

8/14/88

BLM. Maps -

Last report:

L. Lex Holten -  
Operator  
c/o Concord Royalty Co.  
1560 Broadway Suite 400  
Denver, 80202

U.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. TYPE OF WORK  
 DRILL                       DEEPEN                       PLUG BACK

b. TYPE OF WELL  
 OIL WELL                       GAS WELL                       OTHER                       SINGLE ZONE                       MULTIPLE ZONE

2. NAME OF OPERATOR  
 Continental Oil Company

3. ADDRESS OF OPERATOR  
 152 North Durbin Street, Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 600' FWL, 810' FSL, Sec. 22 T9S, R20E, Uintah Co., Utah  
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Ouray, Utah - 5 Miles

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
 2,080

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 21,400'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4833' GR

5. LEASE DESIGNATION AND SERIAL NO.  
 Utah 0577-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Conoco Federal 22

9. WELL NO.  
 1

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 22, T9S, R20E

12. COUNTY OR PARISH      13. STATE  
 Uintah                      Utah

16. NO. OF ACRES IN LEASE      17. NO. OF ACRES ASSIGNED TO THIS WELL  
 2,080

19. PROPOSED DEPTH      20. ROTARY OR CABLE TOOLS  
 21,400'                      Rotary

22. APPROX. DATE WORK WILL START\*  
 August 10, 1971

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
32"	28"		60'	To Surface
26"	20"	94#	1,700'	1,175 sacks
12 1/2"	9 5/8"	40-43.5#	16,625'	955 sacks
8 1/2"	7"	35-38.0#	21,400'	550 sacks

We are proposing to drill and test the Madison formation in Conoco Federal 22 No. 1. The well will not be cored but DST's will be made. All appropriate logs will be run. The well will be selectively perforated, acidized and producing equipment installed if commercial production exists. The drilling rig will be equipped with a blowout preventer.

USGS-Salt Lake(2) UOGCC(2) File(2)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED J. A. Ubben TITLE Administrative Supervisor DATE 8-5-71

(This space for Federal or State office use)

PERMIT NO. 43049-30111 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

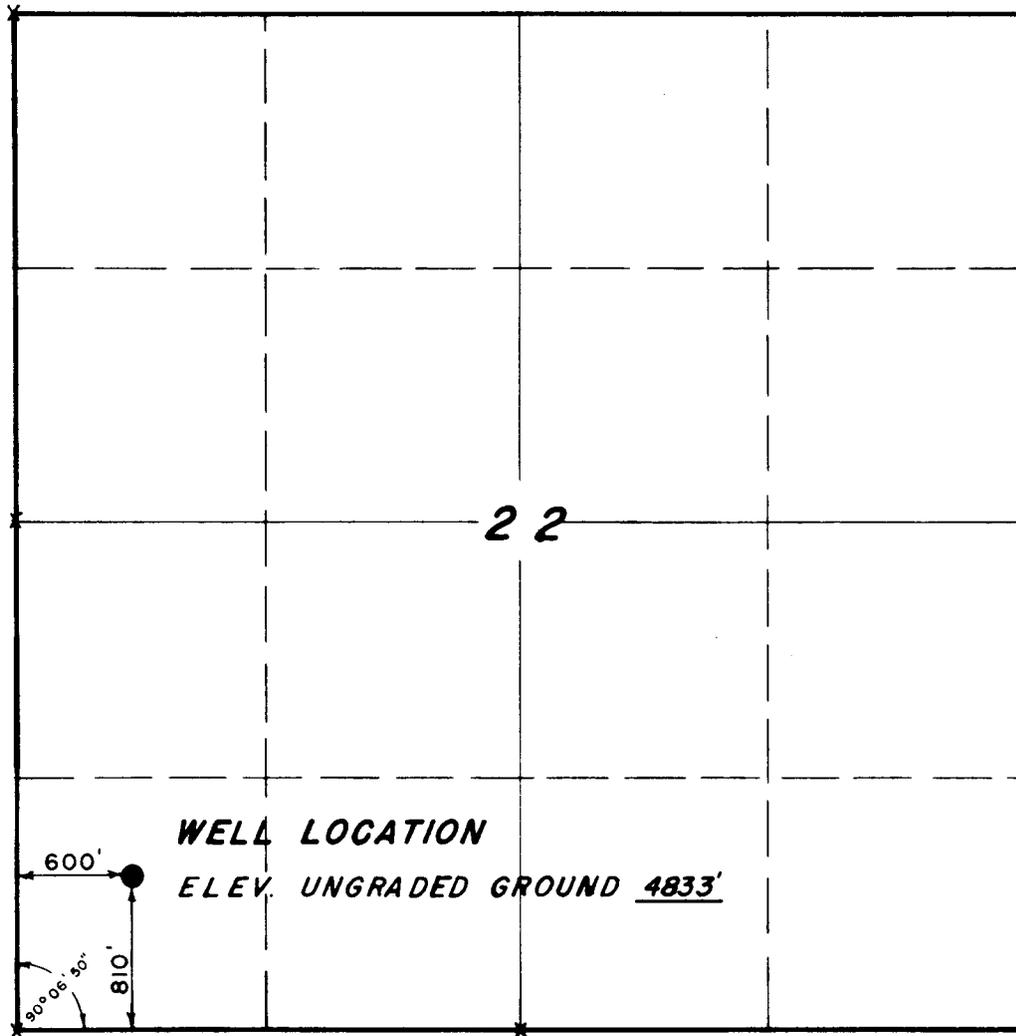
CONDITIONS OF APPROVAL, IF ANY:

T9S, R20E, S.L.B.&M.

PROJECT

CONTINENTAL OIL COMPANY

Well location located as shown in the  
SW 1/4 SW 1/4 Section 22, T9S, R20E,  
S.L.B.&M. Uintah County, Utah.



CERTIFICATE

I HEREBY CERTIFY THAT THE ABOVE PLAT WAS PREPARED IN  
ACCORDANCE WITH THE FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Lawrence C. Kay*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 3137  
STATE OF UTAH

X = Section Corners Located (BRASS CAPS)  
NEW GLO SURVEY (1968), NO TOWNSHIP PLAT AVAILABLE  
AS OF JULY 1971.

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX Q - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 28 July, 1971
PARTY L.C.K. R.K.	REFERENCES GLO Corners
WEATHER HOT	FILE CONTINENTAL OIL CO.



W. C. Blackburn  
 Division Manager  
 Production Department

Western Hemisphere Petroleum Division  
 Continental Oil Company  
 152 North Durbin  
 Pacific Western Life Building  
 Casper, Wyoming 82601  
 (307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

12-11: Tripping in hole. Depth 12,029' - shale. (Prog. 24') 12½" hole. Dev.: 1/2 deg. at 12,029'. Gel-Chem: Wt. 10.4#. Bit #52 - Reed ST1A6 - drilled 11,887-12,029

12-12: Circ. for samples. Depth 12,120' - sand and sandy shale. (Prog. 101') 12½" hole. Gel-Chem - Wt. 10.4#.

12-13: Running DST #1. Depth 12,130' - sand and shale. 12½" hole. Dev.: 3/4 deg. at 12,130'. Circ. samples and cond. mud. Made short trip - 40 stands. Circ. 4 hrs. Pulled out for DST #1. Ran DST tools. DST #1 - 11,927-12,130'. 2100' water cushion. Tool open at 6:55 a.m. 12-13-71 with strong blow. Now on 60 min. SI. Bit #53 - Reed ST1AG - drilled 12,029' to 12,130'. 14 8" and 16 5" drill collars. Dev.: 3/4 deg. at 12,130'. Gel-Chem - Wt. 10.4#; Vis. 47; WL 6.7 cc; FC 2/32; pH 9.6; gel strength ini./10 min. 1 / 4; 4% oil; 11% solids; trace of sand; salinity 3800 ppm; PV 15; Yp 6. Cum. mud costs: \$129,440. Brinkerhoff 0/107/0.

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

Drilling sand at 12,141'. (Prog. 11') 12½" hole. Background gas - 300 units. DST #1 - 11,925-12,130'. IF 5 min., ISI 10 min., second flow - 10 min., second SI 60 min., FF 120 min., FSI 120 min. IHHP 6418#; IFP 1031#; steady; ISI 1592#; second flow 1013# - steady; second SI 2459#; FFP 1049 to 1230#; FSIP 1519#; FHHP 6382#. BHT 198° F. Opened tool. Gas to surface in 33 min. Measured as follows on 1/8" orifice:

5 min.	20 psi	12 MCF
15 min.	45 psi	22 MCF
25 min.	70 psi	28 MCF
35 min.	95 psi	36 MCF
45 min.	95 psi	36 MCF
60 min.	100 psi	38 MCF
75 min.	105 psi	40 MCF

Rec. 2000' heavily mud and gas cut water cushion. Sample chamber - 3 cu. ft. dry gas, no fluid, 950 psi. Gas is 97% methane. 2" new snow - foggy. Phone lines out south of Vernal.

Bit #54 - Sec. S86 - drilled 12,130' to 12,141'. Five 9", eight 8", and 16 jts. 5" hvy. wt. drill collars; WOB 30,000-45,000#; 42 RPM; 6½" x 18" pump; 57 SPM: 490 GPM; PP 2350 psi; ann. vel. 97; jet vel. 480; bottom hole assembly - bit - HTC Soft-Shock - one 9" drill collar - insert button - stabilizer - twp 9" drill collars - stabilizer - two 9" drill collars - two 8" drill collars - rubber sleeve stabilizer - six 8" drill collars and 16 jts. hvy. wt. Gel-Chem - Wt. 10.4#; Vis. 50; WL 7.0 cc; FC 2/32; pH 9.4; gel strength ini./10 min. 1 / 4; 5% oil; 11% solids; trace of sand; salinity 3700 ppm; PV 15; Yp 6. Cum. mud costs: \$132,467. Brinkerhoff 0/108/0.

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)

*12-9* Drilling sandy shale at 11,902'. (Prog. 51'). 12-1/4" hole. Drilling with Bit #51 - Reed - SSIG from 11,687' to 11,887' and Bit #52 - Reed - STIAG - from 11,887' to 11,902'. Running 5 size 9 drill collars. Bit wt. 35-60,000#. 42 RPM. Pump size 6½ x 18. SPM 57. GPM 490. Pump pressure 2100. Ann. vel. 97. Jet vel. 42. Bottom hole assembly - same. Dev: 1/2 deg. at 11,887'. Gel chem mud. Mud wt 10.5#. Vis. 47. W.L. 6.8. F.C. 2/32. pH 9.6. Gel Strength Ini./10 min. 1/3. 4% oil. 11% solids. 1/4 of 1% sand. Salinity 3400. PV 18. Yp 5. Cum. mud costs: 124,415. 1500 background gas. 6° below zero. Brinkerhoff 0.103/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)

*12-10* Drilling sand and sandy shale at 12,005'. (Prog. 103'). 12-1/4" hole. Drilling with Bit #52 - Reed - STIAG - from 11,887' to 12,005'. Running 5 size 9, 9 size 8, and 16 size 5 (heavy wt) drill collars. Bit on wt 70,000#. 40 RPM. Pump size: 6½ x 18. SPM 50. GPM 430. Pump Pressure 1750. Ann. Vel. 85. Jet Vel. 360. Bottom hole assembly - same. Mud wt 10.4#. Vis. 54. W.L. 7.6. F.C. 2/32. pH 9.6. Gel Strength Ini./10 min. 1.3. 4% oil. 11% solids. Trace of sand. Salinity 3800. PV 18. Yp 7. Cum. mud costs: \$126,075. Background gas 1000 units. Sand 11,946-11,960. No oil shows - gas 2100 units. May DST. Brinkerhoff 0/104/0.



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Division Manager  
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**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD - (Confidential)**

12-4: Drilling sand and siltstone at 11,612'. (Prog. 48'). 12-1/4" hole. Drilling with Bit #49 - HTC - X-44 from 11,451' to 11,612'. Running 5 size 9, 9 size 8, and 16 size 5 (heavy weight) drill collars. Pump size: 6½ x 18. 58 SPM. 440 GPM. Pump pressure 2200. Ann. vel. 87. Jet Vel. 430. Gel chem mud - wt. 10.5#. Vis. 41. W.L. 7.4. F.C. 2/32. pH 11.3. Gel Strength Ini./10 min. 1/2. 3% oil. 9% solids. 1/4% sand. Salinity 3200. PV 16. Yp 5. Cum. mud costs: \$112,203. 2000 units gas unit - maximum. 500 minimum. Bit wt. 50,000#. 50 RPM. Brinkerhoff 0/98/0.

12-5: Drilling sand and siltstone and more shale at 11,632'. (Prog. 20'). 12-1/4" hole. Drilling with Bit #49 - HTC - X-44 - from 11,451' to 11,625' and Bit #50 - Reed - SCM-5 - from 11,625'. Running 5 size 9 drill collars, 9 size 8 drill collars, and 16 size 5 drill collars. Bit wt - 40-45,000#. 42 RPM. Pump size: 6½ x 18. SPM 58. GPM 440. Pump pressure 2300. Ann. vel. 87. Jet vel. 430. Bottom hole assembly same (944.40'). Dev: 1/4 deg. at 11,625'. Gel chem mud. Mud wt 10.4#. Vis. 43. W.L. 7.6. F.C. 2/32. pH 11.0. Gel Strength Ini./10 min. 1/3. 3% oil. 9% solids. 1/4 of 1% sand. Salinity 4000. PV 16. Yp 6. Cum. mud cost: \$114,909. 2000 units gas. Brinkerhoff 0/99/0.

12-6: Drilling sand and siltstone at 11,681'. (Prog. 49'). 12-1/4" hole. Drilling with Bit #50 - Reed - SCM-5 - from 11,625'. Running 5 size 9, 9 size 8, and 16 size 5 (heavy wt.) drill collars. Bit wt - 45-50,000#. RPM 48. Pump size: 6½ x 18. 58 SPM. 440 GPM. Pump pressure 2250. Ann. vel. 87. Jet Vel. 430. Bottom hole assembly - same. Gel chem mud. Mud wt - 10.4#. Vis. 40. W.L. 6.8. F.C. 2/32. pH 10.1. Gel Strength Ini./10 min. 1/2. 3% oil. 11% solids. Trace of sand. Salinity 3000. PV 14. Yp 4. Cum. mud costs: \$117,715. Brinkerhoff 0/100/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

12-1  
Drilling sand, siltstone, and shale at 11,747'. (Prog. 66'). 12-1/4" hole. Drilling with Bit #50 - Reed - SCM-5 from 11,625' to 11,687' and Bit #51 - Reed - SS-16 from 11,687' to 11,747'. Running 5 size 9 drill collars; 9 size 8 drill collars; and 16 size 5 (heavy wt.) drill collars. Pump size: 6½ x 18. SPM 54. GPM 440. Pump Pressure 2250. Ann. Vel. 87. Jet Vel. 430. Bottom hole assembly - same. Gel chem mud. Mud wt - 10.4#. Vis. 47. W.L. 6.4. F.C. 2/32. pH 9.8. Gel Strength Ini./10 min. /2. 2.5% oil. 10.5% solids. Trace of sand. Salinity 3800. PV 16. Yp 6. Cum. mud costs \$120,624. Gas on mud logger 1500 units and steady. Brinkerhoff 0/101/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

12-2  
Drilling sandy shale at 11,851'. (Prog. 104'). 12-1/4" hole. Drilling with Bit #50 - Reed - SSIG from 11,687' to 11,851'. Running 5 size 9, 9 size 8, and 16 size 5 (heavy wt) drill collars. Pump size 6½ x 18. SPM 54 Bit wt 35-75,000#. 42 RPM. SPM 54. GPM 440. Pump pressure 2250. Ann. Vel. 87. Jet Vel. 430. Gel chem mud - wt 10.5#. Vis. 46. W.L. 5.6. F.C. 2/32. pH 9.4. Gel Strength Ini./10 min. 1/3. 4% oil. 11% solids. Trace of sand. Salinity 3300. PV 7. Yp 5. Cum. mud costs: \$123,106. 1500 units background gas. 4 inches snow - 4° above zero. Brinkerhoff 0/102/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONFIDENTIAL**

12-1: Tripping in sand at 11,451'. (Prog. 80') 12½" hole. Dev.: 3/4 deg. at 11,450'. 160 units of background gas. Bit #48 RBJ - Reed SCM-5 - drilled 11,122' to 11,451'. Five 9", nine 8" and sixteen 5" drill collars; WOB 50,000#; 50 RPM; 6½" x 18" pump; 52 SPM: 440 GPM; PP 2300 psi; ann. vel. 87; jet ve. 430; bottom hole assembly - bit - Soft-Shock - one 9" drill collar - button stabilizer - two 9" drill collars - button stabilizer - two 9: and two 8" drill collars - rubber stabilizer - seven 8" drill collars and 16 5" drill collars. Gel-Chem - Wt. 10.4#; Vis. 44; WL 8.6 cc; FC 2/32; pH 12.0; gel strength ini./10 min. 1 / 5; 4% oil; 10% solids; 1/8 of 1% sand; salinity 4000 ppm; PV 16; Yp 8. Cum. mud costs: \$106,847. Brinkerhoff 0/95/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONFIDENTIAL**

12-2: Drilling sand, siltstone, and shale at 11,508'. (Prog. 57') 12½" hole. Bit #49 HTC 44X - drilled 11,451' to 11,508'. Five 9", nine 8" and sixteen 5" drill collars; WOB 48,000-50,000#; 48 RPM; 6½" x 18" pump; 52 SPM: 440 GPM; PP 2300 psi; ann. vel. 87; jet vel. 430; bottom hole assembly - bit - Soft-Shock - one 9" drill collar - button stabilizer - two 9" drill collars - button stabilizer - two 9" and two 8" drill collars - rubber stabilizer - seven 8" drill collars and 16 5" drill collars. 2000 units gas. Jetted cellar. Tightened all wellhead bolts. Gel-Chem - Wt. 10.4#; Vis. 40; WL 8.2 cc; FC 2/32; pH 11.3; gel strength ini./10 min. 1 / 5; 4% oil; 10% solids; 1/4 of 1% sand; salinity 3600 ppm; PV 16; Yp 8. Cum. mud costs: \$108,600. Brinkerhoff 0/96/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD - (Confidential)**

12-3: Drilling sand, siltstone, and some shale at 11,564'. (Prog. 56') 12½" hole. Bit #49 - HTC J-44 - drilled 11,451' to 11,564'. Five 9", nine 8" and sixteen 5" drill collars; WOB 45,000-50,000#; 48 RPM; 6½" x 18" pump; 52 SPM; 440 GPM; PP 2200 psi; ann. vel. 87; jet vel. 430; bottom hole assembly - bit - Soft-Shock - one 9" drill collar - button stabilizer - two 9" drill collars - button stabilizer - two 9" and two 8" drill collars - rubber stabilizer - seven 8" drill collars and 16 5" drill collars. 2000 unit background gas. Gel-Chem - Wt. 10.4#; Vis. 43; WL 8.0 cc; FC 2/32; pH 11.8; gel strength ini./10 min. 2 / 4; 4% oil; 10% solids; 1/4 of 1% sand; salinity 3000 ppm; PV 15; Yp 7. Cum. mud costs: \$110,389. Brinkerhoff 0/97/0.



Production Department

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152 North Durbin  
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**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

2-26: Tripping in shale with streaks of sand at 16,392'. (Prog. 31') 8½" hole. Bit #77 - ACC Dia. Trig - drilled 16,168' to 16,392'. Gel-Chem - Wt. 14.2#.

2-27: Tripping in conglomerate with chert at 16,406'. (Prog. 14') 8½" hole. Bit #79 - Christ. MD371 - drilled 16,392' to 16,406'. Dev.: 2 3/4 deg. at 16,392'. Pulled ACC diamond bit at 16,392'. Tested BOP and manifold to 2500 psi. Held okay. Reran Christ. diamond bit and encountered conglomerate with chert. Pressured up. Pulling. Gel-Chem - Wt. 14.1#.

2-28: Drilling conglomerate with lots of chert nodules at 16,445'. (Prog. 39'). 8½" hole. Bit #79 in hole. 18 6½" and 15 4½" drill collars; WOB 47,000#; 45 RPM; 5½" x 18" pump; 57 SPM; 345 GPM; PP 2250 psi; ann. vel. 160; jet vel. 260; bottom hole assembly - bit - one 6½" Drilco drill collar - shock sub - 17 6½" drill collars - 15 4½" hvy. wt. drill collars. Gel-Chem - Wt. 14.2#; Vis. 50; WL 6.8 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 3 / 6; 3% oil; 24% solids; 1% sand; salinity 1000 ppm; PV 32; Yp 9. Cum. mud costs: \$248,369. Brinkerhoff 0/184/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

2-29: Drilling hard sand interbedded with shale at 16,507'. (Prog. 62') 8½" hole. Bit #79 in hole. 18 6½" and 15 4½" drill collars; WOB 50,000#; 50 RPM; 5½" x 18" pump; 57 SPM; 345 GPM; PP 2200 psi; ann. vel. 160; jet vel. 260; bottom hole assembly - bit - one 6½" Drilco drill collar - shock sub - 17 6½" drill collars - 15 4½" hvy. wt. drill collars. Gel-Chem - Wt. 14.3#; Vis. 62; WL 6.4 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 6 / 11; 2% oil; 25% solids; 1½% sand; salinity 900 ppm; PV 47; Yp 25. Cum. mud costs: \$249,494. Brinkerhoff 0/185/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

3-1: Drilling sand and shale at 16,533'. (Prog. 26') 8½" hole. Bit #79 - HTC J-55 - drilled 16,406' to 16,528'. Bit #80 in hole. 18 6½" and 15 4½" drill collars; WOB 45,000#; 45 RPM; 5½" x 18" pump 57 SPM; 345 GPM; PP 2250 psi; ann. vel. 160; jet vel. 260; bottom hole assembly - bit - junk sub - 6½" drill collars - Drilco shock sub - 17 6½" drill collars - 15 jts. 4½" hvy. wt. Dev.: 2½ deg. at 16,528'. Gel-Chem - Wt. 14.3#; Vis. 70; WL 6.6 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 3 / 11; 2% oil; 24% solids; 1% sand; salinity 1000 ppm; PV 65; Yp 22. Cum. mud costs: \$249,495. Brinkerhoff 0/186/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

3-2: Tripping in sand and shale at 16,597'. (Prog. 64') 8½" hole. Bit #80 - Reed SBV - drilled from 16,528' to 16,597'. 18 6½" and 15 4½" drill collars; WOB 45,000#; 45 RPM; 5½" x 18" pump; 57 SPM; 345 GPM; PP 2250 psi; ann. vel. 160; jet vel. 260; bottom hole assembly - bit - junk sub - 6½" drill collar - Drilco shock sub - 17 6½" drill collars - 15 jts. hvy. wt. Gel-Chem - Wt. 14.0#; Vis. 58; WL 6.2 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 5 / 8; 1% oil; 24% solids; 1% sand; salinity 900 ppm; PV 42; Yp 18. Cum. mud costs: \$252,845. Brinkerhoff 0/187/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

3-3: Tripping in hard sand at 16,619'. (Prog. 22') 8½" hole. Bit #81 - HTC XDR drilled from 16,597' to 16,619'. 18 6½" and 15 4½" drill collars; WOB 50,000-55,000#; 43 RPM; 5½" x 18" pump; 57 SPM; 345 GPM; PP 2250 psi; ann. vel. 160; jet vel. 260; bottom hole assembly - bit - Grant 3 pt. nobby reamer - 6½" drill collars - Drilco button stabilizer - shock sub - 17 6½" drill collars - 15 jts. 4½" hvy wt. Gel-Chem - Wt. 14.0#; Vis. 62; WL 6.2 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 5 / 9; 1% oil; 24% solids; 1% sand; salinity 1000 ppm; PV 43; Yp 24. Cum. mud costs: \$253,671. Brinkerhoff 0/188/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
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(307) 234-7311

February 25, 1972

State of Utah  
Division of Oil & Gas Conservation  
1588 W. N. Temple  
Salt Lake City, Utah 84116

**RED CHANNEL FIELD** - Uintah Co., Utah

2-19: Drilling sand, shale and chert at 16,040'. (Prog. 27') 8½" hole. Bit #75 - HTC J-55 - drilled 15,891' to 16,017'. Dev.: 3/4 deg. at 16,017'. Background gas - zero. Gel-Chem - Wt. 14.0#.

2-20: Drilling sand and shale at 16,087'. (Prog. 47') 8½" hole. Bit #76 HTC J-55 drilled 16,017' to 16,087'. Background gas - zero. Gel-Chem - Wt. 13.8#.

2-21: Drilling shale and sand at 16,138'. (Prog. 51') 8½" hole. Bit #77 in hole. Gel-Chem - Wt. 14.1#.

2-22: Trip in with dia. bit. Depth 16,168' - hard shale and sand. (Prog. 30') 8½" hole. Bit #76 - HTC J-55 - drilled 16,017' to 16,168'. Bit #77 in hole. 18 6½" and 15 4½" drill collars; WOB 40,000-45,000#; 44 RPM; 5½" x 18" pump; 57 SPM; 340 GPM; PP 2250 psi; ann. vel. 160; jet vel. 260; bottom hole assembly - full gauge 8½" dia. bit, Drilco near-bit stabilizer - 15 6½" drill collars - cross-over sub - 6 3/8" daily drlg. jars - cross-over sub - three 6½" drill collars - 15 4½" drill collars. Gel-Chem - Wt. 14.0+#; Vis. 66; WL 8.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 5 / 11; 4% oil; 23% solids; 1% sand; salinity 1000 ppm; PV 44; Yp 24. Cum. mud costs: \$240,647. Spearpoint and buttons picked up in junk basket. Brinkerhoff 0/178/0.

**RED CHANNEL FIELD** - Uintah Co., Utah

**Conoco #22-1 Federal** - Conoco 1.0000000 - CONOILLTD (Confidential)

Drilling shale and streaks of sand at 16,225'. (Prog. 57') 8 1/2" hole. Bit #77 - ACC Dia-Trigg - drilled 16,168' to 16,225'. 18 6 1/2" and 15 4 1/2" drill collars; WOB 15,000#; RPM 55; 5 1/2" x 18" pump; 57 SPM; 345 GPM; PP 2300 psi; ann. vel. 160; bottom hole assembly - Diamond bit, near-bit stabilizer, one 6 1/2" drill collar, shock sub, 14 6 1/2" drill collars, 6 3/8" daily drlg. jars, 3 6 1/2" drill collars, 15 4 1/2" drill collars - heavy wt. Gel-Chem - Wt. 14#; Vis. 61; WL 6.8 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 9; 3% oil; 23% solids; 1% sand; salinity 1000; PV 41; Yp 18. Cum. mud costs: \$241,300. Brinkerhoff 0/179/0.

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)

Drilling shale and streaks of sand at 16,294'. (Prog. 69'). 8 1/2" hole. Bit #77 - ACC Dia-Trigg - drilled 16,225' to 16,294'. 18 6 1/2" and 15 4 1/2" drill collars; WOB 15,000-20,000#; RPM 50-55; 5 1/2" x 18" pump; 57 SPM; GPM 345; PP 2300; ann vel. 160; bottom hole assembly - Diamond bit, near-bit stabilizer, one 6 1/2" drill collar, shock sub, 14 6 1/2" drill collars, 6 3/8" daily drlg. jars, 3 6 1/2" drill collars, 15 4 1/2" drill collars. Gel-Chem - Wt. 14.1#; Vis. 70; WL 6.6 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 6 / 11; 3% oil; 24% solids; 1% sand; salinity 1000; PV 55; Yp 30. Cum. mud costs: \$243,947. Brinkerhoff 0/180/0.

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)

Drilling shale and streaks of sand at 16,361'. (Prog.) 67'. 8 1/2" hole. Bit #77 - ACC Dia-Trigg - drilled 16,294' to 16,361'. 18 6 1/2" and 15 4 1/2" drill collars; WOB 20,000#; RPM 60; 5 1/2" x 18" pump; 57 SPM; GPM 345; PP 2300#; ann. vel. 160; bottom hole assembly - Diamond bit, near-bit stabilizer, one 6 1/2" drill collar, shock sub, 14 6 1/2" drill collars, 6 3/8" daily drlg. jars, 3 6 1/2" drill collars, 15 4 1/2" drill collars. Gel-Chem. Wt. 14.0#; Vis. 67; WL 6.8 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 5 / 9; 3% oil; 25% solids; 1% sand; salinity 1000; PV 47; Yp 22. Cum. mud costs: \$244,575 Brinkerhoff 0/181/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
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(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD (Confidential)**

2-12: Running DST #3. Depth 15,800'. 8½" hole. Bit #72 - HTC X55R - drilled 15,675' to 15,800'. Gel-Chem - Wt. 14.0#.

2-13: Breaking out DST tool. Depth 15,800'. 8½" hole. Ran DST #3 - 15,709' to 15,800'. Temp 288° F. BHT. 8 hrs. reversing out chshion and circulating out gas kick from above DST packers. Gel-Chem - Wt. 14.0#.

2-14: Tripping in sand and shale at 15,828'. (Prog. 28') 8½" hole. Bit #73 in hole. 18 6½" and 15 4½" drill collars; WOB 55,000#; 43 RPM; 5½" x 18" pump; 57 SPM; 340 GPM; PP 2250 psi; ann. vel. 160; jet vel. 260. Gel-Chem - Wt. 13.8#; Vis. 63; WL 9.2 cc; FC 2/32; pH 9.0; gel strength ini./10 min. 5 / 8; 2.5% oil; 22.5% solids; 1% sand; salinity 880 ppm; PV 47; Yp 11. Cum. mud costs \$224,216. Brinkerhoff 0/170/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

2-15: Drilling sand and shale at 15,869'. (Prog. 41') 8 1/2" hole. Bit #74 SM 4JS - drilled from 15,828' to 15,869'. 18 6½" and 15 4½" heavy wt. drill collars; WOB 45,000# to 55,000#; 30-45 RPM; 5½" x 18" pump; 57 SPM; 340 GPM; PP 2300 psi; ann. vel. 160; jet vel. 280. Gel-Chem - Wt. 14.0#; Vis. 66; WL 9.4 cc; FC 2/32; pH 9.0; gel strength ini./10 min. 2 / 10; 2% oil; 23% solids; 1½% sand; salinity 1000 ppm; PV 52; Yp 20. Cum. mud costs \$225,911. Brinkerhoff 0/171/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

2-16: Drilling sand and shale at 15,899'. (Prog. 30') 8½" hole. Bit #74 - Smith 4JS - drilled 15,828' to 15,891'. Bit #75 in hole. 18 6½" and 15 4½" drill collars; WOB 30,000-35,000#; 43 RPM; 5½" x 18" pump; 57 SPM; 340 GPM; PP 2450 psi; ann. vel. 160; jet vel. 280. Gel-Chem - Wt. 14.0#; Vis. 76; WL 10.4 cc; FC 2/32; pH 9.0; gel strength ini./10 min. 5 / 10; 2% oil; 23% solids; 1/2 of 1% sand; salinity 1100 ppm; PV 43; Yp 11. Cum. mud costs: \$228,337. Brinkerhoff 0/176/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

2-17: Drilling sand and shale at 15,966'. (Prog. 67') 8½" hole. Bit #75 - HTC J-55 - drilled from 15,891' to 15,966'. 18 6½" and 16 4½" drill collars; WOB 45,000#; 44 RPM; 5½" x 18" pump; 57 SPM; 340 GPM; PP 2450 psi; ann. vel. 160; jet vel. 280; bottom hole assembly - bit - 6½" drill collars - Drilco shock sub (spring load) - 17 6½" drill collars - 15 4½" drill collars. Gel-Chem - Wt. 14.1#; Vis. 70; WL 10.0 cc; FC 2/32; pH 9.0; gel strength ini./10 min. 6 / 11; 3% oil; 24% solids; 1/2 of 1% sand; salinity 1050 ppm; PV 54; Yp 21. Cum. mud costs: \$230,229. Brinkerhoff 0/173/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)

2-18: Drilling sand, shale and chert at 16,013'. (Prog. 47') 8½" hole. Bit #75 - HTC J-55 - drilled 15,891' to 16,013'. 18 6½" and 15 4½" drill collars; WOB 45,000#; 44 RPM; 5½" x 18" pump; 57 SPM: 340 GPM; PP 2450 psi; ann. vel. 160; jet vel. 280; bottom hole assembly - bit - 6½" drill collar - Drilco shock sub (spring load) - 17 6½" drill collars - 15 4½" drill collars. Gas kick at 16,004' - 300 units background gas. Gel-Chem - Wt. 14.0#; Vis. 76; WL 10.0 cc; FC 2/32; pH 9.0; gel strength ini./10 min. 7 / 13; 3% oil; 22% solids; 1/2 of 1% sand; salinity 1200 ppm; PV 53; Yp 26. Cum. mud costs: \$232,286. Brinkerhoff 0/174/0.

**Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD (Confidential)**

2-10: Drilling sand and shale at 15,709'. (Prog. 41') 8 1/2" hole. Hole sloughing slightly after each trip. Trip did not require putting well on choke. Only small gas bubble. Bit #71 Reed-SBV drilled from 15,647' to 15,675'. Bit #72 in hole. 18 - 6 1/2" drill collars; WOB 45,000#; 44 RPM; 5 1/2" x 18" pump; 57 SPM; 340 GPM; PP 2250 psi; ann. vel. 160; jet vel. 312; bottom hole assembly - bit - no junk sub - 6 1/2" drill collars - shock sub - 17 - 6 1/2" drill collars - 15 4 1/2" drill pipe. Gel-Chem - Wt. 13.7#; Vis. 52; WL 8.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 3 / 8; 3% oil; 23% solids; 1/4 of 1% sand; salinity 2000 ppm; PV 34; Yp 10. Cum. mud costs: \$220,339. Brinkerhoff 0/166/0.

**Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD (Confidential)**

2-11: Conditioning mud for DST #3. Depth 15,800' - sand. (Prog. 91') 8 1/2" hole. Bit #72 - HTC X55R - drilled 15,675' to 15,800'. 18 6 1/2" and 15 4 1/2" drill collars; WOB 40,000#; 45 RPM; 5 1/2" x 18" pump; 57 SPM; 340 GPM; PP 2250 psi; ann. vel. 160; jet vel. 312; bottom hole assembly - bit - no junk sub - 6 1/2" drill collars - shock sub - 17 6 1/2" drill collars - 15 4 1/2" drill collars. Gel-Chem - Wt. 14.0#; Vis. 75; WL 6.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 5 / 12; 4% oil; 21% solids; 1/4 of 1% sand; salinity 1700 ppm; PV 64; Yp 18. Cum. mud costs: \$222,214. Brinkerhoff 0/167/0.



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**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

2-5: Tripping in shale with streaks of sand at 15,541'. (Prog. 80') 8½" hole. Bit #68 - Smith SS5J - drilled 15,461' to 15,541'. Gel-Chem - Wt. 13.7#.

2-6: Tripping in sand at 15,574'. (Prog. 33') 8½" hole. Bit #69 - Reed YHG - drilled 15,541' to 15,574'. Gel-Chem - Wt. 13.8#.

2-7: Drilling sand and shale at 15,636'. (Prog. 62') 8½" hole. Bit #70 - Reed FCHJ - drilled 15,574' to 15,636'. 21 6½" and 15 4½" drill collars; WOB 35,000-45,000#; 43 RPM; 5½" x 18" pump; 57 SPM; 340 GPM; PP 2250 psi; ann. vel. 160; jet vel. 312; bottom hole assembly - bit - junk sub - 6½" drill collars - shock sub - 20 6½" drill collars - 15 jts. 4½" hvy wt. drill pipe. Mud becomes heavily gas cut after drilling each sand stringer. Gel-Chem - Wt. 13.7#; Vis. 59; WL 9.6 cc; FC 2/32; pH 10.0; gel strength ini./10 min. 4 / 8; 1.5% oil; 23% solids; 1/2 of 1% sand; salinity 800 ppm; PV 33; Yp 18. Cum. mud costs: \$218,297. Brinkerhoff 0/163/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

2-8: Prep. to fish for cones. Depth 15,647'. (Prog. 11') 8½" hole. Drilled to 15,647'. Made trip out. Found #1 cone and one-half of #2 cone missing. Raised BOP stack and changed out secondary packing on guide ring of 9 5/8" casing. Ran in hole with 8" magnet and junk sub. Circulating out gas bubble. Bit #70 - Reed FCH-J - drilled 15,574' to 15,647'. 18 6½" and 15 4½" drill collars; WOB 45,000#; 43 RPM; 5½" x 18" pump; 57 SPM; 340 GPM; PP 2250 psi; ann. vel. 160; jet vel. 312; bottom hole assembly - Bowen 8" magnet - junk sub - 18 6½" drill collars - 15 jts. 4½" hvy. wt. drill pipe. Gel-Chem - Wt. 13.7#; Vis. 54; WL 9.8 cc; FC 2/32; pH 10.0; gel strength ini./10 min. 5 / 8; 2% oil; 23% solids; 1/2 of 1% sand; salinity 1500 ppm; PV 36; Yp 16. Cum. mud costs: \$218,636. Brinkerhoff 0/164/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

2-9: Drilling shale with sand at 15,668'. (Prog. 21') 8½" hole. Ran Bowen 8" magnet. Recovered all of cones. Pressure checked BOP's to 1000 psi for 10 min. Okay. Ran in to bottom. Put well on choke for 1 hr. to circulate out gas bubble. Bit #71 in hole. 18 6½" and 15 4½" drill collars; WOB 50,000#; 43 RPM; 5½" x 18" pump; 57 SPM; 340 GPM; PP 2400 psi; ann. vel. 160; jet vel. 312; bottom hole assembly - bit - junk sub - 6½" drill collars - shock sub - 17 6½" drill collars - 15 4½" drill pipe. Gel-Chem - Wt. 13.8#; Vis. 58; WL 8.2 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 1 / 4; 3% oil; 20% solids; 1/2 of 1% sand; salinity 1000 ppm; PV 28; Yp 15. Cum. mud costs: \$218,636. Brinkerhoff 0/165/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

2-3: Drilling sand and shale at 15,429'. (Prog. 6') 8½" hole. Drilled to 15,426'. Made trip. Installed rotating head and leveled rig while out of hole. (8 hrs.) Mud line froze. Required 1 3/4 hrs. to thaw out. Returned to bottom. Began drilling. Very little trip gas. Bit #66 - HTC XD7 - drilled 15,302' to 15,426'. Bit #67 in hole. 21 6½" and 15 4½" drill collars; WOB 45,000#; 43 RPM; 5½" x 18" pump; 57 SPM; 345 GPM; PP 2000 psi; ann. vel. 167; jet vel. 250; bottom hole assembly - bit - junk sub - 6½" drill collars - shock sub - 20 6½" drill collars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 13.4#; Vis. 58; WL 8.8 cc; FC 2/32; pH 9.7; gel strength ini./10 min. 5 / 10; 3% oil; 23% solids; 1/2 of 1% sand; salinity 2100 ppm; PV 40; Yp 26. Cum. mud costs: \$213,441. Brinkerhoff 0/159/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

2-4: Tripping in shale and some sand at 15,461'. (Prog. 32') 8½" hole. Bit #67 - HTC XDR - drilled 15,426' to 15,461'. Made trip at 15,461'. Had to put well on choke for 1 3/4 hrs. to circulate out gas kick. 21 6½" and 15 4½" drill collars; WOB 40,000-55,000#; 43 RPM; 5½" x 18" pump; 57 SPM; 345 GPM; PP 2000 psi; ann. vel. 167; jet vel. 250. Dev.: 3/4 deg. at 15,460'. Gel-Chem - Wt. 13.7#; Vis. 51; WL 9.6 cc; FC 2/32; pH 10.0; gel strength ini./10 min. 4 / 8; 3% oil; 26% solids; 1/2 of 1% sand; salinity 800 ppm; PV 40; Yp 17. Cum. mud costs: \$215,922. Brinkerhoff 0/160/0.



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**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

1-29: Drilling shale at 15,103'. (Prog. 103') 8½" hole. Background gas = 1400 units. Gel-Chem - Wt. 13.6#.

1-30: Drilling shale and sand at 15,149'. (Prog. 46') 8½" hole. Bit #64 - HTC XD7 - drilled 14,967' to 15,106'. Bit #65 in hole. Dev.: 1 deg. at 15,106'. 1500 units background gas. Gel-Chem - Wt. 13.7#.

1-31: Drilling shale and sand at 15,292'. (Prog. 143') 8½" hole. Bit #65 - HTC XD7 - drilled 15,106' to 15,292'. 18 6½" and 15 4½" drill collars; WOB 45,000#; 43 RPM; 5½" x 18" pump; 56 SPM; 340 GPM; PP 2000 psi; ann. vel. 160; jet vel. 260; bottom hole assembly - bit - 6½" drill collars - shock sub - eight 6½" drill collars - stabilizer - nine 6½" drill collars - stabilizer. 1500 units background gas. Gel-Chem - Wt. 13.6+; Vis. 68; WL 9.2 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 5 / 11; 3% oil; 22% solids; 1/2 of 1% sand; salinity 2000 ppm; PV 40; Yp 22. Cum. mud costs: \$211,662. Brinkerhoff 0/156/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

2-1: Drilling silt and shale at 15,352'. (Prog. 60') 8½" hole. Made trip at 15,302'. Put well on choke for 1½ hrs. to circ. out gas after trip. 200 units background gas. Bit #65 - HTC XD7 - drilled 15,106' to 15,302'. Bit #66 in hole. 21 6½" and 15 4½" drill collars; WOB 45,000#; 43 RPM; 5½" x 18" pump; 56 SPM; 340 GPM; PP 2700 psi; ann. vel. 160; jet vel. 260; bottom hole assembly - bit - 6½" drill collars - shock sub - eight 6½" drill collars - stabilizer - nine 6½" drill collars - stabilizer. Gel-Chem - Wt. 13.6#; Vis. 68; WL 9.2 cc; FC 2/32; pH 9.8; gel strength ini./10 min. 5 / 12; 3% oil; 23% solids; salinity 2000 ppm; PV 52; Yp 31. Cum. mud costs: \$212,204. Brinkerhoff 0/157/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

2-2: Drilling sand and shale at 15,423'. (Prog. 71') 8½" hole. Bit #66 in hole. 21 6½" and 15 4½" drill collars; WOB 45,000#; 43 RPM; 5½" x 18" pump; 56 SPM; 340 GPM; PP 2000 psi; ann. vel. 160; jet vel. 262; bottom hole assembly - bit - 6½" drill collars - shock sub - eight 6½" drill collars - stabilizer - nine 6½" drill collars - stabilizer. Gel-Chem - Wt. 13.4#; Vis. 58; WL 8.8 cc; FC 2/32; pH 9.7#; gel strength ini./10 min. 5 / 10; 3% oil; 24% solids; 1/2 of 1% sand; salinity 2100 ppm; PV 40; Yp 20. Cum. mud costs: \$213,071. Brinkerhoff 0/158/0.



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C O N F I D E N T I A L

Not for public information.

DRILLING WELL COMMENCEMENTS

RED CHANNEL FIELD

Conoco #22-1 Federal - CONOILLTD. - Madison - 21,400' - Conoco 1.0000000

Location: 600' FWL, 810' FSL, SW SW Sec. 22, T9S, R20E, Uintah Co., Utah.  
AFE 12-20-1855. API Well No. 43-047-30111. Contractor: Brinkerhoff Drlg.  
Mud supplier: Magcobar. Gr. Elev. 4833'.

Spudded 5 p.m. 8-28-71. Dynadrill appears to be stalling out. Cannot put on any weight. Preparing to pull out of hole and rerun with 17 1/2" bit. Depth 157' - shale. (Prog. 119') 26" hole. Dev.: 1/2 deg. at 116'. Drilling with gel and water - Wt. 8.9#.

8-30: Drilling shale at 425'. (Prog. 264') 17 1/2" hole. Pulled Dynadrill and 26" bit. Bit okay. Dynadrill worn and will not turn 26" bit. Reran new Dynadrill with 17 1/2" bit. Bit #1 - HTC OSC - drilled 161' to 122'. Six 9" and five 8" drill collars; WOB 15,000-25,000#; 250 RPM; pump size - 7" x 18" and 6" x 18"; 38 SPM; 635 GPM; PP 950 psi; ann. vel. 48; jet vel. 215; bottom hole assembly - bit - Dynadrill - 6 pt. stabilizer on bottom - rubber stabilizer on top - shock sub - 11 drill collars. Dev.: 3/4 deg. at 234'; 1 at 327; 3/4 at 358'; 3/4 at 385'. Drilling with gel-water - Wt. 9.0#. Vis. 50. Cum. mud costs: \$168.  
Brinkerhoff 0/2/0.

Conoco #22-1 Federal - CONOILLTD - Conoco 1.0000000

8-31: Drilling sand and shale at 718'. (Prog. 293') 17 1/2" hole. Bit #2 - Sec. S3J - drilled 161' to 465'. Six 9" and nine 8" drill collars; WOB 15,000-25,000#; 250 RPM; pump size - 6" x 18" and 7" x 18"; 38 SPM; 635 GPM; PP 1300#; ann. vel. 48; jet vel. 260; bottom hole assembly - bit - Dynadrill - 6 pt. stabilizer on bottom - rubber Drilco stabilizer on top - shock sub, then drill collars. Dev.: 1 deg. at 430 and 526'; 1/2 at 512' and 1 at 656'. Having difficulty making connections. Cannot put any weight on bit without deviation coming up. Drilling with gel-water - Wt. 9.0#; Vis. 60; WL 19.8 cc; FC 2/32; pH 10.0; gel strength ini./10 min. 3 / 25; 5% solids; 1/2 of 1% sand; PV 13; Yp 8. Cum. mud costs: \$317. Brinkerhoff -0/3/0.

Conoco #22-1 Federal - CONOILLTD - Conoco 1.0000000

9-1: Drilling in hard shale rocks with streaks of sand at 935'. (Prog. 217') 17 1/2" hole. Bit #3 - Smith S3J - drilled 465' to 751'. Six 9" and nine 8" drill collars; WOB 15,000-20,000#; 110 RPM; pump size - 7" x 18" and 6" x 18"; 58 SPM; 960 GPM; PP 1700 psi; ann. vel. 91; jet vel. 335; bottom hole assembly - bit - two 9" drill collars - 17 1/2" rubber stabilizer - shock sub - two 9" drill collars - stabilizer - two 9" drill collars and nine 8" drill collars. Dev.: 1 3/4 deg. at 690'; 1 1/4 at 822' and 895'. Drilling with water-gel - Wt. 9.0#; Vis. 56; WL 16.4 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 2 / 20; 1/4 of 1% sand; PV 13; Yp 9. Cum. mud costs: \$591. Brinkerhoff 0/4/0.



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C O N F I D E N T I A L

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD

9-18: Drilling in Green River at 1959'. (Prog. 229') 12 1/4" hole. Bit #6 - HTC OSC3J - drilled 1730-1789'. Drilling with gel and water - Wt. 8.4#.

9-19: Drilling in Green River at 2192'. (Prog. 233') 12 1/4" hole. Bit #7 Smith DTJ - drilled 1789-1966'. Bit #8 - Sec. S3J - drilled 1966' to 2157'. Dev.: 2 1/2 deg. at 2157'. 20' fill on last trip. Drilling with gel and water - Wt. 8.4#.

9-20: Tripping in Green River at 2520'. (Prog. 328') 12 1/4" hole. Bit #9 - Reed YT3J - drilled 2157-2346'. Six 9" and fifteen 8" drill collars; WOB 45,000-55,000#; 90 RPM; 6 1/4" x 18" pump; 59 SPM; 445 GPM; PP 1700 psi; ann. vel. 85; bottom hole assembly - 12 1/4" bit - 12 1/4" 3 pt. reamer, 10' x 10" drill collars - stabilizer - one 9" drill collar - shock sub - stabilizer - two 9" drill collars - stabilizer - three 9" drill collars - stabilizer - 15 8" drill collars. Drilling water and gel - Wt. 8.4#; Vis. 27; WL 56 cc; FC 1/32; pH 9.5; gel strength ini./10 min. 0 / 0; 1.5% solids; trace of sand; salinity 200 ppm; PV 1; Yp 1. Brinkerhoff 0/23/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

Drilling in Green River at 2828'. (Prog. 308') 12 1/4" hole. Bit #10 - Sec. S4TG - drilled 2346' to 2520'. Bit #11 - HTC - OSC1G - drilled 2520-2796'. Bit #12 in hole. Six 9" and fifteen 8" drill collars; WOB 45,000#; 44 RPM; pump size - 6" x 18"; 59 SPM; 445 GPM; PP 1700 psi; ann. vel. 85; jet vel. 422; bottom hole assembly - 12 1/4" bit - 12 1/4" 3 pt. reamer - 10' x 10" drill collars - stabilizer - one 9" drill collar - shock sub - stabilizer - two 9" drill collars - stabilizer - three 9" drill collars - stabilizer - 15 8" drill collars. Dev.: 2 3/4 deg. at 2520'; 2 1/2 deg. at 2800'. Drilling with low solids mud - Wt. 8.5#; Vis. 27; WL 82 cc; FC 2/32; pH 11.0; 2% solids; 1/2 of 1% sand; salinity 1400 ppm; PV 1; Yp 1. Cum. mud costs: \$6,326. Brinkerhoff 0/24/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

Drilling in Green River at 3309'. (Prog. 481') 12 1/4" hole. Bit #12 - Smith 4JS - in hole at 2796'. Six 9" and fifteen 8" drill collars; WOB 45,000#; 45 RPM; 6 1/4" x 18" pump; 59 SPM; 445 GPM; PP 1700 psi; ann. vel. 85; jet vel. 422; bottom hole assembly - 12 1/4" bit - 12 1/4" 3 pt. reamer - 10' x 10" drill collars - stabilizer - one 9" drill collar - shock sub - stabilizer - two 9" drill collars - stabilizer - three 9" drill collars - stabilizer - 15 8" drill collars. Dev.: 1 3/4 deg. at 3090'. Drilling with low solids mud - Wt. 8.6#; Vis. 29; WL 2/32; pH 11.0; 2 1/2% solids; 1/8 of 1% sand; salinity 2600 ppm; PV 2; Yp 2. Cum. mud costs: \$6707.

Drilling break - 3255-58'. 3266-71' - 1900 units gas - 100% methane. Shut in 10 min. 65# on casing, 0# on drill pipe. Brinkerhoff 0/25/0.

FORM OGC-8-X

FILE IN QUADRUPLICATE

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS CONSERVATION  
1588 West North Temple  
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Conoco 22-1 Federal  
Operator Continental Oil Co. Address 152 N. Durbin - Casper Phone 234-7311  
Contractor Brinkerhoff Drlg. Co. Address Box 1568 - Casper Phone 235-6628  
Location SW 1/4 SW 1/4 Sec. 22 T. 9 N. R. 20 E Uintah County, Utah  
S W

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. 3750'		25 BPH	Fresh
2.			..
3.			
4.			
5.			

(Continue on reverse side if necessary)

Formation Tops:

None.

Remarks:

- NOTE:
- (a) Upon diminishing supply forms, please inform this office.
  - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See Back of form).
  - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

\*\* FILE NOTATIONS \*\*

DATE: 8-5-71  
OPERATOR: Continental Oil Company  
WELL NO: Conoco-Ed. # 22-1  
Location: Sec. 22 T. 9S R. 00E County: Utah

File Prepared:  Entered on N.I.D:   
Card Indexed:  Completion Sheet:

API Number 43-047-30111

CHECKED BY:

Petroleum Engineer: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Director: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Administrative Aide: ok as per Rule C-3, provided not completed as a gas well in dew point formation. unless hearing before the board.

APPROVAL LETTER:

Bond Required:  Survey Plat Required:   
Order No. \_\_\_\_\_ O.K. Rule C-3   
Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation  Plotted on Map

Approval Letter Written

Hot Line  P.I.

