

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NM-34580

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Firerock Federal #1

9. API Well No.

30-043-20847

10. Field and Pool, or Exploratory Area

Wildcat/Dakota

11. County or Parish, State

Sandoval, New Mexico

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____

- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

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

13. 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.)*

Please see the attached chronological report for the drilling and plugging operations on the above-referenced well.

RECEIVED
NOV 23 1990
OIL CON. DIV.
DISPATCH

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

Signed

Title Regulatory Analyst

Date October 17, 1990

(This space for Federal or State office use)

ACCEPTED FOR RECORD

Approved by _____

Title _____

Date _____

Conditions of approval, if any:

NOV 15 1990

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

COASTAL OIL & GAS CORPORATION
CHRONOLOGICAL HISTORY

COGC #1-3-21-5 FEDERAL
FIREROCK PROSPECT
SANDOVAL COUNTY, NEW MEXICO
CONTR: FOUR CORNERS #8/M-I
WI: 100.00% COGC AFE: 12586
TD: 6320' (BURRO CANYON)
SD: 8/23/90
CSG: 8-5/8" @ 591'; 5-1/2" @ 4055'
PERFS: 3450-3456'
CWC(M\$): 435.6

8/22/90 WORT. Will spud Friday, 8/24/90.

8/23/90 MIRT. Will spud this P.M. CC: \$10,974.

8/24/90 591' WOC 579'/9 hrs. Spud 2:45 p.m. 8/23/90. Drlg & svys. Circ & svy, TOOH. RU csg crew. Run 13 jts (579.60') 8-5/8", 24#, J-55, ST&C csg + landing joint (4 Corners). RU Dowell Schlumberger & circ. Cmt w/155 sx "G" (65-35 Poz) w/6% Gel, 2% CaCl₂, 1/4#/sk Celloflake; 200 sx "G", 2% CaCl₂, 1/4#/sk Celloflake. Circ 40 bbls cmt to surf, displace w/34.5 bbls wtr. Cmt in place @ 4:00 a.m. Bump plug to 760 psi, float held. WOC. SVYS: 1/4 deg @ 91'; 3/4 deg @ 303'; 3/4 deg @ 432'; 3/4 deg @ 573'. MW 8.9, VIS 40, WL N/C. CC: \$35,899.

8/25/90 1320' Drlg 729'/9-3/4 hrs. WOC. Cut off csg, weld on head. Test to 1000 psi - OK. NU BOPE. Test blink rams and choke manifold to 2000 psi/15 mins - OK. PU BHA & TIH. Test pipe rams & BOPE equipment to 2000 psi/15 mins - OK. Drill cmt, FC & FS. Drlg & svys. BGG 4 U, 60% SH, 40% SD. SVYS: 1-1/2 deg @ 758'; 1-1/4 deg @ 821'; 1 deg @ 944'; 3/4 deg @ 1068'; 1 deg @ 1227'. MW 8.8, VIS 40. WL 8, PV 11, YP 9, 2% SOL, PH 8.5, ALK .1/.3, CL 400, CA 200, GELS 3, 10" 8, CAKE 1. CC: \$53,148.

8/26/90 2800' Drlg 1480'/22 hrs. Drlg, svys, drlg. Cliffhouse, BGG 20-100 U, CG 120-175 U. Ojo Alamo @ 1120'; Pictured Cliffs @ 1636' (Coal 1624'); Chacra @ 2010'. 60% siltstone, 20% SDST, 20% SH. SVYS: 3/4 deg @ 1478'; 3/4 deg @ 1697'; 3/4 deg @ 1914'; 3/4 deg @ 2442'. MW 9.0, VIS 46, WL 7.5, PV 17, YP 13, 4% SOL, PH 10, ALK .3/.5, CL 400, CA 80, GELS 4, 10" 11, CAKE 1. CC: \$78,297.

8/27/90 3330' Circ samples for geologist. 530'/14 hrs. Drlg, TOOH 3 stds for RR. Rig repair - drawworks, drive shaft. TIH. Drlg, svy, drlg. Circ samples @ 3161' TFNB. Drlg, Circ samples @ 3330'. Cliffhouse @ 2438'; Manatee Coal @ 3116'. Cliffhouse, 90% SH, 10% siltstone, TR SS. BGG 25 U, TG 80 U. Drlg brk in Cliffhouse from 3295-3302', MPF 2-1/2-2, gas units 30-65-30, 75% SH, 25% SS, some fluor & weak cut, slight oil stain. SVYS: 1-1/4 deg @ 2983'; misrun @ 3132'. MW 9.1, VIS 40, WL 8, PV 10, YP 8, 4% SOL, PH 9, ALK .3/.6, CL 400, CA 100, GELS 2, 10" 9, CAKE 1. CC: \$89,816.

