap:
 Drillers TD 6084' KB.
 Loggers TD 6092' KB
 Casing TD 6090' KB.

(SSD)

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Item	Length	Depth, KB
Guideshoe	.80'	6090'
Shoe Joint (#1)	42.18'	
Float Collar	1.72'	6045.30' PBDT
28 joints 4.5", 10.5 #/ft casing (#2 - #29.)	1181.53'	
Stage Tool	1.74'	4862.03'
116 joints 4.5" 10.5 #/ft casing	4891.68'	29.65' above
Casing on bottom. Circulated last joint down and circulated to lower mud viscosity to 55 - 60 sec. viscosity. Cemented casing in 2 stages.		
9/20/83 Top of cement 500' by Wilson Service Temperature Survey.		

MERRION OIL & GAS CORPORATION

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Rio Arriba Co., New Mexico

11/12/83 Move in, rig up Star W. Well Service. Rigged up to pull on casing to move casing collar out of the slips. Pulled 75,000 Lbs on casing. Could not move. Started pulling surface casing. Shut down over weekend.

11/15/83 Dig out Bradenhead. Collapse 8-5/8" casing. Back off 4-1/2" with Bradenhead attached. Cut 4-1/2" out of Bradenhead. Weld 8-5/8" stub on. Install new 4-1/2" top on casing string. Pull 50,000 + on new bell nipple. Nipple up.

11/16/83 Trip in hole with 3-7/8" bit and casing scraper on 2-3/8" tubing. Tagged stage tool @ 4861' KB. Loaded the hole with water and pressure tested. Started pumping into something @ 2500 PSI, 1/2 BPM. Trip out of hole with tubing, bit and scraper. Rigged up Pengo Wireline Service and ran Collar Log from 1000' KB to surface. Did not detect any bad collars. Pumped down casing with Bradenhead open. Circulating @ 2100 PSI, 1/2 BPM. No ISIP. Ran tension packer and located leak in collar just under the slips in the Bradenhead. Shut down overnight.

11/17/83 Picked up 4.5" lift sub and pull 4.5" casing out of slips. Took off 2' sub with bell nipple on top. Could not see any problem with 4-1/2" pin on 1st joint of casing. Change collar and tighten sub with tongs. Set casing in slips. Nipple up and pressure tested. Did not hold. Ran Model A packer upside down and set @ 200' KB. Backed off casing @ 183' KB. Pulled tubing and packer. Pulled 4 joint of casing. Came out of the hole with pin on bottom. Doped pin and ran casing back in the hole. Found pin hole in 1st joint. Looked like a torch pit. Replaced top joint with 1 joint 4.5", 10.5 #/ft, J-55, ST&C Hyundai, 40.23". Screwed back into collar @ 183' KB. Torqued up casing string. Had an old cut-off piece from Salazar 23-1. Used to screw into casing and welded new bell nipple on top. Nippled up. Pressure tested to 4000 PSI. Held 5 minutes. Bled pressure off and shut down overnight.

11/18/83 Trip in hole with 3-7/8" bit and scraper. Tag stage tool @ 4861' KB and drill out. Pressure test to 4000 PSI, OK. Clean out to 6021' KB. Bit quit drilling. Circulated clean, trip out. Rig up Pengo Wireline and ran Gamma Ray Correlation Log from 6021' KB to 4800' KB. Perforated Gallup with select fire gun .340" holes as follows:
5514, 5522, 5530, 5541, 5566, 5580, 5600, 5602, 5604, 5606,
5651, 5653, 5678, 5684, 5696, 5707, 5758, 5775, 5799, 5815,
5817. Total 21 holes per Induction Log. Shut down overnight.

11/19/83 Trip in hole with Baker straddle tools on 2-3/8" tubing to 5820' KB. Western rolled the hole with 10 Bbl gel plug. Loaded the hole with lease oil, 1 gal/1000 Aquaflow and spotted 250 gal. 15% HCL across perfs. Breakdown perfs as follows per Correlation Log:

2 holes, 5817 and 19' KB, pump in @ 2100 PSI, ISIP 1500 PSI.

1 hole, 5801' KB, pump in @ 2200 PSI, ISIP 1250 PSI.