August 5, 1971

Continental Oil Company  
152 North Durbin Street  
Casper, Wyoming 82601

Re: Well No. Conoco Federal #22-1  
Sec. 22, T. 9 S, R. 20 E,  
Uintah County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above mentioned well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure. However, approval is conditional upon said well not being completed as a gas well within the Wasatch Formation until after due Notice and Hearing.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL-Chief Petroleum Engineer  
HOME: 277-2890  
OFFICE: 328-5771

This approval terminates within 90 days if the well has not been spudded-in within said period.

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-047-30111.

Very truly yours,  
DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sd  
cc: U.S. Geological Survey

Branch of Oil and Gas Operations  
8416 Federal Building  
Salt Lake City, Utah 84111

September 8, 1971

Continental Oil Company  
152 North Durbin Street  
Casper, Wyoming 82601

Re: Well No. 1, Conoco Federal 22  
SW SW Sec. 22, T 9 S, R 20 E, SIM  
Uintah County, Utah  
Lease Utah 0577-A

Gentlemen:

The Water Resources Division of the United States Geological Survey is conducting a comprehensive study of all water resources of the Uinta Basin including both surface water and ground water. The Water Resources Division is particularly interested in uncontaminated samples of water taken from the older formations in the basin. Such samples would be invaluable in helping to solve anomalous occurrences of fresh water such as in the Weber formation at Ashley Valley.

We recognize that the well is "tight hole" and the analyses of any samples would be kept confidential until such time as you release the data. Mr. J. W. Hood, telephone 524-5654 would like to be notified by collect telephone calls when you are running drill stem tests so that one of his project people could take a sample as the drill string is broken out. He would like a sample of any water cushion also. Conoco would be supplied a copy of any analysis made.

If you can permit this sampling, please let us know. Also would you please make arrangements with personnel at the rig to allow these Survey personnel on the floor.

Sincerely yours,

(ORIG. SGD)

Gerald R. Daniels,  
District Engineer

cc; J.W. Hood  
8002 Federal Building  
Salt Lake City, Utah 84111

State of Utah Div. of Oil & Gas Cons.

**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

**FOR U.S. GOVERNMENT USE ONLY**  
Form approved by Budget Bureau No. 42-R1424.

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

**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  GAS WELL  OTHER

2. NAME OF OPERATOR  
**Continental Oil Company**

3. ADDRESS OF OPERATOR  
**152 North Durbin, Casper, Wyoming 82601**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
**600' FWL, 810' FSL**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**4833' GR**

5. LEASE DESIGNATION AND SERIAL NO.  
**Utah 0577-A**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Conoco Federal 22**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA  
**Sec. 22, T9S, R20E**

12. COUNTY OR PARISH  
**Uintah**

13. STATE  
**Utah**

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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Casing Run</u> <input checked="" type="checkbox"/>	

(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.)\*

This well was spudded August 28, 1971. Drilled 17 1/2" hole to 1730'. Reamed 17 1/2" hole to 26" at 1725' and ran 41 joints 20" OD, 94#, H-40, ST&C casing at 1720' RB. Cemented casing with 1790 sacks of 65-35% Class "G" and "Lite-Poz" with 6% gel, 1/4#/sack Clinton Flake and 3% CaCl<sub>2</sub>. Tailed in with 1060 sacks of Class "G", 1/4#/sack Clinton Flake and 2% CaCl<sub>2</sub>. Bumped plug at 3:30 p.m. on September 14, 1971 with 1500 psi. 100% returns throughout job. (Cement to surface)

Drilled 12 1/4" hole to 12,130'. Pulled DST No. 1 in the Mancos "B" formation. DST #1 - 11,927'-12,130'. 2100' water cushion. Tool open at 6:55 a.m. on December 13, 1971 with strong blow. IF 5 min., ISI 10 min., second flow 10 min., second SI 60 min., FF 120 min. IHHP 6418#, IFP 1031# - steady; ISI 1592#; second flow 1013# - steady; second SI 2459#; FFP 1049 to 1230#; FSIP 1519#; FHHP 6382#. BHT 198° F. Opened tool. Gas to surface in 33 min. Measured as follows on 1/8" orifice.

5 minutes	20 psi	12 MCF
15 minutes	45 psi	22 MCF
25 minutes	70 psi	28 MCF
35 minutes	95 psi	36 MCF
45 minutes	95 psi	36 MCF
60 minutes	100 psi	38 MCF
75 minutes	105 psi	40 MCF

(Continued next page)

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

SIGNED J. A. Usher TITLE Administrative Supervisor DATE 1/19/72

(This space for Federal or State office use)

ACCEPTED JR Davis TITLE DISTRICT ENGINEER DATE JAN 26 1972

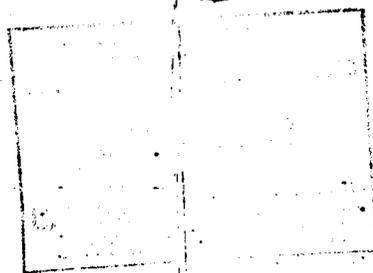
APPROVED BY JR Davis TITLE DISTRICT ENGINEER DATE JAN 26 1972

CONDITIONS OF APPROVAL, IF ANY:

**CONFIDENTIAL - This information NOT for release to public.**

\*See Instructions on Reverse Side

Subsequent Report of  
Casing Run  
Conoco Federal 22 No. 1  
Page 2  
1/19/72



Recovered 2000' heavily mud and gas cut water cushion. Sample chamber - 3 cu. ft. dry gas, no fluid, 950 psi. Gas is 97% methane. FSIP did not stabilize.

Drilled 12 1/4" hole to 14,587' and ran Schlumberger Dual Laterolog from 14,587' to surface pipe at 1725'. Tops:

Mesa Verde	8,032'
Mancos	10,252'
Top of Castlegate	10,630'
Base of Castlegate	10,896'
Emery (Mancos "B")	11,805-12,010'

Drilled 12 1/4" hole to 14,665'. Ran FDC log 14,658 to 14,300'. Tool hung up. Ran Schlumberger BHC Sonic-Gamma w/Caliper 14,655-1720'. Ran Int. FDC-Neutron log from 12,600 to 1720'. (FDC stopped working at 4000') Continued attempting to get complete log five hours, then stopped.

Depth 14,667'. Installed 9 5/8" casing rams in BOP. Ran 372 joints of 9 5/8" 40.0# and 43.5# MOD N-80 casing with Baker automatic float shoe and float collar. Ran Baker 2-stage collar at 4385' with metal petal baskets at 4405' and 4430'. Circulated last two joints of casing down to 14,666'. Cemented through shoe at 14,666' with 1000 gal. mud flush, 360 sacks of Halliburton "Lite-Weight" cement with 40% silica flour, 18% NaCl, and 1% CFR-2, followed by 200 sacks Class "G" with same additives and .2% HR-4. Displaced with 1098 bbl. drilling fluid. Bumped plug at 7:10 p.m. with 2000 psi. Held okay. Opened 2-stage collar to 4385'. Cemented through stage collar at 4385' with 1000 gal. mud flush, 1150 sacks "Lite-Weight" with 3% CaCl<sub>2</sub> followed with 335 sacks of Class "G" with 2% CaCl<sub>2</sub>. Bumped plug at 12:15 a.m. with 2000 psi. WOC 12 hours.

Tested BOP to 5000#. Depth 14,667'. PBTD 4385', float collar 14,620'. Cleaned out hole and drilling ahead at 14,769 on January 18, 1972.

CONFIDENTIAL - This information not  
for release to public.

NOT FOR PUBLIC INSPECTION

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)

1-26: Drilling sand and shale at 14,884'. (Prog. 81') 8½" hole. Worked bottom of hole and circulated for 1 hr. Tight hole. Appears that shale is sloughing. Drilled to 14,818'. Extremely tight connection. Worked 2 hrs. to free up. Drilled to 14,849'. Extremely tight connection. 2 hrs. to free up. Last connection at 14,880' very good. Bit #63 - HTC X-D7 - drilled 14,803' to 14,884'. 18 6½" and 15 4½" drill collars; WOB 45,000#; 43 RPM; 5½" x 18" pump; 57 SPM; GPM 350; PP 2100 psi; ann. vel. 165; jet vel. 250; bottom hole assembly - 8½" bit - junk sub - one 6½" drill collar - Drilco shock sub - four 6½" drill collars - Grant stabilizer - four 6½" drill collars - one Grant stabilizer - nine 6½" drill collars. Gel-Chem - Wt. 13.1#; Vis. 57; WL 10.6 ccl FC 2/32; pH 9.6; gel strength ini./10 min. 8 / 14; 19% solids; trace of sand; salinity 2600 ppm; PV 47; Yp 21. Cum. mud costs: \$199,430. Brinkerhoff 0/151/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)

1-27: Trip in sand and shale at 14,967'. (Prog. 83') 8½" hole. Drilled sand stringers about 14,900'. Circulated well on choke for 1 hr. at 14,910'. Returned to drilling. Possible formation change at 14,960'. Bit #63 - HTC X-D7 - drilled 14,803' to 14,967'. 18 6½" and 15 4½" drill collars; WOB 45,000-55,000#; 43 RPM; 5½" x 18" pump; 57 SPM; 346 GPM; PP 2250 psi; ann. vel. 167; jet vel. 250; bottom hole assembly - 8½" bit - junk sub - one 6½" drill collar - Drilco shock sub - four 6½" drill collars - Grant stabilizer - four 6½" drill collars - one Grant stabilizer - nine 6½" drill collars. Gel-Chem - Wt. 13.2#; Vis. 93; WL 9.4 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 5 / 14; 3% oil; 16% solids; trace of sand; salinity 2500 ppm; PV 50; Yp 25. Cum. mud costs: \$203,004. Brinkerhoff 0/152/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)

1-28: Drilling shale with sand stringers at 15,000'. (Prog. 33') 8½" hole. Bit #64 in hole. Tested blind rams to 2850#, 5" to 2500#, hydril to 1750#, and 4½" rams to 1000#. (Wear bushing in good shape.) 400 units background gas. Placed well on choke after trip gas up from bottom. 18 6½" and 15 4½" drill collars; WOB 45,000#; 43 RPM; 5½" x 18" pump; 57 SPM; 345 GPM; PP 2000 psi; ann. vel. 167; jet vel. 250; bottom hole assembly - 8½" bit - one 6½" drill collar - Drilco junk sub - four 6½" drill collars - Grant stabilizer - four 6½" drill collars - Grant stabilizer - nine 6½" drill collars - 15 jts. 4½" hvy. wt. drill collars. Gel-Chem - Wt. 13.2#; Vis. 90; WL 9.0; FC 2/32; pH 9.5; gel strength ini./10 min. 2 / 12; 3% oil; 16% solids; trace of sand; salinity 2500 ppm; PV 50; Yp 25. Cum. mud costs: \$204,740. Brinkerhoff 0/153/0.



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

1-22: Trip in hole with bit. Depth 14,803' - sand and shale. 8½" hole. Finished running test tools in hole for DST #2A. Flow detected from drill pipe. Set packers at 14,599' and 14,590' and flow continued with fluid in annulus still dropping. Pumping fluid in annulus. Cycled test tool (opened tool and closed - 15 seconds.) Rotated open circulating sub above test tool. Reversed out remainder of water cushion. Placed kelly on drill pipe. Began circulating thru drill pipe. Circulated 5½ hrs. Mud heavily gas cut. Pulled packers loose and shut down 1 hr. (Waited on gas to migrate up above circulating sub.) Circulated 4 hrs. Heavily gas cut mud and free gas in pockets. Chained out of hole. Found leak in rotating circulating sub. BHT 248° F. Gel-Chem - Wt. 13.1#.

1-23: Rigging up control head for DST #2B. Depth 14,803' - sand and shale. 8½" hole. Ran back to bottom with bit. Circ. for 1½ hrs. Gas bubble reached surface. Shut well in and put on choke for 20 min. Circ. heavily gas cut mud for 5 hrs. until mud weight reached 13.1#/gal. Going in and coming out. Gel-Chem - Wt. 13.1#.

1-24: Taking final SIP on DST #2B. Depth 14,803' - sand and shale. 8½" hole. 18 6½" drill collars; bottom hole assembly - test tool. Gel-Chem - Wt. 13.1#. Vis. 53; WL 8.6 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 2 / 5; 3% oil; 19% solids; trace of sand; salinity 3300 ppm; PV 30; Yp 15. Cum. mud costs: \$195,173. Brinkerhoff 0/149/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

1-25: Washing and circulating to bottom. Depth 14,803' - sand and shale. 8½" hole. Reverse circulated for 3 hrs. Circulated down drill pipe for 6 hrs. to condition mud. Tripped out with test tools. Found 4 pieces spring steel off packers (8" x 3/4" x 3/16"). Tripped in hole with bit and junk sub. Circ. bottoms up - gas bubble and heavily gas cut mud. Working pipe and circulating on top of junk. (Installed an additional mud tank for additional volume to contain mud while circulating out gas kicks after trips.) 18 6½" and 15 4½" drill collars; 5½" x 18" pump; 57 SPM; 350 GPM; PP 2200 psi; ann. vel. 165; jet vel. 260; bottom hole assembly - 8½" bit - junk sub - one 6½" drill collar - Drilco shock sub - four 6½" drill collars - Grant stabilizer - four 6½" drill collars - one Grant stabilizer - nine 6½" drill collars. Gel-Chem - Wt. 13.2#; Vis. 55; WL 10.4 cc; FC 2/32; pH 9.4; gel strength ini./10 min. 2 / 6; 3% oil; 19% solids; trace of sand; salinity 3300 ppm; PV 32; Yp 13. Cum. mud costs: \$196,557. Brinkerhoff 0/150/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)

1-20: Pulling out with DST #2. Depth 14,803' - sand and shale. 8½" hole. Finished trip in hole with DST tools. While nipping up for test, well began flowing water cushion out drill pipe. Shut in drill pipe. Hooked up test manifold. Set packer at 14,615'. Opened drill pipe to pit. Mud in annulus dropped. Continued to fill annulus and began reversing out water and gas cut mud. Attempted to cycle test tool. Could not tell what position tool was in. Hooked up to drill pipe, released packer, and began circulating and weighting up mud. Soon as drill pipe dead, hooked up kelly and continued to circulate until 13.0# mud in hole and drill pipe. Shut down 1 hr. Circ. 3 hrs. Heavily gas cut mud to surface when bottoms up. Circ. gas cut mud for 1 hr. Began chaining out of hole. Hole took correct amt. of fluid tripping out. Gel-Chem - Wt. 13.0#; Vis. 51; WL 10.4 cc; FC 2/32; pH 9.4; gel strength ini./10 min. 1 / 6; 3% oil; 17% solids; trace of sand; salinity 3600 ppm; PV 24; Yp 10. Cum. mud costs: \$194,669. Brinkerhoff 1/145/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)

1-21: Going in hole with test tools. Depth 14,803' - sand and shale. 18 6½" and 15 4½" drill collars; 6½"x 18" pump; 57 SPM; 430 GPM; PP 2100 psi; ann. vel. 150. Gel-Chem - Wt. 13.2#; Vis. 50; WL 10.2 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 2 / 5; 2% oil; 19% solids; trace of sand; salinity 3300 ppm; PV 28; Yp 16. Cum. mud costs: \$194,669. Brinkerhoff 0/146/0.



Production Department

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152 North Durbin  
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**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - CONOILLTD (Confidential) - Conoco 1.0000000**

1-15: Circ. and building mud wt. Depth 14,669'. Formation - sand. (Prog. 2') 8½" hole. Ran in hole to 4350'. Measured pipe. Placed rubber on pipe. Could not break circulation. Pressure too high. Pulled 10 stands. Broke circulation at 3000 psi. Circ. and cond. mud 1 hr. Ran to top stage collar at 4385'. Drilled Baker 2-stage collar. Closed rams. Pressured collar to 2000 psi for 15 min. Held okay. Ran in hole. Breaking circ. at 2000' intervals. Drilled float collar at 14,640', shoe at 14,666' with hard cement in shoe jt. Cleaned out 1' open hole and 2' formation. Well began kicking. Closed rams and put well on choke. Raising mud wt. to 10.6#/gal. Gel-Chem - Wt. 10.3#.

1-16: Tripping in sand and shale at 14,692'. (Prog. 23') 8 1/2" hole. Well on choke. Raising mud wt. 8½ hrs. Raised mud wt. to 10.6#. Well kicking; 10.9# - well kicking; 11.1# - same; 11.3# - well quiet. Drilled from 14,669' to 14,692'. Gel-Chem - Wt. 11.5#. Bit #60 - HTC W-7 - drilled 14,667' to 14,692'.

1-17: Drilling in sand and shale at 14,764'. (Prog. 72') 8½" hole. 500 units background gas - 8% methane. Connections had 1800 units - 13% methane. Well kicking after making each connection. Raised mud weight from 11.5# to 11.7#/gal. Well still making some gas on connections. Data unit indicates 11.9#/gal. environment. 18 6½" and 15 4½" drill collars; WOB 45,000#; 43 RPM; 6½" x 18" pump; 58 SPM; 450 GPM; PP 2300 psi; ann. vel. 160; jet vel. 245. Gel-Chem - Wt. 11.7#; Vis. 40; WL 11.0 cc; FC 2/32; pH 9.4; gel strength ini./10 min. 2 / 6; 3% oil; 13% solids; trace of sand; salinity 3800 ppm; PV 15; Yp 10. Cum. mud costs: \$182,611. Brinkerhoff 0/142/0.

**Conoco #22-1 Federal - CONOILLTD (Confidential) - Conoco 1.0000000**

1-18: Tripping in sand and shale at 14,769'. (Prog. 5') 8½" hole. Raised mud wt. to 12.0#/gal. Pulled up 30'. Circ. up gas. Raised mud wt. to 12.3# to stop gas feeding into well bore. Started out of hole at 9 p.m. Bit #61 - Smith L4H - drilled 14,692' to 14,769'. 18 6½" and 15 4½" drill collars; WOB 45,000#; 43 RPM; 6½" x 18" pump 58 SPM; 450 GPM; PP 2300 psi; ann. vel. 160; jet vel. 245. Gel-Chem - Wt. 11.7#; Vis. 40; WL 11.0 cc; FC 2/32; pH 9.4; gel strength ini./10 min. 2 / 6; 3% oil; 13% solids; trace of sand; salinity 3800 ppm; PV 15; Yp 10. Cum. mud costs: \$182,611. Brinkerhoff 0/142/0.

**Conoco #22-1 Federal - CONOILLTD (Confidential) - Conoco 1.0000000**

1-19: Trip in to test. Depth 14,803' - sand and shale. (Prog. 34') 8½" hole. Bit #62 - Smith L4H - drilled 14,769' to 14,803'. 18 6½" and 15 4½" drill collars; WOB 55,000#; 45 RPM; 6½" x 18" pump; 58 SPM; 450 GPM; PP 2300 psi; ann. vel. 160; jet vel. 245; bottom hole assembly - bit - one 6½" drill collar - Drilco shock sub - two 6½" drill collars - Drilco stabilizer - five 6½" drill collars - 1 stabilizer - 10 6½" drill collars - 15 4½" drill collars. Raised mud wt. from 12.3 to 12.8#. 2 hrs. off bottom with test tools. Gel-Chem - 12.8#; Vis. 48; WL 8.2 cc; FC 2/32; pH 9.4; gel strength ini./10 min. 3 / 8; 3% oil; 16% solids; trace of sand; salinity 3300 ppm; PV 14; Yp 20. Cum. mud costs: \$190,530. Brinkerhoff 0/144/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

9-16: Nippling up. Present depth 1730', PBD 1673'. Set BOP, pipe rams, blind rams, Shaffer drilling head, choke, kill line, and hydraulic lines. Changed liner in one pump, also belts. Started Magnafluxing BHA. Will probably start in hole about 10 a.m. Brinkerhoff 0/19/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

9-17: Drilling shoe (20"). Depth 1730'. 12 1/4" hole. Bit #6 in hole. Four 9" and twelve 8" drill collars; WOB 15,000#; 60 RPM; 6 1/4" x 18" pump; 60 SPM; 450 GPM; PP 1700 psi; ann. vel. 90; bottom hole assembly - 12 1/4" bit - 3 pt. reamer - one 9" drill collar - shock sub - stabilizer - two 9" drill collars - stabilizer - one 9" drill collar. Drilling with water and gel - Wt. 8.7#; Vis. 28. Brinkerhoff 0/20/0.



Production Department

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C O N F I D E N T I A L

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD

9-11: Opening hole. Depth 1591' - Green River. (Prog. 96') 26" hole. H. O. #4 Sec. - 1387-1538'. Bottom hole assembly - 17 1/2" pilot bit, 26" H. O. - shock sub - short 10" drill collar - stabilizer - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - three 9" drill collars and nine 8" drill collars; Drilling with water-gel - Wt. 9.2#.

9-12: Opening hole. Depth 1665' - Green River. (Prog. 74') 26" hole. H. O. #3 Reed - 1538-1597'. Drilling with water-gel - Wt. 9.2#.

9-13: Waiting on fishing tools. Depth 1712' - Green River. (Prog. 47') 26" hole. H. O. #5 - Sec. - 1597-1677'. Five 9" and nine 8" drill collars; WOB 40,000-45,000#; 90 RPM; 6" x 18" and 7" x 18" pumps; 50 SPM; 825 GPM; PP 1000 psi; ann. vel. 38; bottom hole assembly - 26" H.O. - shock sub - short 10" drill collar - stabilizer - one 9" drill collar - stabilizer - two 9" drill collar - stabilizer - three 9" drill collars and nine 8" drill collars. Twisted pin off lower stub. Top of fish 1688'. Drilling with water-gel - Wt. 9.2#; Vis. 70; WL 11.8 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 3 /10; 7% solids; 1/4 of 1% sand; salinity 200 ppm; PV 21; Yp 13. Cum. mud costs: \$4,185. Brinkerhoff 0/16/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

9-13: Recovered fish at 2 p.m. Going in hole to finish opening hole.  
9-14: Running 20" casing. Depth 1730' - 17 1/2"; 1725' - 26". Formation - Green River. (Prog. 13') 26" hole. Completed opening hole to 26" at 8 p.m. 7-13-71. Circulated hole 1 1/2 hrs. Strapped out okay. H.O. #3 - Reed 4 pt. - from 1677' to 1725'. Five 9" and nine 8" drill collars; 6" x 18" and 7" x 18"; bottom hole assembly - 26" hole opener - shock sub - short 10" drill collar - stabilizer - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - three 9" and nine 8" drill collars. Water-gel - Wt. 9.3#; Vis. 80; WL 14.6 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 3 / 25; 6.5% solids; trace of sand; salinity 200 ppm; PV 38; Yp 27. Cum. mud costs: \$4444. Brinkerhoff 0/17/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

9-15: Nippling up 20" casing. Depth 1730', PBD 1673'. Ran 41 jts. 20" O.D., 94#, H-40, ST&C guide shoe and float collar. Total 1721.79'. Shoe landed at 1720' RBM. Float collar at 1673'. Ran nine 20" centralizers (5' above shoe, one on each of lower 3 collars and one every other collar for next ten collars). Cemented with 40 bbls. water pre-flush. Mixed 1790 sax 65-35% Class "G" and "Lite-Poz" with 6% gel, 1/4#/sack Clinton Flake, and 3% CaCl<sub>2</sub>. Tailed in with 1060 sax Class "G" 1/4#/sack Clinton-Flake and 2% CaCl<sub>2</sub> (13.8 and 16.0#/gal. slurries). Displaced with 28 bbls. water. Bumped plug at 3:30 p.m. 9-14-71 with 1500 psi. Max. displacement pressure 750 psi. Plug held okay. Pulled drill pipe stinger out of float. Float held okay. Circulated out 180 bbls. good cement. 100% returns throughout job. Cut off casing at 10 p.m. and began nipping up. Brinkerhoff 0/18/0.

off at 328', leaving 20 jts. drill pipe and bottom hole assembly in hole (total 1072'). Top of fish at 328'. Went back in trying to stab into top of fish. No success. H. O. #3 - Reed 4 pt. - reamed 1254-1387'. Four 9" and nine 8" drill collars; WOB 35,000#; 90 RPM; 7" x 18" and 6" x 18" pumps; 50 SPM; 825 GPM; PP 850 psi; ann. vel. 38; bottom hole assembly - 17½" bit - 26" H.O. - cross-over - shock sub - short 10" drill collar - stabilizer - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - one 9" drill collar - cross-over - nine 8" drill collars - cross-over. Water-gel - Wt. 9.4#; Vis. 60; WL 13.6 cc; FC 3/32; pH 10.5; gel strength ini./10 min. 3 / 15; 6% solids; 1% sand; salinity 300 ppm; PV 22; Yp 17. Cum. mud costs: \$2771. Brinkerhoff 0/12/0.

Conoco #22-1 Federal - CONOILLTD - Conoco 1.0000000

9-10: Corrected elevations: Gr. 4833', KB 4856', RBM 23'. Opening hole. Depth 1495' - Green River. (Prog. 93') 26" hole. Went in with 9 5/8" Bowen overshot with 15" skirt guide. Tagged fish at 328'. Latched onto fish and pulled 97,000# to pull fish loose. Recovered all of fish. Checked bottom hole assembly. Everything okay. H. O. #4 - Sec. B-26 - from 1387' to 1495'. Four 9" and nine 8" drill collars; WOB 35,000-40,000#; 90-100 RPM; 7" x 18" and 6" x 18" pumps; 50 SPM; 825 GPM; PP 900 psi; ann. vel. 38; bottom hole assembly - 17½" bit - 26" H.O. - cross-over - shock sub - short 10" drill collar - stabilizer - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - one 9" drill collar - cross-over - nine 8" drill collars - cross-over. Water-gel - Wt. 9.2#; Vis. 65; WL 11.2 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 3 / 20; 6.5% solids; 1/2 of 1% sand; salinity 200 ppm; PV 26; Yp 20. Cum. mud costs: \$3437. Brinkerhoff 0/13/0.



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152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

**CONFIDENTIAL**

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - CONOILLTD - Conoco 1.0000000**

9-4: Drilling shale and sand at 1667'. (Prog. 271') 17 1/2" hole. Dev.: 3/4 deg. at 1440'; 1/2 at 1565'. Drilling with gel-water - Wt. 8.8#.

9-5: Opening 17 1/2" hole to 26" at 380'. Depth 1730' - shale. (Prog. 63' drilling - 219' reaming.) 26" hole. Dev. 3/4 deg. at 1700'. Drilling with gel-water - Wt. 9#.

9-6: Trip at 813' - 26" hole. Depth 1730' - 17 1/2" hole - sand shale. (Prog. 433') 26" hole. Drilling with gel-water - Wt. 9#. Bit #1 - 26" RR HTC - OSC - drilled 161' to 813'.

9-7: Reaming in Green River at 1148'. Present depth 1730'. (Prog. 335') 26" hole. 6 9" and 9 8" drill collars; WOB 45,000#; 95 RPM; pump size - 7" x 18" and 6" x 18"; 46 SPM; 775 GPM; PP 900 psi; ann. vel. 31; bottom hole assembly - 26" bit - short 10" drill collars - 26" rubber stabilizer - one 9" drill collar - rubber stabilizer - shock sub - five 9" and four 8" drill collars. Drilling with gel-water - Wt. 9.3#; Vis. 55; WL 13.6 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 3 / 32; 6% solids; 1% sand; salinity 300 ppm; PV 23; Yp 18. Cum. mud costs: \$2146. Brinkerhoff 0/10/0.

**Conoco #22-1 Federal - CONOILLTD - Conoco 1.0000000**

9-8: Reaming. Depth 1275' - Green River. (Prog. 127') 26" hole. Twisted off box in 9" drill collars at 1254'. Left five 9" drill collars and tools in hole (total 188'). Tagged fish at 1066'. Ran Bowen 11 3/4" x 8 1/2" overshot. Recovered fish. Laid down tools. Picked up new bottom hole assembly. Bit #2 - Sec. 3 pt. - drilled 813-1254'. Four 9" and nine 8" drill collars; WOB 35,000-40,000#; RPM 100; 6" x 18" and 7" x 18" pumps; 50 SPM; 825 GPM; PP 850 psi; ann. vel. 38; bottom hole assembly - 4 pt. H.O. - shock sub - 10" short drill collars - stabilizer - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - one 9" and nine 8" drill collars. Drilling with water & gel - Wt. 9.3#; Vis. 57; WL 5.6 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 2 / 14; 6% solids; 1% sand; salinity 300 ppm; PV 14; Yp 8. Cum. mud costs: \$2503. Brinkerhoff 0/11/0.

**Conoco #22-1 Federal - CONOILLTD - Conoco 1.0000000**

9-9: Waiting on fishing tools. Depth 1402' - Green River. (Prog. 127') 26" hole. Reaming hole at 1402'. Torqued up. Apparently large rock fell in along side or on top of hole opener. Picked up. Worked free. Washed and worked back to T.D. when drill string jumped, knocking rotary bushing out of table. Drill pipe backed

**Conoco #22-1 Federal - CONOILLTD (Confidential) - Conoco 1.0000000**

1-12: Installing 10" 1500 Series BOP. Depth 14,667'. PBD 4383'. WOC 12 hrs. Slacked off on casing. Casing went down hole 2' 4". Cut off casing. Removed 12" 900 Series BOP. Installed 20" x 12" 900 Series spool. Ran 9 5/8" spear on stand of 24.5# drill pipe. Took hold of casing. Picked up 425,000# and set 9 5/8" casing slips. Brinkerhoff 0/137/0.

**Conoco #22-1 Federal - CONOILLTD (Confidential) - Conoco 1.0000000**

1-13: Testing BOP to 5000#. Depth 14,667'. PBD 4385', float collar at 14,620'. Completed installing 10" 5000# BOP stack. Loaded out all 12 1/2" tools and surplus 9 5/8" casing. Installed new low clutch in drawworks. Brinkerhoff 0/138/0.

**Conoco #22-1 Federal - CONOILLTD (Confidential) - Conoco 1.0000000**

1-14: PBD 4385'. Float collar at 14,620'. Picking up 4 1/2" drill pipe. Pressure tested BOP stack, manifold and head to 5000#. Located numerous leaks in valves, rams and connections. Repaired same and held 5000# for 30 min. Held okay. Picked up BHA and 4 1/2" drill pipe and running in hole. 8 1/2" hole. 18 6 1/2" and 15 4 1/2" hvy. wt. drill collars; bottom hole assembly - bit - one 6" drill collar - Drilco spring load shock sub - one drill collar - one rubber stabilizer - four drill collars rubber stabilizer - 12 6 1/2" drill collars - 15 jts. 4 1/2" hvy. wt. d.p. Gel-Chem. Brinkerhoff 0/139/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
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C O N F I D E N T I A L

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco 1.0000000

11-25: Tripping in hard sand and shale at 11,018'. (Prog. 23') 12½" hole. Magnafluxed drill collars - two 8" - cracked box and one 9" - cracked box and pin. Bit #44 - HTC X-55R - drilled 10,868' to 10,995'. Bit #45 in hole. Gel-Chem - Wt. 10.3#.

11-26: Tripping in hard sand and conglomerate (Mesa Verde) at 11,060'. (Prog. 42') 12½" hole. Gel-Chem - Wt. 10.4#.

11-27: Tripping in hard sand and shale at 11,122'. (Prog. 62') 12½" hole. Gel-Chem - Wt. 10.3#.

11-28: Drilling sand and conglomerate at 11,196'. (Prog. 74') 12½" hole. Gel-Chem - Wt. 10.4#.

11-29: Drilling sand and siltstone at 11,261'. (Prog. 65') 12½" hole. Gel-Chem - Wt. 10.5#. Lost pump pressure while drilling at 11,240'. Chained out of hole. Found pin end of top stabilizer washed out. Good show of oil and gas at 11,230'. Bit #48 - RB Reed SCM5 - drilled 11,122' to 11,261'. Five 9", nine 8", and sixteen 5" drill collars; WOB 50,000#; 48 RPM; 6½" x 18" pump; 56 SPM; 449 GPM; PP 2250 psi; ann. vel. 87; jet vel. 415; bottom hole assembly - bit - 3 pt. reamer - shock sub - 3 pt., one 9" drill collar - button stabilizer - two 9" drill collars - button stabilizer - two 9" and two 8" drill collars - rubber stabilizer - seven 8" drill collars and 16 jts. 5" heavy wt. pipe. Gel-Chem - Wt. 10.5#; Vis. 43; WL 9.8 cc; FC 2/32; pH 11.3; gel strength ini./10 min. 1 / 5; 4% oil; 10% solids; 1/4 of 1% sand; salinity 4500 ppm; PV 16; Yp 11. Cum. mud costs: \$102,525. Brinkerhoff 0/93/0.

Conoco #22-1 Federal - Conoco 1.0000000

11-30: Drilling sand at 11,371'. (Prog. 110') 12½" hole. Bit #48 - Reed SCM-5 - drilled 11,122' to 11,371'. Drilling break 11,227' to 11,239'. Good fluorescence, 4000 units gas with background of 2000 units. Five 9", nine 8", and 16 5" drill collars; WOB 50,000#; 50 RPM; 6½" x 18" pump; 56 SPM; 449 GPM; PP 2250 psi; ann. vel. 87; jet vel. 415; bottom hole assembly - bit - 3 pt. reamer - shock sub - 3 pt. - one 9" drill collar - button stabilizer - two 9" drill collars - button stabilizer - two 9" and two 8" drill collars - rubber stabilizer - seven 8" drill collars and 16 jts. 5" heavy wt. pipe. Gel-Chem - Wt. 10.5#; Vis. 47; WL 8.8 cc; FC 2/32; pH 12.1; gel strength ini./10 min. 2 / 5; 4% oil; 10% solids; 1/4 of 1% sand; salinity 4000 ppm; PV 16; Yp 9. Cum. mud costs: \$104,653. Brinkerhoff 0/94/0.



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C O N F I D E N T I A L

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco 1.0000000

11-20: Drilling hard sand and shale at 10,811'. (Prog. 30') 12½" hole. Bit #41 HTC WD7 - drilled 10,748' to 10,786'. Bit #42 in hole. Dev.: ¾ deg. at 10,770'. Gel-Chem - Wt. 10.3#.

11-21: Drilling hard sand at 10,868'. (prog. 57') 12½" hole. Bit #42 - Smith 5JS - drilled 10,785' to 10,843'. Bit #43 - Sec. H7UG - in hole. Gel-Chem - Wt. 10.4#.

11-22: Drilling hard sand at 10,909'. (Prog. 41') 12½" hole. Bit #43 - Sec. H7UG - drilled 10,843' to 10,868'. Bit #44 - HTC X-5JR - in hole. Five 9", fifteen 8" and sixteen 5" hvy. wt. drill collars; WOB 45,000#; 48 RPM; 6½" x 18" pump; 57 SPM; 449 GPM; 2350 psi; ann. vel. 87; jet vel. 415; bottom hole assembly - bit - 3 pt. button reamer - shock sub - one 9" drill collar - button stabilizer - two 9" drill collars - button stabilizer - two 9" drill collars - one 8" drill collar - one button stabilizer - 14 8" drill collars - 16 jts. hvy.wt. Gel-Chem - Wt. 10.4#; Vis. 40; WL 6.8 cc; FC 2/32; pH 10.4; gel strength ini./10 min. 1 / 3; 4.5% oil; 10% solids; 1/4 of 1% sand; salinity 3600 ppm; PV 16; Yp 5.0. Cum. mud costs: \$22,437. Brinkerhoff 0/86/0.

Conoco #22-1 Federal - Conoco 1.0000000

11-23: Drilling sandstone and conglomerate at 10,968'. (Prog. 59') 12½" hole. Bit #44 - HTC X-55R - drilled 10,868' to 10,968'. Five 9", nine 8" and sixteen 5" hvy. wt. drill collars; WOB 45,000#; 48 RPM; 6½" x 18" pump; 57 SPM; 449 GPM; PP 2300 psi; ann. vel. 87; jet vel. 415; bottom hole assembly - bit - 3 pt. button reamer - shock sub - one 9" drill collar - button stabilizer - two 9" drill collars - button stabilizer - two 9" drill collars - one 8" drill collar - one button stabilizer - 14 8" drill collars - 16 jts. hvy. wt. Gel-Chem - Wt. 10.4#; Vis. 40; WL 7 cc; FC 2/32; pH 10.8; gel strength ini./10 min. 2 / 5; 4% oil; 10% solids; 1/4 of 1% sand; salinity 3400 ppm; PV 13; Yp 7. Cum. mud costs: \$94,332. Brinkerhoff 0/87/0.

Conoco #22-1 Federal - Conoco 1.0000000

11-24: Magnafluxing drill collars. Two 8" boxes and one 9" box bad. Depth 10,995' - hard sand and conglomerate. (Prog. 27') 12½" hole. Bit #44 - HTC X-55R - drilled 10,868' to 10,995'. Five 9", nine 8", and sixteen 5" hvy. wt. drill collars; WOB 45,000#; 42 RPM; 6½" x 18" pump; bottom hole assembly - bit - 3 pt. button reamer - shock sub - one 9" drill collar - button stabilizer - two 9" drill collars - button stabilizer - two 9" drill collars - one 8" drill collar - one button stabilizer - 14 8" drill collars - 16 jts. hvy. wt. d.p. Gel-Chem - Wt. 10.4#; Vis. 46; WL 6.8 cc; FC 2/32; pH 10.8; gel strength ini./10 min. 2 / 5; 4% oil; 11% solids; 1/3 of 1% sand; salinity 3400 ppm; PV 16; Yp 9. Cum. mud costs: \$96,138. Brinkerhoff 0/88/0.

Conoco #22-1 Federal - Conoco 1.0000000

11-18: Tripping in sand and shale at 10,729'. (Prog. 55') 12½" hole. Bit #38 - Sec. WD7 drilled 10,645' to 10,729'. Five 9", fifteen 8" and sixteen 5" drill collars; WOB 80,000#; 42 RPM; 6½" x 18" pump; 57 SPM; 449 GPM; PP 2200 psi; ann. vel. 87; jet vel. 415; bottom hole assembly - bit - Drilco bottom hole reamer - HTC Soft-Shoc - 3 pt. reamer - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - two 9" drill collars - one 8" drill collar - stabilizer - fourteen 8" drill collars - sixteen 5" heavy wt. drill collars. Gel-Chem - Wt. 10.4#; Vis. 48; WL 8 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 3 / 6; 4% oil; 9% solids; 1/3 of 1% sand; salinity 3200 ppm; PV 17; Yp 8. Cum. mud costs: \$86,393. Brinkerhoff 0/82/0.

Conoco #22-1 Federal - Conoco 1.0000000

11-19: Drilling hard sand and some shale at 10,781'. (Prog. 52') 12½" hole. Bit #40 - Reed YHG - drilled 10,729' to 10,748'. Bit #41 in hole. Five 9", fifteen 8", and sixteen 5" hvy. wt. drill collars; WOB 80,000#; 42 RPM; 6½" x 18" pump; 57 SPM; 449 GPM; PP 2300 psi; ann. vel. 87; jet vel. 415; bottom hole assembly - bit - junk sub - soft shock sub - one 9" drill collar - button stabilizer - two 9" drill collars - button stabilizer - two 9" and one 8" rubber stabilizer - fourteen 8" drill collars - 16 jts. 5" drill pipe. Lost 2 inserts out of air slips on Bit #40. No indication of junk on Bit #40 or #41. May run button bit on next run. Gel-Chem - Wt. 10.3#; Vis. 43; WL 8.6 cc; FC 2/32; pH 10.1; gel strength ini./10 min. 2 / 4; 6% oil; 9% solids; 1/4 of 1% sand; salinity 3400 ppm; PV 16; Yp 6. Cum. mud costs: \$87,503. Brinkerhoff 0/83/0.



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RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco I.0000000

11-13: Drilling hard sand and some shale at 10,420'. (Prog. 68') 12 1/4" hole.  
Dev.: 1 1/4 deg. at 10,352'. Gel-Chem - Wt. 10.3#.

11-14: Drilling hard sand and shale at 10,489'. (Prog. 69') 12 1/4" hole. Bit #34  
HTC WD7 - drilled 10,352' to 10,434'. Dev.: 3/4 deg. at 10,434'. Gel-Chem - Wt.  
10.4#.

11-15: Drilling hard sand and some shale at 10,581'. (Prog. 92') 12 1/4" hole.  
Bit #35 - HTC WD7 - drilled 10,434' to 10,533'. Bit #36 in hole. Five 9", fifteen  
8" and sixteen 5" drill collars; WOB 75,000-80,000#; 40-45 RPM; 6 1/2" x 18" pump;  
56 SPM; 445 GPM; PP 2300 psi; ann. vel. 85; jet vel. 410; bottom hole assembly -  
bit - Drilco bottom hole reamer - HTC Soft-Shoc - 3 pt. reamer - one 9" drill collar -  
stabilizer - two 9" drill collars - stabilizer - two 9" drill collars - one 8" drill  
collar - stabilizer - fourteen 8" drill collars - sixteen 5" hvy. wt. DP. Dev.: 1  
deg. at 10,533'. Had drilling break - 10,510-10,528'. Circ. samples up for 1 1/2 hrs.  
Slight increase in gas units. Gel-Chem - Wt. 10.4#; Vis. 54; WL 8.8 cc; FC 2/32; pH 11.3  
gel strength ini./10 min. 2 / 6; 6% oil; 11% solids; 1/4 of 1% sand; salinity 3500  
ppm; PV 15; Yp 9. Cum. mud costs: \$80,794. Brinkerhoff 0/79/0.

Conoco #22-1 Federal - Conoco 1.0000000

11-16: Drilling hard sand and some shale at 10,634'. (Prog. 53') 12 1/2" hole. Bit #36 -  
Reed YHG - drilled 10,533' to 10,602'. Strapped drill pipe. Found 12' correction.  
Made same. Five 9", fifteen 8" and sixteen 5" heavy wt. drill collars; WOB 75,000#  
42 RPM; 6 1/2" x 18" pump; 56 SPM; 445 GPM; PP 2300 psi; ann. vel. 85; jet vel. 410;  
bottom hole assembly - bit - Drilco bottom hole reamer - HTC Soft-Shoc - 3 pt. reamer -  
one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - two 9" drill  
collars - one 8" drill collar - stabilizer - fourteen 8" drill collars - sixteen  
5" heavy wt. drill collars. Gel-Chem - Wt. 10.4#; Vis. 54; WL 8.8 cc; FC 2/32;  
pH 11.2; gel strength ini./10 min. 2 / 6; 5% oil; 11% solids; trace of sand; salinity  
1700 ppm; PV 15; Yp 10. Cum. mud costs: \$83,175. Brinkerhoff 0/80/0.

Conoco #22-1 Federal - Conoco 1.0000000

11-17: Tripping in hard sand and shale at 10,674'. (Prog. 40') 12 1/2" hole. Bit #37 -  
Sec. H7G - drilled 10,614' to 10,645'. Bit #38 in hole. Five 9", fifteen 8"  
and sixteen 5" heavy wt. drill collars; WOB 70,000-80,000#; 43 RPM; 6 1/2" x 18"  
pump; 57 SPM; 449 GPM; PP 2350 psi; ann. vel. 87; jet vel. 415; bottom hole  
assembly - bit - Drilco bottom hole reamer - HTC Soft-Shoc - 3 pt. reamer -  
one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - two 9"  
drill collars - one 8" drill collar - stabilizer - fourteen 8" drill collars -  
sixteen 5" heavy wt. drill collars. Dev.: 3/4 deg. at 10,645'. Gel-Chem -  
Wt. 10.4#; Vis. 47; WL 9.0 cc; FC 2/32; pH 10.1; gel strength ini./10 min.  
3 / 7; 6% oil; 9% solids; 1/4 of 1% sand; salinity 3700 ppm; PV 17; Yp 10.  
Cum. mud costs: \$84,801. Brinkerhoff 0/81/0.

**Conoco #22-1 Federal - Conoco 1.0000000**

11-11: **Drilling hard sand at 10,291'. (Prog. 63') 12½" hole. Bit #33 - Smith 5JS - drilled 10,211' to 10,291'. Three 9" and fourteen 8" drill collars; WOB 50,000-55,000#; 42-55 RPM; 6½" x 18" pump; 57 SPM; 449 GPM; PP 2200 psi; ann. vel. 87; jet vel. 415; bottom hole assembly - bit - 12½" Drilco bottom hole reamer with button rollers - HTC Soft-Shoc - bit sub - one 9" drill collar - 12½" steel stabilizer - two 9" drill collars - 12½" steel stabilizer - three 8" drill collars - 12½" rubber stabilizer - eleven 8" drill collars - cross-over sub. Gel-Chem - Wt. 10.4#; Vis. 54; WL 9.8 cc; FC 2/32; pH 11.1; gel strength ini./10 min. 1 / 7; 4% oil; 9% solids; trace of sand; salinity 3600 ppm; PV 16; Yp 13. Cum. mud costs: \$73,342. Brinkerhoff 0/75/0.**

**Conoco #22-1 Federal - Conoco 1.0000000**

11-12: **Tripping in hard sand with shale at 10,352'. (Prog. 61') 12½" hole. Bit #33 Smith 5JS - in at 10,211'. Still in hole. Three 9" and fourteen 8" drill collars; WOB 50,000-55,000#; 42-52 RPM; 6½" x 18" pump; 57 SPM; 449 GPM; PP 2200 psi; ann. vel. 87; jet vel. 415; bottom hole assembly - bit - 12½" Drilco bottom hole reamer with button rollers - HTC Soft-Shoc - bit sub - one 9" drill collar - 12½" steel stabilizer - two 9" drill collars - 12½" steel stabilizer - three 8" drill collars - 12½" rubber stabilizer - eleven 8" drill collars - cross-over sub. Gel-Chem - Wt. 10.4#; Vis. 54; WL 10.0 cc; FC 2/32; pH 11.6; gel strength ini./10 min. 1 / 7; 4% oil; 9% solids; trace of sand; salinity 3800 ppm; PV 16; Yp 12. Cum. mud costs: \$74,757. Brinkerhoff 0/76/0.**



W. C. Blackburn  
Division Manager  
Production Department

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**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000**

11-6: Drilling hard sand at 10,025'. (Prog. 55') 12½" hole. RR #25 - Reed SCMS  
SCMS - drilled 9970' to 10,018'. Bit #31 in hole. Gel-Chem - Wt. 10.4#.

11-7: Drilling hard sand at 10,074'. (Prog. 49') 12½" hole. Bit #31 - Sec. H7G  
drilled 10,018' to 10,037'. Bit #32 in hole. Gel-Chem - Wt. 10.3#.

11-8: Drilling hard sand with coal stringers at 10,154'. (Prog. 80') 12½" hole.  
Bit #32 in hole. Five 9" and fourteen 8" drill collars; WOB 50,000#; 43 RPM; pump  
size: 6½" x 18"; 57 SPM; 449 GPM; PP 2250 psi; ann. vel. 87; jet vel. 415; bottom  
hole assembly - bit - shock sub - one 9" drill collar - button stabilizer - two 9"  
drill collars - button stabilizer - two 9" drill collars - two 8" drill collars -  
rubber stabilizer - 12 8" drill collars. Gel-Chem - Wt. 10.4#; Vis. 57; WL 7.6 cc;  
FC 2/32; pH 11; gel strength ini./10 min. 1 / 8; 4% oil; 13% solids; 1/4 of 1% sand;  
salinity 3000 ppm; PV 15; Yp 14. Cum. mud costs: \$70,629. Brinkerhoff 0/72/0.

**Conoco #22-1 Federal - Conoco 1.0000000**

11-9: Tripping in hard sand at 10,211'. (Prog. 57') 12½" hole. Bit #32 - Smith 5JS  
in at 10,037'. Still in hole. Five 9" and fourteen 8" drill collars; WOB 50,000#;  
43 RPM; 6½" x 18" pump; 57 SPM; 449 GPM; PP 2250 psi; ann. vel. 87; jet vel. 415;  
bottom hole assembly - bit - shock sub - one 9" drill collar - button stabilizer -  
two 9" drill collars - button stabilizer - two 9" drill collars - two 8" drill  
collars - rubber stabilizer - 12 8" drill collars. Gel-Chem - Wt. 10.4#; Vis. 54;  
WL 9.4 cc; FC 2/32; pH 12.1; gel strength ini./10 min. 1 / 6; 4% oil; 11% solids;  
trace of sand; salinity 3100 ppm; PV 15; Yp 13. Cum. mud costs: \$72,332.  
Brinkerhoff 0/73/0.

**Conoco #22-1 Federal - Conoco 1.0000000**

11-10: ~~Drilling~~ hard sand at 10,228'. (Prog. 17') 12½" hole. Magnafluxed collars.  
Found cracks in three 8" and two 9" drill collars (4 box and 1 pin). Bit #33  
Smith 5JS in hole. Three 9" and fourteen 8" drill collars; WOB 50,000#; 42 RPM;  
6½" x 18" pump; 57 SPM; 449 GPM; PP 2300 psi; ann. vel. 87; jet vel. 415; bottom  
hole assembly - bit - 12½" Drilco bottom hole reamer with button rollers - HTC  
Soft-Shoc - bit sub - one 9" drill collar - 12½" steel stabilizer - two 9" drill  
collars - 12½" steel stabilizer - three 8" drill collars - 12½" rubber stabilizer -  
eleven 8" drill collars - cross-over sub. Dev.: 3/4 deg. at 10,211'. Gel-Chem -  
Wt. 10.4#; Vis. 43; WL 9.6 cc; FC 2/32; pH 11.8; gel strength ini./10 min. 2 / 7;  
4% oil; 11.0% solids; trace of sand; salinity 3300 ppm; PV 14; Yp 10. Cum. mud  
costs: \$72,870. Brinkerhoff 0/74/0.

Conoco #22-1 Federal - Conoco 1.0000000

11-4: Tripping in hard sand at 9937'. (Prog. 65') 12 1/4" hole. Bit #29 - Smith 4JS - drilled 9807' to 9937'. Bit #30 in hole. Five 9" and fourteen 8" drill collars; WOB 45,000-65,000#; 45-67 RPM; 6 1/2" x 18" pump; 58 SPM; 452 GPM; PP 2100 psi; ann. vel. 88; jet vel. 14. Dev.: 1 deg. at 9930'. Gel-Chem - Wt. 10.4#; Vis. 48; WL 7.8 cc; FC 2/32; pH 11.5; gel strength ini./10 min. 2 / 8; 4% oil; 13% solids; 1/8 of 1% sand; salinity 3000 ppm; PV 16; Yp 16. Cum. mud costs: \$68,651. Brinkerhoff 0/68/0.

Conoco #22-1 Federal - Conoco 1.0000000

11-5: Tripping in hard sand at 9970'. (Prog. 33') 12 1/4" hole. Bit #30 - Reed YHG - drilled 9937' to 9970'. Bit #25 in hole. Five 9" and fourteen 8" drill collars; WOB 55,000#; 55 RPM; 6 1/2" x 18" pump; 58 SPM; 452 GPM; PP 2100 psi; ann. vel. 88; jet vel. 14; bottom hole assembly - bit - shock sub - one 9" drill collar - button stabilizer - two 9" drill collars - button stabilizer - two 9" drill collars - two 8" drill collars - rubber stabilizer - 12 8" drill collars. Gel-Chem - Wt. 10.4#; Vis. 48; WL 7.8 cc; FC 2/32; pH 11.5; gel strength ini./10 min. 2 / 8; 4% oil; 13% solids; 1/8 of 1% sand; salinity 3000 ppm; PV 16; Yp 16. Cum. mud costs: \$69,048. Brinkerhoff 0/69/0.



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**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.00000000**

10-30: Drilling shale and thin stringers of sand at 9388'. (Prog. 45') 12 1/4" hole. Bit #25 - Reed SCM5 - drilled 9265' to 9383'. Bit #26 in hole. Gel-Chem - Wt. 10.4#.

