Form 3160-5
(June 1990)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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

5. Lease Designation and Serial No.
SF-078497

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
SAN JUAN 28-7 UT 238R

2. Name of Operator
Amoco Production Company

Attention:
WAYNE BRANAM

9. API Well No.
3003925336

3. Address and Telephone No.
P.O. Box 800, Denver, Colorado 80201 (303) 830-4912

10. Field and Pool, or Exploratory Area
BASIN DAKOTA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1500 FSL 1640FWL K Sec. 29 T 28N R 7W

11. County or Parish, State
RIO ARRIBA NEW MEXICO

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

TYPE OF SUBMISSION	TYPE OF ACTION	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other SIDETRACK	☐ 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.)*

DUE TO COMPLETION PROBLEMS AMOCO PROPOSES TO SIDETRACK THIS WELL TO A NEW BOTTOM HOLE LOCATION USING THE ATTACHED PROCEDURE.

RECEIVED
MAR 24 1994
OIL CON. DIV.
DIST. 3

94 MAR 21 PM 2:06
070 FARMINGTON NM
RECEIVED
BLM

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

Signed A Wayne Branam Title Business Analyst Date 03-16-1994

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

APPROVED
MAR 22 1994
DISTRICT MANAGER

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, ficticious, or fraudulent statements or representations as to any matter within its jurisdiction.

* See Instructions on Reverse Side

NMOCD

\SIDETRACK PROCEDURE

San Juan 28-7 Unit #238R
29-28N-7W 1500' FSL 1640' FWL
Orig. Comp. 2/94
TD = 7453'

Per Geologist, prefer BHL to be to the NW of current location. To avoid location exception new BHL can NOT be more than 350' N and 220' W of current location.

1. Check location for anchors. Install if necessary. Test anchors. Record TP, SICP and SIBHP.

2. MIRUSU. Blow well down. NDWH. NUBOP.

3. TOH with tubing and inspect. Replace any bad joints. Contact Blue Jet, run casing inspection log to determine location of perfs. Fax results to Lara Kwartin in Denver at (303) 830-4777.

4. Pick up casing scraper, 20-4 3/4" drill collars and 3 1/2" drill pipe. Run scraper to PBTD .

5. TIH with an cement retainer and set at 5960'. Sting into retainer and pump 200 sx of 50/50 poz cement w/2% Gel-1% FLA-10% salt followed by 100sx of neat B cement with 2% retarder.

6. RDMOSU.

7. MIRURT.

8. Set CIBP on wireline at +/- 5900', approx. 2' above a casing collar with wireline unit.

9. Orient whipstock to N 10 degrees W (see comment above). Utilize gyro survey.

10. Mill window in 7" casing using 6 1/4" mills; clean out opening sufficiently to clear tricone bits.

11. Rig up air package and dry hole.

12. Pick up tricone button bit with a near bit stabilizer; attempt to increase deviation to approx. 10 degrees by forcing bit with the building assembly.

13. Pick up monel collar when sufficiently clear of the casing to prevent interference and run an adequate number of directional surveys to insure that the hole is generally following a north-westerly course and that the deviation is in the 6-10 degree range. (prime objective of this sidetrack is to obtain an

adequate distance, approx. 100', from the original hole to prevent re-entry during stimulation). Should the direction and/or the deviation not fall within acceptable limits, it may be necessary to make a motor run.

14. Drill to a TVD of 7250'. Run FAC, SDL/DSEN and GR/HRI logs. Fax results to Lara Kwartin in Denver so she can verify perfs for step 22.

15. Run 4 1/2" liner; hang at 5600' and cement with 272 cubic feet of Class B, 50/50 POZ, 2% gel, .4% Halad 413 with 5#/sx Gilsonite, 5% Microbond HT, .4% VersaSet and .25% #/sx Flocele. Cement in one step if air drilled.

16. RDMORT.

17. MIRU workover rig.

18. Drill out cement to PBTD.

19. Run a GR/CCL/CBL, determine if squeeze work will be necessary prior to fracture stimulation.

20. Pressure test casing to 80% of burst rating for 7" casing.

21. Correlate GR/CBL to open hole logs.

22. RU wireline unit with packoff and lubricator. Selectively perforate the following intervals with 1 jspf, 13 holes, 120 deg. phasing, using a 3 3/8" HSC-ported guns. (Charge performance: 16 gm weight, .38" EHD, 15.4" TTP)

PERFORATE DAKOTA

6960'	**7082'**	**7114'**	**7133'**	**7167'**	**7182'**	**7208'**
6963'	**7085'**		**7152'**	**7176'**	**7184'**	
6966'						

23. TIH with PPI tool (1' spacing) or retrievable packer and BP. Breakdown each perforated interval (13 settings) with treated water plus friction reducer. Attempt 1 bpm/setting. Record injection rate and pressures, ISIP and 5 min SI pressures.

24. Fracture stimulate down 3 1/2" tubing per attached procedure. Proppant will contain radioactive tracer.

25. SI overnight. Flow back well on 1/4" choke for first 8 hours and slowly

increasing to 1/2" choke after.

26. Once well logs off, TIH with frac string and clean out to PBTD with N2.

27. Run post-frac GR from PBTD to 6800', or top of RA tracer.

28. RU wireline unit with packoff and lubricator. Re-perf the following intervals w/4 jspf, 90 deg. phasing, using a 3 3/8" HSC-ported guns. Correlate with CBL and original logs run 11/26/93.

PERFORATE

6960'-6970'	**(40 holes)**
7080'-7084'	**(16 holes)**
7112'-7116'	**(16 holes)**
7132'-7134'	**(8 holes)**
7151'-7153'	**(8 holes)**
7166'-7168'	**(8 holes)**
7174'-7186'	**(48 holes)**
7208'-7210'	**(16 holes)**

29. RIH and land tubing at 7180' with a mule shoe on bottom and a seating nipple one joint off of bottom. Flow test up tubing through a test separator until notified by Denver. Record daily surface pressures and flow rates. Obtain daily water samples and final gas samples and fax to Lara Kwartin in Denver (303/830-4777).

Please report any problems to ***Lara Kwartin***

(W) (303) 830-5708
(H) (303) 343-3973

San Juan Unit 28-7 #238R
Location sec 29 - T28N - R07W
Rio Arriba County, New Mexico
Flac # 710384
API # 30-039-25336
GL = 6152'
KB = 6168'