8/28/90 3865' Circ samples for geologist. 535'/16-1/4 hrs. Circ samples @ 3330'. Drlg, RS, drlg. Circ samples @ 3485'. Svy, drlg, RS, drlg. TOOH 25 stds, RR - light plant. TIH, drlg, circ samples @ 3865'. Pt. Lookout SS @ 3848', 90% SH, 10% SS, TR coal. BGG 100 U, TG 330 U. SVY: 1-1/4 deg @ 3446'. MW 9.1, VIS 40, WL 8, PV 12, YP 9, 3% SOL, PH 8.5, ALK .3/.7, CL 400, CA 100, GELS 3, 10" 13, CAKE 1. CC: \$101,818.

<u>DRLG BRKS</u>	<u>MPF</u>	<u>GAS UNITS</u>
3448-3460'	2-.5-1	90-450-110 Cliffhouse
	BR fluor, some oil stain, 50% SH, 50% SS, TR coal	
3471-3480'	1.5-.5-2	110-110-110 Cliffhouse
	60% SS, 40% SH, TR coal	
3848-3865'	1.5-.5-	95-1850- Pt. Lookout
	50% SH, 20% SS, 30% Coal, abd. coal, some fluor, no cut	

8/29/90 4481' Survey 616'/23 hrs. Circ samples @ 3865'. Drlg, svy, drlg, RS, drlg, svy. Mancos SH @ 4064', 80% SH, 20% siltstone, BGG 70 U, CG 100 U. SVY: 3/4 deg @ 3944'. MW 9.1, VIS 40, WL 9, PV 9, YP 7, 3% SOL, PH 9, ALK .3/.6, CL 400, CA 80, GELS 2, 10" 9, CAKE 1. CC: \$114,689.

8/30/90 5000' Drlg 519'/23-1/4 hrs. Svy, drlg, RS, drlg, RS, drlg. Gallup @ 4904'. 75% SH, 25% SDST, BGG 60 U, CG 80 U. Lost 450 bbls to seepage from 4930' to 5000'. SVY: 1-3/4 deg @ 4441'. MW 9.1, VIS 40, WL 8.8, PV 12, YP 9, TR LCM, 3% SOL, PH 9, ALK .3/.5, CL 400, CA 100, GELS 4, 10" 13, CAKE 1. CC: \$126,925.

8/31/90 5400' Drlg 400'/23 hrs. Drlg, svy, drlg. Trip for hole in DP, 2 stds down, below tool jt. RS, drlg. Gallup SH, 80% SH, 20% siltstone, BGG 120 U, CG 140 U. Drlg brk in Gallup from 5090-5094', MPF 3.5-1.5-3.5, gas units 120-1300-120, Shale gas show. SVY: 1 deg @ 4969'. MW 9.1, VIS 42, WL 8, PV 15, YP 11, 4% SOL, PH 8, ALK .2/.4, CL 400, CA 100, GELS 6, 10" 16, CAKE 2. CC: \$138,645.

9/1/90 5841' Drlg 441'/23-1/4 hrs. Drlg, svy, drlg, RS. Drlg in Gallup, 90% SH, 10% siltstone, BGG 100 U, CG 120 U. SVY: ~3/4 deg @ 5443'. MW 9.1, VIS 40, WL 9.0, PV 16, YP 9, 4% SOL, PH 9, ALK .2/.6, CL 400, CA 80, GELS 3, 10" 17, CAKE 2. CC: \$151,103.

9/2/90 6150' Wipe hole & prep to DST. 309'/17-3/4 hrs. Drlg, RS, drlg. Svy, drlg, RS, drlg. RS, drlg, circ for DST #1, Burro Canyon @ 6150-6130'. Svy, TOOH for DST #1. Greenhorn @ 5804'; Dakota 5882'; Burro Canyon 6139'. BGG 100 U, CG 120 U, 80% SH, 20% Siltstone. Drlg brk in burro Canyon from 6139-6150', MPF 3-1-1/4- , MPF 90-45- , inconclusive show w/sand grains, 100% SD. SVY: 1-3/4 deg @ 5937'. MW 9.0, VIS 40, WL 8, PV 18, YP 10, 5% SOL, PH 9.0, ALK .3/.8, CL 400, CA 80, GELS 7, 10" 22, CAKE 2. CC: \$160,578.