10-31: Drilling shale and sand at 9540'. (Prog. 152') 12 1/4" hole. Bit #26 in hole. Gel-Chem - Wt. 10.4#.

11-1: Drilling shale at 9658'. (Prog. 118') 12 1/4" hole. Bit #26 - HTC ODV drilled 9383' to 9545'. Bit #27 in hole. Five 9" and fourteen 8" drill collars; WOB 55,000#; 67 RPM; 6 1/2" x 18" pump; 58 SPM; 452 GPM; PP 2400 psi; ann. veo. 88; jet vel. 470; bottom hole assembly - bit - HTC Soft-Shoc (oil & gas operated) one 9" drill collar - button stabilizer - two 9" drill collars - rubber Drilco stabilizer - 14 8" drill collars. Gel-Chem - Wt. 10.5#; Vis. 49; WL 7.8 cc; FC 2/32; pH 12.0; gel strength ini./10 min. 3 / 7; 5% oil; 14% solids; 1/4 of 1% sand; salinity 2700 ppm; PV 13; Yp 10. Cum. mud costs: \$64,102. Brinkerhoff 0/65/0.

**Conoco #22-1 Federal - Conoco 1.00000000**

11-2: Drilling shale with streaks of sand at 9780'. (Prog. 122') 12 1/4" hole. Bit #27 - HTC ODV - drilled 9542' to 9695'. Bit #28 in hole. Five 9" and fourteen 8" drill collars; WOB 55,000#; 67 RPM; 6 1/2" x 18" pump; 58 SPM; 452 GPM; PP 2400 psi; ann. vel. 88; jet vel. 470; bottom hole assembly - bit - HTC Soft-Shoc (oil & gas operated) - one 9" drill collar - button stabilizer - two 9" drill collars - rubber Drilco stabilizer - 14 8" drill collars. Dev.: 1 deg. at 9650'. Gel-Chem - Wt. 10.4#; Vis. 42; WL 7.6 cc; FC 2/32; pH 12.1; gel strength ini./10 min. 2 / 4; 4% oil; 13% solids; 1/8 of 1% sand; salinity 2500 ppm; PV 13; Yp 5. Cum. mud costs: \$66,117. Brinkerhoff 0/66/0.

**Conoco #22-1 Federal - Conoco 1.00000000**

11-3: Drilling shale with streaks of sand at 9872'. (Prog. 92') 12 1/4" hole. Bit #28 Sec. M44N - drilled 9695' to 9807'. Bit #29 in hole. Five 9" and fourteen 8" drill collars; WOB 50,000#; 50 RPM; 6 1/2" x 18" pump; 58 SPM; 452 GPM; PP 2100 psi; ann. vel. 88; jet vel. 418; bottom hole assembly - bit - HTC Soft-Shoc (oil & gas operated) - one 9" drill collar - button stabilizer - two 9" drill collars - rubber Drilco stabilizer - 14 8" drill collars. Sample top of Mesa Verde 8020'. Gel-Chem - Wt. 10.5#; Vis. 45; WL 9 cc; FC 2/32; pH 11.5; gel strength ini./10 min. 1 / 7; 4% oil; 13.5% solids; trace of sand; salinity 3000 ppm; PV 16; Yp 10. Cum. mud costs: \$66,477. Brinkerhoff 0/67/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-28: Tripping in sand and shale at 9265'. (Prog. 87') 12 1/4" hole. Bit #24 - Sec. M4NG - drilled 9150' to 9265'. Bit #25 in hole. Three 9" and fourteen 8" drill collars; WOB 45,000#; 70 RPM; 6 1/2" x 18" pump; 58 SPM; 452 GPM; pp 2200 psi; ann. vel. 88; jet vel. 470; bottom hole assembly - bit - HTC Soft-Shoc (oil & gas operated) - one 9" drill collar - button stabilizer - two 9" drill collars - rubber Drilco stabilizer - 14 8" drill collars. Dev.: 1 deg. at 9235'. Gel-Chem - Wt. 10.4#; Vis. 48; WL 9.6 cc; FC 2/32; pH 12; gel strength ini./10 min. 2 / 6; 4.5% oil; 13% solids; 1/8 of 1% sand; salinity 3000 ppm; PV 13; Yp 10. Cum. mud costs: \$58,150. Brinkerhoff 0/61/0.

Conoco #22-1 Federal - Conoco 1.0000000

10-29: Drilling shale and sand at 9348'. (Prog. 73') 12 1/4" hole. Bit #25 - Reed SCMS - drilled 9265' to 9343'. Three 9" and fourteen 8" drill collars; WOB 50,000-55,000#; 50-67 RPM; 8" x 6 1/2" pump; 58 SPM; 452 GPM; PP 2100 psi; ann. vel. 88; jet vel. 470; bottom hole assembly - bit - HTC Soft-Shoc (oil & gas operated) - one 9" drill collar - button stabilizer - two 9" drill collars - rubber Drilco stabilizer - 14 8" drill collars. Gel-Chem - Wt. 10.2#; Vis. 49; WL 8.2 cc; pH 12.5; gel strength ini./10 min. 3 / 5; 3.5% oil; 12% solids; 1/4 of 1% sand; salinity 2900 ppm; PV 14; Yp 10. Cum. mud costs: \$60,250. Brinkerhoff 0/62/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

10-23: Drilling sand and shale at 8674'. (Prog. 167') 12 1/4" hole. Had drilling break at 8570'. Pit level increased (well flowed). Raised mud wt. from 10# to 10.4#. Small increase in gas. Gel-Chem - Wt. 10.5#.

10-24: Trip in with Bit #23. Depth 8763'. (Prog. 89') 12 1/4" hole. Bit #22 - Smith #JS - drilled 8309' to 8763'. Bit #23 in hole. While drilling at 8763' lost 1000# pump press. Trip in looking for washout. Laid down two 8" washed out drill collars (1 box - 1 pin). Gel-Chem - Wt. 10.4#.

10-25: Drilling sand and shale at 8895'. (Prog. 132') 12 1/4" hole. Bit #23 in hole. Four 9" and thirteen 8" drill collars; WOB 53,000#; 67 RPM; 6 1/2" x 18" pump; 58 SPM; 452 GPM; PP 2400 psi; ann. vel. 88; jet vel. 490; bottom hole assembly - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel blade stabilizer - one 9" drill collar - 15 8" drill collars. Gel-Chem. - Wt. 10.4#; Vis. 57; WL 12.4 cc; FC 2/32; pH 11.9; gel strength ini./10 min. 4 / 14; 4% oil; 11% solids; 1/4 of 1% sand; salinity 4500 ppm; PV 17; Yp 17. Cum. mud costs: \$54,159. Brinkerhoff 0/58/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

10-26: Drilling shale and sand at 9115'. (Prog. 220') 12 1/4" hole. Bit #23 in hole. Four 9" and thirteen 8" drill collars; WOB 53,000#; 67 RPM; 6 1/2" x 18" pump; 58 SPM; 452 GPM; PP 2400 psi; ann. vel. 88; jet vel. 480; bottom hole assembly - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel blade stabilizer - one 9" drill collar - 15 8" drill collars. Gel-Chem - Wt. 10.4#; Vis. 60; WL 10 cc; FC 2/32; pH 12; gel strength ini./10 min. 6 / 16; 3.5% oil; 12% solids; 1/4 of 1% sand; salinity 3000 ppm; PV 18; Yp 20. Cum. mud costs: \$55,675. Brinkerhoff 0/59/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

10-27: Drilling sand and shale at 9178'. (Prog. 63') 12 1/4" hole. Bit #23 - Smith 4JS - drilled 8763' to 9150'. Bit #24 in hole. Two 9" and nine 8" drill collars; WOB 45,000#; 70 RPM; 6 1/2" x 18" pump; 58 SPM; 452 GPM; PP 2200 psi; ann. vel. 88; jet vel. 470' bottom hole assembly - bit - junk sub - one 9" drill collar - Servco button stabilizer - shock sub - one 9" drill collar - nine 8" drill collars. Lost 1000# pump press. at 9150'. Chained out. Magnafluxed drill collars (5 cracked boxes and 3 cracked pins). Left piece of stabilizer in hole (5" x 3" x 1/2"). Gel-Chem - Wt. 10.4#; Vis. 48; WL 10.4 cc; FC 2/32; pH 11.9; gel strength ini./10 min. 4 / 10; 3.5% oil; 14% solids; 1/4 of 1% sand; salinity 3000 ppm; PV 17; Yp 13. Cum. mud costs: \$58,150. Brinkerhoff 0/60/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

10-21: Trip out. Looking for hole in pipe. Depth 8390'. (Prog. 81') 12 1/4" hole. Broke circulation at 5000' and 7000'. Trip in hole. Pump pressure dropped from 1800 to 900# while drilling at 8390'. Bit #22 in hole. Four 9" and fifteen 8" drill collars; WOB 43,000#; 67 RPM; 6 1/2" x 18" pump; 58 SPM; 415 GPM; PP 1800 psi; ann. vel. 81; jet vel. 450; bottom hole assembly - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel blade stabilizer - one 9" drill collar - 15 8" drill collars. Gel-Chem - Wt. 9.9#; Vis. 52; WL 14.2 cc; FC 2/32; pH 12.6; gel strength ini./10 min. 4 / 12; 3% oil; 10% solids; 1/4 of 1% sand; salinity 4400 ppm; PV 15; Yp 21. Cum. mud costs: \$47,265. Brinkerhoff 0/54/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

10-22: Drilling sand and shale at 8507'. (Prog. 117') 12 1/4" hole. Trip out. Found shock sub washed out. Picked up spring operated sub. Changed out lower stabilizer sleeve. Bit #22 - Smith 3JS - in hole. Four 9" and fifteen 8" drill collars; WOB 43,000#; 67 RPM; 6 1/2" x 18" pump; 58 SPM; 415 GPM; PP 1900 psi; ann. vel. 81; jet vel. 450; bottom hole assembly - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel blade stabilizer - one 9" drill collar - 15 8" drill collars. Gel-Chem - Wt. 10.1#; Vis. 38; WL 12.8 cc; FC 2/32; pH 12.2; gel strength ini./10 min. 4 / 10; 4% oil; 8% solids; 1/4 of 1% sand; salinity 4400 ppm; PV 9; Yp 9. Cum. mud costs: \$50,473. Brinkerhoff 0/55/0.



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-16: Drilling sand and shale at 7898'. (Prog. 135') 12 1/4" hole. Low solids mud - Wt. 9.7#.

10-17: Drilling sand and shale at 8040'. (Prog. 142') 12 1/4" hole. Low solids mud - Wt. 9.7#.

10-18: Drilling sand and shale at 8145'. (Prog. 105') 12 1/4" hole. Bit #20 in hole. Three 9" and ten 8" drill collars; WOB 47,000#; 66 RPM; 6 1/4" x 18" pump; 58 SPM; 445 GPM; PP 2200 psi; ann. vel. 85; jet vel. 484; bottom hole assembly - bit - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel blade - cross-over - ten 8" drill collars. Drilling with gel-water and low solids - Wt. 9.7#; Vis. 46; WL 12.6 cc; FC 2/32; pH 11.0; gel strength ini./10 min. 12/24; 10% solids; 1/4 of 1% sand; salinity 4400 ppm; PV 10- Yp 18. Cum. mud costs: \$39,260. Brinkerhoff 0/51/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-19: Tripping in sand and shale at 8218'. (Prog. 73') 12 1/4" hole. Bit #20 - Smith 3JS - drilled 7691-8218'. Bit #21 in hole. Three 9" and ten 8" drill collars; WOB 47,000; 66 RPM; 6 1/4" x 18" pump; 58 SPM; 445 GPM; PP 2200 psi; ann. vel. 85; jet vel. 484; bottom hole assembly - (same for Bit #20 and #21) - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel blade stabilizer - one 9" drill collar - 15 8" drill collars. Dev.: 1/2 deg. at 8218'. Drilling with gel-water - Wt. 9.9#; Vis. 44; WL 12.8 cc; FC 2/32; pH 11.0; gel strength ini./10 min. 9 / 16; 10% solids; 1/4 of 1% sand; salinity 4400 ppm; PV 11; Yp 14. Cum. mud costs: \$40,980. Brinkerhoff 0/52/0.

**Had accident: Dave Gerrard mashed finger between drill pipe and tongs (almost cut off).**

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-20: Tripping in sand and shale at 8309'. (Prog. 91') 12 1/4" hole. Bit #21 - Reed ST1AG - drilled 8218-8309'. Four 9" and fifteen 8" drill collars; WOB 60,000#; 67 RPM; 6 1/4" x 18" pump; 58 SPM; 415 GPM; PP 2000 psi; pump efficiency 85%; ann. vel. 81; jet vel. 450; bottom hole assembly - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel blade stabilizer - one 9" drill collar - 15 8" drill collars. Gel-water - Wt. 10.0#; Vis. 49; WL 16.4 cc; FC 2/32; pH 10.1; gel strength ini./10 min. 16/ 27; 4% oil; 11% solids; 1/4 of 1% sand; salinity 4400 ppm; PV 10; Yp 24. Cum. mud costs: \$43,214. Brinkerhoff 0/53/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

10-14: Magnafluxing drill collars. Depth 7691' - sand and shale. (Prog. 32') 12 1/4" hole. Filled hole every 10 stands. Filled okay for 30 stands. Next 10 stands did not take enough fluid. Detected well flowing 1" stream mud. Trip back to bottom. Gain of 6 bbls. Raised mud wt. from 9.7#/gal. to 9.9#/gal. Pipe stuck. Could not circulate. Worked pipe free. Circ., conditioned, and raised mud wt. Pumped 5 singled out and tripped out to drill collars. Hole took fluid okay. Laid down drill pipe in V-door. Magnafluxed drill collars. Have 4 bad jts. out of 11 inspected. Bit #19 in hole. Five 9" and eleven 8" drill collars; WOB 55,000#; 60 RPM; 6 1/2" x 18" pump; 58 SPM; 445 GPM; PP 2000 psi; ann. vel. 85; jet vel. 455; bottom hole assembly - bit - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel stabilizer - two 9" and eleven 8" drill collars. Low solids mud - Wt. 9.9#; Vis. 44; WL 12.0 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 9 / 16; 10.5% solids; 1/4 of 1% sand; salinity 5300 ppm; PV 12; Yp 12. Cum. mud costs: \$33,970. Brinkerhoff 0/47/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

10-15: Drilling sand and shale at 7763'. (Prog. 72') 12 1/4" hole. Bit #20 in hole. Three 9" and ten 8" drill collars; WOB 50,000#; 67 RPM; 6 1/2" x 18" pump; 58 SPM; 445 GPM; PP 2100 psi; ann. vel. 85; jet vel. 484; bottom hole assembly - bit - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel blade - cross-over - ten 8" drill collars. Dev.: 1 deg. at 7691'. Magnafluxed all drill collars, subs, and stabilizers. Found 7 cracked drill collars and one bad stabilizer (out of total of 20). 30' fill on Bit #20. Low solids mud - Wt. 9.7#; Vis. 44; WL 9.8 cc; FC 2/32; pH 11.0; gel strength ini./10 min. 8 / 19; 10% solids; 1/4 of 1% sand; salinity 4900 ppm; PV 11; Yp 16. Cum. mud costs: \$34,319. Brinkerhoff 0/48/0.



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Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-9: Drilling shale and sand at 7020'. (Prog. 122') 12 1/4" hole. Low solids mud - Wt. 9.6#.

10-10: Drilling shale and sand at 7192'. (Prog. 172') 12 1/4" hole. Low solids mud - Wt. 9.5#.

10-11: Drilling shale and sand at 7354'. (Prog. 162') 12 1/4" hole. Bit #19 - Smith 3JS in hole. Five 9" and eleven 8" drill collars; WOB 50,000#; 60 RPM; 6 1/2" x 18" pump; 58 SPM; 445 GPM; PP 1750 psi; ann. vel. 85; jet vel. 435; bottom hole assembly - bit - one 9" drill collar - one button stabilizer - shock sub - two 9" drill collars - Servco steel stabilizer. Low solids mud - Wt. 9.5#; Vis. 38; WL 11.5 cc; FC 2/32; pH 11.0; gel strength ini./10 min. 8 / 17; 9% solids; 1/4 of 1% sand; salinity 2300 ppm; PV 8; Yp 14. Cum. mud costs: \$28,157. Brinkerhoff 0/44/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-12: Drilling shale and sand at 7498'. (Prog. 144') 12 1/4" hole. Five 9" and eleven 8" drill collars; WOB 55,000#; 60 RPM; 6 1/2" x 18" pump; 58 SPM; 445 GPM; PP 1900 psi; ann. vel. 85; jet vel. 455; bottom hole assembly - Bit - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel stabilizer - two 9" and eleven 8" drill collars. Dev.: 1/2 deg. at 7335'. Low solids mud - Wt. 9.6#; Vis. 46; WL 9.6 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 8 / 17; 9% solids; 1/4 of 1% sand; salinity 2500 ppm; PV 14; Yp 15. Cum. mud costs: \$30,286. Brinkerhoff 0/45/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-13: Drilling sand and shale at 7659'. (Prog. 161') 12 1/4" hole. Bit #19 in hole. Five 9" and eleven 8" drill collars; WOB 56,000#; 61 RPM; 6 1/2" x 18" pump; 58 SPM; 445 GPM; PP 1950 psi; ann. vel. 85; jet vel. 455; bottom hole assembly - bit - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel stabilizer - two 9" and eleven 8" drill collar. Chlorides began increasing. Checked for flow at 7542' - no flow. Checked for flow at 7654'. Detect small flow. Raising mud wt. while drilling. Low solids mud - Wt. 9.4#; Vis. 41; WL 10.4 cc; FC 2/32; pH 10.6; gel strength ini./10 min. 4 / 13; 9.5% solids; 1/4 of 1% sand; salinity 5100 ppm; PV 10; Yp 8. Cum. mud costs: \$31,779. Brinkerhoff 0/46/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-7: Drilling shale and streaks of sand at 6830'. (Prog. 152') 12 1/4" hole. Bit #14 R.R. Smith 3JS - drilled 6450' to 6678'. Six 9" and fourteen 8" drill collars; WOB 75,000#; 70 RPM; 6 1/4" x 18" pump; 58 SPM; 440 GPM; PP 2000 psi; ann. vel. 85; jet vel. 445; bottom hole assembly - bit - one 9" drill collar - Servco 12 1/4" button stabilizer - two 9" drill collars - one 12 1/4" Servco steel stabilizer - three 9" drill collars - eleven 8" drill collars. Dev.: 1 deg. at 6678'. Low solids mud - Wt. 9.4#; Vis. 47; WL 12.4 cc; FC 2/32; pH 11; gel strength ini./10 min. 7 / 18; 9% solids; 1/4 of 1% sand; salinity 2300 ppm; PV 11; Yp 21. Cum. mud costs: \$22,870. Brinkerhoff 0/40/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-8: Tripping in shale and sand at 6898'. (Prog. 68') 12 1/4" hole. Dev.: 1/2 deg. at 6877'. Lost 150# pump pressure before pulling Bit #18. Checked pump and drill string. Found shock sub leaking. Changed. Ran back in hole. Unable to get over 1000# pump pressure. Checked pumps. Dropped carbide to check for hole in pipe. Could not find by circulating time. Dropped cut up soft line in mud and pumped. Chaining out, looking for hole in pipe. Bit #18 - HTC OSC1G - drilled 6678' to 6877'. Six 9" and eleven 8" drill collars; WOB 45,000#; 50 RPM; 6 1/4" x 18"; 58 SPM; 440 GPM; PP 950 psi; bottom hole assembly - bit - one 9" drill collar - Servco button stabilizer - shock sub - two 9" drill collars - Servco steel stabilizer. Low solids mud - Wt. 9.3#; Vis. 40; WL 13.6 cc; FC 2/32; pH 11.0; gel strength ini./10 min. 9 / 20; 10.5% solids; 1/4 of 1% sand; salinity 2500 ppm; PV 7; Yp 21. Cum. mud costs: \$23,337. Brinkerhoff 0/41/0.



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

C O N F I D E N T I A L

RED CHANNEL FIELD - Uintah Co., Wyo.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-2: Drilling sand and shale at 5944'. (Prog. 199') 12 1/4" hole.  
Bit #15 - Sec. M4NG - drilled 5597-5875'. Drilling with low solids mud - Wt. 9.6#.

10-3: Drilling shale with some sand at 6204'. (Prog. 260') 12 1/4" hole.  
Dev.: 1/2 deg. at 6000'. Drilling with low solids mud - Wt. 9.6#. Roads quite bad.

10-4: Drilling sand and shale at 6385'. (Prog. 181') 12 1/4" hole. Bit #16 - HTC OSC1G - drilled 5375' to 6204'. Six 9" and fifteen 8" drill collars; WOB 60,000-70,000#; 70 RPM; 6 1/4" x 18" pump; 58 SPM; 445 GPM; PP 2100 psi; ann. vel. 85; jet vel. 485; bottom hole assembly - bit - one 9" drill collar - one Servco button stabilizer - two 9" drill collars - one stabilizer - shock sub. Dev.: 1 1/4 deg. at 6200'. Low solids mud - Wt. 9.6#; Vis. 40; WL 12.0 cc; FC 2/32; pH 11.0; gel strength ini./10 min. 4 / 7; 9% solids; 1/4 of 1% sand; salinity 3200 ppm; PV 8; Yp 11. Cum. mud costs: \$20,505. Brinkerhoff 0/37/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-5: Drilling shale and sand at 6525'. (Prog. 140') 12 1/4" hole. Bit #17 - Sec. S4T - drilled 6204-6454'. Six 9" and eleven 8" drill collars; WOB 50,000#; 60 RPM; 6 1/2" x 18" pump; 58 SPM; 445 GPM; PP 1900 psi; ann. vel. 85; jet vel. 445; bottom hole assembly - bit - one 9" drill collar - Servco 12 1/4" button stabilizer - two 9" drill collars - one 12 1/4" Servco steel stabilizer - three 9" drill collars - 11 8" drill collars. Dev.: 1/2 deg. at 6450'. Low solids mud - Wt. 9.7#; Vis. 42; WL 11.8 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 5 / 15; 9% solids; 1/4 of 1% sand; salinity 2900 ppm; PV 9; Yp 10. Cum. mud costs: \$21,107. Brinkerhoff 0/38/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

10-6: Tripping in shale and sand at 6678'. (Prog. 153') 12 1/4" hole. Bit #14 - RR Smith 3JS - drilled 6450' to 6678'. Six 9" and eleven 8" drill collars; WOB 45,000-50,000#; 45-60 RPM; pump size - 6 1/2" x 18"; 58 SPM; 445 GPM; PP 1900 psi; ann. vel. 85; jet vel. 445; bottom hole assembly - bit - one 9" drill collar - Servco 12 1/4" button stabilizer - two 9" drill collars; one 12 1/4" Servco steel stabilizer - three 9" drill collars - eleven 8" drill collars. Low solids mud - Wt. 9.5#; Vis. 38; WL 12.2 cc; FC 2/32; pH 11.0; gel strength ini./10 min. 6 / 15; 7% solids; salinity 2300 ppm; PV 9; Yp 11. Cum. mud costs: \$21,800. Brinkerhoff 0/39/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

9-30 Drilling sand and shale at 5561'. (Prog. 194') 12 1/4" hole. Bit #14 in hole. Had few tight connections. Water flow causing some trouble. Water flow killed. Six 9" and nine 8" drill collars; WOB 45,000-50,000#; 60 RPM; 6" x 18" pump; 58 SPM; 415 GPM; PP 1500 psi; ann. vel. 83; jet vel. 405; bottom hole assembly - bit - one 9" drill collar - one Servco button stabilizer - two 9" drill collars - one stabilizer - shock sub. Dev.: 2 1/4 deg. at 5350'. Low solids mud - Wt. 9.5#; Vis. 36; WL 21.2 cc; FC 2/32; pH 11.5; gel strength ini./10 min. 5 / 15; 7% solids; 1/4 of 1% sand; salinity 3800 ppm; PV 7; Yp 8. Cum. mud costs: \$15,232. Brinkerhoff 0/33/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

10-1: Drilling sand and shale at 5745'. (Prog. 184') 12 1/4" hole. Bit #14 - Smith 3JS - drilled 5170-5597'. Bit #15 in hole. Six 9" and fifteen 8" drill collars; WOB 65,000#; 70 RPM; 6 1/4" x 18" pump; 58 SPM; 445 GPM; PP 1750 psi; ann. vel. 85; jet vel. 435; bottom hole assembly - bit - one 9" drill collar - one Servco button stabilizer - two 9" drill collars - one stabilizer - shock sub. Dev.: 2 deg. at 5577'. Drilling with low solids mud - Wt. 9.6#; Vis. 37; WL 12.8 cc; FC 2/32; pH 11.5; gel strength ini./10 min. 5 / 16; 9% solids; 1/4 of 1% sand; salinity 3700 ppm; PV 8; Yp 11. Cum. mud costs: \$16,755. Brinkerhoff 0/33/0.



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

C O N F I D E N T I A L

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

9-25: Drilling siltstone and shale at 4180'. (Prog. 182') 12 1/4" hole. Bit #12 - Smith 4JS - drilled 2796-4003'. 300 units gas - 10% methane. 30 bbls./hr. water flow. Dev.: 2 1/2 deg. at 3900'. Low solids mud - Wt. 8.7#.

9-26: Drilling shale and siltstone at 4532'. (Prog. 352') 12 1/4" hole. Good show at 4350' to 4360' - oil stain - good porosity. dev.: 2 1/4 deg. at 4200' and 4496'. Low solids mud - Wt. 9.0#. Very slight flow of water.

9-27: Drilling sandstone, siltstone, and shale at 4846'. (Prog. 314') 12 1/4" hole. Dev.: 2 1/4 deg. at 4790'. Good sand breaks - 4726-33', 4737-4746', 4751-56', and 4785-92', all showing oil. Very slight flow of water. Bit #13 in hole. Six 9" and nine 8" drill collars; WOB 45,000-50,000#; 50 RPM; 6 1/4" x 18" pump; 59 SPM; 445 GPM; PP 1750 psi; ann. vel. 85; jet vel. 422; bottom hole assembly - bit - 3 pt. reamer - shock sub - one short drill collar - stabilizer - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - three 9" drill collars - stabilizer - nine 8" drill collars. Low solids mud - Wt. 8.8#; Vis. 34; WL 28 cc; FC 2/32; pH 11.2; gel strength ini./10 min. 2 / 4; 3.1% solids; 1/4 lf 1% sand; salinity 3300 ppm; PV 5; Yp 5. Cum. mud costs: \$10,189. Brinkerhoff 0/30/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

9-28: Drilling siltstone and shale at 5170'. (Prog. 324') 12 1/4" hole. Bit #13 in hole. Water flow at 4500' - 25 B/H. Six 9" and nine 8" drill collars; WOB 45,000 to 50,000#; 50-55 RPM; 6 1/4" x 18" pump; 59 SPM; 445 GPM; PP 1750 psi; ann. vel. 85; jet vel. 422; bottom hole assembly - bit - 3 pt. reamer - shock sub - one short drill collar - stabilizer - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - three 9" drill collars - stabilizer - nine 8" drill collars. Low solids mud - Wt. 9.0#; Vis. 34; WL 20 cc; FC 2/32; pH 11.5; gel strength ini./10 min. 4 / 10; 4.3% solids; 1/4 of 1% sand; salinity 3300 ppm; PV 6; Yp 8. Cum. mud csts: \$11,322. Brinkerhoff 0/31/0.

Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD

9-29: Drilling sandy shale at 5367'. (Prog. 197') 12 1/4" hole. Bit #13 - Reed SCMS drilled 4003' to 5170'. Bit #14 in hole. Six 9" drill collars; WOB 49,000#; 60 RPM; 6 1/4" x 18" pump; 59 SPM; 445 GPM; PP 1750 psi; ann. vel. 85; jet vel. 422; bottom hole assembly - bit - one 9" drill collar - Servco button stabilizer - drill shock sub - two 9" drill rubber stabilizers. Dev.: 3 deg. at 5170'. Top of Wasatch 5200'. Water flow 22 B/H. Low solids mud - Wt. 9#; Vis. 37; WL 17 cc; FC 2/32; pH 11; gel strength ini./10 min. 3 / 10; 4 1/2% solids; 1/4 of 1% sand; salinity 3800 ppm; PV 37; Yp 8. Cum. mud costs: \$12,796. Brinkerhoff 0/32/0.



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

**Conoco #22-1 Federal - CONOILLTD - Conoco 1.0000000**

9-2: Drilling in Green River at 1150'. (Prog. 215') 17 1/2" hole. Bit #4 - Sec. S3T - drilled 751' to 959'. Six 9" and nine 8" drill collars; WOB 50,000#; 40 RPM; pump size - 7" x 18" and 6" x 18"; 58 SPM; 950 GPM; PP 1500 psi; ann. vel. 91; jet vel. 335; bottom hole assembly - bit - five 10" drill collars - stabilizers - one 9" drill collar - stabilizer - shock sub - two 9" drill collars - stabilizer - three 9" drill collars and nine 8" drill collars. Dev.: 1 deg. at 959'; 1/2 at 1028'. Drilling with gel-water - Wt. 9.1#; Vis. 45; WL 14.0 cc; FC 2/32; pH 9.0; gel strength ini./10 min. 2 / 15; 8% solids; 1/4 of 1% sand; salinity 800 ppm; PV 14; Yp 10. Cum. mud costs: \$842. Brinkerhoff 0/5/0.

**Conoco #22-1 Federal - CONOILLTD - Conoco 1.0000000**

9-3: Drilling in Green River at 1396'. (Prog. 246') 17 1/2" hole. Bit #5 - Smith 45 - drilled 959' to 1396'. Six 9" and nine 8" drill collars; WOB 55,000#; 40 RPM; pump size - 7" x 18" and 6" x 18"; 58 SPM; 950 GPM; PP 1500 psi; ann. vel. 91; jet vel. 335; bottom hole assembly - bit - short 10" drill collar - rubber stabilizer - one 9" drill collar - rubber stabilizer - shock sub - two 9" stabilizers - three 9" and 9 8" drill collars. Dev.: 3/4 deg. at 1195' and 1306'. Drilling with gel-water - Wt. 8.9#; Vis. 55; WL 18 cc; FC 2/32; pH 9; gel strength ini./10 min. 4 / 14; 6.5% solids; 1/8 of 1% sand; salinity 700 ppm; PV 13; Yp 9. Cum. mud costs: \$11,003. Brinkerhoff 0/6/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD**

Drilling sand and shale at 3600'. (Prog. 291') 12 1/4" hole. Bit #12 - Smith 4JS - in at 2796'. Still in hole. Six 9" and nine 8" drill collars; WOB 45,000#; 45 RPM; 6 1/4" x 18" pump; 59 SPM; 445 GPM; PP 1700 psi; ann. vel. 85; jet vel. 422; bottom hole assembly - bit - 3 pt. reamer - shock sub - one short drill collar - stabilizer - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - three 9" drill collars - stabilizer - nine 8" drill collars. Pressure fell off. Stripped out of hole at 3450'. Well kicking. Changed washed out shock sub. Stood six 8" drill collars back in derrick. Drilling with low solids mud - Wt. 8.6#; Vis. 31; WL 85 cc; FC 2/32; pH 11.5; gel strength ini./10 min. 1 / 2; 2% solids; 1/8 of 1% sand; salinity 4600 ppm; PV 2; Yp 1. Cum. mud costs: \$7321. Brinkerhoff 0/26/0.

**Conoco #22-1 Federal - Conoco 1.00000000 - CONOILLTD**

Drilling shale and lime at 3992'. (Prog. 392') 12 1/4" hole. Bit #12 - Smith 4JS - 2796-3992'. Still in hole. Six 9" and nine 8" drill collars; WOB 45,000#; 45 RPM; 6 1/4" x 18" pump; 59 SPM; 445 GPM; PP 1800 psi; ann. vel. 85; jet vel. 422; bottom hole assembly - bit - 3 pt. reamer - shock sub - one short drill collar - stabilizer - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - three 9" drill collars - stabilizer - nine 8" drill collars. Dev.: 2 deg. at 3565'; 2 1/2 at 3960'. Waterflow at 3750', approx. 25 BPH. Low solids mud - Wt. 8.7#; Vis. 35; WL 60 cc; FC 2/32; pH 11.5; gel strength ini./10 min. 0 / 1; 2% solids; 1/8 of 1% sand; salinity 2900 ppm; PV 2; Yp 1. Cum. mud costs: \$7735. Brinkerhoff 0/27/0

FORM OGC-8-X

FILE IN QUADRUPLICATE

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS CONSERVATION  
1588 West North Temple  
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Conoco #22-1 Federal  
Operator Conoco Address 152 N. Durbin-Casper Phone 234-7311  
Contractor Brinkerhoff Drlg. Co. Address Box 1568 - Casper Phone 235-6628  
Location SW 1/4 SW 1/4 Sec. 22 T. 9 N. R. 20 E. Uintah County, Utah  
S W

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. 4180'		30 B/H	Fresh
2. 4500'		25 B/H	Fresh
3. 5367'		22 B/H	Fresh
4.			
5.			

(Continue on reverse side if necessary)

Formation Tops:

Wasatch 5200'

Remarks:

- NOTE:
- (a) Upon diminishing supply forms, please inform this office.
  - (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (See Back of form).
  - (c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

February 7, 1972

MEMO FOR FILING

Re: Continental Oil Company  
Conoco-Federal 22-1  
Sec. 22, T. 9 S, R. 20 E,  
Uintah County, Utah

On February 2, 1972, the above referred to well site was visited.

Met with Mr. Dan Clark, Conoco's Drilling Superintendent, and discussed operations being conducted. At the time of the visit they were making a trip below 15,000' with little or no serious problems being encountered.

It should be noted that the company had a good gas test in possibly the Frontier Formation with results inconclusive at this time. Sample cuttings indicate that the reservoir might be too tight for commercial production.

PAUL W. BURCHELL  
CHIEF PETROLEUM ENGINEER

PWB:ck

cc: U.S. Geological Survey

**STATE OF UTAH**  
**OIL & GAS CONSERVATION COMMISSION**  
 Salt Lake City 14, Utah

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

State Utah County Unitah Field or Lease Red Channel Field

The following is a correct report of operations and production (including drilling and producing wells) for

February, 1972

Agent's address 152 No. Durbin Company Continental Oil Company

Casper, Wyoming 82601 Signed Everett Durbin

Phone 234-7311 Agent's title Administrative Supervisor

State Lease No. \_\_\_\_\_ Federal Lease No. \_\_\_\_\_ Indian Lease No. \_\_\_\_\_ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)	
								No. of Days Produced	
22 SW SW	95	20 E	1	Drig.				2-29-72	16,533'
				"				1-31-72	15,292'
				"				12-31-71	14,593'
				"				11-30-71	11,371'
				"				10-31-71	9,540'
				"				9-30-71	5,561'
				"			8-31-71	718'	
Spudded 5:00 PM, August 28, 1971									

CONFIDENTIAL

CONFIDENTIAL

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

\*STATUS: F-Flowing P-Pumping GL-Gas Lift  
 SI-Shut In D-Dead  
 GI-Gas Injection TA-Temp. Aban.  
 WI-Water Injection

FILE IN DUPLICATE



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

12-18: Drilling shale at 12,703'. (Prog. 137') 12½" hole. Bit #55 - Smith #JS - drilled 12,480' to 12,703'. Gel-Chem - Wt. 10.4#.

12-19: Drilling shale at 12,860'. (Prog. 157') 12½" hole. Bit #55 still in hole. Gel-Chem - Wt. 10.5#

12-20: Drilling shale at 13,013'. (Prog. 153') 12½" hole. Bit #55 still in hole. Five 9", nine 8", and 16 5" drill collars; WOB 50,000#; 43 RPM; 6½" x 18" pump; 54 SPM; 460 GPM; PP 2400 psi; ann. vel. 110; jet vel. 420; bottom hole assembly - same. 1400 units of gas (background). Gel-Chem - Wt. 10.4#; Vis. 48; WL 7.8 cc; FC 2/32; pH 9.6; gel strength ini./10 min. 2 / 4; 4% oil;

13% solids; trace of sand; salinity 3600 ppm; PV 15; Yp 11. Cum. mud costs: \$140,154. Brinkerhoff 0/114/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

Drilling shale at 13,178'. (Prog. 165') 12½" hole. Five 9", nine 8" and 16 5" drill collars; WOB 50,000#; 43 RPM; 6½" x 18" pump; 54 SPM; 460 GPM; PP 2400 psi; ann. vel. 110; jet vel 420; bottom hole assembly - same. Gel-Chem - Wt. 10.4#; Vis. 44; WL 7.4; FC 2/32; gel strength ini./10 min. 1 / 3; 4.5% oil; 11% solids; trace of sand; salinity 3800 ppm; PV 16; Yp 8. Cum. mud costs: \$142,412. Brinkerhoff 0/115/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

Tripping in shale at 13,310'. (Prog. 132') 12½" hole. Bit #55 - Smith 3JS - drilled 12,486' to 13,310'. Five 9", nine 8" and 16 5" drill collars; WOB 50,000#; 43 RPM; 6½" x 18" pump; 54 SPM; 461 GPM; PP 2400 psi; ann. vel. 110; jet vel. 420; bottom hole assembly - same. Dev.: 1½ deg. at 13,310'. Gel-Chem - wt. 10.4#; Vis. 45; WL 6.8 cc; FC 2/32; pH 9.6; gel strength ini./10 min. 1 / 2; 4% oil; 11% solids; trace of sand; salinity 3800 ppm; PV 16; Yp 8. Cum. mud costs: \$145,227. Brinkerhoff 0/116/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

Drilling shale at 13,428'. (Prog. 118') 12½" hole. Five 9", nine 8" and 16 5" drill collars; WOB 45,000-50,000#; 43 RPM; 6½" x 18" pump; 54 SPM; 461 GPM; PP 2400 psi; ann. vel. 110; jet vel. 426. Gel-Chem - Wt. 10.3#; Vis. 50; WL 6.9 cc; FC 2/32; pH 9.7; gel strength ini./10 min. 1 / 3; 4% oil; 11% solids; trace of sand; salinity 3900 ppm; PV 17; Yp 11. Cum. mud costs: \$147,207. Brinkerhoff 0/117/0.



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - CONOILLTD (Confidential) - Conoco 1.000000**

1-8: Trip in hole. Depth 14,667'. 12 $\frac{1}{4}$ " hole. While cond. mud interliner of kelly hose came loose. Pumped down string and plugged drill collars and heavy wt. pipe. Pulled out of hole. Removed bit. Ran drill collars and heavy wt. drill pipe open ended and pumped out rubber plugs. Pulled and running bit, drill collars, and drill pipe back to bottom. Breaking circulation while going in. Gel-Chem - Wt. 10.9#.

1-9: Tripping to run 9 5/8" casing. Depth 14,667'. 12 $\frac{1}{4}$ " hole. Ran in hole. Stopped 5 stands off bottom. Circ. up gas 4 $\frac{1}{2}$  hrs. Had 250 bbl. increase. Circ. out gas. Cond. mud to bottom 4 hrs. Pulled 10 stands. Ran back to bottom. Had bridge at 14,642'. Circ. 1 hr. Pulled 4 stands. Waited 15 min. Ran back to TD. Okay. Spotted 50 bbls. high viscosity mud on bottom (70 vis.). Pulled 20 stands 25# pipe. Laid down 80 jts. 19.5# drill pipe - not plastic coated. Pulling out of hole. (Hooked up additional choke and choke line into manifold so now have two 2" chokes and one 1" choke to relieve pressure.) Gel-Chem - Wt. 10.9#.

1-10: Running 9 5/8" casing at 13,000'. Depth 14,667'. 12 $\frac{1}{4}$ " hole. Pulled out of hole. Laid down 16 hrs. heavy wt. 5" drill pipe and drill collars. Broke out all tools. Installed 9 5/8" casing rams in BOP. Rigged up and running 9 5/8", 43.5# and 40.0# Mod. N-80 casing with Baker cement automatic fillup shoe and collar. Gel-Chem - Wt. 10.9#. Brinkerhoff 0/135/0.

**Conoco #22-1 Federal - CONOILLTD (Confidential) Conoco 1.0000000**

1-11: WOC. Depth 14,667'. 12 $\frac{1}{4}$ " hole. Ran 372 jts. 9 5/8", 40.0 and 43.5# Mod. N-80 casing with Baker automatic float shoe and float collar. Total 14,686.30'. Ran Baker 2-stage collar at 4385' with metal petal baskets at 4405' and 4430'. Circ. last 2 jts. casing down to 14,666'. Circ. 3 $\frac{1}{2}$  hrs. for gas bubble. Well on all 3 chokes last 2 hrs. Fluid increase 300 bbls. Cemented thru shoe at 14,666' with 1000 gal. Mud Flush, 360 sax Halliburton "Lite Wt." cement with 40% Silica Flour, 18% NaCl<sub>2</sub>, and 1% CFR-2 followed by 200 sax Class "G" with 40% Silica Flour, 18% NaCl<sub>2</sub>, 1% CFR-2 and .2% HR-4. Displaced with 1098 bbls. drilling fluid. Bumped plug at 7:10 p.m. with 2000 psi. Held for 5 min. Held okay. Bled off. Float held okay. Opened 2-stage collar at 4385'. Circ. and cond. mud for 3 hrs. Cemented thru stage collar at 4385' with 1000 gal. Mud Flush, 1150 sax "Lite-Wt." with 3% CaCl<sub>2</sub> followed by 335 sax Class "G" with 2% CaCl<sub>2</sub>. Bumped plug at 12:15 a.m. with 2000 psi. Bled off pressure. Ports appeared closed. WOC. (pH of mud raised to 10.5# before cementing. Treated mud with 1/4#/bbl. Dowcide "G".) Job by Halliburton. All displacement volumes measured back thru data unit = 100% returns. Brinkerhoff 0/136/0.

**Conoco #22-1 Federal - CONOILLTD (Confidential) Conoco 1.0000000**

1-5: Logging. Depth 14,665'. 12½" hole. Circ. and conditioned mud for 8½ hrs. Raised mud wt. to 10.9#/gal. Pulled out of hole in stages. Hole quiet. Ran FDC Log 14,658' to 14,300'. Tool hung up. Quit working. Pulled out. Ran BHC tool to 14,658'. Began logging. 6½" x 18" pump; bottom hole assembly - same. Gel-Chem - Wt. 10.9#; Vis. 56; WL 6.8 cc; FC 2/32; pH 9.9; gel strength ini./10 min. 2 / 5; 4% oil; 12% solids; trace of sand; salinity 5000 ppm; PV 17; Yp 14. Cum. mud costs: \$169,128. Brinkerhoff 0/130/0.

**Conoco #22-1 Federal - CONOILLTD - Conoco 1.0000000 (Confidential)**

1-6: Laying down logging tools. Depth 14,665'. 12½" hole. Ran Schlumberger BHC Sonic-Gamma with caliper 14,655' to 1720'. Ran Int. FDC-Neutron Log from 12,600' to 1720'. (FDC stopped working at 4000'. Continued to attempt to log 5 hrs. Would not work.) Will drill approximately 250' more. Cum. mud costs: \$170,878. Brinkerhoff 0/131/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

1-7: Washing to bottom. Depth 14,667'. (Prog. 2') 12½" hole. Ran in hole. Rotated and washed 60' to bottom. Drilled 2'. Well began kicking. Picked up 50' off bottom. Gaining fluid at rate of 4 to 5 B/M. Put well on chokes. Both chokes wide open 1" and 2". Fluid gain 350 bbls. Pump idling at 400 psi. CP rose to 500+ psi. Forced to open well to sump thru 4" line off choke manifold to prevent breaking down formation or casing shoe. Depleted mud volume in 30 min. Closed well in. Pressure rose to 300 psi on casing. Bled off pressure - 85% gas. Drill pipe stuck. Pulled first 3 jts. Working at 3' intervals. Pulled 450,000# to free up. Pulled 5 stands after pipe free. Mixed 350 bbls. mud. Began circulating thru flow line. Very minimal gas. Circ. up bottoms. Ran in 5 stands. Washing down 6th stand. Bit #59 in hole. Three 9", eleven 8" and 16 5" drill collars; WOB 35,000#; 43 RPM; 6½" x 18" pump; 52 SPM; 445 GPM; PP 1900 psi; bottom hole assembly - bit - soft shock - one 9" drill collar - stabilizer - two 9" drill collars - stabilizer - four 8" drill collars - 1 rubber stabilizer - seven 8" drill collars.

Gel-Chem - Wt. 10.9#; Vis. 64; WL 7.8 cc; FC 2/32; pH 9.9; gel strength ini./10 min. 3 / 6; 4% oil; 12% solids; trace of sand; salinity 5400 ppm; PV 17; Yp 16. Cum. mud costs: \$172,593. Brinkerhoff 0/132/0.



W. C. Blackburn  
 Division Manager  
 Production Department

Western Hemisphere Petroleum Division  
 Continental Oil Company  
 152 North Durbin  
 Pacific Western Life Building  
 Casper, Wyoming 82601  
 (307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - CONOILLTD (Confidential) Conoco 1.0000000**

12-31: Drilling sand at 14,593'. (Prog. 93') 12 1/4" hole. Topped hard, tight sand at 14,570'. Appears to be Frontier. Gel-Chem - Wt. 10.8#.

1-1: Cut drilling line. Depth 14,603' - sand and shale. (prog. 2') 12 1/4" hole. Bit #57 - Smith - drilled 14,084' to 14,595'. Dev.: 1 deg. at 14,595'. Drilled to 14,595'. Circ. 4 hrs. Pulled 10 stands. Ran back to bottom. Circ. 1 hr.

Ran Schlumberger Dual Laterolog from 14,587' to surface pipe at 1725'.  
 Tops:

Mesa Verde	8,032'
Mancos	10,252'
Top of Castlegate	10,630
Base of Castlegate	10,896'
Emery	11,805-12,010'

Magnafluxed drill collars to drill ahead. Gel-Chem - Wt. 10.8#.

1-2: Drilling sand at 14,620'. (Prog. 17') 12 1/4" hole. Gel-Chem - Wt. 10.8#.

1-3: Drilling hard sand at 14,649'. (Prog. 29') 12 1/4" hole. Bit #58 - Sec. S-88 drilled 14,602' to 14,649'. Three 9", eleven 8" and 16 5 1/2" drill collars; WOB 40,000-60,000#; 43-57 RPM; 6 1/2" x 18" pump; 52 SPM; 445 GPM; PP 2400 psi; ann. vel. 82. 300 units background gas. Extremely bad blizzard conditions. Snowing - 1' snow. Bottom hole assembly - bit - soft shock - one 9" drill collar - stabilizer - 2 9" drill collars - stabilizer - four 8" drill collars - 1 rubber stabilizer - seven 8" drill collars. Gel-Chem - Wt. 10.8#; Vis. 58; WL 6.8 cc; FC 2/32; pH 9.7; gel strength ini./10 min. 3 / 6; 4% oil; 14% solids; trace of sand; 6000 ppm salinity; PV 22; Yp 16. Cum. mud costs: \$167,771. Brinkerhoff 1/128/0.

**Conoco #22-1 Federal - CONOILLTD (Confidential) Conoco 1.0000000**

1-4: Circulating and conditioning mud. Depth 14,665' - sand. (Prog. 16') 12 1/4" hole. Bit locked. Pulled 13 stands. Hole took 2 bbls. mud to fill. Ran back to bottom. 1" flow from annulus. Closed in rams. Shut in well. No pressure. Circ. well. Fluid began building in tanks at 2 B/M. Closed in well. No pressure. Circ. well. Mud tanks filling at rate of 5 to 6 B/M. Shut down pumps. Annulus continued to flow. Circ. well thru full 2" choke. 550 psi on drill pipe. 150 psi on casing. Total fluid buildup = 200 plus bbls. Well on choke 1 hr. Opened rams. Circ. and cond. mud with pump idling. Well kicking over shaker for first hr. 1200 units - 16% methane. 3 deg. above zero. Bit #58 - Sec. S-88 - drilled 14,602' to 14,665'. Three 9", eleven 8" and 16 5" drill collars; WOB 60,000#; 43 RPM; 6 1/2" x 18" pump; 52 SPM; 445 GPM; PP 2400 psi; ann. vel. 82. Gel-Chem - Wt. 10.8#; Vis. 54; WL 7.0 cc; FC 2/32; pH 9.9; gel strength ini./10 min. 2 / 5; 4% oil; 14% solids; trace of sand; salinity 6000 ppm; PV 16; Yp 11. Cum. mud costs: \$169,128. Brinkerhoff 0/129/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
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(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

12-24: Drilling shale at 13,638'. (Prog. 210') 12½" hole. Bit #56 - Smith 3JS drilled 13,310- to 13,638'. Gel-Chem - Wt. 10.5#. 2100 units gas - background.

12-25: Drilling shale at 13,815'. (Prog. 177') 12½" hole. Gel-Chem - Wt. 10.6#.

12-26: Drilling shale at 13,970'. (Prog. 155') 12½" hole. Gel-Chem - Wt. 10.6#.

12-27: Tripping in shale at 14,084'. (Prog. 114') 12½" hole. Bit #56 - Smith 3JS - drilled 13,310' to 14,084'. Four 9", nine 8", and 16 5" drill collars; WOB 55,000#; 42 RPM; 6½" x 18" pump; 52 SPM; 445 GPM; PP 2400 psi; ann. vel. 88; jet vel. 415; bottom hole assembly - bit - drill collars - 1 button stabilizer - two drill collars - 1 button stabilizer - four drill collars - 1 rubber stabilizer. Trip out very good. Gel-Chem - Wt. 10.7#; Vis. 44; WL 6.6 cc; FC 2/32; pH 9.6; Gel strength ini./10 min. 2 / 5; 4% oil; 15% solids; trace of sand; salinity 4200 ppm; PV 14; Yp 10. Cum. mud costs: \$156,913. Brinkerhoff 0/121/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

12-28  
Drilling shale at 14,202'. (Prog. 118') 12½" hole. Trip very good. Four 9", nine 8", and 16 5" drill collars; WOB 50,000#; 43 RPM; 6" x 18" pump; 56 SPM; 410 GPM; PP 1980 psi; 82 ann. vel.; bottom hole assembly - bit - drill collar - 1 button stabilizer - two drill collars - 1 button stabilizer - four drill collars - one rubber stabilizer. Gel-Chem - Wt. 10.7#; Vis. 47; WL 7.0 cc; FC 2/32; pH 9.7; gel strength ini./10 min. 3 / 5; 4% oil; 14% solids; trace of sand; salinity 4500 ppm; PV 13; Yp 9. Cum. mud costs: \$157,653. Brinkerhoff 0/122/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

12-29  
Drilling shale at 14,352'. (Prog. 150') 12½" hole. Bit #57 in hole. Four 9", nine 8", and 16 5" drill collars; 6" x 18" pump; 56 SPM; 410 GPM; PP 2000 psi; ann. vel. 82; bottom hole assembly - same. Gel-Chem - Wt. 10.7#; Vis. 49; WL 6.4 cc; FC 2/32; pH 9.6; gel strength ini./10 min. 2 / 6; 4.5% oil; 15% solids; 1/8 of 1% sand; salinity 4200 ppm; PV 16; Yp 13. Cum. mud costs: \$160,504. Brinkerhoff 0/123/0.