1 hole, 5777' KB, pump in @ 2300 PSI, ISIP 1250 PSI.

1 hole, 5760' KB, pump in @ 2300 PSI, ISIP 1300 PSI.

1 hole, 5708' KB, pump in @ 2400 PSI, ISIP 1200 PSI.

1 hole, 5697' KB, pump in @ 2600 PSI, ISIP 1200 PSI.

1 hole, 5685' KB, pump in @ 2400 PSI, No ISIP, Communicated

1 hole, 5679' KB, pump in @ 2500 PSI, ISIP 1200 PSI.

2 holes, 5652 & 5654' KB, pumped in @ 2750 PSI, ISIP 1800 PSI.

CANYON LARGO UNIT 327

c. 32, T25N, R6W

Rio Arriba Co., New Mexico

Set bottom packer @ 5535' KB. Broke down 3 holes, 5515, 5524, & 5532' KB, down casing. Pumped in @ 2200 PSI. ISIP 1200 PSI. Tripped out of hole with 2-3/8" tubing and straddle tools. Rig up Western Co. to frac.

Frac Gallup with Western Co. Maxi-0-74 gelled oil, 1 gal/1000 Aquaflo, 25#/1000 Aquaseal, 25 #/1000 breaker.

Frac Gallup with 1298 Bbls gelled oil, 170,000 lbs. 20/40 sand and flush with 88 Bbls gelled oil.

10,655 Gal.	Gelled oil pad
4,098 Gal	.61 #/gal. sand
4,098 Gal.	1.22 #/gal. sand
8,196 Gal.	2.44 #/gal. sand
8,196 Gal.	3.66 #/gal. sand
12,295 Gal.	4.27 #/gal. sand
12,295 Gal.	4.88 #/gal. sand

Average treating pressure - 1800 PSI.

Average Rate - 24.5 BPM. ISIP 1300 PSI.

Shut in - after 15 minutes - 1000 PSI.

Found Western rate was wrong - did not pump enough oil.

Daily est. cost: \$54,265.00. Cum. est. cost: \$61,270.00. (CCM)

11/20/83 83 Bbbls oil. Dead.

11/21/83 Well made 28 Bbls overnight. Dead in AM.

11/22/83 Check sand fill with depthometer on sandline. Found sand fill @ 3950' KB. Ran 2-3/8" tubing. Tagged sand @ 3850' KB. Cleaned out to 4668' KB, reverse circulating. Pulled 5 stands. Shut down overnight. Shut well in. Oil very gelled.

11/23/83 Trip in hole with 5 stands. Reverse circulate sand out from 4668' KB to 5890' KB. 1212' of sand. Left 73' of rat hole. Pulled up and landed tubing @ 5515.78' KB. Left 175 joints new 2-3/8" tubing, 5503.78', of pipe with saw-tooth collar on bottom, seating nipple 1 joint off bottom. Shut down overnight.

11/24/83 Made 12 runs. Swabbed 70 Bbls oil and well started flowing.

11/25/83 Well flowing through 3/4" adjustable flow choke. Made 105 Bbls oil. Tubing 75 PSI. Casing 500 PSI.

11/26/83 159 Bbls oil. Tubing 25 PSI. Casing 500 PSI.

11/27/83 120 Bbls oil. Tubing 25 PSI. Casing 500 PSI.

11/28/83 No fluid. Tubing 0 PSI. Casing 500 PSI.

11/29/83 Tubing dead. 400 PSI on casing. Flowline froze off. Unplugged line and swabbed. Fluid @ 400' KB. Made total of 16 runs. 1st 5 runs - all oil. Next 3 runs - all water. 3 runs - 50% water, 50% oil. Last 5 runs - swabbed 37 Bbls of water. Fluid level @ 2000' KB. Total fluid swabbed 133 Bbls. Casing 100 PSI. Blew casing down and tripped out of hole with 2-3/8" tubing, saw-tooth collar on bottom, seating nipple 1 joint off bottom. Shut down overnight.