9/3/90 6150' Testing: DST #1, Burro Canyon, 6130-6150'. Wipe hole, SLM - no correction. TIH, LD 1 DC and bit sub (washed). Wash & ream to bttm, 8' fill. Circ & cond hole for DST #1. TOOH. PU test tools, TIH, RU manifold. Run DST #1 w/Baker Service Tools. See attached for test results. BGG 80 U, TG 160 U. SVY: 1-1/2 deg @ 6120'. MW 9.1, VIS 42, WL 8.5, PV 17, YP 9, 5% SOL, PH 9, ALK .3/.7, CL 400, CA 80, GELS 7, 10" 19, CAKE 2. CC: \$173,423.

9/4/90 6320' TOOH to run logs. 170'/10-3/4 hrs. Run DST #1, Burro Canyon from 6130-6150'. POOH w/DST #1. LD test tools, TIH. Wash 28' to btm. Drlg, RS, drlg. Circ for E logs. TOOH for E logs. Morrison @ 6252', BGG 80 U, TG 180 U, 80% SH, 20% SD. MW 9.1, VIS 50, WL 8, PV 23, YP 16, 5% SOL, PH 9, ALK .3/.8, CL 400, CA 80, GELS 10, 10" 23, CAKE 2. CC: \$187,323.

9/5/90 6320' Running E logs. TOOH for E logs. RU Halliburton Logging Services. Log open hole: DITI (DIL, LSS (Sonic), SDL-DSN-Micro (Neutron-Density). All logs from TD to surface. Logger's TD @ 6314'. Now cutting sidewall cores. Have cut 3 of 12. MW 9.1, VIS 50, WL 8, PV 23, YP 16, 5% SOL, PH 9, ALK .3/.8, CL 400, CA 80, GELS 10, 10" 23, CAKE 2. CC: \$194,808.

9/6/90 6320' RU to run 5-1/2" csg. Run E logs. TIH, cut drlg line. TIH, wash 28' to btm & circ. TOOH, LD DC's & HWOP. TIH open-ended, PU 13 jts DP. Circ & RU Howco. Pump: plug #1 w/55 sx Neat "G" from 5930-5830', LD DP; plug #2 w/55 sx Neat "G" from 4945-4845', LD DP; pump plug #3 w/50 sx Neat "G" from 4189-4089', LD DP. Circ & condition mud @ 4069', LD DP. RU to run 5-1/2" csg, change to 5-1/2" rams. MW 9.1, VIS 40, WL 7, PV 14, YP 10, 5% SOL, PH 9, ALK .3/.6, CL 400, CA 100, GELS 3, 10" 9, CAKE 2. CC: \$235,259.

9/7/90 6320' Prep location for completion rig. TIH w/5-1/2", 17#, K-55, LT&C csg. 104 jts (4055.91') set at 4055', FC @ 4017'. 1 turbolator per jt for 24 jts from 4035' to 3125'. Circ & RU Howco. Mix and pump 1800 gal mud flush; 670 sx Lite cmt, 0.5 lb/cu ft Perlite, 2% CaCl₂, 0.5% CFR-3, 1/4#/sk Flocele; 470 sx "G", 0.5% Halad 322, 93 bbls fresh water. Circ 58 bbls cmt to surf. Bump plug to 2100 psi (500# over). Floats held. Cmt in place @ 11:00 p.m., 9/6/90. Clean mud pits. ND BOP. Set csg slips @ 50,000#, cut off csg. RR @ 3:00 p.m., 9/6/90. CC: \$306,963.

COMPLETION/PRODUCTION REPORT:

9/8/90 MIRU completion unit. MIRU spot equipment.

