

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NM-18319	
2. NAME OF OPERATOR Continental Oil Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 152 North Durbin St., Casper, Wyo. 82601		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1485' FNL, 793' FWL		8. FARM OR LEASE NAME Conoco 29-4	
14. PERMIT NO.		9. WELL NO. 7	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6565' GR, 6577' KB		10. FIELD AND POOL, OR WILDCAT Mesaverde	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA E. San Juan - Pictured C.	
		12. COUNTY OR PARISH Sec. 20, T29N, R4W	
		13. STATE Rio Arriba New Mexico	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Well Progress 3-15-74	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

See attached Drilling Report.



USGS(5) NMOC(2) File

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

SIGNED

J. A. Whelan

TITLE **Administrative Supervisor**

DATE **3/18/74**

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

3-8-74
Conoco 29-4 #7 - Conoco 1.-000000 - Mesaverde - 5950' - CONFIDENTIAL

TD 5934', PBTD 3561'. Waiting on completion unit.

3-11-74
Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL

TD 5934', PBTD 3561'. Waiting on completion unit.

3-12-74
Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL

TD 5934', PBTD 3561'. Waiting on completion unit.

3-13-74
Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL

TD 5934', PBTD 3561'. Waiting on completion unit.

Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL

3-14
TD 5934', PBTD 3561'. Waiting on completion unit.

Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL

3-15: TD 5934', PBTD 3561'. Waiting on completion unit.



Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL - Foreman:
Feaster

Running 4½" liner. Depth 5934' - sand and shale. Made 74'. 6½" hole. Finished hole at 7:45 a.m. 2-25-74. Blew hole down. Made 8-stand short trip. Washed 10' fill. Blew hole down. Injected 2 soap slugs. Pulled out of hole. Ran Schlumberger Ind.-Gamma Log 5932-3800', Gamma-Caliper-FDC 5932-3800'. Schlumberger TD 5933'. Made conditioning trip. Encountered bridge 8 jts. off bottom. Washed to bottom. Blew hole down. Inj. 2 heavy soap-KCl slugs. Pulled out of hole. Laid down drill collars. Bit #8 - RR HTC J-55 - 5799-5934'. 18 4½" drill collars; WOB 20,000#; 50 RPM; air mist press. 200 psi. Arapahoe 0/13½/0.

Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL
Drlg. Foreman: Feaster

MORT. TD 5934', PBTD 3561'. Ran 50 jts. (1632') 4½", 10.5#, K-55, ST&C casing followed by 20 jts. (638') 4½", 11.6#, K-55, ST&C casing equipped with Baker guide shoe and diff. fill collar, and Burns liner hanger. Total footage 2275'. Sand-blasted pipe 5749' to 5683' and 5421' to 5289'. Liner stopped 2' off bottom. Nippled up cementing head. Pressured up with air to 600 psi to convert diff. float to standard float. Blew well down. Washed 2' to bottom. Picked up 18" off bottom to get cement head located properly. Hung liner with shoe at 5916', collar at 5880', top liner at 3641'. Dowell pumped 4 sax bentonite mixed in 20 bbls. water - 4 bbls. water spacer - 340 sax Class "A", and 4% gel with .2% "D13R." Mixed cement at 14.1#/gal. at 6 B/M. Pumped plug down at 5 B/M with 63½ bbls. fresh water. Bumped plug at 11:50 a.m. 2-26-74 with 750 psi. Released pressure. Filled annulus with 64 bbls. fresh water. Picked up 80' above liner. Reversed out 2 bbls. cement and gel water. Continued reversing out air cut water for 1 hr. Pulled out of hole. Laid down drill pipe. Released rig at 2 a.m. 2-27-74. Arapahoe 0/14½/0.

Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL

TD 5934', PBTD 3561'. Waiting on completion unit.

Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL

TD 5934', PBTD 3561'. Waiting on completion unit. Log tops: Mesaverde 5371'; Point Lookout 5664'.

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Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL - Foreman:
Feaster

2-23: Mist drilling. Depth 5562' - sand and shale. Drilled 133' with air; drilled 176' with mist; and cored 36'. 6 1/4" hole. Core #3 (Cliffhouse) 5350-5386'. Cut 36'. Rec. 24'.

- 5350' - 5358' Sandstone, shale with thin, black shale lenses; sand, light gray, fine grained, salt and pepper appearance, tight with no shows.
- 5358' - 5360' Shale, black, soft with thin sandstone lenses.
- 5360' - 5374' Sandstone, light gray, fine grained, salt and pepper, fair porosity, no shows (4" black shale bed in 5368-69' interval).