12-30  
Drilling shale at 14,500'. (Prog. 148') 12½" hole. Bit #57 - Smith 3JS - drilled 14,084' to 14,500'. Four 9", nine 8" and 16 5" drill collars; WOB 55,000#; 43 RPM; 6" x 18" pump; 52 SPM; 445 GPM; PP 2400 psi; ann. vel. 88; jet vel. 415; bottom hole assembly - bit - drill collar - 1 button stabilizer - 2 drill collar - 1 button stabilizer - four drill collars - one rubber stabilizer. Gel-Chem - Wt. 10.8#; Vis. 61; WL 7.6 cc; FC 2/32; pH 9.7; gel strength ini./10 min. 2 / 5; 5% oil; 15% solids; 1/8 of 1% sand; salinity 4600 ppm; PV 20; Yp 15. Cum. mud costs: \$162,940. Brinkerhoff 0/124/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

Drilling shale at 12,292'. (Prog. 151') 12½" hole. Bit #54 - Sec. S86 - drilled 12,130' to 12,292'. Five 9", nine 8", and 16 5" hvy. wt. drill collars; WOB 50,000#; 47 RPM; 6½" x 18" pump; 52 SPM; 450 GPM; PP 2200 psi; ann. vel. 89; jet vel. 420; bottom hole assembly - same. Gel-Chem - Wt. 10.4#; Vis. 43; WL 7.0 - hi-temp, hi-press. - 20.0; FC 2/32; pH 9.6; gel strength ini./10 min. 1 / 3; 5% oil; 11% solids; trace of sand; salinity 3800 ppm; PV 15; Yp 5. Cum. mud costs: \$132,467. 5 deg. below zero. Top of Emery 11,930'. Brinkerhoff 0/109/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

Drilling silty shale at 12,470'. (Prog. 178') 12½" hole. Five 9", nine 8", and sixteen 5" drill collars; WOB 50,000#; 48 RPM; 6½" x 18" pump; 52 SPM; 450 GPM; PP 2200 psi; ann. vel. 89; jet vel. 420; bottom hole assembly - same. Gas units 1600 base. Gel-Chem - Wt. 10.4#; Vis. 45; WL 7.2 cc; FC 2/32; pH 9.4; gel strength ini./10 min. 1 / 4; 4% oil; 12% solids; trace of sand; salinity 3800 ppm; PV 16; Yp 8. Cum. mud costs: \$133,975. Brinkerhoff 0/110/0.

Drilling shale at 12,568'. (Prog. 98') 12½" hole. Bit #54 - Sec. S86 - drilled 12,130 to 12,486'. Five 9", nine 8" and 16 5" drill collars; WOB 50,000#; 48 RPM; 6½" x 18" pump; 52 SPM; 450 GPM; PP 2300 psi; ann. vel. 89; jet vel. 420; bottom hole assembly - same. Dev.: 1½ deg. at 12,486'. Gel-Chem - Wt. 10.4#; Vis. 43; WL 7.0 cc; FC 2/32; pH 9.0; gel strength ini./10 min. 1 / 13; 4% oil; 11% solids; trace of sand; salinity 3700 ppm; PV 17; Yp 7. Cum. mud costs: \$135,580. Brinkerhoff 0/111/0.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0577-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Conoco Federal 22

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 22, T9S, R20E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

**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  GAS WELL  OTHER

2. NAME OF OPERATOR

Continental Oil Company

3. ADDRESS OF OPERATOR

152 North Durbin, Casper, Wyo. 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

600' FWL, 810' FSL

14. PERMIT NO.

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

4833' GR, 4856' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

Well Progress

(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.)\*

Subsequent report dated 1-19-72 reported the well drilling ahead on 1-18-72. Drilled to 14,803' and ran DST No. 2 14,666-14,803', Frontier formation. 14,568' water cushion. Tool open at 7:50 a.m. 1-23-72 with strong blow. IF 15 min., ISI 85 min., FF 510 min., FSI 780 min., IHP 9700 psi, IFP 4950 psi, ISIP 9575 psi, FFP 3495 psi, FSIP 8100 psi, FHP 9700 psi. Gas to surface in 390 min. Final gauge 825 MCF extrapolated to a CAOF of 250 MCF.

Drilled ahead to 15,800' and ran DST No. 3 15,709-15,800', Dakota formation. 8700' water cushion and 2200 psi nitrogen blanket. Tool open at 9:43 a.m. 2-12-72 with a very slight blow at end of test. IF 9 min., ISI 81 min., FF 120 min., FSI 123 min., IHP 11,800 psi, IFP 6700 psi, ISIP 10,050 psi, FFP 4290 psi, FSIP 8700 psi, FHP 11,800 psi BHT 288° F. No fluid recovery. Sample chamber contained 2240 cc of drilling mud.

Drilled ahead to 16,978' on 3-14-72 and shut down for rig repairs. Drilling will continue as soon as repairs are completed.

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

SIGNED J. A. Abben

TITLE Administrative Supervisor

DATE 3-17-72

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD (Confidential)**

3-18: Present depth 16,978'. Out of hole. Waiting on spiral drill collars. 8½" hole. Pulled out of hole. Drill string all appears okay. Bit has no indication of hitting any ledges. Will inspect top 20 jts. drill pipe, lay down drill collars, and run spiral drill collars with stabilizers. Gel-Chem - Wt. 13.9#.

3-19: Drilling shale at 16,982'. (Prog. 4') 8½" hole. Resumed drilling at 4:45 a.m. 3-19-72. Gel-Chem - Wt. 13.9#.

3-20: Tripping in sand at 17,016'. (Prog. 34') 8½" hole. Bit #87 - HTC RG2BX - drilled from 16,978' to 17,016'. 17 6" spiral, 5 6½" slick, and 15 4½" hvy. wt. drill collars; WOB 55,000# 40 RPM; 5½" x 18" pump 52 SPM; 307 GPM; PP 2025#; ann. vel. 160; bottom hole assembly - bit - Grant 3-pt. reamer - 1 spiral drill collar - Drilco button stabilizer - 1 Drilco shock sub - 3 spiral drill collars - Drilco button stabilizer - 3 spiral drill collars - Drilco button stabilizer - 3 spiral drill collars - button stabilizer - 7 spiral drill collars - 5 6½" drill collars - jars (6 1/8" O.D.) - 15 jts. 4½" hvy. wt. Gel-Chem - Wt. 13.8 - Vis. 68; WL 9.2 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 3 / 7; trace of oil; 21% solids; 1.5% sand; 16% LCM; chlorides 1200 ppm; PV 45; Yp 16. Cum. mud costs: \$287,677. Brinkerhoff 0/205/0.

**Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD (Confidential)**

3-21: Tripping in sand at 17,058'. (Prog. 42') 8½" hole. Bit #88 - HTC RG2BX - drilled 17,016' to 17,058'. Drilling break 17,048-57'. Circ. bottoms up. Some slight gas. Drilled 1 more foot. Bit locked up. Mud holding steady. 17 6" spiral and 5 6½" slick drill collars and 15 jts. 4½" hvy. wt. drill pipe; WOB 55,000#; 40 RPM; 5½" x 18" pump; 52 SPM; 307 GPM; 2025 psi PP; ann. vel. 160; bottom hole assembly - same as 3-19-72. Gel-Chem - Wt. 13.7#; Vis. 69; WL 7.4 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 7 / 10; trace of oil; 22% solids; 1.5% sand; 15% LCM; chlorides 1200 ppm; PV 56; Yp 16. Cum. mud costs: \$289,015. Brinkerhoff 0/206/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential) -  
Madison - 21,400'**

3-22: Tripping in sand at 17,098'. (Prog. 40') 8½" hole. Bit #89 in hole. Drilling break 17,085' to 17,090'. Circ. samples ½ hr. 1250 units dry gas. Died off. 5 stands tight hole off bottom on trip. Appears stabilizers dragging. 17 6" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; 5½" x 18" pump; 52 SPM; 307 GPM; PP 2025 psi; ann. vel. 160; bottom hole assembly - same as 3-19-72. Gel-Chem - Wt. 13.8#; Vis. 60; WL 7.2 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 3 / 7; trace of oil; 22% solids; 1.5% sand; 12% LCM; salinity 1200 ppm; PV 38; Yp 10. Cum. Mud costs: \$290,945. Brinkerhoff 0/207/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential -  
Madison - 21,400'**

3-23: Drilling sand at 17,151'. (Prog. 53') 8½" hole. Bit #90 in hole. Background gas ranging from 1200 to 1500 units. All in drill gas from cuttings. 17 6¼" and 5 6½" slick drill collars, 15 jts. 4½" hvy. wt. drill pipe; WOB 40,000-50,000#; 40 RPM; 5½" x 18" pump; 58 SPM; 348 GPM; PP 1875 psi; ann. vel. 183; bottom hole assembly - bit - grant 3-pt. reamer - 1 spiral drill collar - Drilco button stabilizer - 1 Drilco shock sub - 3 spiral drill collars - Drilco button stabilizer - 3 spiral drill collars - Drilco button stabilizer - 3 spiral drill collars - button stabilizer - 7 spiral drill collars - 5 6½" drill collars - jars (6 1/8" O.D. - 15 jts. 4½" hvy. wt. drill pipe. Gel-Chem - Wt. 13.8#; Vis. 56; WL 6.4 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 9; trace of oil; 22% solids; 1% sand; 12% LCM; salinity 1000 ppm; PV 36; Yp 16. Cum. mud costs: \$292,650. Brinkerhoff 0/208/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'**

3-24: Trip out. Depth 17,178' - sand. (Prog. 27') 8½" hole. Bit #90 - Sec. H100 - drilled 17,098' to 17,178'. Drilled from 17,177' to 17,178' in 3 min. Lost complete returns. Pumped in 80 bbls. mud. Pulled 5 stands. Filled annulus with 18 bbls. mud. Mixed pill of LCM material. Spotted on bottom with no returns. Pulled 25 stands and mixed volume. Pulling out of hole. Annulus staying full. 17 6¼" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 50,000#; 40 RPM; 5½" x 18" pump; 58 SPM; 348 GPM; PP 1870 psi; ann. vel. 183; bottom hole assembly - same as on 3-23-72. Gel-Chem - Wt. 13.8#; Vis. 61; WL 6 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 9; trace of oil; 20% solids; 1% sand; 12% LCM; salinity 1000 ppm; PV 48; Yp 22. Cum. mud costs: \$295,906. Brinkerhoff 0/209/0.



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD (Confidential)**

3-11: Survey prior to trip out. Depth 16,913' - sand. (Prog. 37') 8½" hole. Bit #85 - Reed SC2G - drilled from 16,799' to 16,913'. Lost a total of 285 bbls. mud. Most of mud was lost while drilling between 16,851' and 16,876'. Approx. 30 bbls. of the 285 lost while drilling between 16,876' and 16,913'. Gel-Chem - Wt. 14#; 17% LCM.

3-12: Drilling sand at 16,943'. (Prog. 30') 8½" hole. Dev.: 3 deg. at 16,913'. Temp. 344° F. Lost approx. 50 bbls. mud during first 1½ hrs. of drilling with Bit #86. Hole healed. Not presently losing mud. Gel-Chem - Wt. 13.8#; 17% LCM.

3-13: Prep. to log. Depth 16,970' - sand. (Prog. 27') 8½" hole. Bit #86 - Reed SC2G - drilled 16,913' to 16,970'. 18 6½" and 15 4½" drill collars; WOB 50-60,000#; 40 RPM; 5½" x 18" pump 50 SPM; 295 GPM; PP 2300 psi; ann. vel. 153; jet vel. 210; bottom hole assembly - bit - junk sub - Grant 3-pt. reamer - one 6½" drill collar - Drilco shock sub - button stabilizer - 17 6½" drill collars - 15 4½" drill collars. No lost circ. problems. Gel-Chem - Wt. 13.8#; Vis. 72; WL 9.4 cc; FC 2/32; pH 9.4; gel strength ini./10 min. 3 / 8; 1% oil; 21% solids; 1.5% sand; 15% LCM; chlorides 800 ppm; PV 53; Yp 21. Cum. mud costs: \$284,126. Brinkerhoff 0/198/0.

**Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD (Confidential)**

3-14: Trip in with bit. Depth 16,978' (corrected) - shale. 8½" hole. Ran logging tool to 5000'. Cable failed to work. Obtained new truck. (Lost 3½ hrs.) Ran Sonde to logger T.D. 16,972'. 9 5/8" casing T.D. - 14,658'. Corrected driller T.D. 16,978'. Corrected 9 5/8" casing T.D. 14,658'. Schlumberger ran following logs: Nuclear Density - T.D. to 14,658'; Dual Induction - T.D. to 14,658'; BHC Sonic-GR - T.D. to 14,658'. Compensating device not working on Nuclear Density Log. Completed logging at 5 a.m. 3-14-72. Bit #87 in hole. 18 6½" and 15 4½" drill collars; bottom hole assembly - bit - junk sub - Grant 3-pt. reamer - one 6½" drill collar - Drilco shock sub - button stabilizer - 17 6½" drill collars - 15 4½" drill collars. Gel-Chem - Wt. 13.8#; Vis. 72. Cum. mud costs: \$284,126. Brinkerhoff 0/199/0.

**Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD (Confidential)**

3-15: Depth 16,978'. Circulating at 15,087'. Waiting on equipment for repairs. 8½" hole. Trip in. Broke circulation at 12,019'. Circulated for 1 hr. 30 min. Heavily gas cut mud. Mud leveled out. Started on in hole. At 15,087' one sheave on traveling block apparently sheared and allowed line to kick over. Cut line, dropped blocks, hook, and elevators approx. 85'. Driller kicked in air slips and caught drill pipe. 2' pipe above slips. Blocks, etc. fell to derrick floor, bending over drill pipe slightly. All equipment fell toward V-door. Hooked onto drill pipe. Began circulating at 15,087'. Broke circulation with 1500 psi at 35 SPM. Leveled out at 1250 psi at 35 SPM. Circ. bottoms up. Heavily gas cut mud for 2 hrs. Mud leveled out. Two men slightly hurt. Gel-Chem - Wt. 13.9#; Vis. 73; WL 9.2 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 3 / 7; 1% oil; 21% solids; 1½% sand; 20% LCM; chlorides 1000 ppm; PV 53; Yp 19. Cum. mud costs: \$284,841. Brinkerhoff 0/200/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

3-16; Circulating at 15,087'. Waiting on equipment for repairs. Present TD 16,978'. 8½" hole. New 650 ton traveling block scheduled to arrive in Vernal Friday morning. Estimate back to drilling on Monday 3-20-72. Extrapolation of BHT from logging tool 313° F. Inspected all sheaves in crown block and crown block (Ideco man). Everything measures okay. Gel-Chem - Wt. 13.8#; Vis. 75. Brinkerhoff 0/201/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

3-17; KB Elev. 4856', RBM 23'. Circ. at 15,087'. Waiting on equipment for repairs. TD 16,978'. 8½" hole. Waiting on new traveling blocks. New rotary table available in case current one damaged. Gel-Chem - Wt. 13.9#; Vis. 75; WL 9.2 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 8; 1% oil; 21% solids; 1% sand; 18% LCM; chlorides 1000 ppm; PV 50; Yp 18. Cum. mud costs: \$285,541. Brinkerhoff 0/202/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

3-4: Mixing mud and LCM. Depth 16,637' - sand. (Prog. 18') 8½" hole. Lost 300 bbls. mud at 16,637'. Mixed 50 bbls. with coarse mica and Chip Seal. Spotted on bottom. Continuing to mixing volume. Gel-Chem - Wt. 14.0#.

3-5: Drilling sand at 16,663'. (Prog. 26') 8½" hole. Lost total of 600 bbls. mud. Gel-Chem - Wt. 13.8#.

3-6: Tripping in sand at 16,695'. (Prog. 32') 8½" hole. 18 6½" and 15 4½" hvy. wt. drill collars; WOB 45,000#; 45 RPM; 5½" x 18" pump; 57 SPM; 345 GPM; PP 2350 psi; ann. vel. 160; jet vel. 270; bottom hole assembly - bit - 3 pt. knobby reamer - one 6½" drill collar - button stabilizer - shock sub - 17 6½" drill collars - 15 4½" hvy. wt. drill pipe. Gel-Chem - Wt. 13.8#; Vis. 62; WL 7 cc; FC 2/32; pH 9.8; gel strength ini./10 min. 5 / 7; 1.5% oil; 23% solids; 2% sand; 6% LCM; salinity 900 ppm; PV 50; Yp 17. Cum. mud costs: \$267,928. Brinkerhoff 0/191/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

3-7: Tripping in sand (Entrada) at 16,740'. (Prog. 45') 8½" hole. Bit #83 in hole. 18 6½" and 15 4½" drill collars; WOB 40,000-45,000#; 43 RPM; 5½" x 18" pump; 45 SPM; PP 1800 psi; bottom hole assembly - bit - 3 pt. knobby reamer - one 6½" drill collar - button stabilizer - shock sub - 17 6½" drill collars - 15 4½" hvy. wt. drill pipe. Lost approx. 30 bbls. mud after getting on bottom with Bit #83. Lost no mud while drilling with Bit #83. Gel-Chem - Wt. 13.9#; Vis. 74; WL 8.2 cc; FC 2/32; pH 9.6; gel strength ini./10 min. 7 / 13; 2% oil; 24% solids; 1½% sand; 6% LCM; salinity 1300 ppm; PV 74; Yp 40. Cum. mud costs: \$268,423. Brinkerhoff 0/192/0.

**Conoco #22-1 Federal - Conoco 1.0000000 - CONOILLTD (Confidential)**

3-8: Drilling sand at 16,773'. (Prog. 33') 8½" hole. Bit #84 in hole. Lost approx. 60 bbls. mud on trip for Bit #84. Not losing mud while drilling. 18 6½" drill collars and 15 jts. 4½" hvy. wt. drill pipe; 5½" x 18" pump; 56 SPM; 340 GPM; PP 1980 psi; ann. vel.; bottom hole assembly - bit - 3 pt. knobby reamer - one 6½" drill collar - button stabilizer - shock - 17 6½" drill collars - 15 jts. 4½" hvy. wt. drill pipe. Gel-Chem - Wt. 14.0#; Vis. 68; WL 7.8 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 5 / 9; 2% oil; 24% solids; 1 3/4% sand; 6% LCM; salinity 1000 ppm; PV 53; Yp 22. Cum. mud costs: \$270,353. Brinkerhoff 0/193/0.

Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD (Confidential)

3-9: Circulating bottoms up. Prep. to drill. Depth 16,799' - hard sand. (Prog. 26') 8½" hole. Bit #84 - HTC J-88 - drilled from 16,740' to 16,799'. Bit #85 in hole. 18 6½" and 15 4½" drill collars; WOB 50,000#; 45 RPM; 5½" x 18" pump; 56 SPM; 340 GPM; PP 2000 psi; ann. vel. 160. No loss of mud on trip. Magnafluxed drill collars. Found all collars okay. Gel-Chem - Wt. 14.0#; Vis. 67; WL 9.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 3 / 10; 1% oil; 20% solids; 2% sand; 5% LCM; salinity 1000 ppm; PV 55; Yp 23. Cum. mud costs: \$273,129. Brinkerhoff 0/194/0.

Conoco #22-1 Federal - Conoco 1.000000 - CONOILLTD (Confidential)

3-10: Mixing mud and LCM. Depth 16,876' - Navajo. (Prog. 77') 8½" hole. Bit #85 in hole. Started losing mud slowly at 16,851'. Lost approx. 100 bbls. Mixed LCM. Spotted on bottom. Appears to have healed up. Will pull 3 stands and mix volume before drilling ahead. 18 6½" and 15 4½" drill collars; WOB 50,000-55,000#; 45 SPM; 5½" x 18" pump; 56 SPM; 340 GPM; PP 2150 psi; ann. vel. 160; bottom hole assembly - bit - junk sub - Grant 3-pt. reamer - one 6½" drill collar - Drilco shock sub - button stabilizer - 17 6½" drill collars - 15 4½" drill collars. Gel-Chem - Wt. 13.6#; Vis. 84; WL 8.0 cc; FC 2/32; pH 9.6; gel strength ini./10 min. 7 / 9; 2% oil; 21% solids; 1.5% sand; 5% LCM; salinity 900 ppm; PV 64; Yp 30. Cum. mud costs: \$274,326. Brinkerhoff 0/195/0.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0577-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Conoco Federal 22

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 22, T9S, R20E

12. COUNTY OR PARISH 13. STATE

Uintah

Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Continental Oil Company

3. ADDRESS OF OPERATOR

152 North Durbin St., Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

600' FWL, 810' FSL

14. PERMIT NO.

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

4833' GR, 4856' KB

16. 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   
ABANDONMENT\*

Well Progress

(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.)\*

Subsequent report of 3-17-72 reported well at 15,978, preparing to drill ahead. Drilled 8 1/2" hole to 17,556, Navajo formation, circulated and conditioned hole to run logs. Ran Gamma Ray, Sonic Caliper, Compressional Amplitude, Dual Induction Laterolog, and Density logs. Drilled to 20,053', started out of hole and pipe stuck at 20,011. Ran Dialog Combination free-point and backoff shot to 20,053'. Found drill collars stuck at 19,374, reran backoff shot and backed off at 19,361', left 650.08' fish in the hole. Ran washover pipe and attempting to recover fish. Present plans are to drill ahead to projected depth after recovery of fish.

USGS Salt Lake(4) UOGCC(2) File(2)

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

SIGNED

*J. A. Ubben*

TITLE Administrative Supervisor

DATE 6/7/72

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

June 2, 1972

State of Utah  
Division of Oil & Gas Conservation  
1588 W. N. Temple  
Salt Lake City, Utah 84116

Attn: Mr. Cleon B. Feight

Gentlemen:

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal (Expl.) - Conoco 1.0000000 - CONOILLTD (Confidential)  
Madison - 21,400'

5-27: Drilling sand and limestone at 19,372' (prog. 84'). 8 1/2" hole. Background gas 1200-3170 units, 30 to 74% methane. Bit #118, HTC J-55 from 19,206' to 19,372'. 17 6 1/4" drill collars. WOB 35,000-45,000#; 5 6 1/2" drill collars; 15 4 1/2" drill collars. RPM 43; pump size 5 1/2" x 18"; SPM 54; GPM 320; PP 2050#; Ann. Vel. 165; Jet Vel. 230; bottom hole assembly: bit - 3-pt. reamer - spiral drill collars - stabilizer - shock sub - 16 spiral drill collars - 5 6 1/2" drill collars - daily jars - 15 jts. hvy wt. drill pipe. Gel Chem. Wt. 13.0#; Vis. 58; W.L. 5.5; F.C. 2/32; pH 10.4; Gel Strength Ini./10 min. 4 / 7; % solids 20; % sand 3/4 of 1; salinity 1500; PV 38; Yp 15. Cum. mud costs \$472,931. Brinkerhoff 0/273/0.

5-28: Tripping in limestone at 19,436' (prog. 64'). 8 1/2" hole. 1800 to 3900 units background gas, 50-60% methane. 19,410-19,430' drilling break - no increase in gas. Bit #118 HTC J-55 from 19,206' to 19,436'. 17 6 1/4" Spiral drill collars; ~~5 6 1/2"~~ drill collars; 15 4 1/2" drill collars. WOB 45,000, RPM ++; pump size 5 1/2" x 18", SPM 54; GPM 320; PP 2050#; Ann. Vel. 165; Jet Vel. 230; bottom hole assembly - same as 5-27-72. Gel Chem. Wt. 13.0#; Vis. 61; W.L. 5.2; F.C. 2/32; pH 10.3; Gel Strength Ini./10 min. 5 / 9; % solids 19; % sand 3/4 of 1; salinity 1500; PV 41; Yp 14. Cum. mud costs \$474,010. Brinkerhoff 0/274/0.

5-29: Drilling limestone and dolomite at 19,490' (prog. 54'). 8 1/2" hole. 1800 units background gas, 40% methane. Drilling break - 19,464-19,476'. Bit #118 HTC J-55 from 19,206' to 19,436'. 17 6 1/4" Spiral drill collars; 5 6 1/2"; and 15 4 1/2". WOB 40,000-45,000#; RPM 43; pump size 5 1/2" x 18"; SPM 54; GPM 320; PP 2050#; Ann. Vel. 165; Jet Vel. 230; bottom hole assembly - same as 5-28-72. Gel Chem. Wt. 13.0#; Vis. 70; W.L. 6.3; F.C. 2/32; pH 10.4; Gel Strength Ini./10 min. 5 / 9; % solids 21; % sand 1/4 of 1; salinity 1400; PV 44; Yp 20. Cum. mud costs \$476,560. Brinkerhoff 0/275/0.

Conoco #22-1 Federal - Cont'd.

5-30: Drilling limestone and dolomite at 19,622' (prog. 132'). 8 1/2" hole. 3600 units background gas, 66% methane. Bit #119 HTC J-55 from 19,436' to 19,622'. 17 6 1/4" Spiral drill collars; 5 6 1/2"; 15 4 1/2"; WOB 35,000-40,000#; Rpm 43; pump size 5 1/2" x 18"; SPM 54; GPM 320; PP 2050#; Ann. Vel. 165; Jet Vel. 230; bottom hole assembly - same as 5-29-72. Gel Chem. Wt. 13.0#; Vis. 55; W.L. 4.0; F.C. 2/32; pH 10.7; Gel Strength Ini./10 min. 4 / 6; % solids 18; % sand 1/4 of 1; salinity 1400; PV 38; Yp 10. Cum. mud costs 478,630. Brinkerhoff 0/276/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) - Conoco 1.0000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

6-3: Preparing to spot pipe-lax pill at 20,053' limestone (prog. 115'). 8 1/2" hole. Pulled up to make connection at 20,011', found 6' fill. Drilled to 20,053'. Bit locked. Started out of hole. Pipe stuck at 20,011'. Worked pipe for 5 hrs. while obtaining vertifrac fluid and mixing with pipe-lax to spot across bit and drill collars. Bit #120 HTC J-55 from 19,972' to 20,053'. WOB 30,000#-35,000#; RPM 43; pump size 5 1/2" x 18"; SPM 54; GPM 320; PP 2050#; Ann. Vel. 165; Jet Vel. 230; bottom hole assembly - bit - 3-pt. reamer, Spiral drill collars, stabilizer, shock sub, 16 Spiral drill collars, 5 6 1/2" drill collars, daily jars, and 15 jts. hvy wt. drill pipe. Gel Chem. Wt. 13.2#; Vis. 63; W.L. 5.5; F.C. 2/32; pH 10.4; Gel Strength Ini./10 min. 3 / 10; % oil 0; % solids 21; % sand 1; % LCM 0; salinity 1700; PV 45; Yp 22. Cum. mud costs \$486,703. Brinkerhoff 0/280/0.

6-4: Working stuck pipe at 20,053'. 8 1/2" hole. Mixed 60 bbl. vertifrac mud with 1 1/2 gal./bbl. pipe-lax, 12.7#/gal. pumped in hole, 20 bbl. around drill collar, and 40 bbl. in pipe - 1 bbl. every 30 min., working pipe. Jarred up to 485,000# - bumping down to 350,000#. Finished pumping last amount at 7 a.m. and working pipe. Bit #120 HTC J-55 from 19,972' to 20,053'. WOB 30,000-35,000#; RPM 43; pump size 5 1/2" x 18"; SPM 54; GPM 320; PP 2050#; Ann. Vel. 165; Jet Vel. 230; bottom hole assembly - same as on 6-3-72. Gel Chem. Wt. 13.2#; Vis. 63; Cum. mud costs \$488,713. Brinkerhoff 0/281/0.

6-5: Running Dialog comb. free pt. and backoff shot to TD 20,053'. Worked pipe with vertifrac and pipe-lax. Circulated out pipe-lax and conditioned mud. Spotted 1000 gal. 15% inhibited mud acid around drill collar with 10 bbl. water preceding and following acid. Worked pipe 4 hrs., jarring up to 500,000# and pumping down to 325,000#. Circulated out acid and conditioned mud while waiting on Dialog to rig up comb. free pt. and back off equip. WOB 30,000-35,000#; RPM 43; string wt. 415,000#; bottom hole assembly - same as on 6-4-72. Gel Chem. Wt. 13.2#; Vis. 83; W.L. 4.8; F.C. 2/32; pH 10.8; Gel Strength Ini./10 min. 6 / 14; % oil 0; % solids 20; % sand 1/2 of 1; % LCM 0; salinity 2600; PV 45; Yp 37. Cum. mud costs \$488,805. Brinkerhoff 0/282/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.0000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

6-6: Running in hole with washover pipe. Depth 20,053'. 8 1/2" hole. Top of fish 19,361'. Ran Dialog combination back-off and free point. Found drill collars stuck at 19,374'. Attempted to back off at 19,361'. Unscrewed in body of Dailey jars. Torqued string back up. Reran back-off shot and backed off at 19,361'. Chained out and recovered Dailey jars and one 6 1/2" slick drill collar. Picked up 6 jts. 7 5/8" washover pipe with 7 3/4" tungsten carbide shoe, Johnston hydraulic jars, safety jt. and six 6 1/2" drill collars. Lebus back-off spear loaded in bottom jt. of washover pipe. Fish: HTC bit, Grant knobby 3-pt. reamer, Drilco shock sub, Drilco stabilizer, 17 jts. 6 1/2" spiral drill collars, and 4 jts. 6 1/2" slick drill collars. Total fish 650.08'. Gel-Chem - Wt. 13.2#; Vis. 80; WL 4.8 cc; FC 2/32; pH 10.8; gel strength ini./10 min. 6 / 14; 20% solids; 1/2 of 1% sand; salinity 2600 ppm; PV 45; Yp 37. Cum. mud costs: \$488,805. Brinkerhoff 0/283/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)

Madison - 21,400'

6-7:

Pulling fishing string. Depth 20,053'. Ran in hole with 7 5/8" washover pipe and Lebus spear. Went over top of fish at 19,361'. Washed to 19,389'. Screwed Lebus spear into top of fish. Washed over to 19,545'. Some fill from 19,406' to 19,414'. Washed down full length of washover pipe with very little torque or fill. Rotated and circulated over fish for 1 hr. Jarred on fish twice with maximum of 50,000# above string weight. After second jar, could not rotate over or work wash pipe. Attempted to free wash pipe for 2 hrs. without success. Ran free pt. to determine if wash pipe stuck or if Lebus tool pulled off in wash pipe. Wash pipe appears stuck. Backed off safety jt. in top sub of wash pipe. Pulling out of hole. Leaving 7 5/8" wash pipe looking up and 4 1/2" box end hooked onto drill collars looking up inside drill collars. Top of fish at 19,361'. Gel-Chem - Wt. 13.1#; Vis. 63; WL 3.3 cc; FC 2/32; pH 14.2; gel strength ini./10 min. 2 / 10; 19% solids; 1/2 of 1% sand; salinity 2800 ppm; PV 40; Yp 21. Cum. mud costs: \$489,819. Brinkerhoff 0/284/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)

Madison - 21,400'

6-8:

Trip in with bumper subs to screw into fish. Depth 20,053'. 8 1/2" hole. Pulled out of hole with top sub of 7 5/8" washover pipe. Picked up Bowen bumper sub. Ran in hole to 14,600'. Cut drilling line. Circ. 30 min. Ran to top of fish at 19,361'. Circ. out gas. Screwed into top of Lebus spear. Worked tool and released unlatching sub on Lebus spear. Trip out. Recovered Lebus spear. Picked up second bumper sub. Will screw into drill collars. Top of fish 19,361'. Gel-Chem - Wt. 13.1#; Vis. 66; WL 4.0 cc; FC 2/32; pH 10.4; gel strength ini./10 min. 2 / 12; 19% solids; 1/2 of 1% sand; salinity 3300 ppm; PV 43; Yp 30. Bottom hole assembly - Bowen bumper sub - Johnston jars - six 6 1/4" spiral drill collars - 15 jts. 4 1/2" drill pipe. Cum. mud costs: \$490,269. Brinkerhoff 0/285/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)

Madison - 21,400'

6-9:

Chaining out with fish. Depth 20,053'. 8 1/2" hole. Ran in hole with Lebus latch-on sub to 14,600'. Circ. 1 hr. Installed diaphragm rubber in low clutch. Ran onto top of fish at 19,361'. Circ. out gas for 2 hrs. Latched onto fish at 19,361'. Circ. thru fish with 2500# (500# above normal pressure). Rigged up and ran Dia-Log free-point indicator. Found pipe free at 19,550', tight at 19,560'. Ran back-off shot and backed off at 19,546'. Chaining out with 4 slick and 2 spiral drill collars. Had considerable difficulty obtaining enough torque at drill collars to back off in fish. (Backed off fishing string twice and screwed back together before backing off at proper point.) 6 6 1/4" drill collars; 15 jts. 4 1/2" hvy. wt. pipe; bottom hole assembly - Lebus latch-on sub - 2 sets Bowen bumper subs - Johnston hydraulic jars - 6 6 1/4" spiral drill collars - 15 jts. 4 1/2" hvy. wt. pipe. Gel-Chem - Wt. 13.1#; Vis. 57; WL 5.2 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 2 / 10; 19% solids; 1/2 of 1% sand; salinity 3500 ppm; PV 33; Yp 18. Cum. mud costs: \$490,269. Brinkerhoff 0/286/0.

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal (Expl.) - Conoco 1.0000000 - CONOILLTD (Confidential)  
Madison - 21,400'

Tripping in limestone and chert at 19,792' (prog. 42'). 8 1/2" hole. Made trip. Magnafluxed all drill collars. Okay. Broke circulation at 14,600' on trip in. Hole in excellent shape. Bit #119 HTC J-55 from 19,436' to 19,792'. Bit #120 HTC J-55 from 19,792'. 17 6 1/4" Spiral drill collars; 5 6 1/2", and 15 4 1/2". WOB 40,000; RPM 43; pump size 5 1/2" x 18"; SPM 54; GPM 320; PP 2050#; Ann. Vel. 165; Jet Vel. 230; bottom hole assembly - bit, 3-pt. reamer, Spiral drill collars, stabilizer, shock sub, 16 Spiral drill collars, 5 6 1/2" drill collars, daily jars, and 15 jts. hvy wt. drill pipe. Dev. 3 1/2 deg. at 19,790'. Gel Chem. Wt. 13.0#; Vis. 57; W.L. 4.6; F.C. 2/32; pH 10.8; Gel Strength Ini./10 min. 4 / 6; % oil 0; % solids 19; % sand 1/4 of 1; % LCM 0; salinity 1200; PV 33; Yp 16. Cum. mud costs \$481,806. Brinkerhoff 0/278/0.

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal (Expl.) - Conoco 1.0000000 - CONOILLTD (Confidential)  
Madison - 21,400'

Drilling gray limestone at 19,938' (prog. 146'). 8 1/2" hole. Drilling break at 19,870-19,890'. 3300 units background gas, 70% methane. 4 1/2 units, trace methane. Bit #120 HTC J-55 from 19,792' to 19,938'. 17 6 1/4" Spiral drill collars; 5 6 1/2"; 15 4 1/2". WOB 30,000-35,000#; RPM 43; pump size 5 1/2" x 18"; SPM 54; GPM 320; PP 2050#; Ann. Vel. 165; Jet Vel. 230; bottom hole assembly - bit - 3-pt. reamer, Spiral drill collars, stabilizer, shock sub, 16 Spiral drill collars, 5 6 1/2" drill collars, daily jars, and 15 jts. hvy wt. drill pipe. Gel Chem. Wt. 13.0#; Vis. 48; W.L. 4.6; F.C. 2/32; pH 10.6; Gel Strength Ini./10 min. 3 / 6; % oil 0; % solids 19; % sand 1/4 of 1; % LCM 0; salinity 1200; PV 29; Yp 11. Cum. mud costs \$481,806. Brinkerhoff 0/279/0.

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal (Expl.) - Conoco 1.0000000 - CONOILLTD (Confidential)  
Madison - 21,400'

Drilling limestone and streaks of chert at 19,750' (prog. 128'). 8 1/2" hole. Background gas - 1200 units, 30% methane. Bit #119 HTC J-55 from 19,436' to 19,750'. 17 6 1/4" Spiral drill collars; 5 6 1/2", and 15 4 1/2". WOB 35,000-45,000#; RPM 43; pump size 5 1/2" x 18"; SPM 54; GPM 320; PP 2050#; Ann. Vel. 165; Jet Vel. 230; bottom hole assembly - bit, 3-pt. reamer, Spiral drill collars, stabilizer, shock sub, 16 Spiral drill collars, 5 6 1/2" drill collars, daily jars, and 15 jts. hvy wt. drill pipe. Gel Chem. Wt. 13.1#; Vis. 70; W.L. 4.6; F.C. 2/32; pH 10.8; Gel Strength Ini./10 min. 7 / 13; % oil 0; % solids 19; % sand 1/4 of 1; % LCM 0; salinity 1250; PV 40; Yp 23. Cum. mud costs \$480,621. Brinkerhoff 0/277/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

5-20: Trip in with Bit #116. Depth 19,069' - sand and lime. (Prog. 50')  
8½" hole. Bit #115 - HTC RG7X - 18,993-19,069'. Drilling break 19,046-19,069'.  
No shows. Gas running 1080 to 2200 units. Gel-Chem - Wt. 13.1#.

5-21: Drilling limestone at 19,087'. (Prog. 18') 8½" hole. Gel-Chem - Wt.  
13.1#.

5-22: Drilling dolomite, lime, shale and chert at 19,139'. (Prog. 52') 8½"  
hole. 17 6¼" spiral and 6 6½" slick drill collars; 15 jts. 4½" hvy. wt.  
drill pipe; WOB 35,000-50,000#; 44 RPM; 5½" x 18" pump; 56 SPM; 330 GPM; PP  
2000 psi; ann. vel. 156; jet vel. 260; bottom hole assembly - bit - 3 pt. reamer -  
spiral drill collar - stabilizer - shock sub - 16 spiral drill collars - 5 6½"  
drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Background gas  
1000-2400 units. Gel-Chem - Wt. 13.1#; Vis. 59; WL 7.2 cc; FC 2/32; pH 10.3;  
gel strength ini./10 min. 4 / 8; 20% solids; ½ of 1% sand; salinity 1200 ppm;  
PV 13; Yp 15. Cum. mud costs: \$465,641. Brinkerhoff 0/268/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

5-23:

Tripping in shale, lime, and siltstone at 19,151'. (Prog. 12') 8½" hole.  
Bit #116 - HTC J88 - 19,069' to 19,151'. 17 6¼" spiral and 5 6½" slick  
drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 50,000#; 44 RPM; 5½" x 18"  
pump; 56 SPM; 330 GPM; PP 2000 psi; ann. vel. 160; jet vel. 260. Gel-Chem - Wt.  
13.0#; Vis. 62; WL 7.6 cc; FC 2/32; pH 10.6; gel strength ini./10 min. 4 / 8;  
19% solids; ½ of 1% sand; salinity 1200 ppm; PV 48; Yp 22. Cum. mud costs:  
\$466,819. Brinkerhoff 0/269/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

5-24:

Drilling in black shale, chert and sandstone at 19,199' (Prog. 48'). 8 1/2"  
hole. Background gas - 840-2460 units, 25-65% methane. Bit #117 Sm. 6JS  
from 19,151' to 19,199'. 17 6¼" drill collars; 5 6½"; 15 4½"; WOB 45,000#;  
RPM 44; pump size 5½" x 18"; SPM 54; GPM 320; PP 1875; Ann. Vel. 165; Jet Vel.  
230; bottom hole assembly - bit - 3-pt. reamer - spiral drill collars - stabilizer -  
shock sub - 16 spiral drill collars - 5 6½" drill collars - daily jars - 15 jts.  
hvy wt. drill pipe. Gel-Chem. Wt. 13.1#; Vis. 55; W.L. 7.2; F.C. 2/32; pH 10.4;  
Gel Strength Ini./10 min. 3 / 6; % solids 20; % sand 3/4 of 1; Salinity 1100;  
PV 34; Yp 12. Cum. mud costs: \$467,461. Brinkerhoff 0/270/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**

**Madison - 21,400'**

**5-25:**

Drilling in black shale at 19,211' (prog. 12'). 8 1/2" hole. 1220 units back-ground gas, 34% methane. Bit #117 Sm. 6JS from 19,151' to 19,206'. Bit #118 HTC J-55 from 19,206' to 19,211'. Drill collars: 17 6 1/4"; 5 6 1/2"; 15 4 1/2". WOB 40,000; RPM 35; pump size 6" x 18"; SPM 48; GPM 335; PP 2100; ann. vel. 175; jet vel. 240. Bottom hole assembly: bit - 3-pt. reamer - spiral drill collars - stabilizer - shock sub - 16 spiral drill collars - 5 6 1/2" drill collars - daily jars - 15 jts. hvy wt. drill pipe. Gel-Chem - Wt. 13.0; Vis. 59; W.L. 6.5; F.C. 2/32; pH 10.5; gel strength ini./10 min. 3 / 6; % oil 0; % solids 19; % sand 3/4 of 1; salinity 1300; PV 37; Yp 14. Cum. mud costs \$468,430. Brinkerhoff 0/271/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**

**Madison - 21,400'**

**5-26:**

Drilling limestone at 19,288'. (Prog. 77') 8 1/2" hole. Bit #118 in hole. 17 6 1/4" spiral and 5 6 1/2" slick drill collars; 15 jts. 4 1/2" hvy. wt. drill pipe; WOB 40,000#; 44 RPM; 5 1/2" x 18" pump; 54 SPM; 320 GPM; PP 2050 psi; ann. vel. 165; jet vel. 230; bottom hole assembly - bit - 3 pt. reamer - spiral drill collars - stabilizer - shock sub - 16 spiral drill collars - 5 6 1/2" drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Background gas - 1800 to 3180 units, 40 to 70% methane. Gel-Chem - Wt. 13.1#; Vis. 52; WL 5.1 cc; FC 2/32; pH 10.1; gel strength ini./10 min. 2 / 5; 20% solids; 3/4 of 1% sand; salinity 1300 ppm; PV 29; Yp 9. Cum. mud costs: \$470,085. Brinkerhoff 0/272/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

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**Madison - 21,400'**

5-13: Drilling shale at 18,707'. (Prog. 27') 8½" hole. Bit #111 - Smith 7JS drilled 18,587' to 18,700'. Bit #112 in hole. Background gas - 18 units - 46% methane. Gel-Chem - Wt. 13.0#.

5-14: Drilling sand and shale at 18,794'. (Prog. 87') 8½" hole. Bit #12 - HTC RG1X - 18,700-18,794'. Gel-Chem - Wt. 12.7#.

5-15: Drilling sand at 18,824'. (Prog. 30') 8½" hole. Bit #13 in hole. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 46,000#; 44 RPM; 5½" x 18" pump; 59 SPM; 347 GPM; PP 1850 psi; ann. vel. 164; jet vel. 230; bottom hole assembly - bit - 3 pt. reamer - spiral drill collars - stabilizer - shock sub - 16 spiral drill collars - 5 6½" drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 12.8#; Vis. 60; WL 6.2 cc; FC 2/32; pH 10.2#; gel strength ini./10 min. 4 / 8; 20% solids; 1/2 of 1% sand; trace of LCM; salinity 1000 ppm; PV 33; YP 15. Cum. mud costs: \$452,558. Brinkerhoff 0/261/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

5-16:

Tripping in sand at 18,873'. (Prog. 49') 8½" hole. Bit #113 - Sec. H-88 - 18,794-18,873'. Bit #114 in hole. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 45,000#; 40 RPM; 5½" x 18" pump; 59 SPM; 347 GPM; PP 1750 psi; ann. vel. 164; jet vel. 203; bottom hole assembly - bit - 3-pt. reamer - spiral drill collars - stabilizer - shock sub - 16 spiral drill collars - 5 6½" drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 12.9#; Vis. 55; WL 6.4 cc; FC 2/32; pH 10.1; gel strength ini./10 min. 4 / 7; 19% solids; ½ of 1% sand; trace of LCM; salinity 400 ppm; Ca 120; PV 33; Yp 12. Cum. mud costs: \$455,827. Brinkerhoff 0/262/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

5-17:

Drilling sand and shale at 18,952'. (Prog. 79') 8½" hole. Bit #114 in hole. Drilling break - 18,921-18,935'. 2400 units gas - 75 to 85% methane. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe. WOB 45,000#; 44 RPM; 5½" x 18" pump; 59 SPM; 347 GPM; PP 1900 psi; ann. vel. 164; jet vel. 203; bottom hole assembly - bit - 3-pt. reamer - spiral drill collar - stabilizer - shock sub - 16 spiral drill collars - 5 6½" drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 12.9#; Vis. 52; WL 7.8 cc; FC 2/32; pH 10.1; gel strength ini./10 min. 4 / 7; 18% solids; ½ of 1% sand; trace of LCM; salinity 800 ppm; PV 32; Yp 16. Cum. mud costs: \$456,469. Brinkerhoff 0/263/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**

**Madison - 21,400'**

**5-18:**

Tripping at 18,993'. (Prog. 41') - 8 1/2" hole. Started out on trip, hole would not take enough mud. Tripped back to bottom. Raised mud wt. .2#/gal. to 13.1. Circulated hole. Bit #114 - HTC - 18,873-18,993'. Drill Collars: 17 6 1/4", 5 6 1/2", 15 4 1/2". WOB 38,000-45,000#; RPM 40; Pump Size 5 1/2" x 18"; SPM 54; GPM 318; PP 1850#; Ann. Vel. 150; Jet Vel. 228; Bottom Hole Assembly - bit - 3-pt. reamer - spiral drill collar - stabilizer - shock sub - 16 spiral drill collars. Type mud: Gel Chem; Wt. 13.1#; Vis. 55; W.L. 7.8; F.C. 2/32; pH 10.3; Gel Strength Ini./10 min. 4 / 8; % Solids 18; % Sand 1/2 of 1; % LCM Tr.; Salinity 800; PV 28; Yp 19. Cum. mud costs: \$460,280. Brinkerhoff 0/264/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**

**Madison - 21,400'**

**5-19:**

Drilling sand at 19,019'. (Prog. 26') 8 1/2" hole. Tested BOP, hydril and manifold with 3000 psi for 15 min. each. Okay. On trip in with Bit #115, circ. at 14,660' and had back flow thru drill pipe. Mixed pill, killing back flow. Went on to bottom. Now drilling. Bit #115 - HTC RG7X - 18,993-19,019'. 17 6 1/2" spiral and 5 6 1/2" slick drill collars; 15 jts. 4 1/2" hvy. wt. drill pipe; WOB 45,000#; 44 RPM; 5 1/2" x 18" pump; 56 SPM; 330 GPM; PP 2000 psi; ann. vel. 156; jet vel. 260; bottom hole assembly - bit - 3 pt. reamer - spiral drill collar - stabilizer - shock sub - 16 spiral drill collars - 5 6 1/2" drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Dev.: 3 deg. at 18,993'. Gel-Chem - Wt. 13.1#; Vis. 55; WL 7.6 cc; FC 2/32; pH 10.1; gel strength ini./10 min. 3 / 6; 19% solids; 1/2 of 1% sand; trace of LCM; salinity 1000 ppm; PV 25; Yp 10. Cum. mud costs: \$461,739. Brinkerhoff 0/265/0.



W. C. Blackburn  
Division Manager  
Production Department

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152 North Durbin  
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Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
Madison - 21,400'

5-6: Trip out with Bit #107. Depth 18,428' - sand (Weber). (Prog. 32')  
8½" hole. Bit #107 - Reed SC2G - drilled 18,396' to 18,428'. Gel-Chem -  
Wt. 13.0#

5-7: Drilling sand and pyrite at 18,465'. (Prog. 37') 8½" hole. Gel-Chem -  
Wt. 13#.

5-8: Drilling sand at 18,487'. (Prog. 22') 8½" hole. Bit #108 - Sec. H-100  
drilled from 18,428' to 18,482'. Bit #109 in hole. 15 6¼" spiral and 5 6½"  
slick drill collars; 15 jts. hvy. wt. (4½") drill pipe; pump size - 5½" x 18"  
pump; 54 SPM; 325 GPM; PP 2150 psi; ann. vel. 146; jet vel. 178; bottom hole  
assembly - bit - 3 pt. knobby reamer - one 6¼" spiral drill collars - stabilizer -  
shock sub - 14 6¼" spiral and 5 6½" slick drill collars - daily jars; 15 jts.  
4½" drill pipe. Magnafluxed all drill collars, miscellaneous tools, kelly  
pin, and subs. Laid down two drill collars (cracked boxes) and changed out  
shock sub. Gel-Chem - Wt. 12.9#; Vis. 67; WL 4.0 cc; FC 2/32; pH 9.8; gel  
strength ini./10 min. 8 / 11; 18% solids; trace of sand; salinity 1650 ppm;  
PV 34; Yp 33. Cum. mud costs: \$440,441. Brinkerhoff 0/254/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
Madison - 21,400'

5-9:

Drilling sand - quartzitic with considerable pyrite at 18,510'. (Prog. 23')  
8½" hole. Bit #109 - out of gauge 3/4". Changed out 3 pt. button reamer.  
Tripped in with Bit #110. Reamed 10' of out of gauge hole. Bit #109 - Sec.  
H-100 - drilled from 18,482' to 18,509'. Bit #110 in hole. 15 6¼" spiral  
and 5 6½" slick drill collars; 15 jts. hvy. wt. (4½") drill pipe; WOB 40,000#;  
35 RPM; 5½" x 18" pump; 54 SPM; 325 GPM; PP 2150 psi; ann. vel. 146; jet vel.  
178; bottom hole assembly - bit - 3 pt. knobby reamer - one 6¼" spiral drill  
collars - stabilizer - shock sub - 14 6¼" spiral and 5 6½" slick drill collars -  
daily jars - 15 jts. 4½" drill pipe. Gel-Chem - Wt. 12.9#; Vis. 56; WL 4.0 cc;  
FC 2/32; gel strength ini./10 min. 3 / 7; 19% solids; 1/4 of 1% sand; 12% LCM;  
salinity 1000 ppm; PV 26; Yp 16. Cum. mud costs: \$441,674. Brinkerhoff 0/255/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**

**Madison - 21,400'**

**5-10:**

Drilling sand, quartzite and pyrite at 18,567'. (Prog. 57') 8½" hole. Bit #110 in hole. 15 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 50,000#; 44 RPM; 6" x 18" pump; 50 SPM; 352 GPM; PP 2000#; ann. vel. 166; jet vel. 192; bottom hole assembly - bit - 3 pt. knobby reamer - one 6½" spiral drill collar - stabilizer - shock sub - 14 6½" spiral and 5 6½" slick drill collars - daily jars - 15 jts. 4½" drill pipe. Drilling break at 18,557'. Samples show larger grains. Gel-Chem - Wt. 12.8#; Vis. 55; WL 4.2 cc; FC 2/32; pH 9.8; gel strength ini./10 min. 4 / 8; 19% solids; 3/4 of 1% sand; 4% LCM; cal. 50; salinity 800 ppm; PV 26; Yp 18. Brinkerhoff 0/256/0.

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**Madison - 21,400'**

**5-11:**

Drilling sand - quartzitic - with some lime at 18,597'. (Prog. 30') 8½" hole. Bit #110 - HTC RG2BX - 18,509' to 18,587'. Bit #111 in hole. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 48,000#; 43 RPM; 5½" x 18" pump; 56 SPM; 345 GPM; PP 1700 psi; ann. vel. 175; jet vel. 188; bottom hole assembly - bit - 3-pt. reamer - spiral drill collars - stabilizer - shock sub - 16 spiral drill collars - 5 6½" drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 12.8#; Vis. 56; WL 4.8 cc; FC 2/32; pH 10.2; gel strength ini./10 min. 3 / 7; 19% solids; 1/4 of 1% sand; 2% LCM; salinity 900 ppm; PV 27; Yp 16. Cum. mud costs: \$445,490. Brinkerhoff 0/257/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**

**Madison - 21,400'**

**5-12:**

Drilling sand at 18,680'. (Prog. 83') 8½" hole. Bit #111 in hole. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 45,000#; 45 RPM; 6" x 18" pump; 46 SPM; 323 GPM; PP 1910 psi; ann. vel. 152; jet vel. 176; bottom hole assembly - bit - 3-pt. reamer - spiral drill collars - stabilizer - shock sub - 16 spiral drill collars - 5 6½" drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Drilling break from 18,643' to 18,655'. No shows. Gel-Chem - Wt. 13.0#; Vis. 53; WL 4.4 cc; FC 2/32; pH 9.6; gel strength ini./10 min. 3 / 9; 19% solids; ¼ of 1% sand; 2% LCM; chlorides 1000 ppm; PV 30; Yp 18. Cum. mud costs: \$450,518. Brinkerhoff 0/258/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

4-29: Drilling shale and siltstone at 18,207'. (Prog. 81') 8½" hole.  
Bit #104 in hole. Gel-Chem - Wt. 13.1#.

