

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SPRINT IN TRIPPLICATE*
Vertical instruction on re-

Form approved by
Budget Bureau
DESIGNATION
604-100
MAN, ALLO

SURFACE NOTICES AND REPORTS C

(Do not use this form for a well which is being plugged or abandoned. Use Form 1000 for such purposes.)

AS
WELL

TOR

& Gas Company

OPERATOR

Lower 570, Farmington, New Mexico

WELL (Report location clearly and in accordance with any State requirements.*
17 below.)

1830 FSL & 360 FEL, Section 14-32N-15W

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

UNITED STATES

5. FILL IN LEAD

6. FILL IN C

7. FILL IN NO.

12

12. FILL IN NO.

11. FILL IN NO.

11. FILL IN NO.
SURVEY OR

Section 1

12. COUNTY OR PA

San Juan

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDON

(Note: Report results of completion of work, and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If work is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and points of work.) *

(SEE ATTACHED REPORT)



18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE District Superintendent

DATE April

(This space for Federal or State office use)

APPROVED BY

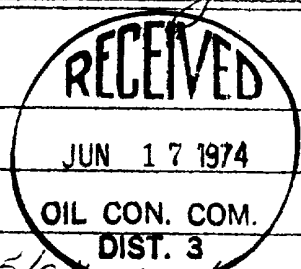
TITLE

DATE

COMMENTS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

10-17-69	10-17-69	10-20-69	Middle Canyon #2
10-17-69	10-17-69	10-20-69	Well Name & Number
10-17-69	10-17-69	10-20-69	1830 FSL & 220 FEL, Sec. 14-
10-17-69	10-17-69	10-20-69	Location
10-17-69	10-17-69	10-20-69	Sakota 228962
10-17-69	10-17-69	10-20-69	Type completion
10-17-69	10-17-69	10-20-69	14-20-204-5546
10-17-69	10-17-69	10-20-69	Federal, State, or Fee Lease
10-17-69	10-17-69	10-20-69	Rapahok Rig #2
10-17-69	10-17-69	10-20-69	Contractor & Rig Number
10-17-69	10-17-69	10-20-69	San Juan County



10-16-69 Building Location

10-17-69 Making Location

10-18-69 Rig up rig

10-19-69 Rig up & spud. Ran 5 jts 9 5/8" bit at 170' cont w/ 100' dx. Rig & 2 1/2" cc. Plug down 10:00 PM, 10-18-69. WOC. Dev 2 1/2" @ 180'

10-20-69 (rig) 7 7/8" hole to 945'. Dev 1 1/2" @ 945'. Mud up. Came out. Picked up core barrel. (Core) core #1 @ 964'

10-21-69 (rig) at 1790. Dev 1350 - 1 1/2". Kid 40 wt 9.2 W.L. 8.5. Core #1 - (945-972) REC 25 1/2 ft.

945-950-5' Black carb sh w/ coal stringers

950-963-13' SS gray-brn v/arg v/fine. lng - reddish or stain

963-965-2' Blk carb sh TR SS (fragments)

965-968-3' SS gray-brn v/arg v/fine

968-969-1' Sh Blk carb

969-70 1/2 - 1 1/2 SS gray-brn v/fine - lng v/arg

10-22-69 (rig) at 2428' Kid 45 wt 9.5

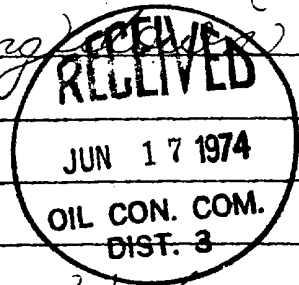
10-23-69 Trip for bit #5. Depth 2900'. Kid 45 wt 9.3 Dev 2590' @ 1 1/2"

10-24-69 (rig) to 3230'. Kid 58 wt 9.7 Trip for core barrel. (ring) at 3245'

10-25-69 Core #2 3230-3289. (ring) on REC #3 at 3245' Kid 55 wt 9.4 W.L. 6.4.