Well quit dusting and began flowing 1 1/2" stream water at 5382'. Core rate dropped from 5 min./ft. to 9 min./ft. Pulled out of hole at 5386'. Ran in with bit to ten stands off bottom. Blew well down in 1 hr. with 600 psi. Ran 5 stands. Blew well down in 1/2 hr. with 600 psi. Ran in to 10' off bottom. Blew down in 1/2 hr. with 500 psi. Began mist drilling with 1400 CFM air. Inj. water contains 3 gal. soap/bbl. water and 10# KCl/bbl. at 5 to 7 bbls./hr. Well misting good. Water 20-25 bbls./hr. out blooie line.

2-24: Blowing hole. Depth 5694' - sand and shale. Drilled 95', cored 37'. 6 1/4" hole. Core #4 (Point Lookout - 5657-5694'. Cut 37'. Rec. 37';

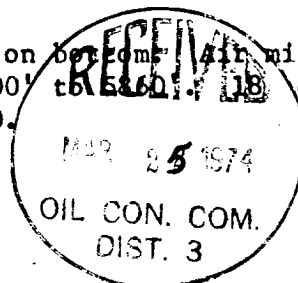
- 5657' - 5657.5' Sandstone, light gray, fine grained, salt and pepper, some carbonaceous material, poor porosity, no shows.
- 5657.5'-5658.5' Shale, black.
- 5658.5'-5694' Sandstone, as above, fractured.

Coring very slowly. Pulled out. Ran bit to dry up hole to air mist. Air mist press. 200#.

2-25: Mist drilling in sand and shale at 5860'. Drilled 140', cored 26'. 6 1/4" hole. Finished blowing hole. Drilled to 5773'. Picked up core bbl. Washed thru bridge 4 jts. off bottom. Core #5 (Point Lookout) - 5773-99'. Cut 26'. Rec. 21':

- 5773' - 5784.5' Shale, black, firm.
- 5784.5 5795' Sandstone, light gray, very fine grained, hard, tight, no shows, fractured bottom 4'.

Laid down core bbl. Ran in hole with bit. 40' fill on bottom. Air misting in good shape. Press. 200#. Bit #8 - HTC J-55 - 3800' to 5860'. 4 1/4" drill collars; WOB 20,000#; 50 RPM. Arapahoe 0/12 1/2/0.



Conoco 29-4 #7 - Mesaverde - 5950' - Conoco 1.0000000 - CONFIDENTIAL - Drlg.
Foreman: Feaster - API Well No.: 30-039-20809

2-20-74
Nippling up. Depth 3800'. 8 3/4" hole. Finished strapping out of hole. No correction. Ran Schlumberger IES from 3787' to 225', CNL-FDC-GR-Caliper from 3787' to 2287'; logger's TD 3788'. Ran 90 jts. (3806') 7", 23# and 20# K-55, ST&C casing (78 jts. - 3282' - 23# located 3800' to 2628' and 2104' to surface), 12 jts. - 524' 20# casing located 2628' to 2104'; 1 centralizer at 6' above shoe, 9 centralizers spaced every other jt. above shoe. Baker shoe at 3800', diff. fill float collar at 3784'. Dowell cemented with 250 gals. "Mud Flush, 110 sax 50-50 Pozmix blended with 6 1/4#/sack "Gilsonite" and 1/2% "CFR-2." Mixed cement at 4 1/2 B/M. PD with 148 BW at 7 1/2 B/M. Final pump press. 900 psi. Bumped plug with 1500 psi at 11:57 p.m. 2-19-74. Full returns throughout job. Top of Pictured Cliffs at 3280'. Cum. mud costs: \$4965. Arapahoe 0/7 1/2/0.

Conoco 29-4 #7 - Mesaverde - 5950' - Conoco 1.0000000 - CONFIDENTIAL - Drlg.
Foreman: Feaster

2-21-74
Blowing well dry. Depth 3830' - sand and shale. Made 30'. 6 1/4" hole. Picked up 3 1/2" drill pipe and 4 3/4" drill collars while WOC. Blew casing dry. Drilled cement and shoe. Drilled 30'. Hole drying up now. 18 4 3/4" drill collars; WOB 20,000#; 45 RPM. Drilling with air - press. 150 psi. Cum. mud costs: \$4965. Arapahoe 0/8 1/2/0.

Conoco 29-4 #7 - Conoco 1.0000000 - Mesaverde - 5950' - CONFIDENTIAL - Feaster

2-22-74
Drilling sand and shale at 5217'. Made 1387'. 6 1/4" hole. Bit #9 - HTC - J-55 3800' to 5217'. Dev.: 1 1/4 deg. at 4985'. Drlg. with air - press. 200 psi. Arapahoe 0/9 1/2/0.