4-30: Drilling shale and siltstone at 18,270. (Prog. 63') 8½" hole.  
Bit #104 in hole. Gel-Chem - Wt. 13.0#.

5-1: Tripping in shale and siltstone at 18,282'. (Prog. 12') 8½" hole.  
Bit #104 - Christ. MD37 - drilled from 17,850' to 18,282'. Bit #105 in hole.  
16 6¼" spiral drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 25,000-  
30,000#; 68 RPM; 5½" x 18" pump; 48 SPM; 288 GPM; PP 1950 psi; ann. vel.  
120; bottom hole assembly - bit - 3 pt. knobby reamer - 6¼" spiral drill  
collars - button stabilizer - 15 6¼" spiral drill collars - daily jrs. -  
15 jts. 4½" hvy. wt. pipe. Dev.: 3 deg. at 18,282'. Gel-Chem - Wt. 13.0#;  
Vis. 63; WL 4 cc; FC 2/32; pH 9.8; gel strength ini./10 min. 5 / 9; 18%  
solids; 1% sand; 17% LCM; salinity 1200 ppm; PV 40; Yp 28. Cum. mud costs  
\$429,857. Brinkerhoff 0/247/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

5-2: Tripping in limestone and chert (Park City) at 18,308'. (Prog. 26') 8½"  
hole. Trip in with Christensen diamond bit #105. Broke circulation at  
14,500' and 17,350'. Reamed and washed from 18,127' to 18,282'. No mud  
loss on trip. Drilled to 18,308'. Bit quit drilling. Pulled. In good  
shape. Apparently hard streak of limestone and chert. Bit #105 - Christ.  
MD37 - drilled from 18,282' to 18,308'. Bit #106 in hole. 16 6¼" spiral  
drill collars; 15 jts. 4½" hvy wt. drill pipe; WOB 25,000#; 68 RPM; 5½" x  
18" pump 48 SPM; 288 GPM; PP 1950 psi; ann. vel. 123; bottom hole assembly -  
bit - 3-pt. knobby reamer - 6¼" spiral drill collars - button stabilizer -  
15 6¼" spiral drill collars - daily jars - 15 jts. 4½" hvy. wt. pipe.  
Gel-Chem - Wt. 13.0#; Vis. 60; WL 4.2 cc; FC 2/32; pH 9.8; gel strength  
ini./10 min. 5 / 10; 19% solids; 1/2 of 1% sand; 15% LCM; salinity 1000  
ppm; PV 36; Yp 24. Cum. mud costs: \$429,857. Brinkerhoff 0/248/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

- 5-3: Drilling in limestone, pyrite and chert at 18,341'. (Prog. 33') 8½" hole. Bit #106 - Smith 6JS - drilled from 18,308' to 18,341'. 17 6¼" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 45,000#; 43 RPM; 5½" x 18" pump; 54 SPM; 325 GPM; PP 1920 psi; ann. vel. 146; bottom hole assembly - bit - 3 pt. reamer - one 6¼" spiral drill collar - button stabilizer - shock sub - 16 6¼" spiral drill collars - five 6½" slick drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 13.1#; Vis. 67; WL 4.4 cc; FC 2/32; pH 9.9; gel strength ini./10 min. 5 / 10; 20% solids; ½ of 1% sand; 18% LCM; salinity 850 ppm; PV 40; Yp 27. Cum. mud costs: \$430,943. Brinkerhoff 0/249/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

- 5-4: Tripping in white sandstone at 18,390'. (Prog. 49') 8½" hole. Bit #106 in hole. 17 6¼" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 45,000#; 45 RPM; 5½" x 18" pump; 54 SPM; 325 GPM; PP 1920 psi; ann. vel. 146; bottom hole assembly - bit - 3 pt. reamer - one 6¼" spiral drill collar - button stabilizer - shock sub - 16 6¼" spiral drill collars - five 6½" slick drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 13.0#; Vis. 73; WL 3.0 cc; FC 2/32; pH 9.8; gel strength ini./10 min. 10 / 13; 17% solids; 1/4 of 1% sand; 20% LCM; salinity 500 ppm; PV 41; Yp 37. Cum. mud costs: \$432,458. Brinkerhoff 0/250/0.

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**Madison - 21,400'**

- 5-5: Trip in with Bit #107. Depth 18,396' - sand (40' into Weber). (Prog. 6') 8½" hole. Bit #105 - Smith 6 JS - drilled from 18,308' to 18,390'. Bit #106 - Christ. MD37 - drilled from 18,390' to 18,396'. 17 6¼" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 25,000-45,000#; 40-70 RPM; 5½" x 18" pump; 54 SPM; 325 GPM; PP 2300 psi; ann. vel. 146; bottom hole assembly - bit - 3 pt. reamer - one 6¼" spiral drill collar - stabilizer - shock sub - 16 6¼" spiral drill collars - 5 6½" slick drill collars - daily jars. Gel-Chem - Wt. 13.1#; Vis. 77; WL 3 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 12 / 14; 18% solids; 1/8 of 1% sand; 17% LCM; salinity 650 ppm; PV 37; Yp 33. Cum. mud costs: \$434,713. Brinkerhoff 0/251/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
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**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

4-22: Mixing mud and LCM. Depth 17,814' - shale and sand. (Prog. 24') 8½" hole. Drilled 17,810' to 17,814'. 4' of fractures in 40 min. Lost circulation. Mixed thick concentration of LCM and spotted on bottom. Lost 230 bbls. Pulled 15 stands and mixed volume. Filled annulus with 5 bbls. Could not regain circulation. Pulled 17 stands and attempted to circulate. Had 25% returns. Lost total of 270 bbls. Will let hole set 2 hrs. and attempt to circulate again. Gel-Chem - Wt. 13.2#.

4-23: Drilling at low circulation. Depth 17,819' - shale and sand. (Prog. 5') 8½" hole. Pulled to 9000' to regain circulation. Circ. 3 hrs. Staged back to bottom 10 stands at a time. Circ. 1 hr. between each stage. Resumed drilling. Losing 5-6 bbls./hr. while drilling. Gel-Chem - Wt. 13.3#.

4-24: Tripping in shale and sand at 17,850'. (Prog. 31') 8½" hole. Hole healed up. Pulled bit. Bit and reamer in gauge. No tight hole. Running Christensen diamond bit. Bit #103 - Smith 5JS - drilled from 17,786' to 17,850'. Bit #104 in hole. 17 6¼" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe. WOB 45,000#; 43 RPM; 5½" x 18" pump 45 SPM; 270 GPM; PP 1650 psi; ann. vel. 147; jet vel. 255; bottom hole assembly - bit - junk sub - 3-pt. reamer - 6¼" spiral drill collars - 8½" stabilizer - shock sub - 16 6¼" spiral and 5 6½" slick drill collars - daily jars - 15 jts. hvy. wt. pipe. Gel-Chem - Wt. 13.2#; Vis. 66; WL 5.6 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 6; 18% solids; 1/4 of 1% sand; 25% LCM; salinity 800 ppm; PV 46; Yp 18. Cum. mud costs: \$416,930. Brinkerhoff 0/240/0.

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**Madison - 21,400'**

4-25: Drilling shale and sand at 17,884'. (Prog. 34') 8½" hole. Ran Christ. diamond. broke circulation at 14,450' and 16,920'. Washed and rotated from 17,288' to 17,850'. Slight tight hole. No loss of mud after returning to bottom. Bit #104 in hole. 16 6¼" spiral drill collars; 15 jts. 4½" hvy. wt. drill pipe; 5½" x 18" pump; 48 SPM; 288 GPM; PP 2080 psi; bottom hole assembly - bit - 3 pt. reamer - one 6¼" spiral drill collar - button stabilizer - 15 6¼" spiral drill collars - daily jars. Gel-Chem - Wt. 13.2#; Vis. 70; WL 4.8 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 5 / 10; 20% solids; 1/2 of 1% sand; 25% LCM; salinity 900 ppm; PV 52; Yp 26. Cum. mud costs: \$418,041. Brinkerhoff 0/241/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

4-26: Drilling shale and siltstone at 17,959'. (Prog. 75') 8½" hole. Bit #104 - Christ. MD37 - drilled from 17,850' to 17,959'. 16 6¼" spiral drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 23,000-25,000; 68 RPM; 5½" x 18" pump; 48 SPM; 288 GPM; PP 1950 psi; bottom hole assembly - bit - 3-pt. reamer - one 6¼" spiral drill collar - button stabilizer - 15 6¼" spiral drill collars - daily jars. Gel-Chem - Wt. 13.2#; Vis. 69; WL 5.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 5 / 9; 19% solids; 1/2 of 1% sand; 22% LCM; salinity 900 ppm; PV 41; Yp 23. Cum. mud costs: \$418,883. Brinkerhoff 0/242/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

4-27: Drilling shale and siltstone at 18,048'. (Prog. 89') 8½" hole. Bit #104 in hole. 16 6¼" spiral drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 25,000#; 68 RPM; 5½" x 18" pump 48 SPM; GPM 288; PP 1950 psi; ann. vel. 123; bottom hole assembly - bit - 3-pt. reamer - one 6¼" spiral drill collar - button stabilizer - 15 6¼" spiral drill collars - daily jars. Gel-Chem - Wt. 13.0#; Vis. 67; WL 4.8 cc; FC 2/32; pH 10.0; gel strength ini./10 min. 5 / 10; 19% solids; ½ of 1% sand; 18% LCM; salinity 900 ppm; PV 35; Yp 21. Cum. mud costs: \$420,294. Brinkerhoff 0/243/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

4-28: Drilling shale at 18,126'. (Prog. 78') 8½" hole. Bit #104 in hole. 16 6¼" drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 25,000#; 68 RPM; 5½" x 18" pump; 48 SPM; 288 GPM; PP 1920 psi; ann. vel. 123; bottom hole assembly - bit - 3-pt. reamer - one 6¼" spiral drill collar - button stabilizer - 15 6¼" spiral drill collars - daily jars. Gel-Chem - Wt. 13.2#; Vis. 66; WL 4.6 cc; FC 2/32; pH 10.0; gel strength ini./10 min. 6 / 9; 20% solids; 3/4 of 1% sand; 24% LCM; salinity 1000 ppm; PV 39; Yp 30. Cum. mud costs: \$422,104. Brinkerhoff 0/244/0.



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Continental Oil Company  
152 North Durbin  
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**RED CHANNEL FIELD - Uintah Co., Utah**

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**Madison - 21,400'**

4-15: Washing and reaming at 17,368'. Present TD 17,642' - Red Beds. (Prog. 18') 8½" hole. Trip in with diamond bit at 17,642'. Broke circulation going in hole. Stuck pipe at 17,346'. Worked loose in ¾ hr. Washed and reamed from 17,346' to 17,368'. No mud loss. Appears fractured Nugget formation sloughed. Bit #99 - Reed SC2G - drilled from 17,624' to 17,642'. Gel-Chem - Wt. 13.4#.

4-16: Drilling in Chinle at 17,680'. (Prog. 38') 8½" hole. Worked stuck pipe at 17,506' for 2 hrs. Reamed and washed from 17,506' to 17,642' for 3½ hrs. Gel-Chem - Wt. 13.3#.

4-17: Tripping in Shinarump at 17,717'. (Prog. 37') 8½" hole. Lost 111 bbls. mud at 17,692' to 17,704". Drilling break from 17,711' to 17,717' (6') (31'/hr. to 8'/hr.) Pump pressure rose to 3000 psi. Appears to have drilled Shinarump and wiped out diamond bit. Hole healed up. Bit #100 in hole. 16 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 30,000-35,000#; 74 RPM; 5½" x 18" pump; 60 SPM; 362 GPM; PP 1800 to 2300 psi; ann. vel. 175; bottom hole assembly - dia. bit - junk sub - 3 pt. reamer - one 6½" drill collar - 8½" stabilizer - 15 6½" drill collars - daily jars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 13.2#; Vis. 60; WL 4.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 9; 20% solids; 1/4 of 1% sand; 30% LCM; salinity 1000 ppm; 49 PV; Yp 20. Cum. mud costs: \$386,519. Brinkerhoff 0/233/0.

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**Madison - 21,400'**

4-18: Drilling in Shinarump at 17,724'. (Prog. 7') 8½" hole. Bit #100 - Christ. 116010 - drilled from 17,642' to 17,717'. Bit #101 in hole. Magnafluxed bottom hole assembly. Saver sub rejected. Circulated at 14,620' and 16,306' on trip in hole. Rotated and circulated down last 90' of hole. Slight fill. No mud loss. Hole in good shape. 17 6½" spiral and 5 6½" slick drill collars; 15 4½" jts. hvy. wt. drill pipe. 5½" x 18" pump; 50 SPM; 310 GPM; PP 1750 psi; ann. vel. 150; jet vel. 168; bottom hole assembly - bit - junk sub - 3 pt. reamer - 6½" spiral drill collars - 8½" stabilizer - shock sub - 16 6½" spiral and 5 6½" slick drill collars - daily jars - 15 jts. hvy. wt. pipe. Dev.: 3½" deg. at 17,716'. Gel-Chem - Wt. 13.2#; Vis. 72; WL 5.4 cc; FC 2/32; pH 9.3; gel strength ini./10 min. 4 / 9; 20% solids; 1/4 of 1% sand; 30% LCM; salinity 1100 ppm; PV 56; Yp 26. Cum. mud costs: \$397,349. Brinkerhoff 0/234/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

4-19: Drilling in Shinarump at 17,735'. (Prog. 11') 8½" hole. Pulled bit after would not drill Shinarump-conglomerate. Bit in good shape. Ran softer-type bit. Broke circulation at 14,434' and 15 stands off bottom. Hole in good shape. Drilling at 2'/hr. Bit #101 - HTC RG1X - drilled from 17,717' to 17,724'. Bit #102 in hole. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 45,000#; 44 RPM; 5½" x 18" pump; 52 SPM; 312 GPM; PP 1650 psi; ann. vel. 150; jet vel. 258; bottom hole assembly - bit - junk sub - 3 pt. reamer - 6½" spiral drill collars - 8½" stabilizer - shock sub - 16 6½" spiral and 5 6½" slick drill collars - daily jars - 15 jts. hvy. wt. pipe. Gel-Chem - Wt. 13.1#; Vis. 65; WL 5.4 cc; FC 2/32; pH 9.3; gel strength ini./10 min. 4 / 8; 20% solids; ¼ of 1% sand; 28% LCM; salinity 1200 ppm; PV 48; Yp 22. Cum. mud costs: \$400,068. Brinkerhoff 0/235/0.

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**Madison - 21,400'**

4-20: Drilling in Shinarump at 17,773'. (Prog. 38') 8½" hole. Lost 20 bbls. mud 17,759-17,765'. Reduced pump pressure and regained full returns. (62' of Shinarump to date) Bit #102 - Smith 6JS - drilled from 17,724' to 17,773'. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 48,000#; 44 RPM; 5½" x 18" pump; 50 SPM; 310 GPM; PP 1650 psi; ann. vel. 147; jet vel. 255; bottom hole assembly - bit - junk sub - 3-pt. reamer - 6½" spiral drill collars - 8½" stabilizer - shock sub - 16 6½" spiral and 5 6½" slick drill collars - daily jars - 15 jts. hvy. wt. pipe. Gel-Chem - Wt. 13.1#; Vis. 59; WL 6.0 cc; FC 1/32; pH 9.2; gel strength ini./10 min. 4 / 8; 20% solids; 1/4 of 1% sand; 25% LCM; salinity 1000 ppm; PV 43; Yp 19. Cum. mud costs: \$401,294. Brinkerhoff 0/236/0.

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**Madison - 21,400'**

4-21: Drilling shale with streaks of sand at 17,790'. (Prog. 17') 8½" hole. Trip in and broke circulation at 14,450' and 16,500'. No fill. Hole in good shape. No loss of mud. Bit #102 - Smith 6JS - drilled from 17,724' to 17,786'. Bit #103 in hole. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. hvy. wt. drill pipe; 5½" x 18" pump; 50 SPM; 310 GPM; PP 1650 psi; ann. vel. 147; jet vel. 255; bottom hole assembly - bit - junk sub - 3-pt. reamer - 6½" spiral drill collars - 8½" stabilizer - shock sub - 16 6½" spiral and 5 6½" slick drill collars - daily jars - 15 jts. hvy. wt. pipe. Gel-Chem - Wt. 13.2#; Vis. 58; WL 4.6 cc; FC 2/32; pH 9.3; gel strength ini./10 min. 3 / 7; 21% solids; 1/2 of 1% sand; 20% LCM; salinity 900 ppm; PV 40; Yp 18. Cum. mud costs: \$404,139. Brinkerhoff 0/237/0.



W. C. Blackburn  
Division Manager  
Production Department

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**RED CHANNEL FIELD - Uintah Co., Utah**

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**Madison - 21,400'**

4-8: Lost circulation. Depth 17,548' - Navajo. (Prog. 62') 8½" hole. Drilling break - 17,544' to 17,548'. Started losing returns rapidly. Lost 225 bbls. Pulled 32 stands up into casing. Mixing mud and LCM. Mud on bottom contains 30% LCM. 50% returns. Gel-Chem - Wt. 13.4#.

4-9: Reaming to bottom. Depth 17,548' - Navajo. 8½" hole. Pulled to 14,570'. Mixed mud 6 hrs. Filled annulus with 3 bbls. Would not circulate. Pulled to 13,187'. Annulus full. Losing 30% returns while circulating. Pulled to 11,800'. Circ. at 800 psi with full returns for 45 min. Increased pump pressure to 1200 psi. Losing small amt. of mud. Circ. 3 hrs. Circulation stabilized and held. Began staging back in hole. Circ. with low pump at 800# for 15 min. Increased pump press. to 1200#. Circ. for 45 min. Broke circulation as above at 14,728', 15,668', 16,606', 17,056', 17,458', and washed and reamed to 17,518'. Still have full returns. Gel-Chem - Wt. 13.4#.

4-10: Circulating 5 stands off bottom at 17,080'. Depth 17,556' - Navajo. (Prog. 8') 8½" hole. Circ. 3 hrs. and washed to TD of 17,548'. Full returns. Drilled 8'. Lost returns. Pulled 20 stands - 5 hrs. Mixing and building mud volume. Attempted to circ. Losing 10 bbls./30 min. Pulled 20 stands. Circ. okay at 13,800' for 4 hrs. Ran in 10 stands. Circ. at slow rate at 1200 psi. Full returns. Increased pump rate - 1500 psi. Full returns. Ran 10 stands. Circ. okay. Full returns. Ran 5 stands to 17,080'. Circ. with 1450 psi, 4 BPH loss of returns. Total loss 125 bbls. Bit #97 in hole. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 45,000#; 40 RPM; 5½" x 18" pump; 32 SPM; 285 GPM; PP 1450 psi; ann. vel. 160; jet vel. 400; bottom hole assembly = bit - 3 pt. knobby reamer - one 6½" spiral drill collar - stabilizer - shock sub - 16 6½" spiral drill collars - five 6½" slick drill collars - 15 jts. 4½" hvy. wt. drill pipe. Gel-Chem - XP-20 Spersene - Wt. 13.3#; Vis. 88; WL 6.8 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 10; 19% solids; 1/4 of 1% sand; 40% LCM; salinity 1100 ppm; PV 70; Yp 30. Cum. mud costs: \$364,874. Brinkerhoff 0/226/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

4-11: Logging. Depth 17,556' - Navajo. 8½" hole. 7½ hrs. circ. and cond. mud. Losing at rate of 10 B/H, 1 stand off bottom. Circ. with full returns 1 hr. Made short trip. Pulled 10 stands. Hole okay. No fillup. 8½ hrs. pulling out of hole to log. 7 hrs. logging. Run #1 - Schlumberger Gamma Ray, Sonic Caliper and Compressional Amplitude. Schlumberger TD 17,548'. Now going in with Induction Log. May run Density Log also. Navajo top 16,960'. Gel-Chem - Wt. 13.4#; Vis. 78; WL 6.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 10; 18% solids; 1/4 of 1% sand; 40% LCM; salinity 100 ppm; PV 58; Yp 22. Cum. mud costs: \$369,618. Brinkerhoff 0/227/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

4-12: Trip in hole and circulating at 17,000'. Present depth 17,556' - Navajo. 8½" hole. Ran Dual Ind. Laterolog and Density Log at 6:30 p.m. 4-12-72. Completed running logs. Tested BOP stack, manifold, and assembly to 2500 psi, hydril to 1500 psi. Okay. Picked up bottom hole assembly. Changed out 3-pt. reamer. Tripped in hole. Breaking circulation at 5800', 10,500', 14,700', and 17,000'. Full returns. 1/2 hr. circulating at each stop to clean up gas. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe. Bottom hole assembly - 1162' BHA - hook wt. - 58,000# - bit - 3 pt. reamer - spiral drill collars - stabilizer - shock sub - 16 spiral drill collars - 5 slick drill collars - daily drlg. jars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 13.4#; Vis. 86; WL 6.0 cc; FC 2.0; pH 9.5; gel strength ini./10 min. 4 / 9; 19% solids; ¼ of 1% sand; 30% LCM; salinity 1000 ppm; PV 65; Yp 28. Cum. mud costs: \$373,020. Brinkerhoff 0/228/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

4-13: Tripping in Navajo at 17,603'. (Prog. 47') 8½" hole. Finished tripping in hole. Circulated last 60' to bottom. No fill but tight in spots. Drilled from 17,556' to 17,565' (3½ hrs. - losing approx. 40 bbls. mud/hr.) and at 17,572' (2½ hrs. - losing 20 bbls./hr.) to 17,575'. Mud stabilized and no further loss. Total mud loss 175 bbls. Bit #98 in hole. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 50,000#; 38 RPM; 5½" x 18" pump 48 SPM; 285 GPM; PP 1400 psi; ann. vel. 145; jet vel. 155; bottom hole assembly - 1162' BHA - hook wt. - 58,000# - bit - 3 pt. reamer - spiral drill collars - stabilizer - shock sub - 16 spiral drill collars - 5 slick drill collars - daily drlg. jars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 13.2#; Vis. 63; WL 6.8 cc - 18.4 - hi-temp. - hi-press.; FC 2/32; pH 9.5; gel strength ini./10 min. 2 / 6; 18% solids; ¼ of 1% sand; 32% LCM; salinity 1100 ppm; PV 50; Yp 16. Cum. mud costs: \$379,202. Brinkerhoff 0/229/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

4-14: Drilling in Red Beds at 17,624'. (Prog. 21') 8½" hole. Finished pulling out of hole. Picked up new bit. Trip in. Breaking circulation at 9000', 14,600', 16,500', and 17,500'. Circ. and rotated last 65' to bottom. 3' tight spots - no fill. On bottom at 9 p.m. No mud loss during or after trip. Sample top of Chinle (Red Beds) at 17,585'. 3" new snow - still snowing. Bit #99 in hole. 17 6½" spiral and 5 6½" slick drill collars; 15 jts. 4½" hvy. wt. drill pipe; 5½" x 18" pump 56 SPM; 330 GPM; PP 1950 psi; ann. vel. 145; jet vel. 155; bottom hole assembly - 1162' BHA - hook wt. 58,000# - bit - 3 pt. reamer - spiral drill collars - stabilizer - shock sub - 16 spiral drill collars - 5 slick drill collars - daily drlg. jars - 15 jts. hvy. wt. drill pipe. Gel-Chem - Wt. 13.2+#; Vis. 75; WL 5.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 9; 19% solids; 1/4 of 1% sand; 33% LCM; salinity 1050 ppm; PV 67; Yp 21. Cum. mud costs: \$379,618. Brinkerhoff 0/230/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

3-31: Drilling sand at 17,324'. (Prog. 13') 8½" hole. Drilled to 17,311'. Lost partial returns (25%). Lost 250 bbls. Pulled 10 stands. Mixed volume and let hole set. Regained circ. Circ. 45 min. Ran 5 stands. Circ. 1 hr. Ran to bottom with full circulation. Now drilling with full returns. Last foot (17,323' to 17,324') took 66 min. to drill. Gel-Chem - Wt. 13.5#.

4-1: Drilling sand (Navajo) at 17,345'. (Prog. 21') 8½" hole. Bit #94 - Hycalog dia. - drilled 17,308' to 17,333'. Gel-Chem - Wt. 13.5#.

4-2: Drilling sand (Navajo) at 17,395'. (Prog. 50') 8½" hole. Gel-Chem - Wt. 13.4#.

4-3: Drilling sand (Navajo) at 17,424'. (Prog. 29') 8½" hole. Bit #95 - Sec. H-100 - drilled 17,333' to 17,404'. Bit #96 in hole. 17 6½" spiral and 5 6½" drill collars; 15 jts. 4½" hvy. wt. drill pipe; 5½" x 18" pump; 57 SPM; 335 GPM; PP 1920 psi; ann. vel. 150; jet vel. 205; bottom hole assembly - bit - 3 pt. knobby reamer - one 6½" spiral drill collar - stabilizer - shock sub - 16 6½" spiral drill collars - five 6½" slick drill collars - 15 4½" hvy. wt. drill pipe. Gel-Chem - Wt. 13.4#; Vis. 75; WL 4.0 cc; FC 2/32; pH 9.5#; gel strength ini./10 min. 7 / 10; 20% solids; 1% sand; 20% LCM; chlorides 1100 ppm; PV 58; Yp 26. Cum. mud costs: \$326,010. Brinkerhoff 0/219/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

4-4: Lost returns. Depth 17,443' - sand. (Prog. 19') 8½" hole. Drilled at 17,441'. Drilled 2' in 17 min. Lost complete returns. Pulled 10 stands. Mixed 40 bbls. LCM. Placed on bottom. Pulled additional 23 stands into casing. Pumped slowly with annulus full after waiting 6 hrs. Lost 50 bbls. in 45 min. Shut down 2 hrs. Started pumping. Pumped in 100 bbls. in 2½ hrs. Still losing partial returns. Shut down 1½ hrs. Began pumping slowly. Gradually losing some returns. Lost approx. 500 bbls. total. Appears to be healing up slowly. Bit #96 still in hole. 17 6½" spiral and 5 6½" drill collars; 15 jts. 4½" hvy. wt. drill pipe; pump size - 5½" x 18"; 57 SPM; 335 GPM; PP 1920 psi; ann. vel. 150; jet vel. 205; bottom hole assembly - bit - 3 pt. knobby reamer - one 6½" spiral drill collar - stabilizer - shock sub - 16 6½" spiral drill collars - five 6½" slick drill collars - 15 4½" hvy. wt. drill pipe. Gel-Chem - wt. 13.3#; Vis. 69; WL 4.8 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 6; 19.5% solids; 1% sand; 24% LCM; chlorides 1000 ppm; PV 50; Yp 20. Cum. mud costs: \$331,165. Brinkerhoff 0/220/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

4-5: Lost returns. Depth 17,463' - sand. (Prog. 20') 8½" hole. Staged drill pipe back to bottom. 50' fill on bottom. Drilled with full returns from 17,443' to 17,445'. Fast drilling to 17,463'. Losing mud slowly. Lost 225 bbls. Tight hole pulling first stand. Pulled 10 stands. Mixed volume for 5 hrs. with annulus standing full. Began pumping last 50 bbls. in 35 min. Let hole stand 3 hrs.; began pumping. Lost 50 bbls. in 50 min. Pulled 20 stands. Mixed volume with hole standing full for 4 hrs. Started pumping. Took 3 bbls. in annulus and 14 bbls. to fill pipe. Still losing. Lost 21 bbls. in 20 min. Pulled 20 stands. Mixing volume with hole standing full. Bit #96 - Sec. H-100 - drilled 17,404' to 17,463'. 17 6½" spiral and 5 6½" drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 45,000#; 40 RPM; 5½" x 18" pump; 45 SPM; 265 GPM; PP 1200 psi; ann. vel. 140; jet vel. 163; bottom hole assembly - bit - 3 pt. knobby reamer - one 6½" spiral drill collar - stabilizer - shock sub - 16 6½" spiral drill collars - five 6½" slick drill collars - five 6½" slick drill collars - 15 jts. 4½" hvy. wt. drill pipe. Gel-Che m - Wt. 13.4#; Vis. 62; WL 5.4 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 7; 19% solids; 1% sand; 30% LCM; chlorides 1000 ppm; PV 48; Yp 23. Cum. mud costs: \$341,196. Brinkerhoff 0/221/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

4-6: Drilling sand at 17,472'. (Prog. 9') 8½" hole. Pulled up to 9810' before being able to circulate. Circulated and mixed volume 2½ hrs. Staged back in hole, breaking circulation at 11,670', 12,776', 13,706', 14,651', 15,581', 16,500', 17,000', and 17,329'. Reamed and washed 114' to bottom at 17,443'. (Samples show bad sloughing in Navajo.) Bit #96 in hole. 17 6½" spiral and 5 6½" drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 50,000#; 40 RPM; 5½" x 18" pump; 48 SPM; 285 GPM; PP 1520 psi; ann. vel. 150; bottom hole assembly - bit - 3 pt. knobby reamer - one 6½" spiral drill collar - stabilizer - shock sub - 16 6½" spiral drill collars - five 6½" slick drill collars - 15 jts. 4½" hvy. wt. drill pipe. Gel-Chem - Wt. 13.4#; Vis. 75; WL 5.2 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 3 / 10; trace of oil; 19% solids; 1/2 of 1% sand; 25% LCM; chlorides 1100 ppm; PV 70; Yp 30. Cum. mud costs: \$345,376. Brinkerhoff 0/222/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

4-7: Drilling sand at 17,486'. (Prog. 14') 8½" hole. Bit #96 - Sec. H-100 - drilled from 17,404' to 17,483'. Bit #97 in hole. Losing small amt. mud. 17 6½" spiral and 5 6½" drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 45,000#; 40 RPM; 5½" x 18" pump; 48 SPM; 285 GPM; PP 1600 psi; ann. vel. 150; bottom hole assembly - bit - 3 pt. knobby reamer - one 6½" spiral drill collar - stabilizer - shock sub - 16 6½" spiral drill collars - five 6½" slick drill collars - 15 jts. 4½" hvy. wt. drill pipe. Gel-Chem - Wt. 13.4#; Vis. 70; WL 5.4 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 3 / 9; trace of oil; 19% solids; 1/2 of 1% sand; 25% LCM; salinity 1000 ppm; PV 55; Yp 25. Cum. mud costs: \$349,126. Brinkerhoff 0/223/0.



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential) -  
Madison - 21,400'**

3-25: Drilling sand at 17,206'. (Prog. 28') 8½" hole. Running with reduced pump. Lost 160 bbls. after getting back on bottom. Total 600 bbls. Hole still taking slight amt. fluid. Bit #90 - Sec. H100 - drilled 17,098' to 17,178'. Gel-Chem - Wt. 13.7#.

3-26: Circulating at 14,530' with partial returns. Depth 17,234'. (Prog. 28') 8½" hole. Drilled to 17,232' with full returns. Began losing partial returns. Lost 150 bbls. to 17,234'. Pulled 10 stands. First 80' tight - 4½ hrs. Mixed volume. Began circulating. Losing mud slowly. Lost 50 bbls. Pulled 20 stands. Unable to circulate with full returns. Let set 2 hrs. Began circulating with pump press. of 900 psi. Gel-Chem - Wt. 13.7#.

3-27: Tripping in sand at 17,275'. (Prog. 41') 8½" hole. Ran back to bottom. Breaking circulation at 15,390', 16,320', 16,785', and 17,150'. Reamed hole from 17,150' to 17,234'. Drilling break 17,246' to 17,264'. 1250 units gas. Still losing slight amt. mud. Bit #91 - Smith SS9 - drilled from 17,178' to 17,275'. 17 6½" and 5 6½" drill collars; 15 jts. 4½" hvy. wt. drill pipe. WOB 50,000#; 40 RPM; 5½" x 18" pump; 45 SPM; PP 1350 psi; bottom hole assembly - same as 3-24-72. Gel-Chem - Wt. 13.7#; Vis. 65; WL 4.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 7; trace of oil; 19% solids; 1% sand; 25% LCM; salinity 1000 ppm; PV 54; Yp 18. Cum. mud costs: \$315,133. Brinkerhoff 0/212/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential) -  
Madison - 21,400'**

3-28: Tripping in sand at 17,298'. (Prog. 24') 8½" hole. Lost nose cone on Bit #91. Ran in hole. Broke circulation at 14,450' and 16,810'. Washed and worked junk sub down last 60'. No fill. No hole problems. Lost no mud. Drilled 24' and bit locked. Bit #92 - Reed SC2G - drilled 17,275' to 17,298'. 17 6½" and 5 6½" drill collars; 15 jts. 4½" hvy. wt. drill pipe; WOB 50,000#; 40 RPM; 5½" x 18" pump; 50 SPM; 300 GPM; PP 1520 psi; ann. vel. 145; jet vel. 157; bottom hole assembly - bit - junk sub - 3-pt. reamer - one 6½" spiral collar - shock sub - stabilizer - 16 spiral drill collars - 5 6½" drill collars - daily drlg. jars. Gel-Chem - Wt. 13.7#; Vis. 62; WL 4.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 6; trace of oil; 19% solids; 1% sand; 27% LCM; salinity 1000 ppm; PV 52; Yp 18. Cum. mud costs: \$316,458. Brinkerhoff 0/213/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

3-29: Tripping. Depth 17,298'. 8½" hole. Pulled Bit #92. Center cored out. All 3 cones broken and pieces missing along with roller bearings. Ran Bowen 8" magnet with 6½" O.D. junk sub. Broke circulation at 14,450' and 16,310' and washed 30' to bottom. Worked magnet 1 3/4 hrs. with full pump while circ. up gas. Pulled magnet. Rec. 3 small pieces of segment bearings from Bit #91 and 3 roller bearings from Bit #92. No mud loss during last 24 hrs. Dev.: 4¼ deg. at 17,298'. Bit #92 - Reed SC2G - drilled 17,275' to 17,298'. 5½" x 18" pump; 57 SPM; 345 GPM; PP 1400 psi; ann. vel. 160; bottom hole assembly - bit - Junk sub - one 6½" spiral drill collar - shock sub - button stabilizer - 16 6½" spirals - five 6½" drill collars - daily jars - 15 jts. 4½" hvy. wt. drill pipe. Gel-Chem - Wt. 13.7#; Vis. 60; WL 4.0 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 6; trace of oil; 19% solids; 1% sand; 25% LCM; salinity 1000 ppm; PV 52; Yp 18. Cum. mud costs: \$317,317. Brinkerhoff 0/214/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

3-30: Drilling sand at 17,311'. (Prog. 13') 8½" hole. Ran Bit #93 with junk sub. Drilled 10' in 4 hrs. Worked junk sub. Pulled. No recovery in junk sub. Ran Hycalog diamond bit. Drilling at 3' per hr. Bit #93 - HTC XDR - drilled 17,298' to 17,308'. Bit #94 - Hycalog 701AGM - dia. - in hole. 16 6½" and 15 4½" drill collars; WOB 22,000#; 60 RPM; 5½" x 18" pump; 57 SPM; 345 GPM; PP 2080 psi; bottom hole assembly - dia. - 3 pt. reamer - one 6½" spiral - one button stabilizer - 15 6½" spiral drill collars - daily drlg. jars - 15 jts. drill pipe. Gel-Chem - Wt. 13.7#; Vis. 61; WL 4.1 cc; FC 2/32; pH 9.5; gel strength ini./10 min. 4 / 6; trace of oil; 19% solids; 1% sand; 25% LCM; chlorides 1000 ppm; PV 50; Yp 18. Cum. mud cost: \$317,317. Brinkerhoff 0/215/0.

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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Continental Oil Company

3. ADDRESS OF OPERATOR  
152 North Durbin St., Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface  
600' FWL, 810' FSL

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4833' GR, 4856' KB

5. LEASE DESIGNATION AND SERIAL NO.  
Utah 0577-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Conoco Federal 22

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA  
Sec. 22, T9S, R20E

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(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.)\*

Subsequent report of 6-7-72 indicated fishing for lost tools at 19,374' and plans to drill ahead to projected TD after recovery of fish. Top of 7 5/8" wash pipe at 19,346', top of drilling fish at 19,546'. Attempts to recover all of fish were unsuccessful. Ran Dual Induction Laterolog 19,325-17,542' and Borehole Compensated Sonic-Gamma-Caliper 19,346-17,546'. Ran DST #4 - 19,326-20,053'. Drilling fish went down hole when DST tools were run. Attempted to pull wash pipe at 19,361', but was unsuccessful. It was decided to abandon the tools in the hole and plug the well back as follows:

- 19,361-19,160' - 100 sacks Class "G" cement.  
Top of wash pipe fish up thru Mississippian Carbonate formation.
- 18,350-18,250' - 50 sacks Class "G" cement.  
Cover Weber and Park City formations.
- 17,850-17,550' - 100 sacks Class "G" cement and silica.  
Base of Navajo formation.

Cement will then be drilled to approximately 17,600' and a DST of the Navajo formation will be run. If the Navajo is unproductive, a cement plug of 100 sacks of Class "G" cement will be set from 16,000' to 15,800', cement will be drilled out to approximately 15,850', and a 7" liner will be set at 15,850', and further testing of other zones will be conducted. If the Navajo is productive, the 7" liner will be set at 17,600', and

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

SIGNED J. A. Wilson TITLE Administrative Supervisor DATE 6/16/72

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:  
USGS Salt Lake (4) UOGCC(2) AFE File (2) APPROVED BY DIVISION OF OIL & GAS CONSERVATION

\*See Instructions on Reverse Side

DATE 6-19-72  
BY EB Feight

Conoco Federal 22 #1 (Cont.)

17. the Navajo will be tested further. A detail of the tools abandoned in the hole is as follows:

6 jts. - 7 5/8" washover pipe - 19,361-19,545'  
14 6 1/4" spiral drill collars - top 19,588'  
6 1/4" shock sub  
8 1/2" button stabilizer  
6 1/4" spiral drill collars  
8 1/2" 3 pt. reamer  
8 1/2" HTC J-55 bit - bottom 20,053'

STATE OF UTAH  
DIVISION OF OIL & GAS CONSERVATION  
DEPARTMENT OF NATURAL RESOURCES

PLUGGING PROGRAM  
\*\*\*\*\*

NAME OF COMPANY Continental Oil Company  
WELL NAME Cresco Federal 22-1 API NO: \_\_\_\_\_  
Sec. \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ County \_\_\_\_\_

Verbal Approval Given to Plug the Above Referred to Well in the Following Manner:

Total Depth: \_\_\_\_\_

Casing Program:

Formation Tops:

Plugs Set as Follows:

DST #5 - Navajo 17,350-17,581, non productive  
90 sacks - plug from 17,150 - 16,836; drill out  
& 16,900', drill stem test from 16,670' - 16,900'  
200' plug from 16,500-16,900, 120 sacks from  
15,200-15,450, drill out & 15,350', run 7" casing,  
run about 950' of 7" from 15,350' up, cement  
with 300 sacks, 278', 9 5/8" casing, perforated test.

Date: 6-22-72 USGS Signed: Schmitt

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN TR. DATE (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0577A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Conoco Federal 22

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 22-T9S-R20E

12. COUNTY OR PARISH

Unitah

13. STATE

Utah

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 [ ] GAS WELL [X] OTHER

2. NAME OF OPERATOR Continental Oil Company

3. ADDRESS OF OPERATOR 152 North Durbin St., Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface

600' FWL, 810' FSL

14. PERMIT NO.

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

4833' GR, 4856' KB

16. 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) Well Progress

REPAIRING WELL [ ] ALTERING CASING [ ] ABANDONMENT\* [ ]

(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.)\*

Subsequent report to change of plans filed 6-16-72

- Plug No. 1 19361-19161' - 100 sax Class "G", 1% CFR-2 and 1% HR-12. Plug No. 2 18350-18250' - 50 sax Class "G", 1% CFR-2 and 1% HR-12. Plug No. 3 17850-17550' - 80 sax Class "G", 40% silica flour, 18% salt, 1% CFR-2, 3/4% HR-12 w/ 10 lbs. "Mud Flush" ahead.

Completed cementing 7:00 A. M. 6-17-72, WOC

Tagged top of cement @ 17,264: Drilled cement to 17,581'. Ran in hole for DST No. 5 17,350-17581'. Pulled DST tools leaving fish consisting of 7 spiral drill collars, pressure bomb and temperature bomb, top of fish @ 17,350'.

Plugged back 17,186-16,837 w/ 90 sax Class "G", 40% silica flour, 18% salt, 1% CFR-2, and 3/4 of 1% HR-12. Plug down 5:00 A. M. 6-22-72.

Tagged cement @ 16830 and drilled cement to 16905. Ran DST No. 6 16,669-16,905. Pulled DST tools. Plugged back 16,700-16,500 w/ 90 sax Class "G", 1% CFR-2 and 1% HR-12, and 15,250-15000 w/ 120 sax Class "G", 40% SSA-1, 18% NaCl, 1% CFR-2 and 0.75% HR-12. Last plug down 3:00 P. M. 6-28-72.

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

SIGNED

J. A. Wilson

TITLE

Administrative Supervisor

DATE

7-7-72

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

USGS Salt Lake (4) UOGCC(2) AFE File (2)

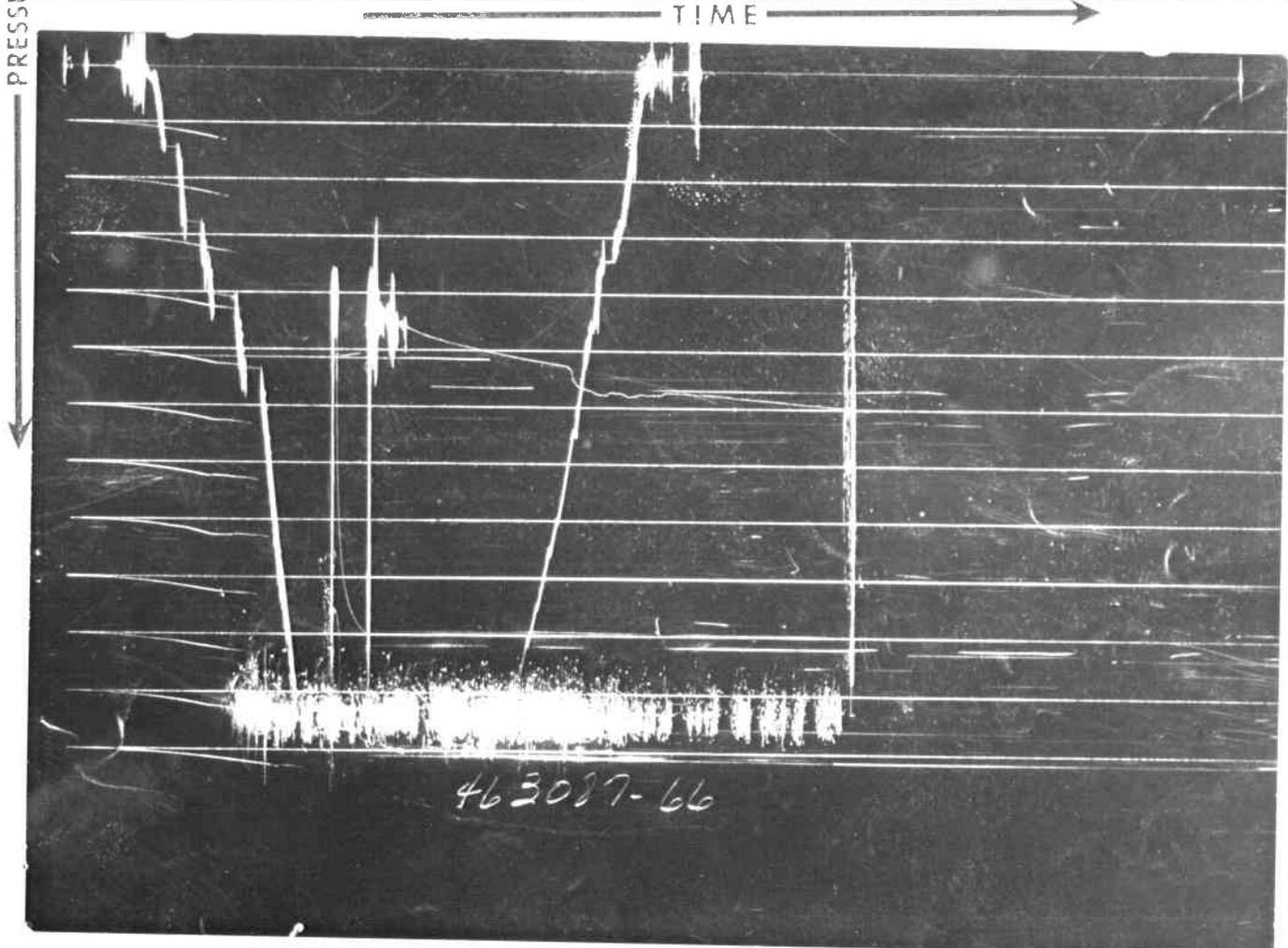
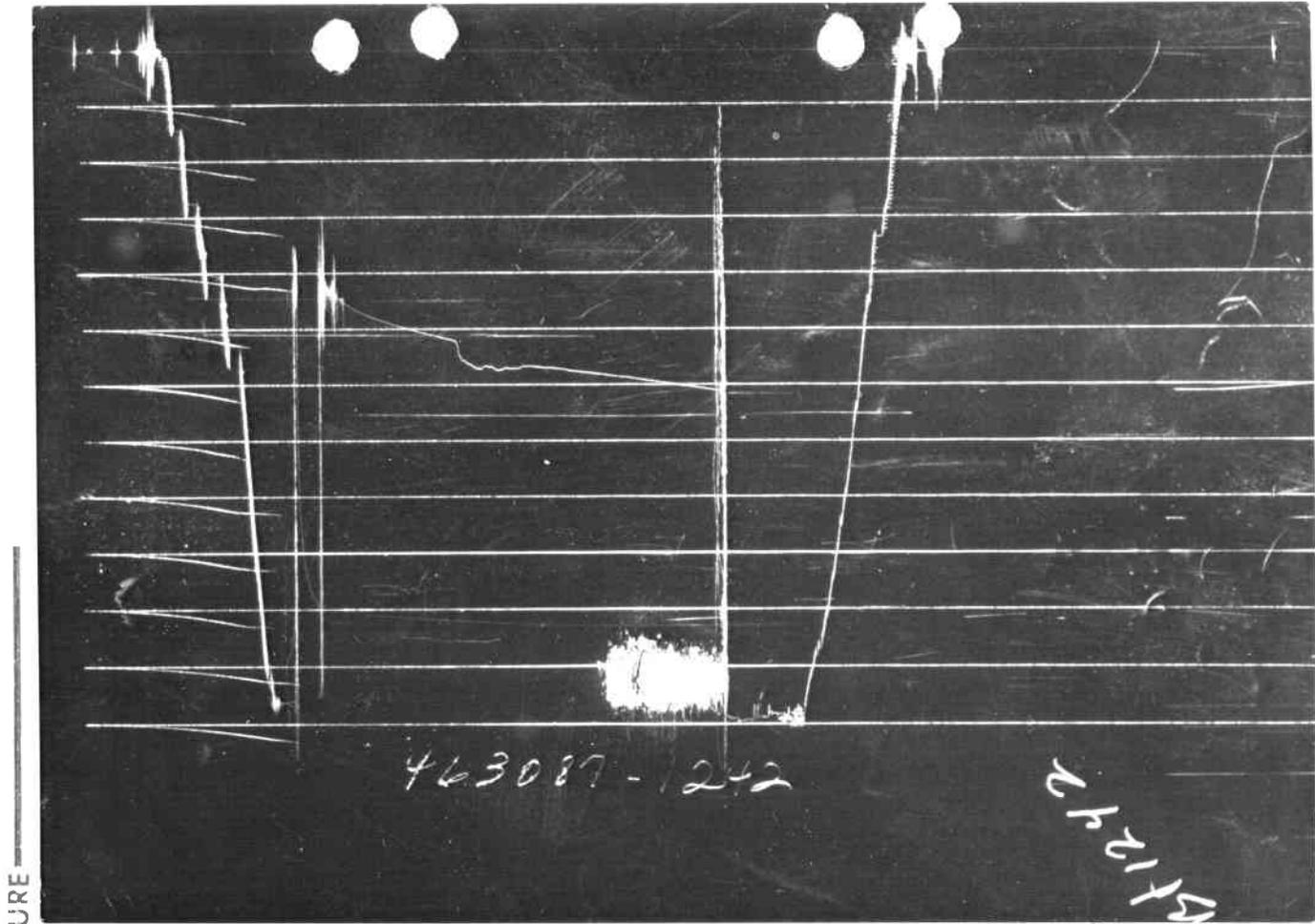
\*See Instructions on Reverse Side

Conoco Federal 22 (Cont'd)

17. Tagged top of cement @ 14,880, drilled cement to 15,100'. Ran 7" 35# Hydril super flush joint "P" to 15,073, float collar @ 15032, landing collar @ 14,987, top of tie-back sleeve @ 14,351. Cemented liner hanger w/ 210 sax Class "G", 40% SSA-1, 18% NaCl, 1% CFR-2 and 0.75% HR-12. Bumped plug to 3000 psi.

Tagged cement @ 14,878, drilled cement and float equipment and circulated and drilled to 16,500.

Preparing to run futher production tests.



Each Horizontal Line Equal to 1000 p.s.i.







	O. D.	I. D.	LENGTH	DEPTH
Reversing Sub	6"	2 3/4"	1'	
Water Cushion Valve				
Drill Pipe	SEE REMARKS ON DATA SHEET		17,148'	
Drill Collars	6 1/4"	2 1/4"	184.18'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	.89"	7.49'	
Hydro-Spring Tester	5"	.75"	5.02'	17,315'
Multiple CIP Sampler				
<del>XXXXXXXXXX</del> A.P. RUNNING CASE	5"	2.37"	4.12'	17,316'
AP Running Case	5"	2.37"	4.14'	17,320'
Hydraulic Jar	5"	1.75"	5.00'	
VR Safety Joint	5"	1"	2.45'	
Pressure Equalizing Crossover				
Packer Assembly	7 3/4"	1.53"	5.80'	17,336'
Distributor	5"	1.68"	2'	
Packer Assembly	7 3/4"	1.53"	5.80'	17,343'
<del>XXXXXXXXXXXXX</del> DISTRIBUTOR	5"	1.68"	2'	
<del>XXXXXXXXXXXXX</del> PACKER	7 3/4"	1.53"	5.56'	17,350'
Blanked-Off B.T. Running Case				
Drill Collars	5 3/4"	2 1/2"	6.20'	
Anchor Pipe Safety Joint	5 3/4"	1.5"	4.75'	
Packer Assembly				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars	6 1/4"	2 1/4"	209.78'	
Flush Joint Anchor	5 3/4"	2 1/2"	5.84'	
Blanked-Off B.T. Running Case	5 3/4"	2.5"	4.5'	17,577'



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

7-1: Picking up BHA. TD 20,053', PBTD 14,987'. Circ. and WOC at 13,500'. Tagged liner top at 14,351'. No cement above liner. Pressured to 1000 psi for 30 min. Held okay. Circ. at 14,340'. Trip gas after 1 3/4 hrs. Trip out of hole. Laid down six 6 1/2" drill collars. Changed out rams in BOP. Replaced 4 1/2" with 3 1/2". Picked up stinger BHA. Gel-Chem - Wt. 13.4#.

