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 078040

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.
CHILDERS 1E

2. Name of Operator
AMOCO PRODUCTION COMPANY

Attention:
D . C. Kalahar

9. API Well No.
3004525573

3. Address and Telephone No.
P.O. Box 800, Denver, Colorado 80201

(303) 830-5129

10. Field and Pool, or Exploratory Area
BASIN DAKOTA

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1100'FNL 1750'FEL Sec. 1 T 31N R 11W Unit B

11. County or Parish, State
SAN JUAN 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 Bradenhead Repair	☐ 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.)*

Amoco intends to perform the attached workover procedure to eliminate bradenhead pressure.

In addition, Amoco also requests approval to construct a temporary 15'x15'x5' blow pit for return fluids. This pit will be reclaimed it utilized, upon completion of this procedure.

If any questions, please call Dallas Kalahar at (303)830-5129.

RECEIVED
DEC 17 1993
OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct
Signed Dallas Kalahar Title Staff Business Analyst Date 12-07-1993

(This space for Federal or State office use)

Approved by _____ Title _____ Date DEC 13 1993
Conditions of approval, if any:

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

* See Instructions on Reverse Side

BRADENHEAD REPAIR PROCEDURE
CHILDERS 1E

December 6, 1993 (1st version)

1. Record TP, SICP, and SIBHP.
2. MIRUSU.
3. TOH with tubing.
4. Set RBP at 7200'.
5. Run a GR/CCL log from 7200' to surface. Determine TOC for both the 7" casing and the 4 1/2" liner.
6. Run a noise log from 100' below the 7" TOC to the surface.
7. Pressure test liner top and squeeze if necessary.
8. Set RBP 100' below the 7" TOC.
9. If TOC is below 2386' perforate 2 squeeze holes at 2840', or 100' above the TOC, whichever is deeper.
10. Squeeze with 200 sacks of cement.
11. If noise log shows that fluid entry is between 500' and 283' then tie cementers into bradenhead valve at the surface.
12. Pump 200 sacks of cement down bradenhead; keep cement level at the surface.
13. WOC 24 hours, then drill out cement to 7200'. Remove all RBP's.
14. TIH with tubing to 7212'.
15. Pump the following acid job at no greater than 2 bbl/min:

Preflush	: 2200 gal 15% HCl
Treatment	: 2200 gal 35% ASOL, 65% (3% HF / 12% HCl) solution
Afterflush	: 2200 gal 15% HCl
Displacement	: 1150 gal 0.2% clay fix II / water

16. Swab back load ASAP.
17. Clean out to PBTD of 7386' with N2 and land 2 3/8" tubing at 7300'. Include a seating nipple one joint off bottom.
18. When production has dried up run 1" coiled tubing and land at 7300' also.
19. Tie well back into surface equipment and return to production.

Note: All water which will contact the DK during this procedure should contain clay fix.

KCl water, when in contact with HF acid, will form unwanted precipitates. The preflush will ensure that any downhole KCl is displaced prior to the pumping of HF acid.

All acid must contain 50 lb of citric acid per 1000 gal. of solution to serve as an iron sequestering agent.

The time between pumping acid and swabbing back the load should be kept to a minimum.

GAS ANALYSIS SERVICE

AMOCO PRODUCTION COMPANY

WELL ANALYSIS COMPARISON

LEASE: CHILDERS 1E

JANUARY 15, 1993

B-1-3/N-11E

	BRDNHD	CASING
DATE:	1/14/93	1/14/93
NO.:	30033	30034
	MOLE %	MOLE %
NITROGEN	1.003	0.105
CO2	0.005	2.256
METHANE	94.582	92.431
ETHANE	3.200	3.360
PROPANE	0.584	0.864
I-BUTANE	0.181	0.207
N-BUTANE	0.123	0.230
I-PENTANE	0.089	0.131
N-PENTANE	0.042	0.090
HEXANE+	0.191	0.326
BTU'S	1053.9	1057.1
GPM	1.2435	1.4962
GRAVITY	0.5923	0.6213