COASTAL OIL & GAS CORPORATION
CHRONOLOGICAL HISTORY

FIREROCK FEDERAL #1-3
SANDOVAL COUNTY, NM

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- 9/9/90 Swab test. Install and test tbg head. Tally & PU tbg and 4-5/8" mill & csg scraper. Tag cmt 3975'. Called - this depth OK. Displace hole w/2% KCL. TOH. RU HLS Wireline. Run CCL-CBL-GR. Cmt to surface. Ran w/1000 psi. Test csg to 2000 psi. Swab FL down to 1000'. Perforate 1 JSPF from 3852-58' & 3946-50'. TIH w/Model "R", set @ 3797'. Test to 500 psi. IFL w/900' swab down 3000'. DC: \$14,540.
- 9/10/90 Swab test. Swabbing IFL 900', FFL 3600'. Recover 41-1/2 BW. TR mud, no oil or gas (25 bbls OL). Acdz 3852-58', 3946-50' w/1200 gals 15% acid + 15 ball sealers. Broke down @ 1200 psi. Air 3 BPM @ 1100 psi. Ball off 1 bbl prior to finishing flush. ISIP 600 psi, 5 min 500 psi, 10 min 400 psi. Surge off balls. finish job. Swabbing IFL surface, FFL 3200'. Swab 2 runs/hr. Load 47 bbls - recover 78.5 bbls. Last 10 hrs made 6 BPH. Last 9 hrs cut 1% oil, no gas, TR mud. CC: \$330,453.
- 9/11/90 Swab test. Avg 4 BPH, 1% oil, 99% wtr, TR mud. FL 3700', 2 runs/hr. Release pkr, POOH. RU HLS Wireline. Set CIBP @ 3800'. Dump bail 50' cmt on top of CIBP. Perf 3724-28' & 3656-60', 1 JSPF - 10 holes. FL 960', no press increase. RIH w/Model "R" pkr, set @ 3612'. Test to 500 psi - OK. Load to recover 12.75 bbls. Swab test zone. IFL 800'. Recover 38.71 BF after load. Last 9 hrs 5% oil, TR gas, avg 3.4 BPH. Wtr analysis from Point Lookout formation: 3946-50' & 3852-58', 13,500 PPM CL, 6.76 pH, 70 PPM Ca, 700 mg/L Pot, Rw .31 @ 76°F. CC: \$351,783.
- 9/12/90 Rig repair. Swab test, recover 17 BF - 3.4 BPH, 5% oil, gas increasing. RU Smith Energy. Acdz perfs 3724-28', 3656-60' w/1000 gals 15% acid + additives. Broke down at 1800 psi, air 3.3 BPM @ 1875 psi. Balled off 2 bbls before end of flush. ISIP 1350 psi; 5 min = 1200 psi; 10 min = 1050 psi. Surge off balls. Load to rec = 40.6 bbls. Swab test, recover 46 bbls. Pkr came loose. Lost annulus down hole. New load to recover ± 60 bbls. Swab test, lost sand drum chain, RR. Totals since acid job: Total swabbed = 167.9 bbls; load = 100.0 bbls; over load = 67.9 bbls. Working FL = 2400'. Oil recovery 1 to 2%. Water analysis: 3724-28' & 3656-60', 9500 PPM CL, Rw = .39 @ 74°F. CC: \$359,083.
- 9/13/90 Swab test. Swab test 3724-28' & 3656-60'. Recover 41.7 bbls, avg 8.3 BPH. 1% oil, show of gas. Release pkr. POH, RIH w/CIBP. Set @ 3604'. POH, PU HLS. Dump bail 50' cmt on CIBP. Perf 3450-56', 7 holes. IFL 1200' - no change. RIH w/R-3 pkr. Set @ 3396'. Test to 500 psi - OK. Swab Memefee, recover 72.4 BF. 1-2% oil, TR gas, 20 to 25% BS. 5.9% BFH after swab down. (Rec 60 bbls after load.) CC: \$368,980.
- 9/14/90 Swab test. Recover 85 BF: 1% oil, TR gas, 20-35% emulsion, avg 7.7 BPH. Rig up Smith. Acdz 700 gals 15% w/additives. Broke 1600 psi. Air 3.3 BPM @ 1450 psi. Tag w/2 MC IR 192. ISIP 1000 psi. Ran GR w/HLS. Load to rec 40 BF. Swab test. recover 108 BF, 68 BF after load. Avg 9.5 BPH, oil = 1%, TR gas. BS @ 20%, some runs no oil. CC: \$379,163.
- 9/15/90 Swab tstg. Swab tst, recover 81 bbls total fluid. 1% oil, TR gas, 8 BFPH, FL 2700'. RR, rig dn swab, TOH w/pkr. TIH w/CIBP - set @ 3440', POOH. RU HLS. Perf 3370-82', 13 holes, IFL 1000'. RIH w/pkr. Set at 3333'. Test 500 psi - OK. Swab well down. Recover 9.45 bbls. (Hole vol 9.8 bbls.) No entry, WO acid. RU Smith Energy. Acdz 3370-82', 1300 gals 15% + add, 16 ball sealers. Broke at 1300 psi. Avg 3.7 BPM @ 2100 psi. ISIP 1500 - 5 min, 790 psi; 10 min - 500 psi. Did not ball off. CC: \$79,926.
- 9/16/90 Prep to perf. RD Smith, RU swab. Swab test 3370-82'. Recover 145 BF (load was 45 bbls). Avg 10 BPH, TR gas, TR oil. RD swab. POOH w/pkr. Dump bail 50' cmt on CIBP @ 3440'. Set CIBP @ 3350'. RIH to perf. Misrun, WO perf gun. CC: \$86,846.