Conoco 29-4 #7 - Mancos - 5950' - Conoco 1.0000000 - CONFIDENTIAL

Location: 1485' FNL, 793' FWL, Sec. 20, T29N, R4W, Rio Arriba Co., New Mexico.
AFE 12-61-2581. API Well No. to follow. Contractor: Arapahoe. Mud supplier:
Milchem. Elevations: GL 6565', KB 6577', RBM 12'.

2-13-74: WOC. Depth 228'. 15" hole. Spudded at 6 p.m. 2-12-74. Ran 7 jts.
10 3/4", 40.5#, ST&C casing landed at 226' KB. Cemented with 225 sax Class "A"
and 2% CaCl₂. PD 3:45 a.m. 2-13-74. B-J Cementers. Good returns throughout.
Some tight hole while running surface casing. Dev.: 1/4 deg. at 228'. Gel-water -
Wt. 8.8#; Vis. 45; WL 12.0 cc. Arapahoe 0 1/2/0.

Conoco 29-4 #7 - Mesaverde - 5950' - Conoco 1.0000000 - CONFIDENTIAL - Drlg.

Foreman: Feaster

2-14-74
Drilling sand and shale at 1085'. Made 857'. 8 3/4" hole. Dev.: 1/4 deg. at
750'. 18 6 1/2" drill collars; WOB 50,000#; 65 RPM; 5 1/2" x 15" pump; 56 SPM;
276 GPM; PP 1100#; ann. vel. 120; jet vel. 340. Gel-Chem - Wt. 8.9#; Vis. 29;
WL 9.8 cc. Cum. mud costs: \$735. Arapahoe 0/2/0.

Conoco 29-4 #7 - Mesaverde - 5950' - Conoco 1.0000000 - CONFIDENTIAL - Drlg.

Foreman: Feaster

Drilling sand and shale at 1885'. Made 800'. 8 3/4" hole. Dev.: 1/4 deg. at
1280'; 3/4 deg. at 1438'. Bit #2 - Smith DTT-J - 228' to 1438'. Bit #3 -
Smith DTT-J - 1438' to 1850'. 18 6 1/2" drill collars; WOB 45,000-50,000#; 65
RPM; 5 1/2" x 15" pump; 56 SPM; 275 GPM; PP 1100#; ann. vel. 120; jet vel. 295.
BHA: bit, sub, and 18 drill collars. Gel-Chem - Wt. 8.9#; Vis. 30; WL 10.0 cc;
FC 2/32; pH 8.0; 3% solids; 1/4 of 1% sand; salinity 900 ppm. Cum. mud costs:
\$945. Arapahoe 0/2 1/2/0.

Conoco 29-4 #7 - Mesaverde - 5950' - Conoco 1.0000000 - CONFIDENTIAL - Drlg.

Foreman: Feaster

2-16: Drilling sand and shale at 2630'. Made 745'. 8 3/4" hole. Dev.: 1 deg.
at 2378'. Bit #4 - Smith DGTJ - 1850' to 2492'. Gel-Chem - Wt. 9.1#.

2-17: Drilling sand and shale at 3298'. Made 668'. 8 3/4" hole. Dev.: 1 1/4 deg.
at 2937'. Bit #5 - HTC XBG - 2492' to 2937'. Started mudding up for core at 3150'.
Gel-Chem - Wt. 9.1#.

2-18: Coring. Depth 3482' - sand and shale. Drlg. 65', cored 119'. 8 3/4" hole.
Bit #6 - Smith DGT-H - 2937-3363'. Cut 60' of core #1 from 3363' to 3423'. Rec.
60' - fine grained sand with few thin shale streaks, poor porosity, no stain,
faint odor. Gel-Chem - Wt. 9.1#. Dev.: 1/4 deg. at 3363'.

2-19: Pulling out of hole to log. Depth 3800' - sand and shale. Made
318'. 8 3/4" hole. Dev.: 1/4 deg. at 3800'. Core #2 - 3423-3483'. 100%
recovery - sandstone with scattered shale streaks, no stain, no odor. poor
porosity. Reached 3800' at 12:30 a.m. 2-19-74. Circ. 1 1/2 hrs. Started
pulling out of hole. Tight hole from 3000' to 3150'. Ran back to bottom.
Washed thru two bridges. Made 8-stand short trip. Hole okay. Now strapping
out of hole. Corebit - Christ. MC-20 - 3423-3483'. Bit #7 - Smith DGT-8 -
3483' to 3800'. 18 6 1/2" drill collars; WOB 50,000#; 60 RPM; 5 1/2" x 15" pump;
56 SPM; 275 GPM; PP 1100#; ann. vel. 120; jet vel. 280; BHA: bit, sub, and
18 drill collars. Gel-Chem - Wt. 9.5#; Vis. 58; WL 9.5 cc; FC 2/32; gel
strength ini./10 min. 8 / 18; 5% solids; 1/4 of 1% sand; salinity 800 ppm: PV