Amoco Production Company

ENGINEERING CHART

Sheet No ____ Of ____

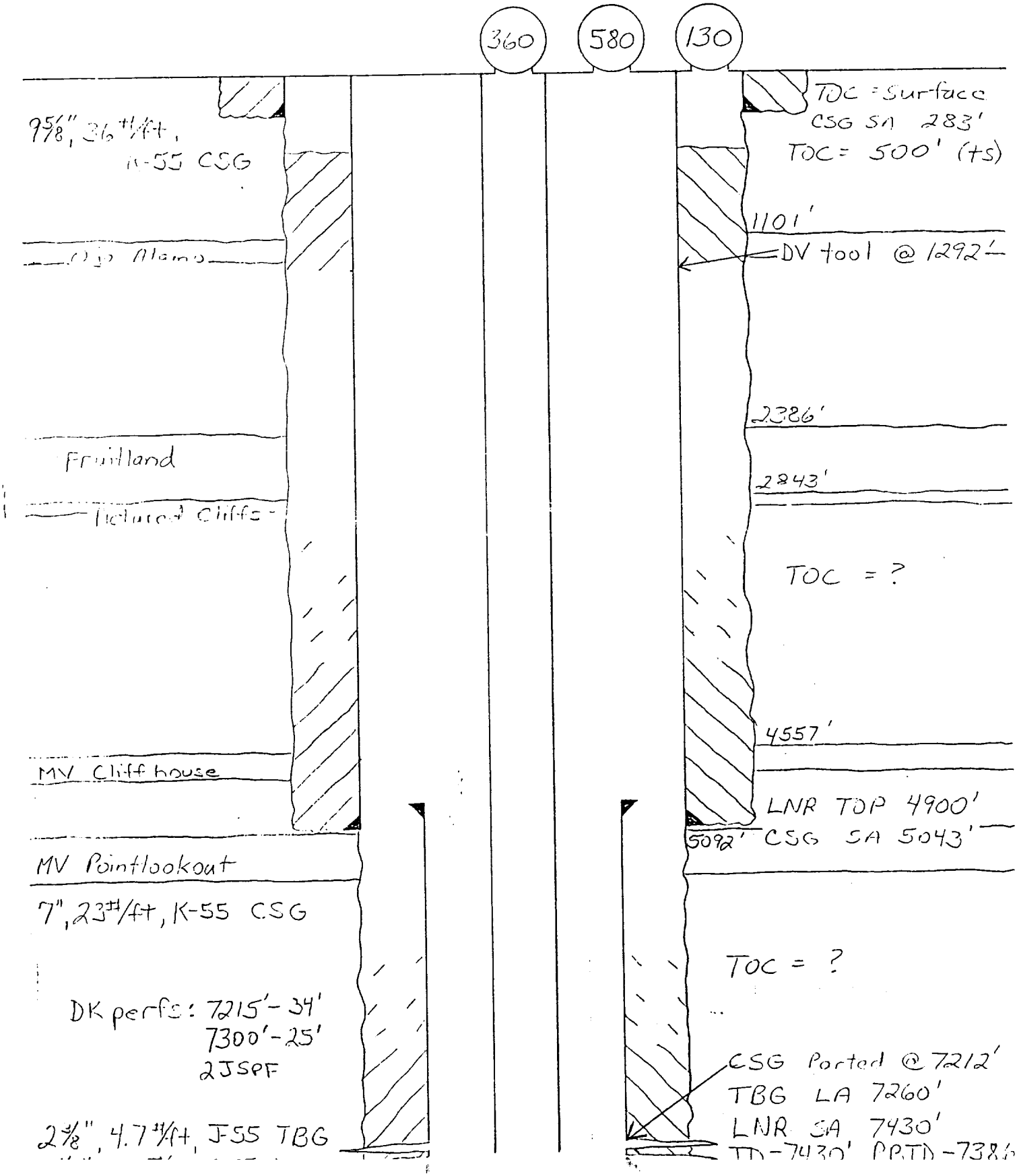
File ____

Appn ____

Date ____

By PAE

SUBJECT Childers 1E



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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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94 JUN -6 PM 1:30
070 FARMINGTON, NM

5. Lease Designation and Serial No.
SF-078040

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

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

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Attention:
Dallas Kalahar

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San Juan New Mexico

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Please see attached for procedures.

RECEIVED
JUN 20 1994
OIL CON. DIV.
DIST. 3

14. I hereby certify that the foregoing is true and correct
Signed Dallas Kalahar | SC Title Staff Business Analyst Date 06-02-1994

(This space for Federal or State office use)

Approved by Title Date
Conditions of approval, if any:

ACCEPTED FOR RECORD
JUN 16 1994
FARMINGTON DISTRICT OFFICE
BY

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 Instructions on Reverse Side

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law 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.

SPECIFIC INSTRUCTIONS

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 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq.,25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE - The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2)

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used.

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal, or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION - Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Wasington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project **(1004-0135)**, Washington, D.C. 20503.

*U.S. GPO. 1990-773-016/20019

CHILDERS 1E

MIRUSU 02/03/94. BLOW WELL DWN, NDWH-NUBOP. TEST BOP TO 1500 PSI, OK. TIH W/2.375" TBG, TAG FILL @ 7340'. PBD 7386', TOH TO 6000'. BLOW WELL DWN, FIN TOH FROM 6000'. RUN WL 3.75" GAUGE RING 4900' TO 7212'. SET 4.5" WL BP @ 7048'. SPOT SAND ON BP W/DUMP BAILER. RUN WL 6.75" GAUGE RING TO 4900'. FILL WELL W/220 BBLS OF 2% KLC WATER. RUN CBL LOG FROM 7038' TO SURFACE. CMT TOP FOR 4.5" LINER @ 5300', CMT TOP FOR 7" CSG @ 330'. RUN NOISE LOG FROM 3500' TO SURFACE. FLOW @ 1200', PRESSURE TEST WELLBORE & BP SET 7048' TO 1000 PSI, 30 MIN OK.