7-2: Drilling cement in 7" liner. Finished picking up BHA. Picked up 60 jts. 3 1/2" drill pipe. Ran in hole to cement top at 14,878'. Drilled cement, plug, landing collar, baffle and float collar. Tested with 1000 psi for 30 min. at 15,009'. Held okay. Gel-Chem - Wt. 13.4#.

7-3: Circ. at 16,500'. TD 20,053', PBTD 16,500'. Drilled cement and float equip. to 15,073'. Trip out of hole. Repaired drum chain. Trip in hole. Drilled cement and washed minor bridges. Circ. out gas. Rotated, washed and drilled to 16,500'. Gel-Chem - Wt. 13.5#; Vis. 53; WL 7.4 cc; FC 2/32; pH 10.8; gel strength ini./10 min. 2 / 6; trace of oil; 21% solids; 1/4 of 1% sand; salinity 2800 ppm; PV 32; Yp 11. Cum. mud costs: \$506,563. 12 4 3/4" drill collars. Brinkerhoff 0/292/18.

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

7-4: Changing pipe rams in BOP. TD 20,053', PBTD 16,500'. Circ. and waited on tools at 16,500'. Trip out of hole. Drag on drill pipe coming into 7" liner. Worked out tight spots. Changed out pipe rams; replaced 3 1/2" with 2 7/8". Gel-Chem - Wt. 13.5#.

7-5: Pulling tubing and test assembly. PBTD 16,500'. 5 5/8" hole. Completed installing tubing rams. Picked up 2 7/8" hydril tubing, 1480' tail including 1179' spaced perforations, Halliburton RTTS tool with circ. sub, safety jt. and auxiliary valve. Picked up tubing. Filled with 7000' water cushion above valve. Tubing stopped at 15,221'. Rigged up stabbing board. Pulling out of hole. Gel-Chem - Wt. 13.5#; Vis.- 63; WL 7.6 cc; FC 2/32; pH 10.5; gel strength ini/10 min. 2 / 7; 22% solids; 1/4 of 1% sand; salinity 2600 ppm; PV 46; Yp 20. Cum. mud costs: \$506,776. Brinkerhoff 0/292/20.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

Pulling out for production test. TD 20,053', PBD 16,500'. Pulled tubing. Broke down test tools. Replaced 2 7/8" rams with 3 1/2" rams in BOP. Ran in hole with 5 5/8" mill. Found bridge at 15,229'. Reamed and circ. to 15,340'. (Appeared to be cement.) Circ. 3 hrs. Pulled up 15 stands into 7" casing. Circ. 15 min. Ran back to bottom. No drag or fill. Trip out for production test. Bit #123 - Servco Economill - cleaned out bridges. 12 4 1/2" drill collars; 5 1/2" x 18" pump; BHA - Servco bit - 8 4 1/2" drill collars - Daley jars. Gel-Chem - Wt. 13.4#; Vis. 116; WL 7.2 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 4 / 12; 21% solids; 1/4 of 1% sand; salinity 2600 ppm; PV 70; Yp 45. Cum. mud costs: \$507,151. Brinkerhoff 0/292/21.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

Testing. PBD 16,500'. Formation: Frontier and Dakota. 5 5/8" hole. Pulled drill pipe. Ran Halliburton RTTS tool with auxiliary valve, safety jt., and reverse valve on 2 7/8" tubing with 7000' of water cushion above auxiliary valve. Packer set at 15,000' with perforated tail at 16,481'. Opened tool with medium to strong blow at 9:30 p.m. 7-6-72. Flowed well 9 1/2 hrs. with medium to strong blow on 1/2" choke. No gas or fluids to surface. Gel-Chem - Wt. 13.4#. Brinkerhoff 0/292/22.

YSGS: ~~Conoci~~ - #1 Fed Red Chemd sec 22 T9S R20E  
T. P. 20,053

↓  
Plug back  
by Jerry  
6/15/72

top of fish 19361

tested Modoc - 19326 20,053  
9800 g water + GCW (saline)

- plugs =
- (1) ~~PP~~ top of fish up 100'
  - (2) Weber top - ~~18215~~ - 18350  
φ up 100'
  - (3) 17650 = 100' up  
↓ below Jn

top of Jn 16955 - Will DST.

and run 7" line if warrants  
if not = 7" line to ~~15580~~ 15850  
test zones - Corvado P, A ↓

Frontier formation up  
AOK PWB

717.56

528.00

---

1245.56

905.23

---

2150.79

974.00

---

3124.79

(400)



Western Hemisphere Petroleum Division  
Continental Oil Company  
1755 Glenarm Place  
Denver, Colorado 80202  
(303) 244-4311

July 24, 1972

U.S.G.S.  
8416 Federal Building  
125 South State Street  
Salt Lake City, Utah 84111

707 SE 1015

Utah Oil & Gas Commission  
1588 West, North Temple  
Salt Lake City, Utah 84103

Gentlemen:

Please find enclosed two copies each of the Magcohar Data Log  
and Pressure Profile log on the:

Continental Oil #22-1 Federal  
Section 22-T. 9 South-R. 20 East  
Red Channel Block  
Uintah County, Utah

Forwarded under separate cover are two copies each of all success-  
ful electric log runs in this same well.

We hereby request that all this material be classified by you as  
CONFIDENTIAL to the extent of your regulations.

Sincerely,

George I.W. Long  
Supervising Geologist

nd

Encs.

CC: Well File



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

7-15: Rigging up test lines. PBSD 15,005'. Removed rotating head and installed drilling nipple. Rigged up Otis packer, sliding sleeve assembly and seating nipple. Ran set-down packer on 7755' of 3½" 19.3# tubing and 6970' of 5" drill pipe. Hooked up test lines to pressure test frac and test string.

7-16: Prep. to set plug in "X" nipple and test string coming out of hole. Set packer at 14,742' (set-down packer). Pressured to 6900#. Lost all pressure suddenly. Unseated packer and pulled string. Found inside seal washed out on inside packer. Ran Halliburton RTTS with sliding sleeve and "X" nipple in hole to 14,742'. Set packer. Rigged up and pressured string to 7000#. Would not hold. Final pressure fell from 7000# to 5500# in 12 min. on to 2000# in 30 min.

7-17: Running 3½" tubing string in hole. PBSD 15,005'. Testing string would not hold pressure. Obtained McCulough wire line truck. Made 2 runs to set Otis plug. Unable to set equaling bar. Dropped bar and pumped into place. Pulled out. Tested each 15 stands to 7000 psi. Would not hold. Laid down 5 jts. 5" drill pipe with small leaks. Pressure still would not hold until reaching 3½" tubing. Pressured tubing to 7000#. Held for 3 min. Fell to 6950#. Re pressured to 7000#. Held for 8 min. Pulled tubing. Rubber on RTTS packer slightly damaged. Repaired packer and tubing. Sleeve packed with microfilm of scale. Made up new tools and ran in hole with 3½" tubing. Did not run plug in "X" nipple because of microfilm of scale in tubing and preventing getting to plug and pulling. Brinkerhoff 0/292/32.

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

7-18

Attempting to break down formation. PBSD 15,005' - Frontier. Ran remainder of 3½" N-80 tubing to 14,725'. Top joint is new joint 5", 19.5# drill pipe. Set RTTS packer at 14,725' and pressure tested string to 7000# for 10 min. Held okay. Released RTTS tool and lowered to 14,900'. Spotted 10% HAC (acetic acid) containing 6 gal. Dowell's A-110 inhibitor/1000 gal. in the interval 14,900-14,750' (vol. = 221 gal.). Left 2000 gal. acid in the frac string (6050 gal.) containing 2% KCl water and 50# ADOMITE AQUA/1000 gal. and 30# J-133/1000 gal. Pulled up and reset RTTS at 14,725'. Nippled up lubricator and ran Wireline Perforators' 23-gram Ceram-jet expendable through-tubing perforating gun with a side-kicker and perforated with 1 - 0.42" jet shot every 4' in the interval 14,820-14,920' in two runs. (Total of 26 shots.) Pressured annulus to 1500 psi. Pressured frac string to 7000 psi. Could not get formation to take any fluid. Pressured to 8000 psi. Began pumping in at 1 B/M for 10 min. Locked up. Would take no fluid. Set for 15 min. Bled to 7600 psi. Prep. to take pressure up to 10,000#. Brinkerhoff 0/292/33.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

7-19

PBTD 15,005'. Open to pit. RTTS packer set at 14,750'. 3½" N-80 tubing to surface. Pressured annulus to 2000 psi. Began breakdown with pressure climbing to 9400 psi. Pumping at 5 B/M and dropping rubber-covered nylon breakdown balls in every 400 gal. fluid pumped. Pumped 6000 gal. 2% KCl water, 50# ADOMITE AQUA, and 30# J-133/1000 gal. while injecting breakdown balls. Began displacing breakdown fluid with 2% KCl water and 30#/1000 gal. J-133. Overdisplaced by 9 bbls. when swage on top of top joint began seeping. Pressure fell to 8400 psi. Shut down. 320 bbls. fluid to recover. Removed lines. Installed flange and flow equipment. Installed 10,000# gauge with needle valve. Opened slowly.

Gauge pegged and broke. Installed second gauge with two needle valves. Opened slowly as possible. Gauge pegged and broke. Pressure on annulus climbing to 2400 psi. Opened choke wide open with well flowing to pit thru 2", 10,000# valve. Pressure bled to 1500 psi in 20 min. Flowing water to pit. Began flowing intermittently in 5 hrs. No pressure. Small amt. of gas between water slugs. Burnable. Slight breeze keeps putting fire out. Continued to surge small streams of water until 11:15 p.m. Dead from 11:15 p.m. to 12:30 a.m. 12:30 a.m. to 7:00 a.m. - light blow. Will burn but not support steady flame. Not enough pressure to measure.

Frac detail: After spotting acid and setting packer, dropped 78 balls in tubing string. Pressured up to 7000 psi. Would not break. WOO. Pressured annulus to 2000 psi. Pressured up to 8000 psi. Well took at 1 B/M. Increased to 8500 psi. Well began taking at 5 B/M and began getting immediate ball seating with good break-back characteristics. Typically, pressure would increase to 8600 psi after balls hit and then break to 8200 psi at 5 B/M. When 22nd ball hit, pressure increased from 8600 to 9400 psi and then broke to 8700 psi at 5 B/M. Slowed pump to 1 B/M. 23rd ball hit and raised pressure from 8700 to 9400 psi and maintained 9400 psi at 5 B/M. No other break-backs or evidence of balling off. Pumped total of 2300 gal. acid (55 bbls.) and 265 bbls. breakdown fluid. (Total 320 bbls.) Instantaneous SIP 8100 psi surface. Brinkerhoff 0/292/34.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

7-20

PBTD 15,005'. Waiting on orders. Flowed well with slight blow until 9 a.m. Died. Closed well in at 9:50 a.m. No pressure buildup until 12:30 p.m. Filled tubing with mud; unseated packer. Attempted to circ. out KCl water. Unable to circ. at 2800#. Attempted to reverse with 2000#. No success. Hooked up Dowell.

Pressured up to 7000#. Could not break circ. Pressured up to 4500#. Opened valve quickly 5 times. Could not surge plug loose. Re pressured to 7000# for 10 min. Still could not circulate. Rigged up Wireline lubricator and tubing gun with 4 jet shots/ft. Found tubing plugged at 8583'. Brinkerhoff 0/292/35.

Conoco #22-1 Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
Madison - 21,400'

7-21

PBTD 15,005'. Waiting on Otis tools. Installed new rubber in 10", 5000# Hydril. Reset packer at 14,750'. Bled pressure off annulus (1600#). Filled annulus with KCl water. BHA - Halliburton RTTS packer set at 14,750' in 7" casing on 3 1/2", N-80, EUE tubing. Brinkerhoff 0/292/36.

1/4" Choke  
2" Orifice Well Tester

**CONFIDENTIAL**

*Conoco*  
RED CHANNEL  
#1-22 Federal  
*Uintah Co., Utah*  
Kr-Kd Flow Test  
15,073-16,000

2.54 CM/Inch  
in. of wtr x .07346 = in. of Hg  
in. of Hg x 13.608 = in. of wtr  
psi x 2.0353 = in. of Hg  
in Hg x .4912 = psi

*State of Utah*

Time & Date	Press. Diff (Cm Hg)	Diff. Press Hg (Cm)	Diff. Press Hg (Inches)	Rate/MCF (Based on 14.65 psi A, Per Day 60°F. & 0.60 SP GR.)	Remarks
(7/7/72) Open					
9:25 PM					Strong blow (12"+)
9:30					"
9:40					"
9:45					"
9:50					"
10:10					"
10:25					"
10:35					"
10:50					"
10:55					"
11:05					Dec. but still 12"+ bucket
11:15					
(7/8/72)					
12:00 AM					
12:15					By wk blow on bottom (12")
12:30					Inc. to mod.
12:45					"
1:00					Inc. to strong
1:20					"
1:40					Vy strng blow, wtr out 12" back
1:50					Turn part of blow into 2" flowline
2:00					("Strong" blow through flowline
2:20					(at pits, no gas odor
2:25					{
2:30					{
2:35					{
3:20					Decrease blow--flowline still strong at bucket
4:40					"
5:30					12" blow w/flowline valve closed
					No CTS according to drill.
					foreman at 6:30
					CTS 1.75 MCFPD 2' flare,
					gas gravity .565 at 60° F.
7:30+ (Approx.)					

Time & Date	Press. (Cm Hg.)	Diff Press Hg (Cm)	Diff. Press Hg (Inches)	Rate/MCF (Based on 14.65 psi A, Per Day 60°F. & 0.60 SP GR.)	Remarks
(7/7/72)					
9:15 AM	1-15				1/8" plate orifice
9:30	3-17				
9:42	5.4-20	25.4	10	6.33	
9:44		27.0	10.6	6.33-6.55	
9:47	7-21.5	28.5		6.7	
9:50	6.5-21	27.5			
9:53	6.2-20.8	27.0			
10:00	6.3-8.6	14.9	5.9	4.6	
10:30	5.5-22	27.5	10.8	6.5	
11:00	.9-15.8	16.7	6.5	5.0	
11:30	1.7-16.5	18.2	7.1	5.2	
12:00 PM	9.7-24.4	34.1	13.4	7.41	
12:30	2.9-3.3	6.2	2.4	9.69	1/4" plate - add mercury
1:00	2.1-1.7	3.8	1.4	7.37	
1:30	.3-.8	1.1	6" H <sub>2</sub> O	4.1	
2:00	.6-.5	1.1	6" H <sub>2</sub> O	4.1	
2:30	4.1-4.3	8.4	3.0	3.6	1/8" plate
3:00	6.0-6.1	12.1	4.75	4.3	
3:30	7.7-7.6	15.3	6.0	4.8	
4:00	.9-1.1	2.0	11" H <sub>2</sub> O	1.7	Changed from inches Hg to inches H <sub>2</sub> O
5:00	.9-1.1	2.0	11" H <sub>2</sub> O	1.7	
6:00		.3	1.6" H <sub>2</sub> O	.7	
6:22	1.0-1.5	2.5	1.0	1.9	String blow at bucket (12" bottom) Press. build-up during valve close?
7:00	0-.5	.5	2.7" H <sub>2</sub> O		
8:00	0-1.0	1.00	5.4	1.2	1/8" plate
9:00	0-1.3	1.30	7.0	1.4	
10:00		1.00	5.4	1.2	
11:00		1.0	5.4	1.2	
(7/8/72)					
12:00 AM		1.0	5.4	1.2	
1:00		.9	4.8	1.1	
2:00		.9	4.8	1.1	
3:00		.9	4.8	1.1	
4:00		1.0	5.4	1.2	
5:00		1.5	8.0	1.9	

CONFIDENTIAL

Recovered 40.8 bbls GCWC and 48.6 bbls VHGM, no water - not enough surface pressure to catch a gas sample.



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

7-8: Reversing out test. PBTB 16,500'. 5 5/8" hole. 7-7-72: 9:45 a.m. 6.7 MCF gas on 1/4" choke. 7-8-72: 12:30 p.m. 9.7 MCF gas on 1/4" choke. 7-8-72 at 5 a.m. 1.5 MCF gas on 1/4" choke. Sp. Gravity .57. At 5 a.m. opened tool. Began reversing out water. Measuring thru meter.

7-9: Rigging down loggers. PBTB 16,500'. Reversed out DST fluid. Rec. 42½ bbls. gas cut water cushion and 47 bbls. gas cut drilling fluid. No formation water. Picked up kelly. Circ. out gas. Cond. mud. Pulled tubing. Broke down and loaded out test tools. Rigged up Wireline. Ran Cement Bond Log with Gamma from 15,050' to 14,351'. Gamma did not work. Reran over same interval. (Bonding appears good.)

7-10: Circ. and WOC. Went in open ended with 3½" drill pipe at 15,073'. Pumped 10 bbls. water followed with 500 gal. "Mud Flush" and 75 sax Class "G" cement with 1% CFR-2 and .5% HR-12. Displaced with 5 bbls. water and 207 bbls. drilling fluid. Cement in place at 5:30 p.m. 7-9-72. Work by Halliburton. Gel-Chem - Wt. 13.4#; Vis. 67; WL 7.6 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 2 / 8; 21% solids; 1/4 of 1% sand; salinity 26 ppm; PV 46; Yp 20. Cum. mud costs: \$507,520. Brinkerhoff 0/292/25.

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

7-11  
Trip out. PBTB 16,500'. With 5 5/8" bit and scraper in hole, encountered cement stringers in casing at 12,641'. Pulled out and picked up 8½" bit and casing scraper. Cleaned out cement stringers 12,641' to 14,351'. 5 5/8" hole. Bit #121 - RR - Sec. M4L - cleaned out cement stringers. BHA - bit - casing scraper and 12 4½" drill collars. Gel-Chem - Wt. 13.3#; Vis. 84; WL 8.1 cc; FC 2/32; pH 10.6; gel strength ini./10 min. 3 / 10; 22% oil; ½ of 1% sand; salinity 2800 ppm; PV 52; Yp 33. Cum. mud costs: \$507,520. Brinkerhoff 0/292/26.

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

7-12  
Circ. to cement. PBTB 15,025'. Ran in hole with 5 5/8" mill and 7" casing scraper. Cleaned cement stringers from 14,351' to 15,175'. Circ. 2 hrs. Pulled out. Ran Johnson cement retainer (Hornet cast iron). Attempted to set at 15,045'. Could not set. Pulled up. Set at 15,025'. Released from retainer. Began circulating to spot cement plug on retainer. Cum. mud costs: \$507,520. Brinkerhoff 0/292/27.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

7-13

Drilling cement plug. PBSD 15,025'. 5 5/8" hole. Spotted 25-sack plug - Class "G" cement, 30% D-66 silica, 1% D-65 TIC, and 4% D-28 retarder - on top of Johnston cement retainer at 15,025'. Cement in place at 9:30 a.m. 7-12-72. Dowell cemented. Pulled out and picked up 5 5/8" bit and 7" casing scraper. Ran in to 14,000'. Circ. and cond. mud. WOC 20½ hrs. Found top of cement plug at 14,750'. Cement firm. BHA - 5 5/8" bit - 7" casing scraper - 12 4½" drill collars. Gel-Chem - Wt. 13.4#; Vis. 50; WL 9.2 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 2 / 5; 21% solids; ½ of 1% sand; salinity 2800 ppm; PV 50; Yp 12. Cum. mud costs: \$507,842. Brinkerhoff 0/292/28.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

7-14

Laying down drill collars. PBSD 15,005'. WOC 3½ hrs. Drilled firm cement to 15,005'. Circ. out cement for 3 hrs. Set 50,000# wt. on plug and pressure testec casing and plug with 2000# for 20 min. (10,500# BHP). Displaced mud with 2% KCl water. Pulled and laying down 16,500' 3½" and 5½" drill pipe and 4½" drill collars. Cum. mud costs: \$507,842. Brinkerhoff 0/292/29.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIP CASE\*  
(Other instructions on re-verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0577A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Conoco - Federal 22

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA

Section 22, T9S, R20E

12. COUNTY OR PARISH 13. STATE

Unintah

Utah

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  GAS WELL  OTHER

2. NAME OF OPERATOR  
Continental Oil Company

3. ADDRESS OF OPERATOR  
152 North Durbin, Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

600 FWL, 810 FSL

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4833' GR, 4856' KB

16. 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   
ABANDONMENT\*

Well Progress  
(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.)\*

PBTD 16,500. Tested Frontier and Dakota formations - DST No. 7. Plugged back with 500 gal Mud Flush and 75 sacks Class "G" cement with 1% CFR-2 and .5 HR-12, tagged top of cement at 15,025: Drilled cement out to 15,175. Set retainer at 15,025 and spotted 25 sacks plug Class "G" cement, 30% D-66 Silica, 1% D-65 TIC, and 4% D-28 retarder. Tagged top of cement at 14,750. Drilled cement to 15,005'. Ran 3½" tubing and set RTTS packer at 14,900. Spotted 10% HAc containing 6 gal Dowell A-110 inhibitor/1000 gal in the interval 14,900-14,750 (vol 221 gal). Reset packer at 14,725 and perforated the Mancos formation with 1-0.42 ceram-jet 23 gram every 4' in the interval 14,820-14,920. Reset packer at 14,750 and attempted to break formation. Pumped in 6000 gal 2% KCl water, 50# ADOMITE AQUA and 30# J-133/1000 gal. Flowed well back to pit. Found tubing plugged at 8583. Unplugged tubing and pulled 3½" tubing and packer.

It is now planned to re-perforate the casing opposite the Mancos formation, rig down the rotary and place the well on test.

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

SIGNED

*J. A. Usher*

TITLE Administrative Supervisor

DATE 8-4-72

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

7-29: PBSD 15,005'. Nippling up snubbing unit. Finished laying down 1½" tubing. Nippled down snubbing unit. Ran in hole with Wireline Gamma Ray collar locator. Hit bottom at 14,776' (44' fill above top perms). Pulled out of hole. Nippling up snubbing unit to displace 13.5# mud in tubing with water.

7-30: Snubbing out with 1½" tubing. PBSD 15,005'. Completed rigging up snubbing unit and tested to 10,000 psi. Ran in hole with 1½" Hudril string to 8006'. Displaced 13.5#/gal. mud with 8.5#/gal. water. Well flowed slightly after displacement. Pulled 3 jts. and pressure on 3½" - 1½" annulus began increasing. Pulled total of 13 jts. Pressure built to 1200 psi. Bled pressure to zero with small discharge of fluid. Pulled total of 150 jts. out of hole. Pressure stabilized at 500 psi.

7-31: Building mud volume. PBSD 15,005'. Finished pulling out of hole with 1200 psi on snubbing unit. Rigged down snubbing unit. Pressure increased to 1775 psi while rigging down. Opened well on 5/64" choke. Bled off gas and water. Pressure decreased to 650 psi in 90 min. Well making mostly gas. Opened well on 1" choke. Pressure fell to 0 with mild gas flow. Pressured up 3½" x 9 5/8" annulus to 1700 psi. Opened by-pass on RTTS tool. Displaced KCl water in annulus with 13 ppg mud. Ran out of mud as bottoms up were coming to surface. Presently building mud in pit to 13 ppg. 0 psi on 3½", 900 psi on 9 5/8". Brinkerhoff 0/292/45

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

8-1 PBSD 15,005'. Pulling out of hole with RTTS packer. Added 100 bbls. liquid mud to system. 2500 psi to break circulation. Mud was gas cut and extremely viscous coming back to surface. Treated mud with chemical and water while building system to 13.0#/gal. Circ. and conditioned mud to 13.0#/gal. for 24 hrs. Released RTTS tool and started out of hole. Gel-Chem - Wt. 13.0#; Vis. 54; WL 11.6 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 2 / 3; 19% solids; trace of sand; salinity 2000 ppm; PV 38; Yp 10. Brinkerhoff 0/292/47.

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

8-2 Circulating at 15,000'. PBSD 15,005'. Finished pulling out of hole. Laid down RTTS packer. Picked up 5 5/8" mill. Went in hole. Drilled and washed from 14,807' to 15,000'. Reached PBSD at 4:45 p.m. Circulated out LCM, fine shale and gas. Initially had to shut hydril to control gas for 1½ hrs. Quieted down. No gas after initial blow. Circ. at 15,000' at 6 a.m. and rigged up lay-down equipment. Gel-Chem - Wt. 13.0#; Vis. 58; WL 11.8 cc; FC 2/32; pH 10.3; gel strength ini./10 min. 2 / 5; 20% solids; trace of sand; salinity 2000 ppm; PV 48; Yp 16. Brinkerhoff 0/292/48.



W. C. Blackburn  
 Division Manager  
 Production Department

Western Hemisphere Petroleum Division  
 Continental Oil Company  
 152 North Durbin  
 Pacific Western Life Building  
 Casper, Wyoming 82601  
 (307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

Conoco #22-1 Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
 Madison - 21,400'

PBTD 15,005'. 7-22: Waiting on Otis equipment. Brinkerhoff 0/292/37  
 7-23: Slight gas leak developed in annulus. Pressure increased to 1000 psi in 24 hrs. Bled down to 500 psi. Waiting on Otis equipment. Brinkerhoff 0/292/38  
 7-24: Waiting on Otis equipment. Brinkerhoff 0/292/39

Conoco #22-1 Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
 Madison - 21,400'

7-25  
 PBTD 15,005'. Otis equipment arrived on location at 1:30 p.m. 7-24-72. 17 1/2 hrs. unloading, rigging up, and testing equipment to 10,000 psi with Dowell cement truck. Halliburton RTTS packer set on 3 1/2" N-80 EUE tubing at 14,750'. Brinkerhoff 0/292/40.

Conoco #22-1 Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
 Madison - 21,400'

7-26  
 PBTD 15,005'. Ten hours to pick up 1 1/4" Hydril tubing. Ran in hole. Circulated every 1000' to clear back pressure valves. Top of bridge at 8583'. Circulated 1 1/2 hrs. and displaced water while hooking up power swivel. Three hours work on power swivel. Secured different unit from Wesco - down 8 1/2 hrs. waiting on daylight. Drilled on bridge 1 hr. from 8583' to 8588'. Cleaning out bridges in 2 1/2" tubing at 8588'. BHA - 2 1/4" clusterite on 1 1/4" CS Hydril tubing. Gel Chem. Wt. 13.4. Vis. 65. Brinkerhoff 0/292/41.

Conoco #22-1 Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
 Madison - 21,400'

7-27  
 PBTD 15,005'. Circulating and conditioning mud. Drilled and washed shale and cement from 8588' to 8774' with 1000# on 3 1/2" tubing. Ran in hole holding back pressure filling up 1 1/4" tubing. Breaking circulation every 1,000' to 14,772'. Gel Chem. Wt. 13.5#. Vis. 55. Brinkerhoff 0/292/42

Conoco #22-1 - Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
 Madison - 21,400'

7-28  
 PBTD 15,005'. Circulated and conditioned mud. Attempted to start out of hole with 1 1/4" macaroni string. Could go down but not up; could not rotate. Jacked up 3 1/2" tubing 18" with hydraulic jacks. String came free. Started out of hole at 9 p.m. 7-27-72. At 6 a.m. had laid down 200 jts. Brinkerhoff 0/292/43.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

8-3 Laying down 5" drill pipe. PBTB 15,005'. Laid down 488 jts. 3½" N-80 tubing. Ran 7000' 5" drill pipe in hole. Pumped bottoms up. Had no gas. Began laying down 5" drill pipe. Brinkerhoff 0/292/49

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

8-4 Prep. to run 5 5/8" mill in hole. PBTB 15,005'. Finished laying down 5" drill pipe. Rigged up Dresser-Atlas. Unable to get line thru lubricator. Took tubes to machine shop to be drilled out. (Lost 6 hrs.) Finished rigging up Dresser-Atlas. Ran 3½" Gamma Ray tool to 14,354' (wireline measurement). Unable to get deeper. Can log top of liner hanger. BELIEVE bottom of tool going 20' into liner. Pulled out. Rigged down Dresser-Atlas. Laid down slotted tubing. Brinkerhoff 0/292/50



John Khan - Conoco - In Canyon  
to top.

↓  
Prof. Marcos - Will  
24 M off/day

Want to T.A. - Cement post and  
set retainer  
C 14, -351

Then upper marks might be  
tested.

OK

PHB

8/14/72



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

8-5: Circ. gas cut mud at 15,005'. PBTB 15,006'. Measured in hole with 2 7/8" tubing and 5 5/8" mill. Extremely bad storm during trip in. Top of liner at 14,360' (tubing measurement). Pumped and rotated mill thru liner top for 1 hr. Had some initial drag in liner and a place which would take some weight and move. Suspect piece of rubber was on top of liner. Went to bottom 15,017' (tubing measurement). Drilled 1' cement to tear up rubber. (Believe have poor tubing strap because of storm and tubing badly tangled in derrick.) Will measure out of hole. Pumped bottoms up with extreme amt. of gas. Closed hydril. Put mud thru both degassers for 3 hrs. Gas decreased slightly, but mud still jumping 3' high in bell nipple. Pumped 2 hrs. Only moderate decline in gas situation. Began weighting up from 13.1# after 5 hrs. circulating. At 6 a.m. (after 8 hrs.) (bottoms up at 10 p.m. 8-4-72), well will not flow but mud blowing 2' to 3' high in bell nipple. Lost 25 bbls. volume in pits and pump strokes down from 52 to 24 (bit may be plugging). (Believe pit loss due to gas removal from system.)

8-6: Nippling down BOP's PBTB 15,006'. Circ. total 12 hrs. to clean up gas cut mud. Pulled 20 stands to 13,145'. Circ. 5 hrs. Mud leveled out and gas cutting discontinued. Strapped. Ran 15 stands back in hole. No obstruction. Strapped out of hole. Rigged up Dresser-Atlas. Perforated with 4" Jumbojet with 2 shots/ft. 14,820-14,920'. Began nipping down BOP's. Collar locator quit working after first run. Gel-Chem - Wt. 13.3#.

8-7: Nippling down 6" BOP's. PBTB 15,006'. Finished nipping down 10" BOP's. Installed 11", 10,000# x 7 1/16" - 10,000 Rector flange. Nippled up 6", 5,000# preventers. Went in hole to 14,786' with RTTS tool, reverse sub, S-nipple with Otis PN plug, 6' pup jt., and Otis sliding sleeve. Testing every 20 stands to 7000 psi. (Had one leak in pup jt.) Set RTTS tool at 14,780'. Closed rams. Tested annulus to 2000#. Okay. Began nipping down 6" BOP's. Brinkerhoff 0/292/53.

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

8-8: PBTB 15,006'. Pulling PN plug. Finished nipping down BOP's. Installed tree. Could not get enough movement to set packer under floor. Had to remove rotary tools to actuate tool. Set tool and tested tree and total string to 7000 psi. Pulled equalizing prong from PN plug with Camco wireline unit and 1 3/4" pulling tool. Attempted to pull PN plug. Could not get 2 5/16" pulling tool to fall in mud. Set RTTS tool at 14,785'. Opened reverse tool and displaced mud with water to RTTS tool. Rigged up and tested wireline lubricator. Started in hole with 2 5/16" pulling tool with 4000 psi pressure on tubing. Unable to get tool thru double pin sub at 33'. Tool jams in sub and will not go thru. O.D. of pulling tool 2.312"; I.D. 2 7/8" - PH-6 tubing - 2.323"; O.D. of packing on PN plug 2.313". Machined pulling tool down. Ran pulling tool and latched onto PN plug. Jarred on same for 10 min. Plug appeared to come loose.

8-9: Prep. to remove tree and install hydril. PBTB 15,006'. Pulled plug to 2019'. Plug stopped in PH-6 tubing. Jarred up. Could not move. Jarred down to drive plug down. Would not move. Took pull on plug and hooked up Dowell. Pressured to 1500 psi. Tubing pressure at 4000 psi. Began bleeding off tubing slowly. Bled to zero in 15 min. Could not pump in annulus. Jarring on plug. Pulled out of rope socket on retrieving tool for plug. (Ports on reverse sub may not be open or plugged.) Picked up 2' and turned to right. Attempted to open ports. Could not go down with tool. Apparently J-slots and ports plugged on tool, thus preventing slips from releasing. (Cannot obtain sufficient travel up due to tubing collar pulling into top of tree.) Bled tubing from 4700# in 15 min. Water - some gas. Hooked onto annulus. Pressured to 1500 psi. No response on tubing side. Attempted to open sleeve by rotating to right and picking up. (Eight turns to right, reciprocating up and down 4 to 5' in an attempt to work torque down to packer.) Collar below tree pulled into tubing head packoff. No indication of ports opening or packer releasing. Pressured up tubing side with 11 bbls. Pressured to 5000#. (Capacity of tubing from surface to plug is 12 bbls.) Pressure broke to 3750#. Pumped in at 2 B/M. Pumped total of 38 bbls. with pressure increasing to 7000#. Holding 6000#. Bled back 4 bbls. at 3500#. Bled pressure to 1800#. Ran wireline in 2 7/8" to perforate tubing. Tagged plug at 2019'. Opened tubing and choke at 5:45 a.m. with 3000# on tubing. Unloaded 38 bbls. mud, gas and water at 6 a.m. Well died. Flowing gas cut water. Well dead. No gas fumes with 8200' of water and gas hydrostatic over perfs (assuming all water hydrostatic is equal to 3560 psi over perfs). Pumped in 38 bbls. 18# mud. Max. press. 5250#. Bled back 5 bbls. Stopped flowing. Well dead. Brinkerhoff 0/292/55.

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

5-10  
Logging. PBTB 15,006'. Removed tree. Installed T.I.W. valve. Set BOP. Pulled RTTS packer loose. Pressure jumped from 0# to 1250# on 2 7/8" tubing. Pumped 6 1/2 bbls. of 18# mud in tubing. Pressured up to 4750#. Packer pumped up hole and set. Pulled packer loose. Pumped in 25 bbls. of 18# mud. Pressured up to 5000#. Packer had reset. Pulled packer loose. 2 7/8" tubing went on vacuum. Pulled up into 9 5/8" casing. Circ. 1 hr. Well dead. Pulled up to PH-6 to C-5 tubing cross-over. Recovered wireline tool. Circ. out large amts. of gas for 4 hrs. Pulled out of hole. Rigged up wireline truck. Ran Gamma Ray with Collar Locator. Have bridge in 7" liner at 14,806' (14' above perfs). Brinkerhoff 0/292/56.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

8-11  
Circulating at 15,006' PBD. Nipped up circulating head. Picked up 3½" kelly.  
Went in hole with 5 5/8" mill. Hit hard bridge at 14,887-14,889'. Washed to  
15,006'. Circ. and conditioned mud. Brinkerhoff 0/292/57.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLA  
(Other instructions  
verse side)

Form approved.  
Budget Bureau No. 42-R1424

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b> <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. <b>Utah 0577A</b>
1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR <b>Continental Oil Company</b>		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR <b>152 North Durbin, Casper, Wyoming 82601</b>		8. FARM OR LEASE NAME <b>Conoco-Federal 22</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  <b>600' FWL, 810' FSL</b>		9. WELL NO. <b>1</b>
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT <b>Wildcat</b>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>4833' GR, 4856' KB</b>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Section 22, T95-R20E</b>
		12. COUNTY OR PARISH <b>Uintah</b>
		13. STATE <b>Utah</b>

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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	
(Other) <b>Temporarily abandon</b>	<input checked="" type="checkbox"/>	(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.)\*

Perforated with 4" Jumbojet, 2 shots/ft., 14,820'-14,920'. Ran gamma ray with collar locator. Went in with packer and 2 7/8" tubing set at 14,785', installed mini-recorder at surface. Recorded an average of 24 MCF per day during 4½ hour period based on 14.65 psia. We plan to set a cement retainer and cement squeeze the top of the 7" liner (approximately 14,351') and also the perforated interval from 14,820' to 14,920'. Approximately 100 feet of cement plug will be placed on top of the retainer. The wellhead will be buttoned up and the well temporarily abandoned in this manner pending evaluation of shallower formations. The pits will be fenced and the location leveled and cleaned.

CONFIDENTIAL

APPROVED BY DIVISION OF  
OIL & GAS CONSERVATION  
DATE 8-15-72  
BY [Signature]

18. I hereby certify that the foregoing is true and correct  
SIGNED [Signature] TITLE Administrative Supervisor DATE 8-15-72

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

USGS (4) UOGCC (2) AFE File (2)



W. C. Blackburn  
 Division Manager  
 Production Department

Western Hemisphere Petroleum Division  
 Continental Oil Company  
 152 North Durbin  
 Pacific Western Life Building

RED CHANNEL FIELD

Conoco #22-1 Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
 Madison - 21,400'

8-12: Loading pipe with nitrogen at 15,006'. Circulated hole clean. Recovered large amounts of lost circulation material. Pulled up into 9 5/8" to circulate and stop gas cutting. Pulled out. Ran in hole with test tools. RTTS tool at 14,734' KB. Displacing mud with nitrogen at 7 a.m. 8-13: Flowing well. PBTD 15,006'. Finished displacing mud with nitrogen to 10,000' with 5200#; 7:45 a.m. 5/64" 5200#; 8:15 a.m. 5/64" 4650#; 10:05 a.m. 5/64" 3200#; 1:05 p.m. 5/64" 2400#; 4:05 p.m. 5/64" 1700#. 8-14: Pulling out of hole at 15,006'. Attached Halliburton mini-recorder. Recorded an average of 24 MCF/day during 4 1/2 hour period. 1/2" plate - Temp. 84 deg. F. -

10:30 a.m.	16#	25.1 MCF
10:46 a.m.	13#	22.8
11:02 a.m.	12#	21.9
11:18 a.m.	11#	20.9
11:34 a.m.	17#	25.8
11:49 a.m.	20#	28.0
11:50 a.m.	19#	27.3
11:58 a.m.	14#	23.7

Change Chart 2

12:00 noon	14#	23.7 MCF
12:16 p.m.	14#	23.7
12:32 p.m.	17#	25.8
12:48 p.m.	14#	23.7
1:04 p.m.	13#	22.8
1:20 p.m.	13#	22.8
1:28 p.m.	15#	24.5

Based on 14.65 psia - 60 deg. F. 60 specific gravity. No correction (factor 0.977 at 84 deg. F.). Went in hole with wireline. Tubing plugged at 14,820' (54' below packer). Pumped 105 bbl. 13.7#/gal. mud into tubing. Opened bypass. Had 400 psi differential on tubing. Circulated until tubing dead. Removed tree and pulled 7 stands. Gas bubble rose to surface. Shut down and circulated out gas cut mud for 3 hours. Started on out of hole. Gel Chem 13.7#. Brinkerhoff 0/292/60.

Conoco #22-1 Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
 Madison - 21,400'

8-15- Running in hole with Baker cement stinger on 2 7/8" tubing. PBTD 14,200'. Pulled tubing. Broke down tools. Removed 7" BOP. Installed Hydril 10" 1500 series. Rigged up Mc Cullough wireline and ran 9 5/8" gauge ring to 14,250'. Ran Baker Model "K" cast iron alloy cement retainer, set at 14,200' KB. Began running in hole with 2 7/8" stinger on 2 7/8" tubing. Brinkerhoff 0/292/61.

Conoco #22-1 Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
 Madison - 21,400'

8-16- Unbolting BOP at 14,200' PBTD. Finished running in hole with Baker cement retainer. Broke circulation. Stabbed into retainer. Established rate at 1 1/4 BPM at 6000 psi. Pulled out of retainer. Mixed 105 sacks Class "G" cement and 0.5% DAR retarder. Spotted cement slurry at retainer. Stabbed into retainer and displaced 75 sacks of cement through reatiner at 1 1/2 BPM with 6150 psi. Pulled out of retainer and spotted 35 sacks on top of Baker cement retainer. Circulated 1 hr. while rigging up. Lay down rig. Laid down all 2 7/8" Hydril tubing. Cleaning out cellar and unbolting BOP. Brinkerhoff 0/292/62.

8-17  
Conoco #22-1 - Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
Madison - 21,400'

Correction 8-16-72 report: Second sentence should read "finished running in hole with Baker cement stinger."

8-17: Tearing out rotary tools. Rig released 12:00 midnight on 8-16-72. Removed BOP. Installed 7" x 10,000# tubing head with two 2" outlets and blind flange on top. Laid down kelly and tree. Loaded out 3½" tubing and all rental tools. Dismantled satellite, BOP, manifolds, and lines. Brinkerhoff 0/292/63.

8-18  
Conoco #22-1 - Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
Madison - 21,400'

PBTD 14,200'. No report.

March 29, 1973

Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601

ATTENTION: W.C. Blackburn, Division Manager

Re: Well No. Conoco-Federal #22-1  
Sec. 22, T. 9 S, R. 20 E,  
Uintah County, Utah

Gentlemen:

This letter is to advise you that the Well Completion Report for the above referred to well is due and has not yet been filed with this office.

As said well was temporarily abandoned August 22, 1972, the time limitation for a well on a confidential status has lapsed. Consequently, it would be appreciated if you would complete the enclosed "Well Completion or Recompletion Report and Log", in duplicate, and forward them to this office at your earliest convenience in order that this data may be placed in open file.

Thank you for your cooperation with regard to the above.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE  
SUPERVISING STENOGRAPHER

:sd



W. C. Blackburn  
Division Manager  
Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Pacific Western Life Building  
Casper, Wyoming 82601  
(307) 234-7311

RED CHANNEL FIELD

8-21 Conoco #22-1 - Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
Madison - 21,400'

PBTD 14,200'. No report.

RED CHANNEL FIELD

8-22 Conoco #22-1 - Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
Madison - 21,400'

PBTD 14,200'. Temporarily abandoned pending negotiation with working interest owners concerning that portion of the hole above the base of the Castle Gate at 10,896'. A completion report for Conoco's portion of the hole will follow. Dropped from report pending completion report.

8-24  
RED CHANNEL FIELD

Conoco #22-1 - Federal (Expl.) Conoco 1.0000000 - CONOILLTD (Confidential)  
Madison - 21,400'

Location: 600' FWL, 810' FSL, SW SW Sec. 22, T9S, R20E, Uintah County, Utah. API No. 43-047-30111. AFE No. 12-20-1855. TD 20,053', PBT 14,002'. Elevations: 4833' GR, 4856' KB, and 23' RBM. Spudded 8-28-71. Rig released 8-16-72.

DST #1 - 11,925-12,130': IHHP 6418#, ISIP 1592#, FSIP 1519#, FHHP 6382#. BHT 198° F. Recovered 2000' heavily mud and gas cut water cushion. Sample chamber - 3 cu. ft. dry gas, no fluid, 950 psi. Gas is 97% methane.

DST #2, 2A and 2B - unsuccessful.

DST #3 - 15,709-15,800'. BHT 288° F. 8 hours reversing out cushion and circulating out gas kick from above DST packers.

DST #4 - 19,326-20,053': Recorders at 19,289', 19,293', and 19,385'. Pressure from bottom recorder. IHHP 13,035#, ISIP 10 hrs. 18 min. - 9386#, FSIP not taken, FHHP 12,689#. BHT 312° F. Recovered 9800' water cushion, 1400' mud, and 8080' gas cut salty sulfurous formation water.

DST #5 - 17,350-17,581'. Moderate blow throughout, water cushion did not surface. FSI 16 hrs. Annulus bubbled throughout test. Recovered 113 bbl. water cushion, 16 bbls. rat hole mud (below packers), 87 bbls. muddy filtrate and formation water (10,000 ppm chlorides), and 64 bbls. mud.

DST #6 - 16,669-16,905': IHHP 11,449#, FSIP 8833#. BHT 286° F. Recovered 7100' of water cushion and 800' of water cut mud (possibly some formation water). Recovered 1700 cc of muddy filtrate and/or formation water in the sample chamber.

Schlumberger ran the following logs:

Dual Laterolog from 14,587' to surface pipe at 1725'.  
BHC Sonic-Gamma with Caliper from 13,655' to 1720'.  
Ind. FDC-Neutron from 12,600' to 1720'. (FDC stopped working at 4000'.)  
Nuclear Density from TD to 14,658'  
Dual Induction from TD to 14,658'  
BHC Sonic-GR from TD to 14,658'  
Gamma Ray, Sonic Caliper and Compressional Amplitude. (Loggers TD 17,548')  
Dual Ind. Laterolog and Density  
Dual Ind. Laterolog from 19,325' to 17,542'. Attempted to run FDC-Gamma Ray-CNP. Equipment failed. Obtained Non-Compensated FDC from 19,340' to 17,542'. Did not obtain Gamma CNP portion.  
Borehole Comp. Sonic-Gamma-Caliper from 19,346' to 17,546'.  
Caliper from 17,500' to 14,666'.

Log Tops:

Mesaverde	8,032'	Dakota	15,697'
Mancos	10,252'	Jurassic	15,804'
Top of Castlegate	10,630'	Carmel	16,856'
Base of Castlegate	10,896'	Navajo	16,955'
<b>Emery</b>	<b>11,805-12,010'</b>	<b>Weber</b>	<b>18,299'</b>
<b>Frontier</b>	<b>15,343'</b>	<b>Red Wall</b>	<b>19,245'</b>

8-24  
**Conoco #22-1 - Federal - Cont'd.**

Temporarily abandoned as follows:

19,361-19,161'	-	100 sacks Class "G" cement
18,350-18,250'	-	50 sacks Class "G" cement
17,850-17,581'	-	80 sacks Class "G" cement
17,186-16,905'	-	90 sacks Class "G" cement
16,700-16,500'	-	90 sacks Class "G" cement
15,025-15,006'	-	25 sacks Class "G" cement

Cement retainer set at 14,002'.

Will drop from report pending negotiations with working interest owners concerning that portion of the hole above the base of the Castlegate at 10,896'.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0577A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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  GAS WELL  OTHER

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR

Continental Oil Company

8. FARM OR LEASE NAME

Conoco-Federal 22

3. ADDRESS OF OPERATOR

152 North Durbin St., Casper, Wyo. 82601

9. WELL NO.

1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface

600' FNL, 810' FEL

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 22, T9S, R20E

14. PERMIT NO.

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

4833' GR 4856' RB

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

Temporary Abandonment

(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.)\*

Set Baker Model "K" CI cement retainer at 14,200', displaced 75 sacks cement through retainer and spotted 35 sacks on top of retainer. Installed 7" x 10,000# tubinghead with 2" outlets and blind flange on top. Rig released 12:00 midnight 8-16-72. Well temporarily abandoned pending evaluation of shallower formations. ✓

Temporary Abandonment

19,361-19,161' - 100 sacks Class "G" cement  
 18,350-18,250' - 50 sacks Class "G" cement  
 17,850-17,581' - 80 sacks Class "G" cement  
 17,186-16,905' - 90 sacks Class "G" cement  
 16,700-16,500' - 90 sacks Class "G" cement  
 15,025-15,006' - 25 sacks Class "G" cement  
 Cement retainer set at 14,200' w/35 sacks on top

USGS(4) UOGCC(2) File(2)

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

SIGNED

*J. R. Weber*

TITLE Administrative Supervisor

DATE

4/11/73

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

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.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
**Continental Oil Company**

3. ADDRESS OF OPERATOR  
**152 North Durbin St., Casper, Wyo. 82601**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface **600' FWL, 810' FSL**  
At top prod. interval reported below  
At total depth

5. LEASE DESIGNATION AND SERIAL NO.  
**Utah 0577A**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Conoco-Federal 22**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
**Sec. 22, T9S, R20E**

12. COUNTY OR PARISH  
**Uintah**

13. STATE  
**Utah**

14. PERMIT NO. DATE ISSUED

15. DATE SPUDED **8-28-71** 16. DATE T.D. REACHED **6-3-72** 17. DATE COMPL. (Ready to prod.) **Aband - Not plugged** 18. ELEVATIONS (DF, RKB, BT, GR, ETC.)\* **4833' GR 4856' KB** 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD **20,053'** 21. PLUG, BACK T.D., MD & TVD **14,200'** 22. IF MULTIPLE COMPL., HOW MANY\* **→** 23. INTERVALS DRILLED BY **→** ROTARY TOOLS **0-20,053'** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
**None**

25. WAS DIRECTIONAL SURVEY MADE  
**Yes**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**See attached**

27. WAS WELL CORED  
**Yes**

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20 in.	94	1,720'	26 in.	2850 sacks	
9 5/8	40-43.5	14,666'	12 1/4	2045 sacks - 2 stages	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
7"	14,351'	15,073'	210	

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

**14,820-14,920' w/1-0.42 Ceram-Jet 23 gram every 4'**  
**14,820-14,920' w/4" Jumbojet - 2 JSPP**

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
14,820-14920'	6000 gal. 2% KCl water, 50# ADOMITE AQUA and 30# J-133/1000 gal.

33. PRODUCTION

DATE FIRST PRODUCTION **Dry** PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) **Temporarily abandoned.** WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Solid, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED J. L. [Signature] TITLE Administrative Supervisor DATE 4/11/73

\*(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 12: Indicate which elevation is used as reference (where not otherwise shown) for each measurement given in other spaces on this form and in any attachments. Items 22 and 23: If this well is completed for separate production from more than one interval zone (including completion), so state in item 22, and in item 23 show the producing interval or intervals, top(s), bottom(s) and bottom(s) (if any) for only the interval requested in item 22. 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 27: "Stacks General": 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 23 above.)

**37. SUMMARY OF ZONES:**

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENT THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH, PRESSURE, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

FORMATION	FORMATION		DESCRIPTION, CONTENT, ETC.	U.S. GEOLOGIC MARKERS
	TOP	BOTTOM		
Log Tops:				
Mesaverde	8,032'	Dakota	15,697'	
Mancos	10,252'	Jurassic	15,804'	
Top of Castlegate	10,630'	Carmel	16,856'	
Base of Castlegate	10,896'	Navajo	16,955'	
Emery	11,805-12,010'	Weber	18,299'	
Frontier	15,343'	Red Wall	19,245'	
DST #1 - 11,925-12,130': IHHP 6418#, gas cut water cushion. Sample chamber		ISIP 1592#, FSIP 1519#, FHHP 6382#. BHT 193° F. Recovered 2000' heavily mud and - 3 cu. ft. dry gas, no fluid, 950 psi. Gas is 97% methane.		
DST #2, 2A and 2B - unsuccessful		8 hours reversing out cushion and circulating out gas kick from above DST packers.		
DST #3 - 15,709-15,800': BHT 288° F.				
DST #4 - 19,326-20,053': Recorders at ISIP 10 hrs. 18 min. - 9386#, FSIP not taken, FHHP 12,689#. BHT 312° F. Recovered 8080' gas cut salty sulfurous formation water.		Pressure from bottom recorder. IHHP 13,035#, Recovered 9800' water cushion, 1400' mud, and		

(Continued next page)

APR 17 1973

P  
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Form 9-330

Well Completion or Recompletion Report and Log

Conoco-Federal 22 No. 1

4/11/73

Drill Stem Tests - Cont'd.

DST #5 - 17,350-17,581': Moderate blow throughout, water cushion did not surface. FSI 16 hrs. Annulus bubbled throughout test. Recovered 113 bbl. water cushion, 16 bbls. rat hole mud (below packers), 87 bbls. muddy filtrate and formation water (10,000 ppm chlorides), and 64 bbls. mud.

DST #6 - 16,669-16,905': IHHP 11,449#, FSIP 8833#. BHT 286° F. Recovered 7100' of water cushion and 800' of water cut mud (possibly some formation water). Recovered 1700 cc of muddy filtrate and/or formation water in the sample chamber.

Schlumberger ran the following logs:

Dual Laterolog from 14,587' to surface pipe at 1725'.