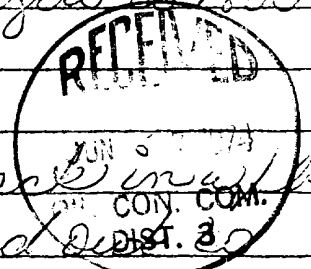
Middle Canyon

- 10-25-69 Core #2 3230-89. Rec 59 ft
 3230-49-19 ft. LK by BK Sh
 3249-86-37 ft. SS by V/fng Hd
 Bleeding oil.
 3286-89-3 ft. V/shaley SS
- 10-26-69 Pull core #3. 3288-3333. (Coring)
 #4-3362. Vis 56 wt 9.4. Core #3
 3289-3333. Rec 25 ft SS V/fng - Bleeding
 oil w/good order. 19 ft Sh - Blk w/SS
 stringers
- 10-27-69 Core #5 - (Coring) @ 3445. Core #4
 Rec 58' 3333-3391. Rec 10' SS V/fng
 Lt. Gy. No show
 Rec 23 ft - SS V/shaley laminated
 w/BK Sh
 25 ft - Sh BK Poked Chip
- 10-28-69 Pull core #5. Drill to T/ 3484 w/6 3/4 bit. La
 Schlumberger Log. Now laying
 drill pipe. Prep run casing.
 Core #5 (3391-3451) Rec 20'
 33' Blk Sh
 22' SS - Lt Gy wh m-g wt
 5' Coal
- 10-29-69 Ran 109 gals 4 1/2 - 10.50 crg. KB-3485.25
 cmr w/350 ss class C. Plug down at
 11:30 PM. 150 gal acid on top plug. W.D.
- 10-30-69 Ran Bond Log: Gamma Collar Correlation
 Log 3244-52, 3270-74, 3286-94, 3312-20.
 4 SPF. Pressured up broken plugs down
 Swabbed dry. Rigging up to frac.
- 10-31-69 7 sac w/44,210 gal oil, containing 45,000#
 10/20 & 20/40 sand. Avg rate 42 BPM. Avg
 press 2900# Max press 3150# Min press
 2600# prop 20 balls, no action. Shut in
 200# Swab back frac oil. Fluid level
 2800'. Swab back 110 bbls.



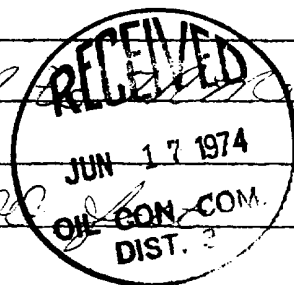
Middle Canyon

- 11-1-29 Trip out w/ tlg. Ran mud anchor, set nipple & seat nipple. 103 jts 2 3/8" E & tlg. landed @ 3250'. Rig down.
- 11-2-29 Rig up unit. Ran pump 5' 75 x 5 1/2" 13 x 3/4 plane rods. 39 x 3/4 scraper rods. Space out pump.
- 11-3-29 Finish bed hooking up pump jack. Well pump up at 1:30 pm. Rig down unit. Rec total 121 bbls.
- 11-4-29 Pumping load oil back
- 11-5-29 Pump load oil back. Pull rods & repair pump.
- 11-6-29 Pumping load oil back
- 11-7-29 Pumping load oil back. Pumped 140 bbl. Recovered 510 bbls. Still lack 490
- 11-15-29 Pulled tlg & rods. Set packer @ 3200. Ran 100 ex class A cmt w/ 10C. Squeezed to 1800' 210C for 24 hrs.
- 11-16-29 210C
- 11-17-29 Pulled packer out. Tlg went back in well. Found top of cmt @ 3213. Filled to 3350'. Swabbing well. 75% water and 25% oil.
- 11-18-29 Swab well. Made 5" 14 bbls of fluid. Swab down. 98% water & 2% oil.
- 11-19-29 Set EZ drill @ 3188'. Cmt w/ 200 ex class "C" 2% CC. Squeezed w/ 1250# Pull out of hole. 110C.
- 11-20-29 Fill hard cmt at 3213' Lack 200'
- 11-21-29 Fill cmt to 3350'. Pull tlg, removed bit, run tlg w/ packer, set packer & pressure up to 2900#. Pumped 2 BPM. Squeeze no holding. Running tlg w/ EZ drill. packer to be squeeze w/ 100 ex cmt. Plan to set packer at approx 3182'.