OPEN WELL NO FLOW. PERF 2 SPF @ 2800', TIH TO 2850 W/OPEN ENDED TBG. SPOT 100 SXS CMT 2850', 2550'. CMT B NEAT W/.03% HALAD 322, 5% MICRO BOND, 5% CAL SEAL. TOH TO 2150' REV CIRC CLEAN. WELL WENT ON VACUUM, NO SQUEEZE. FIN TOH. TIH W/7" PK SET @ 2550'. TEST BS TO 500 PSI, OK. CMT W/250 SXS CMT. PERFS @ 2800'. CMT B NEAT W/65-35 POZ, 12% GEL, 6.25# PER SX GILSONITE, 1.25# PER SX FLOW SEAL, .06% HALAD 322. TAIL IN W/50 SX B NEAT W/.03% HALAD 344, 5% MICRO BOND, 5% CAL SEAL. DISPLACE CMT TO 2610', WAIT 30 MIN, SQUEEZE 2 BBLS CMT INTO FORMATION. WELL WENT ON VACUUM. TEST CMT SQUEEZE, PK SET @ 2550', OK. REL PK SET 2550', TOH. TIH W/6.25" BIT, 7" SCRAPPER & 6 3.125" DC. TAG CMT @ 2650', DRLG SOFT CMT TO 2760', CIRC CLEAN, TOH TO 2730'.

TIH FROM 2730' W/6.25" BIT, TAG CMT @ 2760'. DRLG CMT & STRINGERS TO 2900', CIRC CLEAN. PRESSURE TEST CMT SQUEEZE @ 2800' TO 700 PSI, OK. TOH (TIGHT SPOT @ 250'). TIH W/7" BP TO 250', BP TIGHT @ 250'. COULD NOT GET BP PAST 250', TOH. TIH W/7" WL BP SET @ 1100'. PRESSURE TEST TO 1000 PSI, OK. SPOT SAND ON BP SET @ 1100'. PERF 2 SPF @ 900'. RUN DYE TEST 3 BPM 400 PSI. CIRC DYE TO SUR W/100 BBLS PUMPED. CIRC BH FOR 3 HRS W/7" PK SET @ 625'. TEST BS TO 500 PSI, OK. CMT W/300 SX B NEAT W/.03% HALAD 344, .02% SUPER CBL, 5% CAL SEAL. TAIL IN W/100 SXS B NEAT W/.03% HALAD 344, 5% MICRO BOND, 5% CAL SEAL. CIRC 10 BBLS OF GOOD CMT TO SURFACE. DISPLACE CMT TO 800' W/300 PSI.

TOH W/7" PK SET @ 625'. TIH W/6.25" BIT, 7" SCRAPPER & 6 3.125" DC. TAG CMT @ 800'. DRLG SOFT CMT TO 835'. CIR CLEAN, TOH TO 800'. TIH FROM 800 W/6.25" BIT TAG CMT @ 835'. DRLG CMT TO 955', CIRC CLEAN. PRESSURE TEST SQUEEZE @ 900' TO 500 PSI, OK. TOH W/6.25' BIT. LAY DWN DC. TIH, RET 7" BP SET @ 1100'. TOH. TIH W/4.5" RET HEAD TO LINER TOP @ 5300'.

OPEN WELL & BH, NO FLOW. FIN TIH FROM 4800', CIRC SAND OFF BP SET @ 7048'. RET BP SET @ 7048'. TOH. TIH W/MULE SHOE, 1 JT 2.375" TBG & SEATING NIPPLE TO 5000'. # RABBIT TBG #. FIN TIH FROM 5000' W/MULE SHOE, 1 JT OF TBG & SEATING NIPPLE TO 7325'. HOWCO PMPD 60 BBLS OF KCL (WELL ON VAC). SPOT 2 BBLS HCL ACID 7325' TO 7215'. SET RATE 2 BPM 100 PSI. PMPD 2200 GAL 15% HCL, 2200 GAL 35% ASOL, 65% OF 3% HF ACID, 12% HCL ACID, 2200 GAL 15% HCL. DISPLACE W/27 BBLS KCL WATER. TIH TAG FILL @ 7366'. UNLOAD WELLBORE W/N2. CLEAN OUT TO 7386' PBD. TOH TO 7350', WAIT 1 HR TIH TO 7386', NO FILL. CIRC WELL @ 7386' W/N2 FOR 1 HR, TOH TO 4800'. TOTAL LOAD WATER 440 BBLS, REC -147 BBLS, TO REC 293 BBLS.

OPEN WELL & BH, NO FLOW. TIH FROM 4800' W/MULE SHOE, 1 JT OF TBG & SN TO 7210'. RU TO SWAB. BLOW WELL DWN, TOH FROM 7200' W/2.375" TBG. LD TBG, PU. TIH W/MULE SHOE, 1 JT 2.375" TBG SEATING NIPPLE & 2.375" TBG. TALLY & RABBIT TBG TO 7300'. BLOW WELL DWN, LAND TBG @ 7303' W/MULE SHOE, 1 JT TBG, F NIPPLE & 232 JT OF 2.375" TBG. NDBOP-NUWH. SI, RIG DWN, REL RIG 2/24/94.