BHC Sonic-Gamma with Caliper from 13,655' to 1720'.

Ind. FDC-Neutron from 12,600' to 1720'. (FDC stopped working at 4000'.)

Nuclear Density from TD to 14,658'

Dual Induction from TD to 14,658'

BHC Sonic-GR from TD to 14,658'

Gamma Ray, Sonic Caliper and Compressional Amplitude. (Loggers TD 17,548')

Dual Ind. Laterolog and Density

Dual Ind. Laterolog from 19,325' to 17,542'. Attempted to run FDC-Gamma Ray-CNP.

Equipment failed. Obtained Non-Compensated FDC from 19,340' to 17,542'. Did not obtain Gamma CNP portion.

Borehole Comp. Sonic-Gamma-Caliper from 19,346' to 17,546'.

Caliper from 17,500' to 14,666'.

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0577A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Conoco-Federal 22

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Section 22, T9S, R20E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR

Continental Oil Company

3. ADDRESS OF OPERATOR

152 North Durbin Street, Casper, Wyo. 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

600' FNL, 810' FEL

14. PERMIT NO.

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

4833' Gr. 4856' RB

16. 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

Temporary Abandonment

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(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.)\*

The subject well was temporarily abandoned August 16, 1972, as follows:

19,361-19,161'	-	100 sacks Class "G" cement
18,350-18,250'	-	50 sacks Class "G" cement
17,850-17,581'	-	80 sacks Class "G" cement
17,186-16,905'	-	90 sacks Class "G" cement
16,700-16,500'	-	90 sacks Class "G" cement
15,025-15,006'	-	25 sacks Class "G" cement
Cement retainer set at 14,200' w/35 sacks on top		

It is now proposed to set a cement plug 1100-600', install a blind flange with a valve on top of the casing, and clean and reseed the location as necessary.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: Sept. 26, 1975

BY: P.H. Ansell

USGS(4) UOGCC(2) CAN File

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

SIGNED

J.E. Whitson for

TITLE Division Manager

DATE 9/19/75

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

6-24: Prep. to pull out of hole to run DST #6. TD 20,053'. PBDT 16,905'. Tagged first cement stringer at 16,830'. Rotated and washed thru stringers to 16,890'. Cement drilled firmer from 16,890' to 16,905'. Samples soft and not set up. WOC and circulated 22½ hrs. SET down 50,000# - drill string weight. Cement plug held okay. Gel-Chem - Wt. 13.5#.

6-25: Circ. and waiting to pull out for DST #6. Circ. and waited on cement to 11 a.m. Pulled out of hole. Found 4" x ½" hole (in slip area) in 5", 19.50#, Grade "E" pipe at approx. 9000'. Ran back in hole after replacing jt. Circ. and cond. heavily gas cut mud off bottom. Circ. to space out timing for DST. (Found one badly washed out area under drill pipe rubber. Also, drill pipe rubgers all badly gas cut and popping open when on surface. Gel-Chem - Wt. 13.5#.

6-26: DST #6 - 16,669-16,905'. Circ. 4 hrs. to 11 a.m. Trip out for test tools. Rigged up test tools and tripped in to 9 5/8" casing shoe (14,665'). Filled drill pipe with 7100' of water cushion. Waited 3 hrs. to space out time for DST #6 at 9 5/8" casing shoe. Rigged up surface testing equipment. Trip to bottom. Opened test tool at 5:55 a.m. 6-26-72. Started with a weak blow, increased to moderate blow. Gel-Chem - Wt. 13.5#; Vis. 55; WL 6.0 cc; FC 2/32; pH 10.8; gel strength ini./10 min. 2 / 7; trace of oil; 21% solids; ¼ of 1% sand; salinity 3000 ppm; PV 36; Yp 14. Cum. mud costs: \$505,729. Brinkerhoff 0/303/0.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

Circulating. Prep. to plug back. TD 20,053', PBDT 16,905'. 7 a.m. to 1 p.m. - DST #6. Rigged down manifold. Jarred to get tools loose. Trip out to the water cushion. Reversed out. Trip out of hole. Laid down and loaded out DST tools.

Laid down 5 3/4" drill collars in anchor. Trip in hole open ended and broke circulation. DST #6 - 16,669-16,905'. Bottom pressure bomb - 16,904' (48 hr.); middle pressure bomb - 16,639' (48 hr.); top pressure bomb - 16,635' (72 hr.). Rec. 7100' of water cushion and 800' of water cut mud (possibly some formation water). Rec. 1700 cc of muddy filtrate and/or formation water in the sample chamber. Top bomb:

IHHP	11449 psi	
IFP - 4 hrs. 15 min.	3480 to 3738 psi	
SI 3 hr.	8833 psi	(Field measurements)
BHT	286 deg. F.	

Gel-Chem - Wt. 13.5#; Vis. 55. Cum. mud costs: \$505,729. Brinkerhoff 0/304/0.

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

WOC. TD 20,053', PBDT 15,000'. 8 3/4" hole. Circ. and cond. hole 4 hrs. Prep. to plug back. Spotted plug from 16,700' to 16,500' - 90 sax Class "G", 1% CFR-2, and 1% HR-12. Pulled up to 15,250' and spotted plug from 15,250' to 15,000' - 120 sax Class "G", 40% SSA-1, 18% NaCl, 1% CFR-2, and 0.75% HR-12. Pulled out of hole. Picked up drill collars and bit and ran to casing shoe at 14,665'. WOC and circ. hole. Last plug down at 3 p.m. 6-28-72. Gel-Chem - Wt. 13.5#; Vis. 92; WL 6.2 cc; FC 2/32; pH 10.6; gel strength ini./10 min. 3 / 12; trace of oil; 21% solids; 1/2 of 1% sand; salinity 3000 ppm; PV 50; Yp 36. Cum. mud costs: \$506,279. Brinkerhoff 0/292/13 (corrected).

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

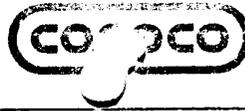
TD 20,053', PBDT 15,100'. Running 7" liner. WOC 8 hrs. Ran on in hole and hit first stringers at 14,880'. Drilled increasingly firmer cement to 14,950'.

Dressed off to 15,100'. Circulated and cond. hole 3 1/2 hrs. Pulled out of hole. Laid down 4 1/2", 16.6# drill pipe and 4 1/2" heavy wt. drill pipe. Rigged up and began running 7" liner. Gel-Chem - Wt. 13.5#; Vis. 70; WL 6.0 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 3 / 18; trace of oil; 21% solids; 1/2 of 1% sand; salinity 3000 ppm; PV 40; Yp 25. Cum. mud costs: \$506,510. Brinkerhoff 0/292/14.

**Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)**  
**Madison - 21,400'**

TD 20,053', PBDT 14,987'. WOC. Finished picking up remainder of 7" liner. Liner detail as follows: 17 jts. 7", 35# Hydril super flush joint "P" to 15,073', float collar at 15,032'. Landing collar at 14,987'. Top of tie-back sleeve at 14,351'. Liner includes a BOT type "V" float shoe and a float collar on the bottom joint; a drillable shear-out catcher sub on the second joint up from bottom; and a BOT Hydraulic set multicone hanger, BOT Type-"SS" liner packer with tie-back sleeve, one centralizer 250' below the top of the liner to centralize the liner inside the bottom of the 9 5/8" casing. Circ. for 1 1/2 hrs. to clear drill pipe. Dropped setting ball. Set

liner hanger. Cemented hanger as follows: Pumped 10 BW at 5 B/M followed with 500 gal. "Mud Flush" at 5 B/M followed with 5 BW at 5 B/M. Cemented with 210 sax Class "G" and 40% SSA-1, 18% NaCl, 1% CFR-2, and 0.75% HR-12. Pumped cement at 5 B/M. Displaced cement with mud at 5 B/M. Slowed to 3 B/M when cement reached shoe and completed job at 3 B/M. Full circulation throughout job. Bumped plug with 3000 psi. Checked for flow back. Flowed back 1 1/2 to 2 bbls. Rotated to right and set liner packer. Pulled out of hole. Picked up 8 1/2" bit, casing scraper, and 6 drill collars. Tripped in to 13,533'. Circulating and WOC. (Halliburton Cementers) Brinkerhoff 0/292/15. Used Bit #121 - Sec. M4L - to clean out liner top. Cum. mud costs: \$506,510.



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

RED CHANNEL FIELD - Uintah Co., Utah

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

6-17: Pulling out after setting plugs. TD 20,053', PBDT 17,550'. Ran caliper 17,500' to 14,666'. Measured in hole to 19,340' - 5½ hrs. circ. gas on choke. Plug #1 - 19,361-19,161' - 100 sax Class "G", 1% CFR-2, and 1% HR-12; Plug #2 - 18,350-18,250' - 50 sax as above; Plug #3 - 17,850-17,550' 80 sax Class "G", 40% salica flour, 18% salt, 1% CFR-2, ¾ HR-12 and 10 bbls. "Mud Flush" ahead. Finished cementing at 7 a.m. 6-17-72. Gel-Chem - Wt. 13.3#.

6-18: Trip in to drill cement. Trip out after plugging. Picked up bottom hole assembly and bit. Trip in to 14,524'. Cut drilling line. Circ. 10½ hrs. while WOC. Started in hole to tag cement. Top stringer at 17,264'. Gel-Chem - Wt. 13.3#.

6-19: Running DST #5. PBDT 17,581'. 8½" hole. Drilled cement stringer 17,295' to 17,506'. Drilled hard cement from 17,506' to 17,581'. Circ. out cement cuttings for 3½ hrs. Trip out. Picked up DST tools and ran in hole with same. Filled with 7600' water cushion. Rigged up test manifold and head. Opened tool at 6:05 a.m. Fair to moderate blow. Shut in at 6:15 a.m. Bottom packer at 17,350'. Anchor pipe assembly to 17,581'. Gel-Chem - Wt. 13.2#; Vis. 89; WL 8.8 cc; FC 2/32; pH 9.9; gel strength ini./10 min. 4 / 12; trace of oil; 21% solids; ¾ lf 1% sand; salinity 3200 ppm; PV 52; Yp 38. Cum. mud costs: \$500,377. Brinkerhoff 0/296/0.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

6-20: Prep. to pull DST #5. TD 20,053', PBDT 17,581'. DST #5 - 17,350-17,581'. Initial flow - 10 min. - fair to moderate blow; initial shut-in - 80 min.; final flow - 8 hrs. - moderate blow throughout, water cushion did not surface; final shut-in - 16 hrs. Annulus bubbled throughout test. Gel-Chem - Wt. 13.2#; Vis. 89. Cum. mud costs: \$500,377. Brinkerhoff 0/297/0.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

6-21:  
Breaking out DST tools. TD 20,053', PBDT 17,350'. Completed final shut in (total of 16 hrs.). Attempted to release packers. Would not come free. Rotated to release safety joint. Reverse sub partially opened. Annulus level fell. Required 64 bbls. mud to fill. Successfully released from anchor safety jt. Dropped bar and opened shear reverse sub. Reversed out 4 hrs. Recovered 113 bbls. water cushion, 16 bbls. rat hole mud (below packers), 87 bbls. muddy filtrate and formation water (10,000 ppm chlorides), and 64 bbls. mud. Picked up kelly and circulated out heavily gas cut mud. Tripped out of hole. Breaking out DST tools (good sample recovery from chamber). Fish left in hole: 7 spiral drill collars, pressure bomb and temperature bomb. (Total 231') Top of fish 17,350'. Gel-Chem - Wt. 13.1#; Vis. 78; WL 8.4 cc; FC 2/32; pH 9.9; gel strength ini./10 min. 3 / 10; trace of oil; 20% solids; ½ of 1% sand; salinity 3200 ppm; PV 45; Yp 30. Cum. mud costs: \$500,757. Brinkerhoff 0/298/0.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

6-22:

Pulling out of hole after setting cement plug. TD 20,053', PBDT 16,837'. Completed breaking out and laying down DST tools. Recovered dark, brackish water in sampler. Pressure measurements - bottom bomb at 17,320':

IFP	3832 to 4081#
ISIP	9915#
FFP	4081 to 5198#
FSIP	No good as tool rotated too far.

Top bomb at 17,316':

IFP	3812 to 3986#
ISIP	9857#
FFP	3986 to 5151#
FSIP	No good as tool rotated too far

Trip in to 14,665' (casing shoe). Cut drilling line and circ. out gas. Trip on in to PBDT at 17,350'. Circ. and cond. heavily gas cut mud for 9 hrs. Rigged up Halliburton. Set plug from 17,186' to 16,836': 90 sax Class "G", 40% silica flour, 18% salt, 1% CFR-2, and 3/4 of 1% HR-12. Plug in place at 5 a.m. 6-22-72. Gel-Chem - Wt. 13.2#; Vis. 85; WL 6.0 cc; FC 2/32; pH 10.5; gel strength ini./10 min. 3 / 9; 20% solids; 1/2 of 1% sand; salinity 3000 ppm; PV 45; Yp 25. Cum. mud costs: \$501,760. Brinkerhoff 0/299/0.

Conoco #22-1 Federal (Expl.) Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

6-23:

Prep. to drill cement and raise mud weight. TD 20,053', PBDT 16,837'. Tripped out of hole. Trip in to 9 5/8" casing shoe at 14,665'. 14 1/2 hrs. circ. and trip to top of cement. Gel-Chem - Wt. 13.2#; Vis. 89. Cum. mud costs: \$500,377. Brinkerhoff 0/300/0.



Production Department

Western Hemisphere Petroleum Division  
Continental Oil Company  
152 North Durbin  
Casper, Wyoming 82601  
(307) 234-7311

**RED CHANNEL FIELD - Uintah Co., Utah**

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
Madison - 21,400'

6-10: Breaking down tools. Depth 20,053'. Pulled out and recovered slick 6½" drill collars and two 6¼" spiral drill collars. Laid down top 6½" slick and bottom two spiral drill collars (had backoff shots fired in them). Picked up Bowen 7 5/8" casing spear with circ. pack-off and ran in to 14,600'. Circ. 1 hr. Cut drlg. line. Ran to top of wash pipe at 19,346'. Circ. out gas. Speared into top of wash pipe. Circ. and jarred on fish 1 hr. Bumping down with 50,000# and jarring up 70,000#. Fish appeared to come loose. Chained out of hole. Found 4½" pin broken in Bowen bumper sub. Left 1 Bowen bumper sub, hydraulic jars, and spear in top of wash pipe. Top of fish at 19,346'. Gel-Chem - Wt. 13.1#.

6-11: Pulling out to log. Depth 20,053'. 8½" hole. Ran in hole with 7 5/8" x 5 3/4" overshot and bumper sub. Circ. at 14,600' for 1½ hrs. Ran to 19,350'. Circ. and cond. mud for 6 hrs. Latched onto bumper sub and spear. Released spear. Pulled out of hole. Strapped out. Recovered bumper sub, Johnston jars and spear. Prep. to log. Top of 7 5/8" fish 19,361'. Top of drilling assembly fish 19,546'. Gel-Chem - Wt. 13.1#

6-12: Circ. for DST #4. Depth 20,053'. 8½" hole. Ran Schlumberger Dual Ind. Laterolog from 19,325' to 17,542'. Attempted to run FDC-Gamma Ray-CNP. Equipment failed. Obtained Non-Compensated FDC 19,340-17,542'. Did not obtain Gamma CNP portion. Ran Borehole Comp. Sonic-Gamma-Caliper from 19,346' to 17,546'. Ran in hole with bit to 14,650'. Circ. gas. Cut mud for 1½ hrs. Ran on to 19,345'. Circ. for DST #4. Mud heavily gas cut and requires circulating thru choke. Bit #116 - RR HTC J-88 - circ. and cond. hole. 10 6¼" drill collars; pump size - 5½" x 18"; 54 SPM; 325 GPM; PP 950 psi; bottom hole assembly - bit - 6¼" (10) spiral drill collars. Gel-Chem - Wt. 13.1#; Vis. 70; WL 6.4 cc; FC 2/32; pH 10.2; gel strength ini./10 min. 2 / 12. Cum. mud costs: \$491,097. Brinkerhoff 0/289/0.

**Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)**  
Madison - 21,400'

6-13:

Trip in with DST tool for DST #4. Depth 20,053'. 8½" hole. Test interval to be from 19,284' to 20,053'. 10 6¼" drill collars; 5½" x 18" pump; 54 SPM; 325 GPM; PP 950 psi; bottom hole assembly - bit - 10 6¼" drill collars. Gel-Chem - wt. 13.1#; vis. 67; WL 4.3 cc; FC 2/32; pH 10.6; gel strength ini./10 min. 2 / 12; 2% oil; 19% solids; ½ of 1% sand; salinity 3200 ppm; PV 40; Yp 30. Cum. mud costs: 492,839. Brinkerhoff 0/290/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

6-14:

Depth 20,053'. 8½" hole. DST #4 - 19,326-20,053'. Ran in hole with DST tool with bottom packer at 19,284'. 9800' water cushion. Set down on top of fish at 19,545' with 50,000#. Tool opened at 10:21 a.m. 6-13-72 on 3/16" choke. Fish began moving to bottom immediately. Followed fish with DST tools and set packer at 19,326'. Re-opened tool at 10:35 a.m. for initial flow period. Had weak blow in 1 min., increasing to strong blow in 5 min. Continued initial flow period with strong blow for 5 hrs., decreasing to weak blow in 9 hrs. No water cushion or hydrocarbons to surface. Shut in tool at 7:30 p.m. for 10½ hr. ISI period. Re-opened tool for final flow at 5:57 a.m. 6-14-72 with medium blow. Decreased to weak blow by 7:00 a.m. Monitored entire flow on test with Chromatograph - all air. Annulus has continued to bubble strongly since initial setting of tool. Brinkerhoff 0/291/0. Cum. mud costs: \$492,839.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

6-15:

Circ. and cond. mud at 14,650'. Present TD 20,053'. 8½" hole. DST #4 - 19,326-20,053'. Recorders at 19,289', 19,293', and 19,385'. Pressure data from bottom recorder: IHP 13,035#; IFP 9 hrs. 4 min. - 5159 to 8873#; ISIP 10 hr. 18 min. 9386#; FFP - 2 hrs. 6 min. - 8873# to 9117#; FSIP not taken; FHP 12,689#; BHT 312° F. Recovered 9800' water cushion, 1400' mud, and 8080' gas cut salty sulfurous formation water. Made up fishing tools for washover string. Well flowing mud while making up tools and also while running to 14,650'. Broke circulation. Circ. out heavily gas cut mud (mud wt. cut to 12.0#/gal.) for 2 hrs. with well on choke. Mud still heavily gas cut. Cum. mud costs: \$492,839. Brinkerhoff 0/292/0.

Conoco #22-1 Federal (Expl.) - Conoco 1.000000 - CONOILLTD (Confidential)  
Madison - 21,400'

6-16:

Running Velocity Survey. Depth 20,053'. 8½" hole. Conditioned hole at 14,650' for 1 hr. Ran to top of fish at 19,361'. Circ. out gas thru choke for 4 hrs. Hooked onto fish and jarred up and bumped down for 2 hrs. Fish did not move. Released from fish. Pulled out of hole. Rigged up Schlumberger and began running Velocity Survey. Gel-Chem - Wt. 13.0#; Vis. 80. Cum. mud costs: \$492,839. Brinkerhoff 0/293/0.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 0577A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Conoco-Federal 22

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 22, T9S, R020E

12. COUNTY OR PARISH 13. STATE

Uintah Utah

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  GAS WELL  OTHER  DRY HOLE

2. NAME OF OPERATOR  
Continental Oil Company

3. ADDRESS OF OPERATOR  
152 North Durbin Street, Casper, Wyoming

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

600' FNL, 810' FEL

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4833' GR, 4856' KB

16. 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) Temporary Abandonment   
REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

(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.) \*

The subject well was temporarily abandoned 8/16/72 as follows:

19361-19161' - 100 sacks Class "G" Cement  
18350-18250' - 50 sacks Class "G" Cement  
17850-17581' - 80 sacks Class "G" Cement  
17186-16905' - 90 sacks Class "G" Cement  
16700-16500' - 90 sacks Class "G" Cement  
15025-15006' - 25 sacks Class "G" Cement

Cement retainer set at 14,200' with 35 sacks on top. The well now has an additional plug set 12/3/75 at 564'-1064' with 185 sacks of Class "G" Cement. In addition, the cellar has been filled in and the location cleared.

USGS(4) UOGCC(2) CAN File

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

SIGNED T.C. Thompson

TITLE Administrative Supervisor

DATE January 6, 1976

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

K
PI  
**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

Utah 05774

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Conoco-Federal 22

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 22 - T9S-R20E

12. COUNTY OR PARISH | 13. STATE

Unitah

Utah

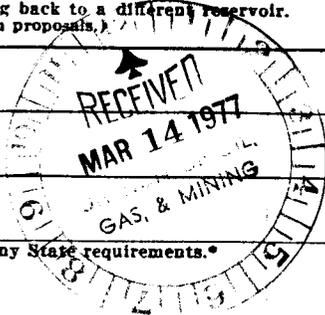
**SUNDRY NOTICES AND REPORTS ON WELLS**  
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL  GAS WELL  OTHER  **Dry Hole**

2. NAME OF OPERATOR  
**Continental Oil Company**

3. ADDRESS OF OPERATOR  
**152 N. Durbin, Casper, Wyoming**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface  
**600 FNL, 810 FEL**



14. PERMIT NO. | 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4833' GRD, 4856' KB

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"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <u>Lease Rehabilitation</u> <input checked="" type="checkbox"/>	

(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.)\*

In compliance with Mr. John M. Dennis' letter of January 28, 1977, the additional work requested has been completed on this location, and the location is ready for re-inspection.

USGS(3) UOGCC(2) FILE

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

SIGNED JC Thompson

TITLE Administrative Supervisor

DATE March 9, 1977

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

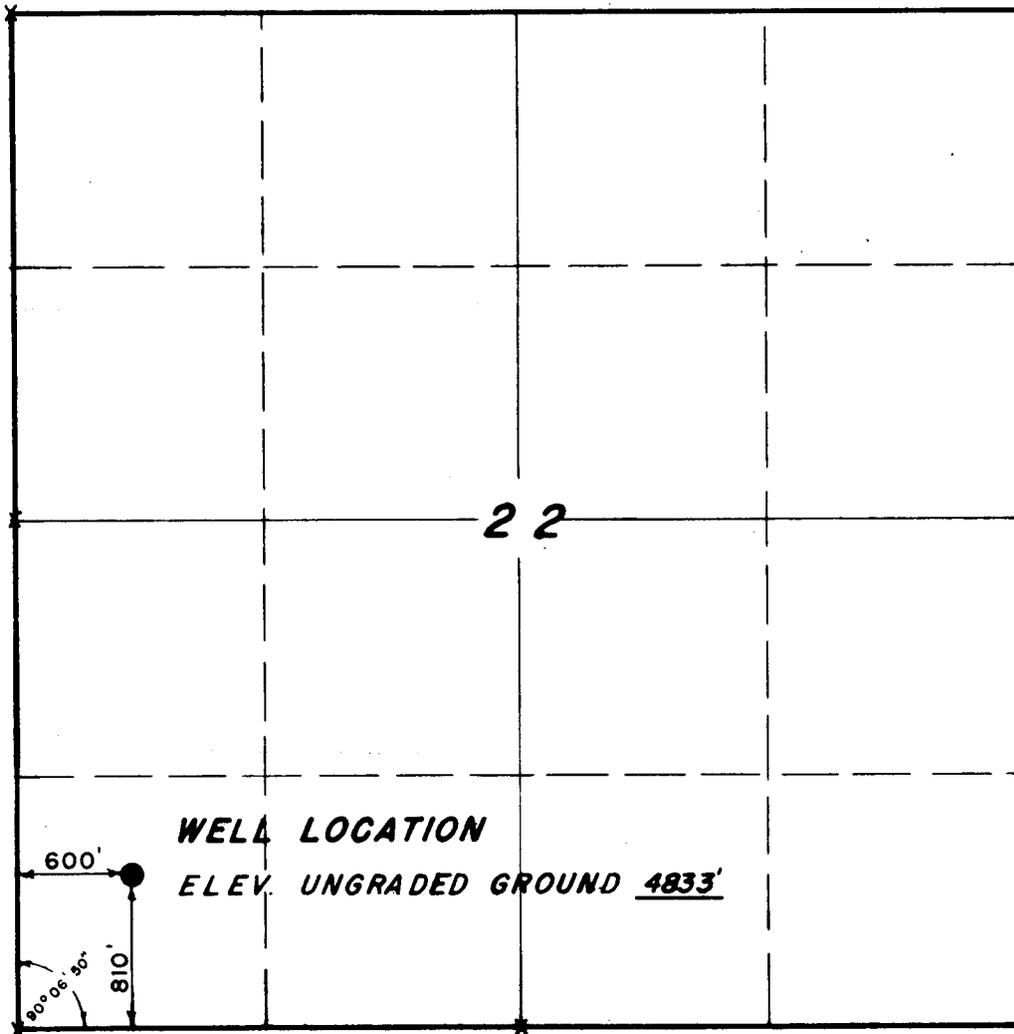


T9S, R20E, S.L.B.&M.

PROJECT

CONTINENTAL OIL COMPANY

Well location located as shown in the  
SW 1/4 SW 1/4 Section 22, T9S, R20E,  
S.L.B.&M. Uintah County, Utah.



X = Section Corners Located (BRASS CAPS)  
NEW GLO SURVEY (1968), NO TOWNSHIP PLAT AVAILABLE  
AS OF JULY 1971.



DIVISION OF  
OIL, GAS & MINING

REGISTERED  
MAY 5 1980

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*Lawrence C. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO 3137  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX Q - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 28 July, 1971
PARTY L.C.K. R.K.	REFERENCES GLO Corners
WEATHER HOT	FILE CONTINENTAL OIL CO.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**DUPLICATE**

5. LEASE DESIGNATION AND SERIAL NO. U-0577-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO. Conoco Federal 22-1

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA Sec. 22, T9S, R20E, S.L.M.

12. COUNTY OR PARISH Uintah

13. STATE Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL OIL WELL  GAS WELL  OTHER Re-enter SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR Gilman A. Hill

3. ADDRESS OF OPERATOR 6200 Plateau Drive, Englewood, Colorado 80110

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
At surface 600' FWL - 810' FSL, Sec. 22, T9S, R20E, S.L.M.  
At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\* 32 miles South, from Ft. Duchesne, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE 2091.18

17. NO. OF ACRES ASSIGNED TO THIS WELL 160

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH 20,053

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4833 Ground

22. APPROX. DATE WORK WILL START\*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
*				
*				

\* See attached workover & re-evaluation program for existing condition of well. (Item 3.0, Page 2)

Propose to re-enter well, cleanout, test, and re-evaluate, see attached work-over and re-evaluation program for detailed information.

State of Utah, Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

DIVISION OF OIL, GAS & MINING

RECEIVED  
OIL, GAS & MINING  
JUN 02 1980

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Gilman A. Hill TITLE President DATE 4/10

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE FOR E. W. GUYNN DISTRICT ENGINEER DATE JUN 02 1980  
APPROVED BY WT Martin TITLE DATE  
CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY \*See Instructions On Reverse Side

Utah Oil & Gas

Oil and Gas Drilling

EA #415-80

United States Department of the Interior  
Geological Survey  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, Utah 84104

Usual Environmental Analysis

Date: May 23, 1980

Operator: Gilman A. Hill                      Re-enter    Well Name and No.: Conoco 22-1  
Location: 600' FWL & 810' FSL              Sec.: 22      T.. 9S R.: 20E  
County. Uintah                                  State: Utah      Field/Unit: Wonsit Valley  
Lease No.: U-0577-A                              Permit No.: N/A

Joint Field Inspection Date: May 22, 1980

Prepared By: Craig Hansen

Field Inspection Participants, Titles and Organizations:

Craig M. Hansen                                  U.S.G.S. - Vernal, Utah  
Dale Hanburg                                      BIA - Ft. Duchesne

*Admission Completed  
Per 200 x 150  
4 1/2 mi x 70' improve exit access  
4 1/10 ac  
3rd hole - 6m to v  
Lead? Price Pg 6  
1/2 2*

lj 5/28/80

## DISCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location State: Utah  
County. Uintah  
600' FWL, 810' FSL, SW 1/4 SW 1/4  
Section 22, T 9S, R 20E, S L M
2. Surface Ownership Location: Indian  
Access Road: Indian

Status of  
Reclamation Agreements: Not Applicable.

3. Dates APD Filed: May 5, 1980 .  
APD Technically Complete: May 13, 1980 .  
APD Administratively Complete: June 2, 1980 .
4. Project Time Frame  
Starting Date: Upon Approval .  
Duration of Drilling activities: 30 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year, revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:  
None known.
6. Nearby pending actions which may affect or be affected by the proposed action:  
None known.
7. Status of variance requests:  
None known.

The following elements of the proposed action would/could result in environmental impacts:

1. A drill pad 200' wide x 400' long and a reserve pit 110' x 150' would be constructed. Approximately .6 miles of existing road would be improved to 30' of driving surface from a maintained road. 4.4 acres of disturbed surface would be associated with the project. Maximum disturbed width of access road would be limited to 32'.
2. Drilling.
3. Waste disposal.
4. Traffic.
5. Water requirements.
6. Completion.
7. Production.
8. Transportation of hydrocarbons.

Details of the proposed action are described in the Application for Permit to Re-enter.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: Uintah Basin: Province

The area consists of weathered sandstone and shale buttes and bluffs of the Uinta Formation. These buttes and bluffs are relatively flat on top with steep weathered sides. The valleys that surround the buttes and bluffs slope gently to rugged dissected dendritic drainage patterns. This type of drainage is usually non-perennial in nature.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected: Possible oil shale in Green River Formation, gilsonite veins in Green River Formation and Uinta Formation. Possible small saline pods in Green River Formation.

Information Source: Mineral Evaluation Report.

2. Hazards:

- a. Land Stability: The surface would remain relatively stable until soil became saturated then heaving, sluffing and heavy erosion would take place due to the saturation of the clays and shales at the surface.

Information Source: Field Observation.

b. Subsidence. Withdrawal of fluids could cause subsidence, however, the composition of the producing zones will reduce this hazard therefore none is anticipated.

Information Source: "Environmental Geology", E. A. Keller, "Physical Geology", Leet and Judson.

c. Seismicity: The area is considered a minor risk. No preventive measures or plans have been presented by the operator.

Information Source: Geologic Atlas of the Rocky Mountain Region.

d. High Pressure Zones/Blowout Prevention: No high pressures are anticipated above the Wasatch, although slight over-pressuring may be expected in the Upper Wasatch Formation.

Information Source: APD, Mineral Evaluation Report.

## B. Soils:

1. Soil Character. Soil is of a deep mildly to strongly alkaline nature. The surface layers are pale brown and light gray loams, silty clay loams and clays. Sand and gravels are intermixed with clays and silts in fluvial washes.

Information Source: "Soils of Utah", Wilson, Field Observation.

2. Erosion/Sedimentation: This would increase due to the disruption of vegetation and loosely compacted "A & B" soil horizons of clay and shale. Clay and shale leave a higher rate of erosion due to their grain size and compaction capabilities. Proper construction practices would reduce this impact.

Information Source: "Fluvial Processes in Geomorphology" by Luna B. Leopold, M. Gordon Wolman and John P. Miller, 1964. "Soils of Utah", Wilson.

C. Air Quality: The area is a class II containment. There would be a minor increase in air pollution due to emissions from construction and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads.

Information Source: Utah State Health Department/Air Quality Bureau in Salt Lake City. Utah.

D. Noise Levels: Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels would return to normal.

E. Water Resources

1. Hydrologic Character

a. Surface Waters: The location drains northwest by non-perennial drainage to the Green River.

Information Source: Field Observation, APD.

b. Ground Waters: Ground water is anticipated in the Birds-eye member of the Green River Formation and other less productive aquifers of the Green River Formation.

Information Source: Mineral Evaluation Report.

2. Water Quality

a. Surface Waters: No contamination to surface water is anticipated by this drilling program. Proper construction of location and lining reserve pits where needed would insure safe operations.

Information Source: Field Observation.

b. Ground Waters: Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. Potential communication, contamination and commingling of formations via the wellbore would be prevented by an adequate response drilling fluid program. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan.

Information Source: 10-Point Plan.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the formal and verbal comments received from BIA-Ft. Duchesne at onsite, May 22, 1980, we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: Halogten and rabbitbrush exist on or near location. The location has previously been constructed and vegetation removed.

Information Source: Field Observation.

3. Fauna: Deer, antelope, small rodents, birds and reptiles, foxes, coyotes and domestic livestock exist on or near the location.

Information Source: Field Observation, SMA Representative.

G. Land Uses

1. General: The area is used primarily for oil and gas operations although grazing and recreation takes place throughout the year.

Information Source: APD, Field Observation, SMA Representative.

2. Affected Floodplains and/or Wetlands: N/A.

3. Roadless/Wilderness Area: N/A.

H. Aesthetics: Operations do not blend in with natural surroundings and could present a visual impact. Painting any permanent equipment a color to blend with surrounding environment would lessen visual impacts.

Information Source: Field Observation.

I. Socioeconomics: Drilling and production operations are small in size, but contribute substantial financial income to residents of the surrounding area. Local people are used whenever possible. This allows greater economic development of the area.

Information Source: C. M. Hansen, resident of Uintah Basin.

J. Cultural Resources Determination: Based on the formal and verbal comments received from BIA-Ft. Duchesne on May 22, 1980, we determine that there would be no effect on cultural resources subject to basic stipulations by BIA and USGS.

Information Source: SMA concurrence.

K. Adequacy of Restoration Plans: Meet the minimum requirements of NTL-6.

Information Source: APD, C. M. Hansen, Environmental Scientist.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.

2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:

- a. About 4.4 acres of vegetation would be removed, increasing and accelerating erosion potential.
- b. Pollution of groundwater systems <sup>could</sup> would occur with the introduction of drilling fluids into the aquifer(s). The potential for interaquifer leakage and lost circulation is ever-present, depending on the casing program.
- c. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
- d. The potential for fires, leaks, spills of gas and oil or water exists.
- e. During construction and drilling phases of the operation, noise and dust levels would increase.
- f. Distractions from aesthetics during the lifetime of the project would exist.
- g. Erosion from the site would eventually be carried as sediment in the Green River. The potential for pollution to the Green River would exist through leaks and spills.
- h. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

2. Conditional Approval:

- a. All adverse impacts described in section one above could occur.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

- ~~1. See attached Lease Stipulations.~~
2. See Basic BIA Stipulations on file in Salt Lake City Office.

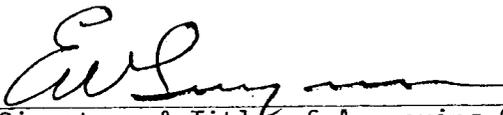
Controversial Issues and Conservation Division Response:

No controversial issues were found by the writer.

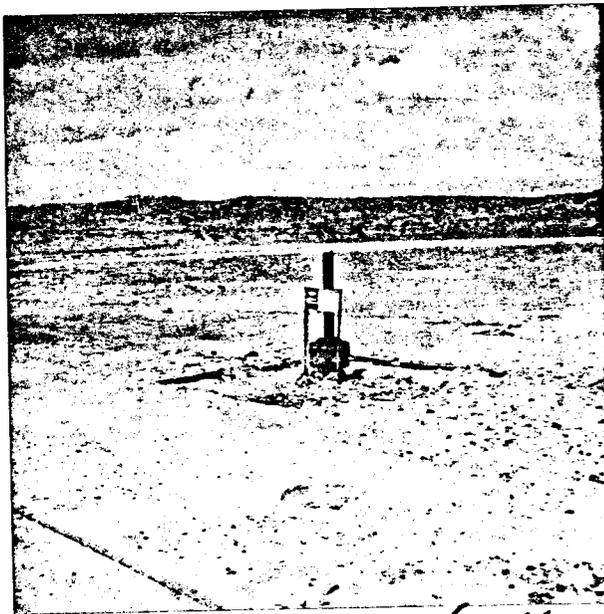
We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).

 DISTRICT ENGINEER  
Signature & Title of Approving Official

MAY 28 1980  
Date



Gillman A. Hill  
Recreation  
Conoco 22-1 looking north

GILMAN A. HILL  
Conoco - Federal #22-1  
Section 22, T9S, R20E, S.L.B. & M.

7. METHODS FOR HANDLING WASTE DISPOSAL - continued

A portable trash basket will be placed on the location site and all trash will be hauled to the nearest Sanitary Land Fill.

A portable chemical toilet will be supplied for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See Location Layout Sheet.

The B.I.A. Representative shall be notified before any construction begins on the location site, and reserve pits.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel and any other type material necessary to make them safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the reserve pit site, all topsoil shall be stripped and stockpiled. (See Location Layout Sheet & Item #9). When all drilling and production activities have been completed, the location site will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion if drilling activities and all waste being contained in the trash basket shall be hayled to the nearest Sanitary Land Fill.

Restoration activities shall begin within 90 days after completion of the well. Once restoration activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site shall be reseeded with a seed mixture recommended by the B.I.A. Representative when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said clean-up and restoration activities shall be done and performed in a diligent and most workmanlike manner, and in strict conformity with the above mentioned Items #7 and #10.

GILMAN A. HILL  
Conoco - Federal #22-1  
Section 22, T9S, R20E, S.L.B. & M.

11. OTHER INFORMATION

The Topography of the General Area (See Topographic Map "A").

The area is a large basin formed by the Uinta Mountains to the North and the Book Cliff Mountains to the South. The White River is located approximately 3 miles to the North of the location site.

The basin floor is interlaced with numerous canyons and ridges formed by the non-perennial streams of the area. The sides of these canyons are steep and ledges formed in sandstone, conglomerates, and shale deposits are extremely common to the area.

The geologic structures of the area that are visible are of the Uinta formation (Eocene Epoch) Tertiary Period in the upper elevations and the cobblestone and younger alluvial deposits from the Quaternary Period.

Outcrops of sandstone ledges, conglomerate deposits, and shale are common in this area.

The topsoils in the area range from a light brownish-gray sandy-clay (SM-ML) type soil with poorly graded gravels to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

The White River and Green River to the North of this location are the only perennial streams that are affected by this location site.

Due to the low precipitation average, climate conditions, and the marginal types of soils, the vegetation that is found in the areas is common of the semi-arid region we are located in; it consists of areas of sagebrush, rabbitbrush, some grasses, and cacti as the primary flora. This is also true of the lower elevations.

The fauna of the area consists predominantly of the mule deer, pronghorn antelope, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The Topography of the Immediate Area (See Topographic Map "B").

Conoco - Federal #22-1 sits on a relatively flat area which slopes gradually to the West into two small non-perennial drainages which drain to the West into a low depression, which during heavy storms and spring run-off becomes a small lake.

GILMAN A. HILL  
Conoco - Federal #22-1  
Section 22, T9S, R20E, S.L.B. & M.

11. OTHER INFORMATION - continued

other drainages in the area drain to the Northwest into the Green River.

The vegetation in the immediate area surrounding the location site consists of grasses and sparse amounts of sagebrush.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B").

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Gilman A. Hill  
Petroleum Geologist  
6200 Plateau Drive  
Englewood, Colorado 80111

Tele: 1-303-771-1101

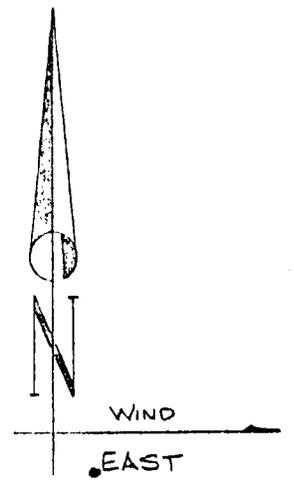
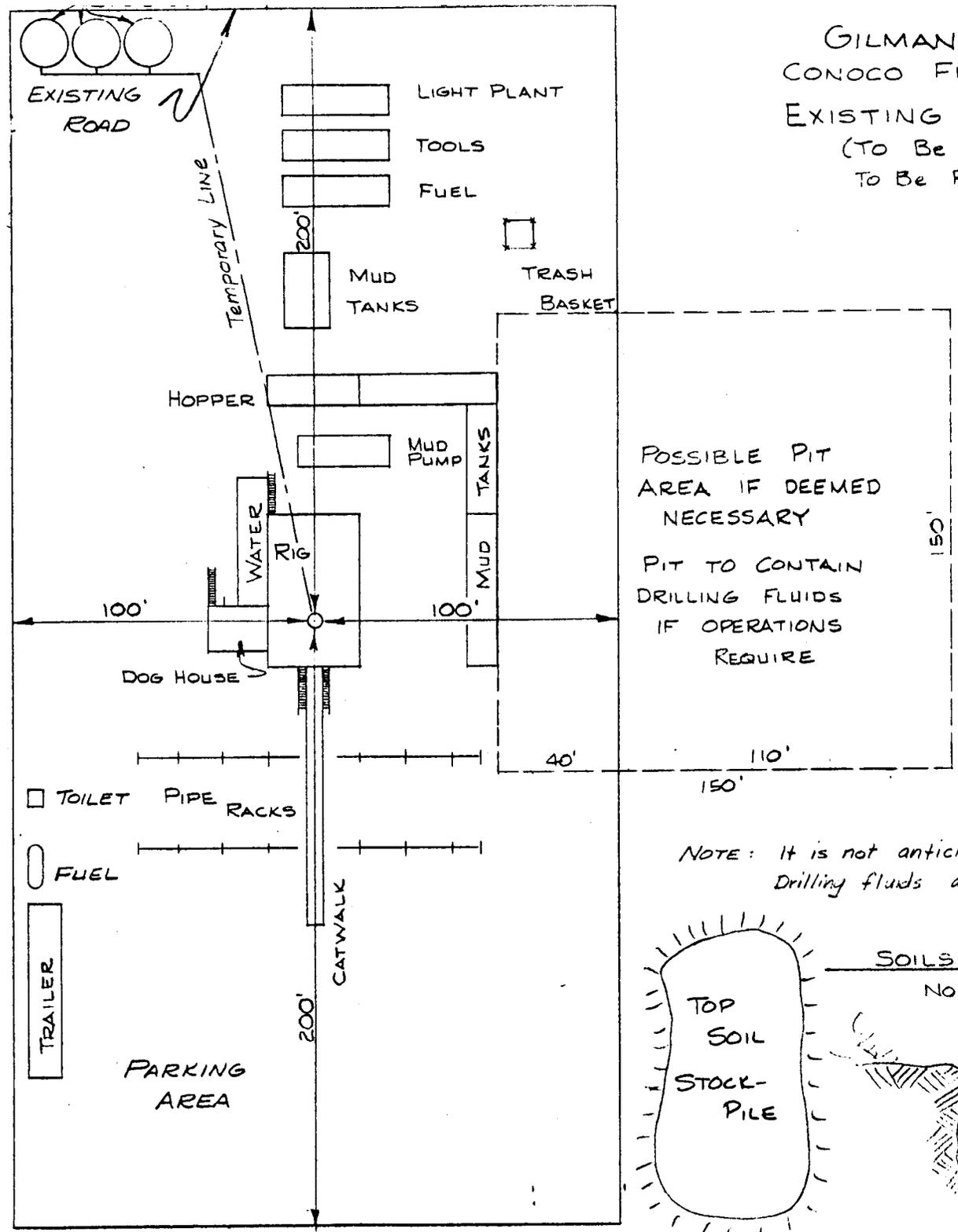
13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Gilman A. Hill and its contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.

May 1, 1980  
Date

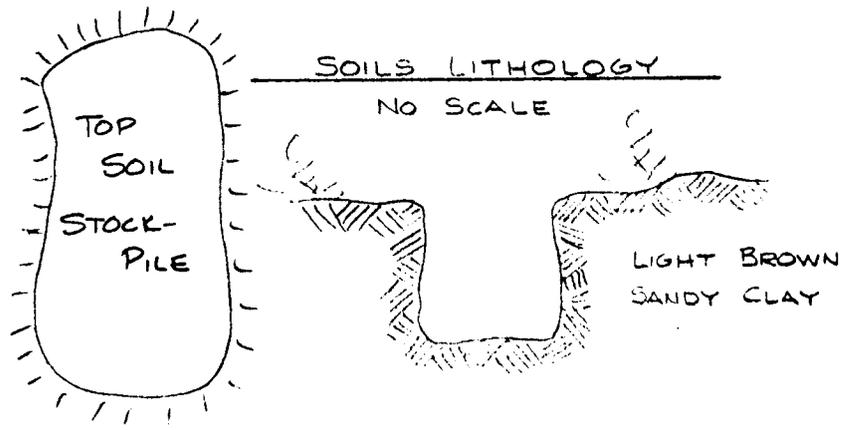
Gilman A. Hill  
Gilman A. Hill  
Petroleum Geologist

GILMAN A. HILL  
 CONOCO FEDERAL # 22-1  
 EXISTING LOCATION PAD  
 (To Be Graded and Well  
 To Be Re-opened)



SCALE 1" = 50

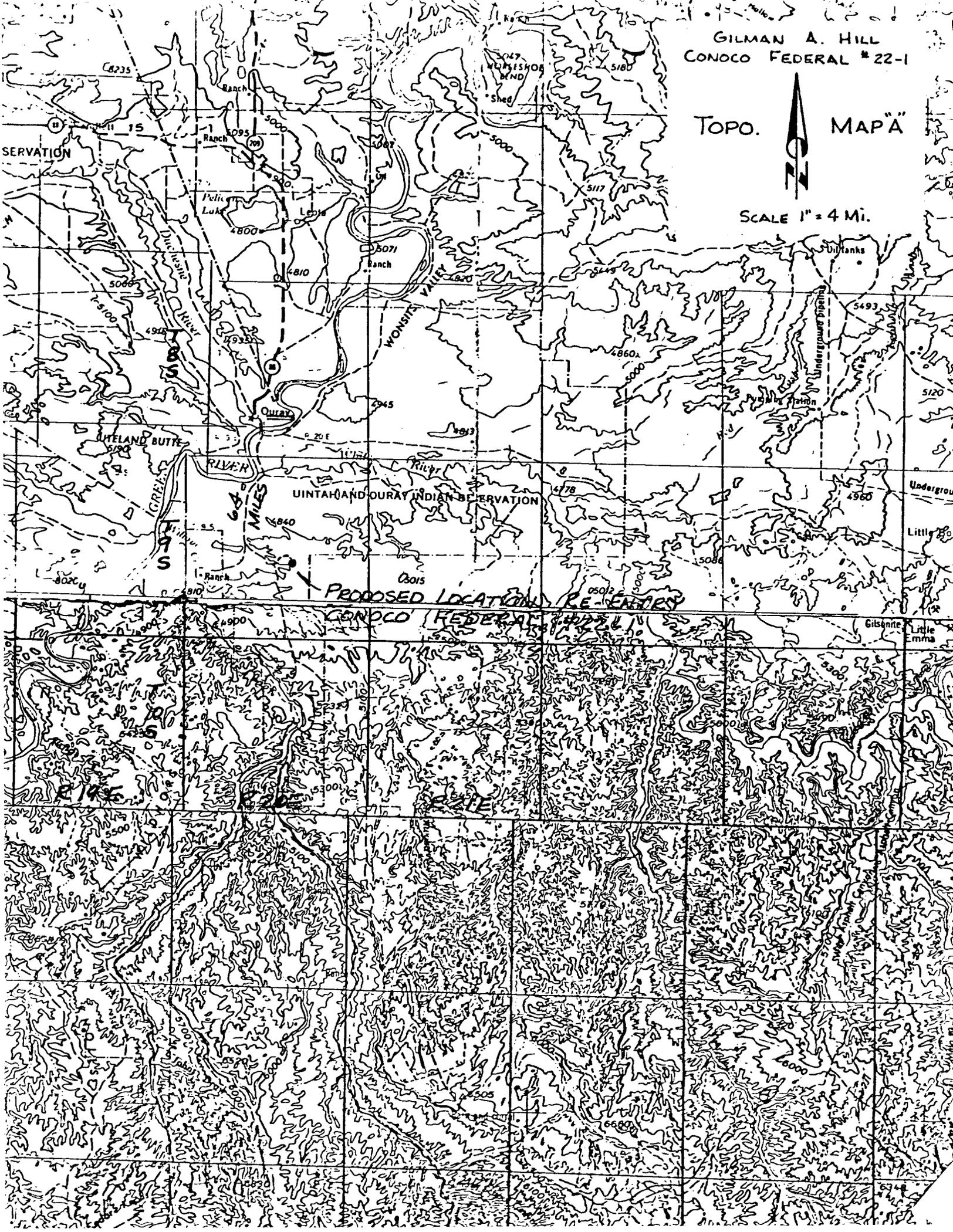
NOTE: It is not anticipated that there will be any drilling fluids as this well is being re-opened



GILMAN A. HILL  
CONOCO FEDERAL #22-1



SCALE 1" = 4 MI.



PROPOSED LOCATION  
CONOCO FEDERAL

SERVATION

UTELAND BUTTE

UINTAH AND OURAY INDIAN RESERVATION

WONSIK BEND

GRAND MILES RIVER

PELICAN LAKE

WONSIK VALLEY

Gibsonville

Little Emma

Underground

WORKOVER & RE-EVALUATION  
PROGRAM  
AND  
COST ESTIMATE

Conoco Federal 22-1  
SW $\frac{1}{4}$  SW $\frac{1}{4}$  Sec. 22, T.9S, R.20E  
Unitah County, Utah

Prepared by: F.L. Stewart, Principal Consultant  
Drilling and Development Engineering  
and Supervisory Services

Date: 18 April 1980

MEMORANDUM

To: L. Lex Dolton  
President  
Oil International, Ltd.

Date: April 15, 1980

From: Floyd L. Stewart

Subject: Cleanout and re-test of Red Channel Federal 22-1,  
Section 22, Township 9 South, Range 20 East,  
Unitah County, Utah

-----  
1.0 Introduction:

This memorandum reviews the status of the above cited well, examines the possibilities and anticipated costs to cleanout and re-test the interval 14,820 - 14,920 feet.

Data provided by Mr. Gillman Hill, consisting of partial well data, completion procedures used, and basic test information obtained, has been studied.

2.0 Conclusions and Recommendations:

2.1 From the study of data available, it is concluded that the well can be re-entered, cleaned out, and re-tested. It appears the work can be done in two to three weeks' time. Minimum cost to do so is estimated to be \$283,900, maximum could run as high as \$412,000.

The probability of obtaining meaningful information from re-testing depends on the degree of stabilization of the formation, if any, that may have occurred since operations were suspended in August of 1972. With the overpressures being as high as they were recorded to be, while drilling the interval 14,666 to 15,000 feet, the problem of sloughing/running formations occurring during production may not be economically controllable.

The only way to find out is to clean out the well and try additional tests.

The interval 14,666 to 14,803 feet can be successfully tested. There will be some question regarding the effectiveness of perforating through the cement and debris likely filling the washed-out section from 14,666 to 14,810 feet. Large casing jets, shot a minimum two

L. Lex Dolton  
April 15, 1980

per foot, should be used. If no gas entry occurs from perforating alone, it will be necessary to break down the formation with some sort of a fracturing job. In the event hydraulic fracturing is not required, the minimum and maximum costs would each be reduced by \$75,000; making them \$208,900 and \$337,000, respectively.

- 2.2 It is recommended that Federal 22-1 be re-entered and re-evaluated if risk capital is available, and if an estimated five to one risk falls within your investment criterion.

3.0 Present Well Condition:

- 3.1 T. D. 20,053 feet, with two fish in the hole below 17,350 feet.

- 3.2 Ground elevation 4,333 feet, K. B. elevation, 4,856 feet.

- 3.3 Casing in the hole:

20 inch casing, cemented at 1,720 feet.

9 5/8 inch casing, cemented at 14,665 feet.