11/30/83 Trip in hole with Model C Bridge Plug and Model R Packer on 2-3/8" tubing, tallying tubing in the hole. Set bridge plug @ 5500' KB. Set packer @ 5470' KB. Pressure test casing pumping in @ 1700 PSI. ISIP 1250 PSI. Pressure test bridge plug to 4000 PSI. Held good. Tested down casing every 30 joints out of the hole until 1700' KB. Trip out of hole with Model R packer. Trip in hole with tension packer. Found hole in casing between 1429' KB and 1434' KB. Trip out of hole with 2-3/8" tubing and tension packer. Shut down overnight.

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Sec. 32, T25N, R6W

Rio Arriba Co., New Mexico

12/1/83

Trip in hole with bridge plug retrieving head and 2-3/8" tubing. Caught bridge plug @ 5500' KB and pulled up to set @ 1500' KB. Pull tubing above hole and swab 45 Bbls of water. Fluid staying @ 400' KB. Trip out of hole with tubing and retrieving head. Trhip in hole with 2-3/8" tubing open ended to 1439' KB. Hole in casing @ 1430' KB. Rigged up Western Co. to cement. Shut backside in, established injection rate of 1.5 BPM @ 1200 PSI. Opened casing and spotted 50 sx Class H cement with 1% CaCl from 1439' to 853' KB. Pulled tubing to 867' KB and reverse circulated tubing clean. Got 1 Bbl of good cement back. Squeeze down casing with 4 Bbls. Started pumping tubing up @ 1500 PSI. Bled pressure off slowly and pulled tubing. Pump down casing again. Pump back up to 1450 PSI with same 5 Bbls displacement. Shut down 15 minutes. Pressure 1350 PSI. Pump 1/2 Bbl @ 1450 PSI. Shut down 15 minutes. Pressure 1350 PSI. Pump 1/2 Bbl @ 1450 PSI. Shut down 30 minutes. Pressure 1300 PSI. Pump 1/2 Bbl 1450 PSI. Shut down 30 minutes. Pressure 1300 PSI. Pump 1/2 Bbl @ 1450 PSI. SHut well in with 1350 PSI overnight. Shut down overnight.

12/2/83

Trip in hole with 3-7/8" bit and scraper on 2-3/8" tubing. Tagged cement @ 1286' KB. Circulated soft cement out to 1439' KB. Trip out of hole with tubing, bit and scraper. Trip in hole with bridge plug retrieving head on 2-3/8" tubing. Caught bridge plug @ 1500' KB and lowered to 1532' KB. Trip out of hole with 2-3/8" tubing. Poured 10 gal. sand on top of Model C bridge plug. Trip in hole with 2-3/8" tubing open ended to 1439' KB. Hole in casing @ 1430' KB. Rigged up Dowell Cement (John Huffman) and established circulation. Mix and spot 50 sx Class H cement with 2% CaCl. Pull tubing to 867' KB and reversed tubing clean. Got a trace of cement back. Trip out of hole with 2-3/8" tubing. Shut and lock rams. Squeeze down casing. Displace 4.5 Bbls water down casing @ 2000 PSI. Very low rate - approximately 1/8 BPM. Shut in 30 minutes. Pressure @ 1800 PSI. Pump down casing again - not moving any fluid. Pressured up to 3000 PSI with less than 1/8 Bbl, hold 3000 PSI for 10 minutes. Bled pressure back to 1500 PSI and shut well in. Shut down overnight. Shut down waiting on cement through Friday.

12/3/83

Shut down, waiting on cement.

12/4/83

Trip in with 3-7/8" bit and casing scraper. Tagged cement @ 1254' KB. Drilled out firm cement. Fell through @ 1441' KB. Circulated clean. Pressure tested. Broke down, pumped in @ 1875 PSI, ISDP 1650. Trip out. Preparing to re-squeeze. Shut down over weekend.

12/5/83

Shut down.