Middle Canyon

- 11-22-69 Set E-7 drill @ 3181' cont w/100 ss
mass C, 2 of 1% solid w/2% cc. Squirt
w/3500# WOC.
- 11-23-69 Drill out cont. Pressured to 3000# Held
Re-Perf 3312-3318.
- 11-24-69 Set R-4 packer @ 3276. Started swabbing
(from tubing) @ 2 PM. Rec 19 bbls water
fluid level 40 ft above packer. Cannot
swab anything.
- 11-25-69 Swabbing well. Swabbing 20 gal 1 hour
of water. Bbl 100 ft of fluid in the hole.
- 11-26-69 Lost R-4 packer & 4 jets & log. Took over
shot & recovered same. Trac w/24, 610 gal
treated water & 2000# 20/40 sand. Max
press 2300# Average 2100# @ 408 PM, SI @
1000# 3 min down to 900. SI 2 hrs went in
to work well on vacuum.
- 11-27-69 Swabbing well. Swab back 350 bbls
of water. 600 ft of fluid in hole. A
little show of gas. No show of oil.
- 11-28-69 Rec 274 bbls fluid from 7 AM to 7 AM
Total rec 225 bbls fluid. Well started
making 10% oil @ 3 AM. Trac of gas.
- 11-29-69 Rec 159 bbls fluid from 7 AM to 7 AM
Total rec 784 bbls. Blend of water from
10' to 1' left in tank. Total oil 46 bbls.
- 11-30-69 Rec 94.09 fluid from 7 AM to 7 AM. Total
rec 878. 40% oil 90% water.
- 12-1-69 Rec 50.50 bbls fluid from 7 AM
Total rec 928 bbls 13% oil.
- 12-2-69 Swab 378 bbls fluid 18% oil - 200
fluid in hole. Esq. press 300#.
- 12-3-69 Pulled 7 log. Went in with blue jet. Went
to re-perf but couldn't get down where they
wanted to. Log came out. Rig down Blue
Jet. Pick up 7 log went to circ sand out. Well
on vacuum. Came out. Pick up packer.
Found communications @ 3285 & all old pos.



Middle Canyon #2

- 12-4-69 Ran 150 ex class C w/ 12.5% gel (admit)
290 gal, 290 calc. & 150 ex class A w/ 2% gel
Pump 3000# EZ drill wt @ 3100'. WOC
- 12-5-69 Drill EZ drill @ 300' & 94' best good cont
Still drilling cont @ 3194'
- 12-6-69 Landed 2lb. Perfluorobenzene Perf 3290-96.
Pump 500 gals. HCl acid (15%) Break
formation at 2100#.
- 12-7-69 Swab. Making water up skin of oil.
Prep to run pump.
- 12-8-69 Run pump. Gauge later today
- 12-9-69 Pumped 80 BW & no oil.
- 12-10-69 Pumped 1 ft of fluid tank. Level 12-10-69
1' 11"
- 12-12-69 Pumped 7 BD 50 H₂O
- 12-12-69 Pumped BO
- 12-14-69 Pumped BO
- 12-15-69 Pumped BO
- 12-16-69 Set BP @ 3761. Cont w/ 100 ex class A of
Latex. Rigging up to perf & acidize.
- 12-17-69 Started Swab @ 2 PM. 12-18-69 Swab
dry by 6 PM. Swab to test. Tank 1/2 full
in 12 hours 3% oil. Perf 3244-52.
Spotted 550 gal 15% acid.
- 12-18-69 Proc w/ 14,000 gal water, 20,000 10/20
sand. Pump in @ 2000. 30 bbls max
@ 2000#. Instant shut in 1500. 5 min
900. Went back in & ran out 35' feet
of sand. Swabbing well. Fluid
at 100 ft from top.
- 12-19-69 Re run pump.