COASTAL OIL & GAS CORPORATION
CHRONOLOGICAL HISTORY

FIREROCK FED. #1-3
SANDOVAL COUNTY, NM

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9/17/90 WOO. RIH, perf 3298-3304'. RIH, set pkr @ 3241'. Swab test, recover 43 bbls fluid (33 bbls after load) 100% water and drlg mud, no oil or gas. Rate of entry 4 bbls/hr. Water sample showed CH 19,400, RES .22 @ 65". WOO, rig shut down per Houston. CC: \$399,860.

9/18/90 Prep to plug. RD swab. POOH w/pkr. RU Petro Wireline. Dump 50' cmt on CIBP @ 3350'. Set CIBP @ 3225'. RIH w/tbg. Test CIBP to 1000 psi, held OK. Circ hole. SDFN. CC: \$407,235.

9/19/90 Weld on plug. RU Howco, mix and pump 396 sx CL "G" cmt to surf from 3224'. LD tbg. Cut off head. Top off 8-5/8" and 5-1/2" to surf. RD, clean loc, MO. Will install dry hole marker this a.m. CC: \$112,621. FINAL REPORT - WELL P&A'D.

DRILLSTEM TEST REPORT

Prospect Name FIREROCK Date 9-3-90
 Well Name FIREROCK FEDERAL 1-3
 DST No. 1 Test Interval 2130' to 6150'
 Formation Tested BURRO CANYON

Initial Flow 15 Mins IMMD. WEAK BLOW, 1"/1 MIN., 7"/5 MIN.,
BOTTOM OF BUCKET (56 OZ.) / 9 MIN., 7 OZ. / 15 MIN.

Initial Shutin 60 Mins DEAD IN 25 MINUTES

Final Flow 120 Mins IMMEDIATE WEAK BLOW, 5"/5 MIN.,
10"/10 MIN., BTM. BUCKET (56 OZ.) / 11 MIN., 7 OZ. / 15 MIN., 7 OZ. / 20 MIN.,
6 OZ. / 70 MIN., 6 OZ. / 100 MIN., 5 OZ. / 110 MIN., 5 OZ. / 120 MIN.

Final Shutin 240 Mins DEAD IN 15 MINUTES

Recovery:

<u>400</u>	Ft &	<u>568</u>	Bbls	<u>MUDDY WATER</u>
<u>2400</u>	Ft &	<u>2878</u>	Bbls	<u>WATER</u>
	Ft &		Bbls	
	Ft &		Bbls	

Flowing DST Data NONE

Chlorides: Recoveries 8100 ppm Rw 0.68 @ 80 °F
 pH = 7.0 ppm PIT CHLORIDES = 400 ppm
 Sample Chamber: 2300 cc volume Pressure 11 psi
 Recovery: 2300 CC.'S WATER CHLORIDES = 8600 PPM

	<u>PRESSURES</u>		
	Top	Middle	Bottom
Depth of Bomb	<u>6108'</u>	<u>6143'</u>	<u>6149'</u>
Initial Flow	<u>212</u> to <u>476</u>	<u>200</u> to <u>447</u>	<u>238</u> to <u>448</u>
Initial Shutin	<u>476</u> to <u>2360</u>	<u>447</u> to <u>2341</u>	<u>448</u> to <u>2339</u>
Final Flow	<u>493</u> to <u>1257</u>	<u>440</u> to <u>1262</u>	<u>450</u> to <u>1266</u>
Final Shutin	<u>1257</u> to <u>2311</u>	<u>1262</u> to <u>2296</u>	<u>1266</u> to <u>2263</u>
Initial Hydrostatic	<u>2949</u> to _____	<u>2935</u> to _____	<u>2939</u> to _____
Final Hydrostatic	<u>2905</u> to _____	<u>2891</u> to _____	<u>2913</u> to _____

Temperature 165 °F Surface Choke 1/8" Bottom Choke 9/16"

REMARKS: GOOD MECHANICAL TEST, SLIGHT PLUGGING
IN FIRST FLOW

BAKER SERVICE TOOLS, HOBBS, NEW MEXICO