7 inch liner cemented with shoe at 15,703 feet, and top of liner somewhere below 14,354 feet. The top is assumed to be at 14,375 feet. Liner is perforated, 14,820 feet to 14,920 feet.

- 3.4 Plugs:

Various cement plugs were set between 19,361 and 16,500 feet, cement retainer and cement 15,025 to 15,006 feet, cement retainer and cement 14,420 to 14,108 feet, 9 5/8 inch casing plugged 1,100 to 600 feet.

- 3.5 Temporarily abandoned 16 August 1972.

4.0 Summary of Drillstem Tests:

- 4.1 DST No. 1 (11,925 to 12,130 feet)

Recorded 2,000 feet of gas-cut water cushion and 3.0 cuft of gas at 950 psi in sample chamber.

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4.2 DST No. 2 (14,666 to 14,803 feet)

Tested from shoe of 9 5/8 inch casing. Unloaded 14,568 feet of water cushion, flowed gas at maximum 1.15 mmcfpd rate during 8 1/2 hour flow period.

Test Pressures:

IHP	9,897 psi
IFP	6,090 psi
ISIP	9,475 psi (85 min)
FFP	5,961 psi (after 8 1/2 hrs)
FSIP	8,055 psi (after 13 1/2 hrs)
FHP	9,919 psi

4.3 DST No. 3 (15,709 to 15,800 feet)

Recorded 8,700 feet water cushion.

4.4 DST No. 4 (19,326 to 20,032 feet)

Recorded 9,800 feet water cushion, 1,400 feet rat-hole mud and 8,080 gas-cut and salty formation water.

4.5 DST No. 5 (17,350 to 17,581 feet)

Recorded 113 barrels water cushion, 84 barrels mud, 16 barrels rat-hole mud, and 87 barrels of muddy F.W.

4.6 DST No. 6 (16,669 to 16,905 feet)

Recorded 7,100 water cushion and 800 feet W.C.M.

4.7 DST No. 7 (15,703 to 16,500 feet)

Tested from shoe of 7 inch liner. Flowed gas to surface in 605 minutes, increasing to a maximum 9.65 mcfpd rate in 132 minutes (737 minutes total flow time), decreasing to 1.5 mcfpd rate at end of test (time not reported). Recovered 40.8 barrels gcwc and 48.6 barrels vhgcm.

4.8 Comment

DST No. 2 and No. 7 are the only tests pertinent to this study. DST No. 7 only so because of the

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April 15, 1980

minimal gas recovery from the long interval tested below the shoe of the 7 inch liner. DST No. 2 provides most of the incentive for doing further evaluation of this well. A 1.15 mmcfpd rate of gas flow is significant under present circumstances.

#### 5.0 Discussion:

Shortly after setting the 9 5/8 inch casing at 14,665 feet, the interval from 14,665 feet to 14,803 feet was tested. Results warranted further evaluation. The operator drilled to T.D., testing zones of interest as drilling progressed. Additional testing was done as the well was abandoned at progressively shallower depths (See DST No. 5, 6, and 7).

During this sequence of events, the interval of main interest today (14,666 to 14,920 feet), was being subject to a long period of drilling damage, followed by the cementing of a 7 inch liner through the zone.

During the initial drilling of this zone, it was found to be made up of highly over-pressured shales and stringers of sandstone. Log-derived porosities, up to 14%, were noted. Permeabilities of less than a md. were reported. No mention of fracture pattern in either the shale or sandstone is mentioned in the material studied. Nevertheless, a gas flow rate of 1.15 million cubic feet per day was obtained from the undamaged interval.

A 7 inch liner was set at 15,703 feet during the process of testing on the way out of the hole. The lower part of the zone of interest was tested twice, first through 26 holes perforated from 14,820 to 14,920 feet, and secondly through an additional 2 holes per foot over the same interval. Both tests were inconclusive because of extreme sloughing of formation material soon after opening the test tools.

Some sort of a formation breakdown process was used prior to the first test. No details were given. Nothing in the well information available indicated this breakdown process was a fracture job. The material cleaned out of the liner after that first test is described as fine shale "cuttings" and lost circulation material.

After re-perforating the interval 14,820 to 14,920 feet with two shots per foot, using a 4 inch casing gun and

L. Lex Dolton  
April 15, 1980

"jumbo jets", the interval tested as follows:

Gas flowed at an estimated 250 mcfpd rate, through a 10/64 choke and with a 1,950 psi surface back pressure. Flow decreased to an estimated 24 mcfpd, through a 32/64 inch choke with 200 psi back pressure recorded. The operator then ran sinker bar on wire line. Found liner plugged at 14,820 feet, the top of the perforated interval.

A cement retainer was then set at 14,200 feet. The test interval and the hole was abandoned by squeezing 75 sx of cement through the retainer followed by dumping 35 sx on top of retainer.

A review of caliper logs indicate a large washed out section lies below the shoe of the 9 5/8 inch casing from 14,666 to 14,810 feet. That interval can be seen to include the section tested in DST No. 2. The washout is sufficiently extensive that it is doubtful it was completely filled with cement during the 7 inch liner, cement job.

Therefore, one can reasonably expect big jets to perforate beyond the cement collar.

WORKOVER & RE-EVALUATION

PROGRAM

Federal 22-1 SW $\frac{1}{4}$  SW $\frac{1}{4}$  Sec. 22 - 7.9S - R.20E

Approx. 40 miles south of Vernal, Utah

1.0 - Present Condition:

1.1 - T.D. 20,053' with two fish in the hole below 17,350'.

1.2 - Ground Elevation: 4,833'; K.B. (original) 4,856'.

1.3 - Casing in the hole:

20", 94#/ft. H-40, S.T. & C. cmtd. at 1720'  
9-5/8", 40.0 & 43.5#/ft., MN-80 cmtd. at 14,665'  
7", 35#/ft., P-110 liner hung at 14,375' (?) with  
shoe at 15,703'.

1.4 - Perforations:

7" liner, 14,820 to 14,920', first w/26 holes and  
second with 2 spf (200 holes).

1.5 - Plugs:

Various plugs in open hole from 19,361 to 16,500;  
cmt. ret. and cmt. 15,025' to 15,006'; cmt. ret. and  
cmt. 14,420 to 14,108, across the top of 7" lnr. and  
1100' to 600' in 9-5/8" csg. Well head has a blind  
flange and valve installed at the surface.

1.6 - Hole Fluid:

The csg. and liner are presumed to be filled with a  
mixture of KCl-water and 13.3 ppg mud.

2.0 - Work Program

2.1 - Prepare roads and location for work-over rig. M.I.  
& R.U.

2.2 - Check well for pressure and install BOP equipment  
equipped with D.P. and blind rams.

2.3 - P.U. D.P., D.C. and 8 $\frac{1}{2}$ " bit. RIH to top of first  
plug at approx. 600'.

- 2.4 - Circulate out hole fluid; mud-up to approx. 11 ppg and drill out first plug 600 to 1100'. Watch mud returns for signs of gas - cutting after drilling out plug.
  - 2.5 - R.I.H. to top of second plug at approx. 14,108'. Drill out cement to retainer at 14,200'; build mud weight up to 13.0 ppg and drill out retainer. Watch for gas - cutting of mud after drilling through cement retainer.
  - 2.6 - Clean out cement to top of 7" liner at 14,375' approximate. P.O.H., Change to 5-5/8" or 5-1/2" bit and clean out cement in top of 7" liner to approximately 14,420'. Build mud weight up to 13.3 ppg before drilling out cement. Watch for gas - cutting and be prepared for high-pressure gas accumulation under this cement plug.
  - 2.7 - R.I.H. to top of fill at 14,820'; circulate and clean out hole to 15,017'. Continually check mud-weight, maintain at 13.3 ppg or higher if required to hold down gas influx into the hole. Circulate and condition mud to 13.3 ppg (or higher, if need be), gas-free, weight.
  - 2.8 - P.O.H. and jet perforate 2 holes/foot from 14,740 to 14,764'; using super jets in largest casing gun that will run in 7", 35# csg.
  - 2.9 - Run production packer and completion tubing as directed in a program to be issued at the time.
- 3.0 - Completion and Re-evaluation Options.

One of the following options will be selected for completing and testing the well.

- 3.1 - Run production packer on 3½" special connector tbg. Set packer at 14,650', change over to KCl-water and hydraulic fracture the perf'd. interval as directed at the time. Production test, utilizing 1", coiled tubing run inside 3½" tbg. to 14,800' if required to maintain gas-flow. Production test well. If warranted, install permanent surface equipment for continuously producing the well.
- 3.2 - Alternately, run dual packer and dual strings of 2-3/8" and 2-7/8" tbg. Set packer at 14,650' on 2-7/8" tbg. and change over to KCl-water. Circulate mud out of hole w/KCl-water. (Note: If well needs fracing as is anticipated, the frac job probably

can be done through the 2-7/8" tbg. with the 2-3/8" opening in dual packer blanked off.) Run 2-3/8" tbg, sting into pkr. with a 2-3/8" or smaller stinger extending to approximately 14,800'. Production test well and install permanent surface equipment as above.

3.3 - Run 2-3/8" tbg. and production pkr. Change over to KCl-water, set pkr. at 14,650' and frac. well as suggested before. Production test and install permanent surface equipment as indicated above.

4.0 - Blow Out Prevention Equipment:

4.1 - Install double Shaffer or Cameron BOPE equipped with d.p. and shear rams.

4.2 - Install Hydril or equivalent "bag packer" on top of double ram unit.

4.3 - Install choke manifolding as required to handle gas flows that might occur while cleaning out.

5.0 - Drilling Mud:

5.1 - Use clay-water mud weighted to 11.0 ppg for drilling out top plug.

5.2 - Use treated clay-water mud weighted to 13.3 ppg to drill out plug in top of liner and for circulating hole clean to 15,017.

5.3 - If timing permits, save and store (in rented tanks) the 13.3 ppg mud circulated out of hole after frac job, for use on next well.

PRELIMINARY

WORKOVER COST ESTIMATE

Well: Federal 22-1

Lease: Red Channel Field

Location: Sec. 22, T.9S, R.20E

County: Uintah State: Utah

<u>No.</u>	<u>Item and Description</u>	<u>Cost</u>
<u>INTANGIBLES:</u>		
1.	Roads & Location	\$ 500
2.	Move In & Move Out	1,000
3.	Rig Rental	
	a. Work-over rig 12 days @ \$5,000/D	60,000
	b. Snubbing Unit 9 days @ \$943/D	8,500
4.	Labor - Company & Contract	500
5.	Transportation	1,500
6.	Drilling & Completion Fluids 1500 Bbls. @ \$16/Bbl.	24,000
7.	Fuel & Water (Water Only)	3,000
8.	Bits & Reamers	500
9.	Rental Equipment	26,050
10.	Perforating & Testing	5,000
11.	Stimulation	75,000
12.	Contract Services	10,000
13.	Contingency (15%)	<u>20,950</u>
	District & O/H Expense	--
	TOTAL INTANGIBLES	235,600
	TOTAL TANGIBLES (Fwd. fr. Pg. 2)	<u>176,400</u>
	TOTAL COST ESTIMATE	\$412,000
	WITH ALTERNATE TANGIBLE COST	\$283,900

Prepared by F.L. Stewart

Date: 17 April 1980

WORKOVER COST ESTIMATE

Well: Federal 22-1                      Lease: Red Channel Field  
Location: Sec. 22, T.9S, R.20E              County: Uintah State: Utah

<u>No.</u>	<u>Item and Description</u>	<u>Quantity</u>	<u>Unit Price</u>	<u>Cost</u>
1.	Casing			--
2.	Tubing; 3-1/2" Special Conn.	14,500'	\$10/ft.	145,500
3.	Subsurface Equipment (Coiled Tubing)	15,000'		20,100
4.	Wellhead Equipment (2nd Hand - Rent)			5,000
5.	Perforating			--
6.	Lease Equipment:			
	a. Separators - 2nd Hand			3,500
	b. Meters			800
	c. Tanks			700
	d. Gathering Lines			800
	e. Other			<u>--</u>

TOTAL TANGIBLES (Fwd. to Pg. 1)              \$176,400

ALTERNATE: Rent Special Tbg. w/Optn to Buy

Rent - 8¢/ft/day; 15 days & 14,500 ft. = \$17,400

ALTERNATE TOTAL TANGIBLE                      \$ 48,300

Prepared by F.L. Stewart

Date: 17 April 1980

GILMAN A. HILL

13 Point Surface Use Plan

For

Well Location

Conoco - Federal #22-1

Located In

Section 22, T9S, R20E, S.L.B. & M.

Uintah County, Utah

GILMAN A. HILL  
Conoco - Federal #22-1  
Section 22, T9S, R20E, S.L.B. & M.

1. EXISTING ROADS

See attached Topographic Map "A".

To reach Gilman A. Hill well location, Conoco - Federal #22-1, located in the SW $\frac{1}{4}$  SW $\frac{1}{4}$  Section 22, T9S, R20E, S.L.B. & M., Uintah County, Utah:

Proceed Westerly out of Vernal, Utah along U.S. Highway 40 - 14 miles to the junction of this Highway and Utah State Highway 209; proceed South along Utah State Highway 209 - 7 miles more or less to the junction of this Highway and the Utah State Highway 88; proceed South along the Utah State Highway 88 - 10 miles to Ouray, Utah; proceed South out of Ouray, Utah on a Uintah County road known as the Seep Ridge Road 5.8 miles to its junction with an existing dirt oil field service road to the East; proceed Easterly along this road 0.6 miles to the existing location pad to be used in re-opening the existing well hole.

The Highways mentioned above are bituminous surfaced roads from Vernal, Utah to Ouray, Utah. These highways are under State Supervision and are maintained by their road crews.

The county road known as the Seep Ridge Road is surfaced with native asphalt to a point 2 miles South of Ouray, Utah at which point this road is a dirt road which is built out of the native materials of the area which were accumulated during its construction. This county road is an improved surface road, it will require no new construction and will meet all necessary standards required for an orderly flow of traffic both in and out of the location site. This county road will require no maintenance as it is maintained by Uintah County road crews.

The existing road from the Seep Ridge Road to the existing well pad described above is constructed out of the native materials accumulated during its construction. This road will require some minor upgrading, which will consist of smoothing the road bed, re-shaping the sides of the road, and replacement of culverts or rebuilding of Dry Wash drainage crossings. It will be decided at the time of the onsite inspection if culverts will be placed or if Dry Wash drainage crossings will be used. These will be placed according to the specifications in the Oil & Gas surface operating manuel.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

There will be no planned access road to this loction site. The existing road described in Item #1 goes to the existing location site.

GILMAN A. HILL  
Conoco - Federal #22-1  
Section 22, T9S, R20E, S.L.B. & M.

3. LOCATION OF EXISTING WELLS

See Topographic Map "B".

There are 8 existing producing wells and 4 existing drill holes (abandoned wells) within a one mile radius of this temporarily abandoned well to be re-opened.

There are no known water wells, disposal wells, drilling wells, shut-in wells, injection wells, monitoring or observation wells for other resources within a one mile radius of this location site.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are no known Gilman A. Hill tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines, or disposal lines within a one mile radius of this location site.

This well is being re-entered for the purpose of re-testing for a production feasibility study. If in the event it is decided that production can be made all of the production will be contained in tanks on the location site until further plans can be made for transportation of the production, plans for the flowline or other types of transportation will be submitted to the proper authorities at the time these are decided upon.

The area will be built if possible, with native materials and if these materials are not available then the necessary arrangements will be made to get them from private sources.

These facilities will be constructed using bulldozers, graders, and workman crews to construct and place the proposed facilities.

If there is any deviation from the above, all appropriate agencies will be notified.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION & TYPE OF WATER SUPPLY

See Topographic Map "B".

It is not anticipated that there will be any water required in the re-entering of this drill hole, however if it becomes necessary to have water in these operations it will be hauled by truck from the White River in the SW $\frac{1}{4}$  Section 4, T9S, R20E, S.L.B. & M. approximately 2 miles South of Ouray, Utah. The trucks will travel over the existing roads described in Item #1 approximately 4.7 miles to the location site.

GILMAN A. HILL  
Conoco - Federal #22-1  
Section 22, T9S, R20E, S.L.B. & M.

5. LOCATION & TYPE OF WATER SUPPLY - continued

All appropriate permits will be acquired from the proper authorities.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

It is not anticipated at this time that there will be any major construction on the road or location site, some minor grader work may be required to smooth existing surfaces. A reserve pit will be built on the East side of the location site as a precautionary measure in the event that there are liquids or other materials encountered. It is not anticipated however that there will be any liquids encountered as this project is for the re-testing of a re-opened hole. There are no pit lining materials from other sources anticipated at this time, however if they are required. The appropriate actions will be taken to acquire them from private sources. These pits will be built out of the native materials accumulated during their construction.

7. METHODS FOR HANDLING WASTE DISPOSAL

See location layout sheet.

A reserve pit will be constructed.

The reserve pit will be at least 8' deep and at least half of the pit will be below the existing ground.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other one half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals, produced fluids, etc.

If deemed necessary by the agencies concerned, to prevent contamination to surrounding areas, the reserve pits will be lined with a gel.

The pits will have wire and overhead flagging installed at such time as deemed necessary to protect the water fowl, wildlife, and domestic animals.

At the onset of drilling, the reserve pit will be fenced on three sides and at the time the drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and reclamation activities are attempted.

When the reserve pit dries and the reclamation activities commence, the pits will be covered with a minimum of four feet of soil and all requirements of Item #10 will be followed.

GILMAN A. HILL  
CONOCO FEDERAL #22-1



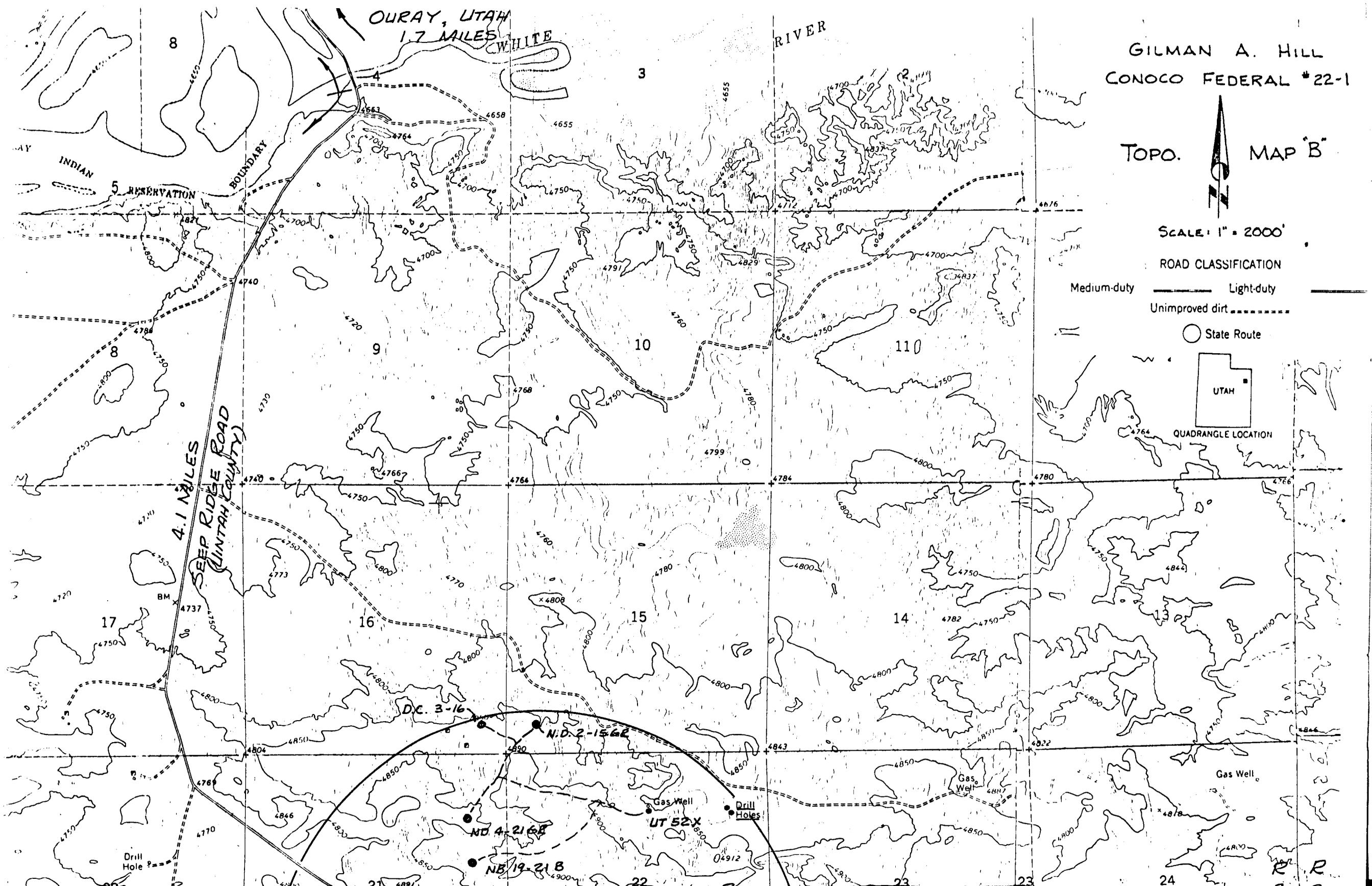
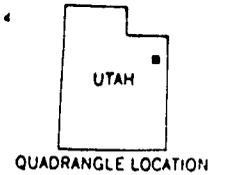
SCALE: 1" = 2000'

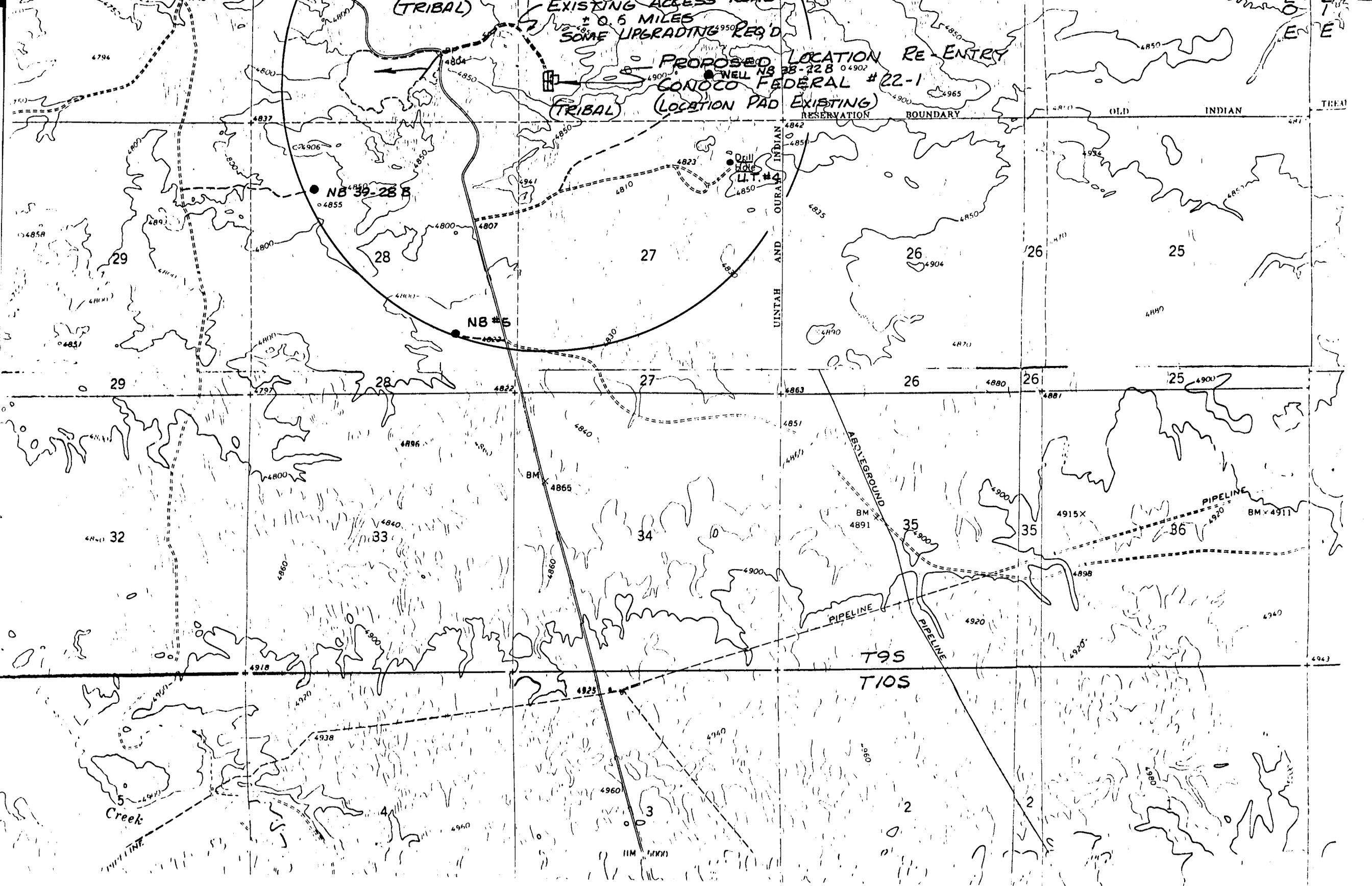
ROAD CLASSIFICATION

Medium-duty Light-duty

Unimproved dirt

State Route







**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL & GAS CONSERVATION**  
 1898 WEST NORTH TEMPLE  
 SALT LAKE CITY, UTAH 84116  
 833-8771

State Lease No. \_\_\_\_\_  
 Federal Lease No. 71-008344  
 Indian Lease No. \_\_\_\_\_  
 Fee & Pat. \_\_\_\_\_

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Uintah FIELD/LEASE N/A

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
May, 1981

Agent's Address 6200 Plateau Drive Company Gilman A. Hill  
Englewood, CO. 80111 Signed *Steve E. Hillman*  
 Phone No. (303) 771-1101 Title Agent, Well Working Int. Owner

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (if drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
11 SE NW	11S	21E	1	0	0		0	0	0	Drilling operation temporarily suspended

COPY

**GAS: (MCF)**  
 Sold 0  
 Flared/Vented 0  
 Used On/Off Lease 0

**OIL or CONDENSATE: (To be reported in Barrels)**  
 On hand at beginning of month 0  
 Produced during month 0  
 Sold during month 0  
 Unavoidably lost 0  
 Reason: \_\_\_\_\_  
 On hand at end of month 0

**DRILLING/PRODUCING WELLS:** This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED**

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL & GAS CONSERVATION**

1808 WEST NORTH TEMPLE  
 SALT LAKE CITY, UTAH 84116  
 833-8771

State Lease No. \_\_\_\_\_  
 Federal Lease No. 71-008344  
 Indian Lease No. \_\_\_\_\_  
 Fee & Pat. \_\_\_\_\_

**REPORT OF OPERATIONS AND WELL STATUS REPORT**

STATE Utah COUNTY Uintah FIELD/LEASE N/A

The following is a correct report of operations and production (including drilling and producing wells) for the month of:  
June, 19 81.

Agent's Address 6200 Plateau Drive  
Englewood, CO. 80111  
 Phone No. (303) 771-1101

Company Gilman A. Hill  
 Signed Steve A. Williams  
 Title Agent, Well Working Int. Owner

Sec. and 1/4 of 1/4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
11 SE NW	11S	21E	1	0	0		0	0	0	Drilling operation temporarily suspended

COPY

**GAS: (MCF)**  
 Sold \_\_\_\_\_ 0  
 Flared/Vented \_\_\_\_\_ 0  
 Used On/Off Lease \_\_\_\_\_ 0

**OIL or CONDENSATE: (To be reported in Barrels)**  
 On hand at beginning of month \_\_\_\_\_ 0  
 Produced during month \_\_\_\_\_ 0  
 Sold during month \_\_\_\_\_ 0  
 Unavoidably lost \_\_\_\_\_ 0  
 Reason: \_\_\_\_\_  
 On hand at end of month \_\_\_\_\_ 0

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:	
1-LCR	7-10K
2-DTS	253
3-VLC	
4-RJF	
5-RWM	
6-ADA	

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)       Designation of Agent  
 Designation of Operator             Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 12-23-81)

TO (new operator)	<u>L. LEX DOLTON</u>	FROM (former operator)	<u>*GILMAN A. HILL/BLM</u>
(address)	<u>2601 S. QUEBEC #5</u>	(address)	<u>CONTINENTAL FUNDING CORP.</u>
	<u>DENVER, CO 80231</u>		<u>1200 IROQUIOS DR</u>
	<u>E. R. HAYMAKER, AGENT</u>		<u>NAPERVILLE, IL 60540</u>
	phone <u>(303) 753-0887</u>		<u>NANCY D'ADAMO</u>
	account no. <u>N 4510 (8-26-92)</u>		phone <u>(800) 232-0827</u>
			account no. <u>N 9755</u>

Well(s) (attach additional page if needed):

Name: <u>CONOCO FED 22-1/FRTR</u>	API: <u>43-047-30111</u>	Entity: <u>11198</u>	Sec <u>22</u> Twp <u>9S</u> Rng <u>20E</u>	Lease Type: <u>U-0577A</u>
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____ Twp _____ Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- N/A 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(see Btm Approval)*
- See 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form). *(Rec'd 7-25-91)*
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes/no) no If yes, show company file number: \_\_\_\_\_. *(Letter mailed 8-26-92)*
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of **Federal and Indian** well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(8-26-92)*
- See 6. Cardex file has been updated for each well listed above. *(8-26-92)*
- See 7. Well file labels have been updated for each well listed above. *(8-26-92)*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission. *(8-26-92)*
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

ENTITY REVIEW

- see 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

BOND VERIFICATION (Fee wells only)

- N/A 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- N/A 2. A copy of this form has been placed in the new and former operators' bond files.
- N/A 3. The former operator has requested a release of liability from their bond (yes/no) no. Today's date 8/27/92 1992. If yes, division response was made by letter dated 8/27/92 1992.

LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated 8/27/92 1992, of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

FILMING

- see 1. All attachments to this form have been microfilmed. Date: August 28 1992.

FILING

- see 1. Copies of all attachments to this form have been filed in each well file.
- see 2. The original of this form and the original attachments have been filed in the Operator Change file.

COMMENTS

\* 920826 Btm/Vernal Oper. from Gillman A. Hill eff. 12-23-81.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-0577A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

- -

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

22-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 22-9S-20E.

12. COUNTY OR PARISH 13. STATE

Uintah

Utah

**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  GAS WELL  OTHER

2. NAME OF OPERATOR  
L. Lex Dolton

3. ADDRESS OF OPERATOR c/o Haymaker & Associates  
1720 South Poplar, Suite 5, Casper, Wyoming 82601

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

810' FSL & 600' FWL (SW $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 22)

14. PERMIT NO.

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

4,833' GR. 4,856' RB.

16. 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

Change of Operator

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(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.)\*

As per attached executed Designation of Operator, dated December 23, 1981, will you please change the name of the operator;

From: Gilman A. Hill  
6200 Plateau Dr.  
Englewood, CO 80111

To: L. Lex Dolton  
7257 S. Tucson Way, Suite 135  
Englewood, CO 80112

No activity with the exception of wireline work for depth verification.

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

SIGNED

*E. R. Haymaker*  
E. R. Haymaker

TITLE

Agent for L. Lex Dolton

DATE

12/23/81

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE\*

(See instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R555.6.

**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. RESVR.  Other Amended Report

2. NAME OF OPERATOR  
L. Lex Dolton

3. ADDRESS OF OPERATOR  
7257 S. Tucson Way, Suite 135, Englewood, CO 80112

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 810' FSL & 600' FWL (SW $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 22)  
At top prod. interval reported below Same  
At total depth Same

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

15. DATE SPUNDED 8/28/71 16. DATE T.D. REACHED 8/16/72 17. DATE COMPL. (Ready to prod.) \_\_\_\_\_

18. ELEVATIONS (DF, REB, RT, GR, ETC.)\* 4,833' GR. 4,856' RB.

20. TOTAL DEPTH, MD & TVD 20,053' 21. PLUG, BACK T.D., MD & TVD 14,750'

22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
14,580' - 14,800' Frontier

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
Comp. F.D., B.H. Sonic, Dual Ind LL

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"		1,720'	26"	2,850 Circulated	None
9 5/8"		14,676'	12 1/4"	1,760	None

**29. LINER RECORD**

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
7"	14,373'	15,703'		

**30. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8"	14,545'	14,510'

**31. PERFORATION RECORD (Interval, size and number)**

14,580 to 14,800' 30 shots  
5/8" w/2/ft.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
	None

**33.\* PRODUCTION**

DATE FIRST PRODUCTION 12/14/81 PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) Flowing through tubing. WELL STATUS (Producing or shut-in) S.I.

DATE OF TEST 12/14/81 HOURS TESTED 24 CHOKE SIZE 1" PROD'N. FOR TEST PERIOD \_\_\_\_\_ OIL—BBL. \_\_\_\_\_ GAS—MCF. 500 WATER—BBL. \_\_\_\_\_ GAS-OIL RATIO \_\_\_\_\_

FLOW. TUBING PRESS. 120 CASING PRESSURE 150 CALCULATED 24-HOUR RATE \_\_\_\_\_ OIL—BBL. \_\_\_\_\_ GAS—MCF. 500 WATER—BBL. \_\_\_\_\_ OIL GRAVITY-API (CORR.) \_\_\_\_\_

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Vented for test only. TEST WITNESSED BY W. W. Wood

35. LIST OF ATTACHMENTS  
None

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

SIGNED E. R. Haymaker TITLE Agent for L. Lex Dolton DATE 12/28/81  
E. R. Haymaker

5. LEASE DESIGNATION AND SERIAL NO.  
U-0577A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
\_\_\_\_\_

7. UNIT AGREEMENT NAME  
\_\_\_\_\_

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
22-1

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec. 22-9S-20E.

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

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



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 29, 1982

Gilman A. Hill  
6200 Plateau Drive  
Englewood, Colorado 80111

Re: Well No. Conoco Federal 22-1  
T. 9S, R. 20E, SEC. 22  
Uintah County, Utah  
(July 1981- December 1981)

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U. S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours.

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist

FEB 16 1982

 STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
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4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

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DIVISION OF OIL, GAS AND MINING



Cari Furse  
Clerk Typist



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

March 7, 1983

L. Lex Dolton  
c/o Haymaker & Associates  
1720 South Poplar, Suite # 5  
Casper, Wyoming 82601

Re: Well No. Conoco-Federal # 22-1  
Sec. 22, T. 9S, R. 20E.  
Uintah County, Utah  
(April 1982- February 1983)

Gentlemen:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject well.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

We will be happy to acknowledge receipt of response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse  
Well Records Specialist

CF/cf  
Enclosure

Board: Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck  
Robert R. Norman • Margaret R. Bird • Herm Olsen



## **HAYMAKER & ASSOCIATES**

*Professional Engineering Services*

*1720 S. Poplar, Suite 5, Casper, Wyoming 82601 Ph. (307) 234-6186*

March 11, 1982

State of Utah  
Natural Resources & Energy  
Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, Utah 84114

Attention: Cari Furse

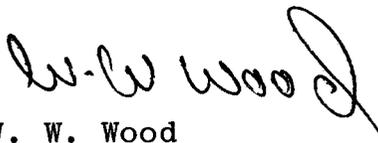
Dear Ms. Furse:

Per our telephone conversation this date, I am sending Sundry Notice & Report on Conoco Federal 22-1, T. 9 S., R. 20 E., Sec. 22, from July, 1981 to March 1, 1982, also a copy of Change of Operator Notice to U.S.G.S. for your records.

Any further information needed, please advise.

Very truly yours,

HAYMAKER & ASSOCIATES

  
W. W. Wood

Enclosures

**RECEIVED**  
MAR 15 1982

**DIVISION OF  
OIL, GAS & MINING**

*Consulting, Research, and Planning for Mineral Industries*

# CONCORD ROYALTY CO.

7257 South Tucson Way • Suite 135 • Englewood, CO 80112 • (303) 694-0703

22 March 1983

State of Utah  
Natural Resources and Energy  
4241 State Office Building  
Salt Lake City, Utah  
84114

Attention: Cari Furse  
Well Records Specialist  
Division of Oil, Gas and Mining

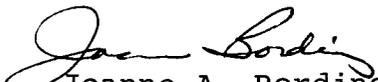
Regarding: Well No. Conoco-Federal 22-1  
Section 22, T9S R20E  
Uintah County, Utah

In response to your letter of March 7, 1983, requesting monthly drilling reports on the above captioned well.

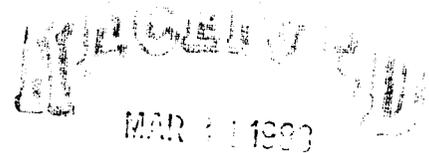
This well has not had any activity during the period you question.

At such time as there is activity, you will be informed.

Sincerely,

  
Joanne A. Bording  
Secretary to  
L. Lex Dolton  
(Operator/Owner)

jb

  
MAR 21 1983

DIVISION OF  
OIL, GAS & MINING



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 30, 1983

L. Lex Dolton  
c/o Haymaker & Associates  
1720 South Poplar, Suite # 5  
Casper, Wyoming 82601

Re: Well No. Conoco Federal # 22-1  
810' FSL, 600' FWL  
SW SW, Sec. 22, T. 9S, R. 20E.  
Uintah County, Utah

Gentlemen:

The above referred to well have been under an operation suspended status for six months or longer. Please inform this office of the current status of this well location or what operations are currently being performed on these well. Enclosed please find Form OGC-1B (Sundry Notices and Reports on Wells), that you may use to inform our office of the matter requested above.

We will be happy to acknowledge receipt of response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse  
Well Records Specialist

CF/cf  
Enclosure



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 2, 1984

## 2nd NOTICE

L. Rex Dolton  
7257 South Tucson Way Suite 135  
Englewood CO 80112

Re: Well No. Conoco Fed. #22-1  
810' FSL, 600' FWL SW/SW  
Sec. 22, T. 9S, R. 30E.  
Uintah County, Utah

Gentlemen:

The above referred to well has been under an operation suspended status for six months or longer. Please inform this office of the current status of this well location or what operations are currently being performed on this well. Enclosed please find Form OGC-1B (Sundry Notices and Reports on Wells), that you may use to inform our office of the matter requested above.

**\*\*You are in violation with the above rule. If you wish to continue developing business in the State of Utah, compliance with pertinent rules and regulations is essential. Further delay in your attention to the above matter may result in punitive action. Please submit the required information as stated above within fifteen (15) days.**

Respectfully,

A handwritten signature in cursive script that reads "Claudia Jones".

Claudia Jones  
Well Records Specialist

CJ/cj  
Enclosure



**CONTINENTAL FUNDING CORPORATION**

1200 Iroquois Drive

Naperville, Illinois 60540

Toll Free 1-800-323-0827

~~312 369 1919~~

**RECEIVED**

11/21 (312) 580 1650

APR 16 1984

**DIVISION OF OIL  
GAS & MINING**

April 9, 1984

State of Utah Natural Resources  
Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84414

Attn: Claudia Jones

Re: Well No. Conoco Fed. #22-1  
810' FSL, 600' FWL SW/SW  
Sec. 22, T. 9S, R.30E.  
Uintah County, Utah

Dear Ms. Jones:

Continental Funding Corp. is the current operator of record for the above referenced well, by way of assignment from L. Lex Dolton.

In answer to your request dated February 2, 1984 which has been forwarded to us by Mr. Dolton's office, please be advised that the well remains closed, awaiting further testing.

If you require any additional information, please contact our office.

Very truly yours,

CONTINENTAL FUNDING CORP.

*Nancy E. D'Adamo*  
Nancy E. D'Adamo *still there 11-10-84*  
Asst. Vice President

NED/hs



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 21, 1985

Continental Funding Corporation  
1200 Iroquois Drive  
Naperville, Illinois 60540

Gentlemen:

Re: Well No. Conoco Federal 22-1 - Sec. 22, T. 9S., R. 20E  
Uintah County, Utah - API #43-047-30111

The above referred to well has been under an operation suspended status for six months or longer since the last status report. Please inform this office of the current status of this well location or what operations are currently being performed on this well.

Enclosed is Form OGC-1b, "Sundry Notices and Reports on Wells", that you may use to inform our office regarding this matter.

Thank you for your prompt attention to this matter.

Sincerely,

A handwritten signature in cursive script that reads "Claudia L. Jones".

Claudia L. Jones  
Well Records Specialist

Enclosure

cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File  
0087S/50



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

February 21, 1985

Continental Funding Corporation  
~~1200 Iroquois Drive~~  
Naperville, Illinois 60540

*1804 No. NAPER BLVD / SUITE 414*

Gentlemen:

Re: Well No. Conoco Federal 22-1 - Sec. 22, T. 9S., R. 20E  
Uintah County, Utah - API #43-047-30111

The above referred to well has been under an operation suspended status for six months or longer since the last status report. Please inform this office of the current status of this well location or what operations are currently being performed on this well.

Enclosed is Form OGC-1b, "Sundry Notices and Reports on Wells", that you may use to inform our office regarding this matter.

Thank you for your prompt attention to this matter.

Sincerely,

Claudia L. Jones  
Well Records Specialist

Enclosure

cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File  
0087S/50

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

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.)

RECEIVED

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR: NOT NOW DESIGNATED

3. ADDRESS OF OPERATOR: SEC. 22, T. 45., R. 70E

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO. *Conoco Fed 22-1*

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR B.L. AND SUBVY OR AREA

12. COUNTY OR PARISH *WINNIEH COUNTY* 13. STATE *UTAH*

14. PERMIT NO. 15. ELEVATIONS (Show whether of, ft., or, etc.)

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 type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <i>Suspended STATUS.</i>	

(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.)

*Current Status:*  
*OPERATION Suspended STATUS INDEFINITELY.*

*STEVE KEEN*  
*MAYER-BANDON-PLATT*  
*303 595-9900* } *ATTORNEY FOR CFC*

18. I hereby certify that the foregoing is true and correct  
SIGNED *Conventual Franchising Corp.* TITLE \_\_\_\_\_ DATE *2/28/85*

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

COMPANY: CFC UT ACCOUNT # N/A SUSPENSE DATE: \_\_\_\_\_

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: NANCY D'AMADIO

CONTACT TELEPHONE NO.: (312) 580-1650

SUBJECT: CONOCO FED 22-1 22, 95-70 E WINTHROP

STATUS UPDATE + WCN

(Use attachments if necessary)

RESULTS: CFC TOOK INTEREST IN WELL TO SECURE A LOAN TO REX DOLTON... WHICH

INTEREST IS NO LONGER HELD. THEY ARE IN LITIGATION WITH DOLTON, AND CAN NO

LONGER LOCATE HIM. NANCY SUGGESTED THAT WE CONTACT THEIR ATTORNEY FOR

A POSSIBLE LEAD IN FINDING DOLTON: STEVE KEEN OF MAYER-BROWN-PLATT

(303) 595-9900

(Use attachments if necessary)

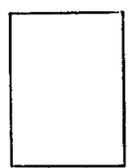
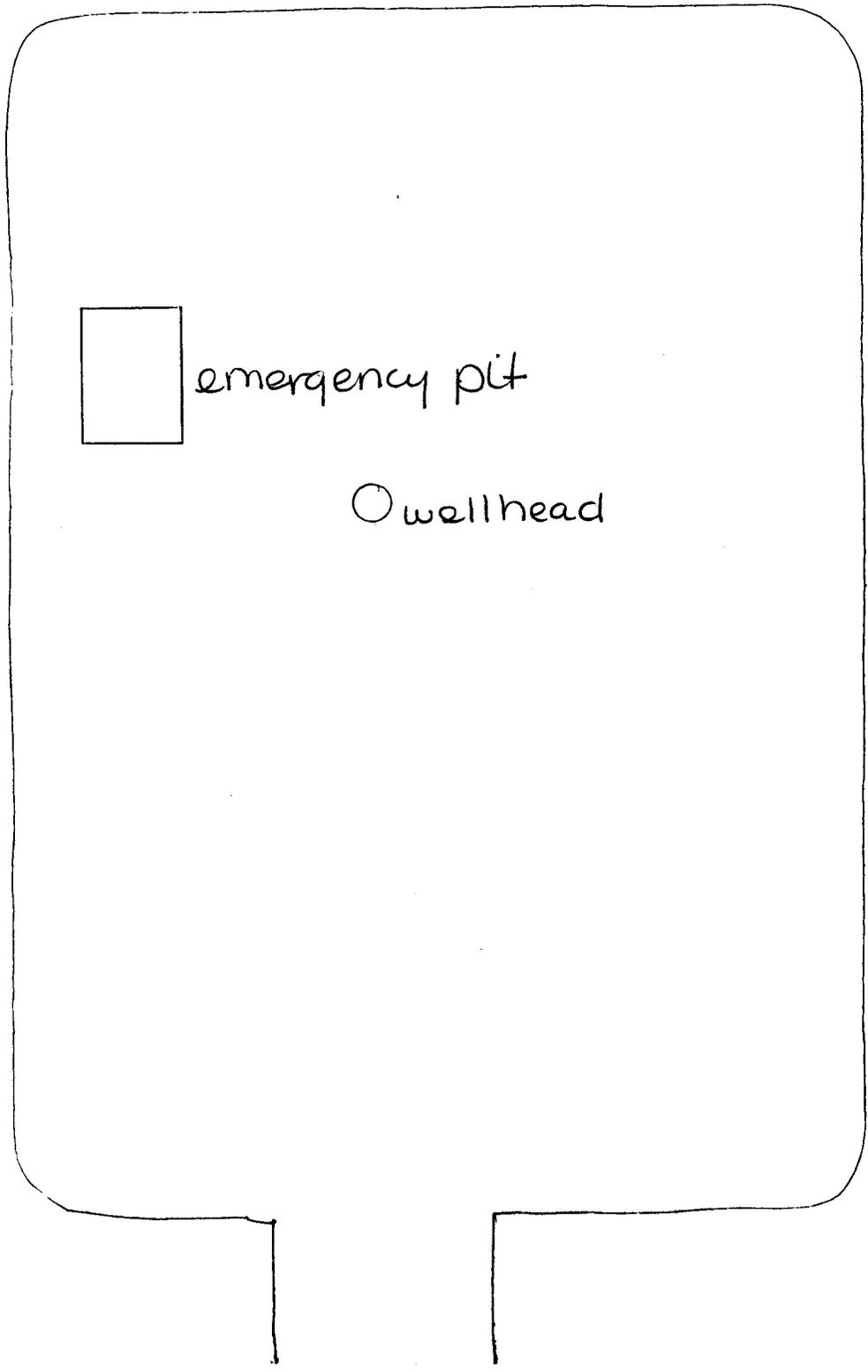
CONTACTED BY: [Signature]

DATE: 11-13-86

Conoco Id 22-1

Sec 22, T9S, R20E

Brubly 1/17/89



emergency pit

wellhead

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-0577A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

- LEX DOLTON

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

22-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 22-9S-20E.

14. PERMIT NO.

13-047-30111

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

4,833' GR. 4,856' RB.

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

Change of Operator

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(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.)\*

As per attached executed Designation of Operator, dated December 23, 1981, will you please change the name of the operator;

From: Gilman A. Hill  
6200 Plateau Dr.  
Englewood, CO 80111

To: L. Lex Dolton  
7257 S. Tucson Way, Suite 135  
Englewood, CO 80112

RECEIVED

JUL 25 1991

DIVISION OF  
OIL GAS & MINING

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

SIGNED

*E. R. Haymaker*  
E. R. Haymaker

TITLE

Agent for L. Lex Dolton

DATE

12/23/81

(This space for Federal or State office use)

APPROVED BY

*E. W. Guynn*

TITLE

E. W. Guynn  
District Oil & Gas Supervisor

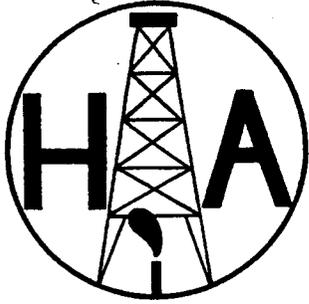
DATE

MAR 10 1982

CONDITIONS OF APPROVAL, IF ANY

*file*

\*See Instructions on Reverse Side



## **HAYMAKER & ASSOCIATES**

*Professional Engineering Services*

1720 S. Poplar, Suite 5, Casper, Wyoming 82601 Ph. (307) 234-6186

March 1, 1982

Edgar W. Gynn, Dist. Supervisor  
Minerals Management Service  
2000 Administration Bldg.  
1745 West, 1700 South  
Salt Lake City, Utah 84104

Re: L. Lex Dolton Well 22-1,  
U-0577-A, SW $\frac{1}{4}$ SW $\frac{1}{4}$  Sec. 22,  
T. 9 S., R. 20 E.,  
Uintah County, Utah

Dear Sir:

We are enclosing Amended Well Completion Report, Designation of Operator and Sundry Notice showing change of operator. Conoco desires to have its name deleted from the operations of this well.

Accordingly, please refer to it in the future as the L. Lex Dolton #22-1.

If anything else is required, please let us know.

Very truly yours,

HAYMAKER & ASSOCIATES

E. R. Haymaker, P. E. #2140

Enclosures

**RECEIVED**

JUL 25 1991

DIVISION OF  
OIL GAS & MINING



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor  
Dee C. Hansen  
Executive Director  
Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

August 26, 1992

L. Lex Dolton  
2601 South Quebec #5  
Denver, Colorado 80231

Dear Mr. Dolton:

Re: Continental Funding Corporation to L. Lex Dolton  
#22-1 well, Sec. 22, T. 9S, R. 20E Uintah County,  
Utah.

In reviewing the operator change for the referenced well, it was determined that your company is not currently registered with the Utah Department of Commerce. This letter is written to advise you of your responsibility to register your company with the state prior to conducting business within Utah. This can be accomplished by contacting:

Department of Commerce  
Division of Corporations  
160 East 300 South  
Salt Lake City, Utah 84111  
(801) 530-4849

Sincerely,

Lisha Romero  
Administrative Analyst

cc: Dept. of Commerce  
D.T. Staley  
R.J. Firth  
Operator File(s)  
Correspondence File/lde

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator: LEX DOLTON

3. Address and Telephone Number: 12835 E. ARAPAHOE RD., TOWER 2 SUITE 300  
ENGLEWOOD, CO 80112 (303) 792-0416

4. Location of Well  
Footages: SW SW Sec. 22 - T9S - R20E  
OO, Sec., T., R., M.:

5. Lease Designation and Serial Number:

U-0577-A

6. If Indian, Allocated or Tribe Name:

7. Unit Agreement Name:

8. Well Name and Number:

FEDERAL 22-1

9. API Well Number:

43-047-30111

10. Field and Pool, or Wildcat:

NATURAL BUTTES

County: UINTAH

State: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT  
(Submit in Duplicate)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

SUBSEQUENT REPORT  
(Submit Original Form Only)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other \_\_\_\_\_
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Date of work completion \_\_\_\_\_

Approximate date work will start

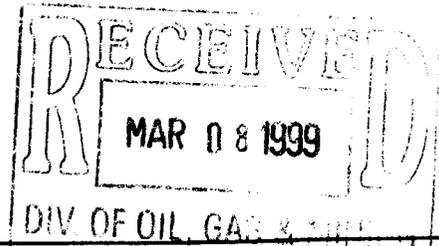
LATE MAY OR EARLY JUNE

Report results of Multiple Completions and Re Completions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

LEX DOLTON IS GIVING OPERATING RIGHTS TO COASTAL TO RECOMPLETE SEVERAL ZONES IN THE WASATCH FORMATION. THE CHANGE OF OPERATOR SHOULD BE COMPLETE WITHIN THE NEXT COUPLE OF WEEKS.



13.

Name & Signature:

*[Handwritten Signature]*

Title:

Date:

3/9/99

(This space for State use only)