12/6/83

Dowell and rig crew arrived on location. Found a pickup and 3 people on location. Pickup loaded with power tongs, air slips, rental elevators and assorted fittings from rig dog-house. Called highway patrol and two people started walking towards the highway. Police picked them up and came to the rig and picked up the other person. Getaway vehicle would not run. Fixed rig and tripped in hole with 2-3/8" tubing to 1441' KB. Hole in casing @ 1430' KB. Rig up Dowell, mix and spot 50 sx Class H cement with 0.6% fluid loss additive and 2% CaCl. Pulled tubing to 867' KB and reversed tubing clean. Got approximately 1/8 Bbl. cement back. Trip out of hole with 2-3/8" tubing and squeezed down the casing. Squeezed 6 Bbls away @ a very low rate. Had to get pressure to 3300 PSI to move cement. Got a break of 1400 - 1600 PSI. Shut down 5 minutes. Pressure @ 1250 PSI. Pumped 1/4 Bbl @ 1600 PSI. Shut down 30 minutes. Pressure @ 1300 PSI. Pump 1/4 Bbl to 2000 PSI. Shut down 15 minutes. Pressure @ 1800 PSI. Pump 1/4 Bbl, prssure broke to 1200 PSI. Shut in 30 minutes. Pump 1/4 Bbl to 2200 PSI. Held pressure 10 minutes holding @ 2200 PSI. Release pressure to 1500 PSI and shut well in. Shut down overnight.

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12/1/83 Shut down - waiting on cement.

12/8/83 Trip in hole with 3-7/8" bit and casing scraper. Tagged cement @ 1310' KB. Drilled fairly hard cement to 1440' KB. Trip out of hole with tubing, scraper and bit. Pressure test to 2000 PSI. Pressure bled to 1750 PSI in 5 minutes. Pressure tested again to 2000 PSI. Pressure bled to 1650 PSI in 5 minutes. Trip in hole with tubing open ended to 1430' KB to swab test. Shut down overnight.

12/9/83 Tubing @ 1430' KB. Bridge plug @ 1532' KB. Swab well down in 12 runs. 19 Bbls. Wait 30 minutes. Made 2 more runs, both dry. Retrieving head on bottom. Trip in, tag cement @ 1507' KB. Could not break through with retrieving head. Trip out of hole with tubing, seating nipple and retrieving head. Trip in hole with bit and scraper. Drill 15' of cement and clean out 10' of sand to bridge plug. Trip out of hole with tubing, bit and scraper. Trip in hole with tubing and retrieving head. Circulate with oil. Pull plug. Well went on vacuum. Trip out of hole with tubing, retrieving head and bridge plug. Shut down overnight.

12/10/83 Trip in hole with 2-3/8" EUE tubing with saw-tooth collar on bottom, seating nipple 1 joint off bottom. Tagged sand @ 5750' KB. Clean out sand to 5957' KB. Pull to hang off tubing @ 5515.78' KB, 175 joints new 2-3/8" EUE 4.7 #/ft. tubing. Shut well in. Shut down overnight.

12/11/83 Swab tubing. Initial fluid level @ surface. Swabbed 20 runs. Made 105 Bbls oil. Tubing gassing. Casing slight blow. Shut down overnight.

12/12/83 Well made 26 Bbls oil overnight. Tubing 25 PSI, Casing 180 PSI.

12/13/83 31 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 160 PSIG.

Turned over to Production Department.

12/14/83 31 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 160 PSIG.

12/15/83 33 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 420 PSIG.

12/16/83 33 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 400 PSIG. Load oil unavailable - currently draining water off tanks.

12/17/83 35 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 400 PSIG. Treating tanks.

12/18/83 35 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 400 PSIG. Treating tanks.

12/19/83 30 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 400 PSIG. Load oil unavailable - treating tanks.

12/20/83 28 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 400 PSIG. Load oil unavailable. Still treating tanks.

12/21/83 47 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 400 PSIG. Load oil unavailable - still treating tanks.

12/22/83 35 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 400 PSIG.

12/23/83 40 Bbls oil. Venting gas. Tubing 25 PSIG. Casing 500 PSIG. Load oil unavailable - still treating tanks.

12/24/83 57 Bbls oil. Venting gas. Tubing 100 PSIG. Casing 300 PSIG. 106 MCF.

12/25/83 30 Bbls oil. Venting gas. Tubing 50 PSIG. Casing 400 PSIG.

12/26/83 46 Bbls oil. Venting gas. Tubing 50 PSIG. Casing 350 PSIG.

12/27/83 50 Bbls oil. Venting gas. Tubing 50 PSIG. Casing 300 PSIG. 448 Bbls load oil to recover.

12/28/83 40 Bbls oil. Venting gas. Tubing 50 PSIG. Casing 300 PSIG. 408 Bbls load oil to recover.