



00202393

STATE OF COLORADO
NATURAL RESOURCES CONSERVATION COMMISSION
DEPARTMENT OF NATURAL RESOURCES

RECEIVED

OCT 10 1986

CONFIDENTIAL

File one copy for Patented, Federal and Indian lands.
File in duplicate for State lands.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____				5. LEASE DESIGNATION AND SERIAL NO. 72/3415-STATE	
b. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____				6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A	
2. NAME OF OPERATOR COX OIL & GAS, INC.				7. UNIT AGREEMENT NAME TOW CREEK UNIT	
3. ADDRESS OF OPERATOR 3800 Interfirst One Bldg. Dallas, Texas 75202				8. FARM OR LEASE NAME COX TOW CREEK STATE	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) At surface 884.3' FNL & 306.36' FWL Sec. 31-T6N-R86W At top prod. interval reported below Top of Niobrara (NAME OF DRILLING CONTRACTOR (Kelly Drlg. Co)) At total depth (6035' last measured depth) BHL: 529.7' FNL & 619.64' FWL @ MD 4760' & TVD 4654.03' BHL: 92' FNL & 866' FEL of Sec. 36-T6N-R87W				9. WELL NO. #1-36	
14. PERMIT NO. 85-1025		DATE ISSUED 8/7/85		10. FIELD AND POOL, OR WILDCAT Grassy Creek	
15. DATE SPUDDED 9/16/85		16. DATE T.D. REACHED 10/27/85		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec. 31-T6N-R86W 36	
17. DATE COMPL. (Ready to prod.) *See Below (Plug & Abd.)		18. ELEVATIONS (DE, REB, RT, GR, ETC.) 7891.5 GL (7903' KB)		12. COUNTY Routt	
19. ELEV. CASINGHEAD 7891' GL		13. STATE CO		14. PERMIT NO. 85-1025	
20. TOTAL DEPTH, MD & TVD 6064' TVD		21. PLUG, BACK T.D., MD & TVD 6040' TVD		22. IF MULTIPLE COMPL., HOW MANY ---	
23. INTERVALS DRILLED BY ---		24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) Top of Niobrara 4760' (MD) 4646' (TVD) Perfs @ 5910-30' & 5874-94' Bottom of Niobrara 5995' (MD) 5711' (TVD)		25. WAS DIRECTIONAL SURVEY MADE Yes-Attached	
26. TYPE ELECTRIC AND OTHER LOGS RUN DIL/Dipmeter/Sonic/Temperature/LSSonic		27. WAS WELL CORED YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (Submit analysis) DRILL STEM TEST YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> (See reverse side)		28. CASING RECORD (Report all strings set in well)	
29. LINER RECORD		30. TUBING RECORD		31. PERFORATION RECORD (Interval, size and number)	
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		33. PRODUCTION		34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)	
35. LIST OF ATTACHMENTS		36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records		37. SIGNED	

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36#	642'	12-1/4"	350 sx Class A	
7"	23#	4626'	8-3/4"	200 sx 50/50 Poz "A"	
4-1/2"	11.6#	6064'	6-1/4"	125 sx 50/50 Poz "H"	

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
4-1/2"	4223'	6064'	125		2-7/8"	4072'	
					2-3/8"	6007'	

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)
11/23/85	Pumping-American 160-173-74	Pmpg-WO continuation of completion

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	WATER—GAL.	WATER—GAL. PER BBL. OIL
			NO TEST					

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

TEST WITNESSED BY

Gas Flared or used UPG/Oil

Directional Survey, Geological Report.

One copy each Electric logs (one set filed when run).

SIGNED Hugh J. Cotton TITLE Drilling Manager DATE 10/8/86

See Spaces for Additional Data on Reverse Side

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES.

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Shale	0'	899'	
Sand/Shale	899'	1,367'	
William Fork	1,367'	1,940'	
Isles	1,940'	2,637'	
Mancos	2,637'	4,646'	
Niobrara	4,646'	5,711'	
Carlile	5,711'	

#32. FRAC PROCEDURES

Data Frac (perfs 5910-30')
15,800 gallons CO₂ foam @ 12 BPM

#1 (perfs 5910-30')
45,100 gallons CO₂ assisted water gel
w/12,000 gallons acid pad & 7500#
20/40 sand @ 10 BPM; screened out.

#2 (perfs 5874-94')
62,290 gallons CO₂ assisted frac w/
4400# 20/40 sand; screened out.

#3 (perfs 5874-94')
64,970 gallons gelled water w/12,960#
20/40 sand; screened out.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
<p>DATE: 06, MAY 8 1967, 10:00 AM LOCATION: SOUTH PACIFIC OCEAN, OFFSHORE OF HAWAII SURFACE CURRENTS: 1-2 KNOTS, DRIFT: 1/2 DEG S, 1/2 DEG E WIND: 10-15 KNOTS, SEA STATE: 3-4 METERS TEMPERATURE: 25.0 C, SALINITY: 35.0 PER MIL PRESSURE: 1013.0 MB, HUMIDITY: 75% VISIBILITY: 10 KILOMETERS, CLOUD COVER: 5-10% COMMENTS: GOOD OBSERVATIONS, NO SIGNIFICANT CHANGES FROM PREVIOUS DATA.</p>	<p>MEASUREMENTS: 100 METER DEPTHS SAMPLED AT 0, 25, 50, 75, 100 METERS RESULTS: 25.0 C, 35.0 PER MIL, 1013.0 MB ANALYSIS: STABLE CONDITIONS, MINOR FLUCTUATIONS IN TEMPERATURE AND SALINITY.</p>	<p>RECOMMENDATION: CONTINUE OBSERVATIONS ON 08, MAY 8 1967 6011 U 138C</p>