

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-103
Revised 10-1-78

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DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5a. Indicate type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No.	
E-5314	
7. Unit Agreement No.	
8. Farm or Lease Name	
State Gas Unit BF	
9. Well	
10. Field and/or Windcat	
Base Dakota	
12. County	
San Juan	

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" (FORM C-101) FOR SUCH PROPOSALS.

OIL WELL ☐ GAS WELL ☒ OTHER ☐

Name of Operator
Amoco Production Co.

Address of Operator
501 Airport Drive, Farmington, N M 87401

Location of Well
UNIT LETTER A 940 FEET FROM THE North LINE AND 1190 FEET FROM
THE East LINE, SECTION 16 TOWNSHIP 29N RANGE 9W N.M.P.M.

15. Elevation (Show whether DF, RT, GR, etc.)
5878 (RDB)

Check Appropriate Box To Indicate Nature of Notice, Report or Other Data
NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF

PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	REPAIR OR REPAIRING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	REPAIR OR REPAIRING ☐
PULL OR ALTER CASING ☐	OTHER <u>Deepen well to lower Dakota & frac</u> ☒	CASING TEST AND CEMENT JOBS ☐	REPAIR OR REPAIRING ☐

1. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Amoco Production Company requests approval to deepen the above reference well approximately 95 feet to frac and complete the lower Dakota open hole.
See attached procedure.

RECEIVED
JUN 14 1985
OIL CON. DIV.
DIST. 3

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED BD Shaw

TITLE Adm. Supervisor

DATE 6/6/85

Original Signed by FRANK T. CHAVEZ

SUPERVISOR DISTRICT 3

JUN 14 1985

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

FARMINGTON DISTRICT WORKOVER

DATE: June 4, 1984

OPERATIONS TO BE PERFORMED: (CIRCLE ONE)

RECOMPLETION REPAIR SERVICE

LEASE AND WELL State Gas Com BF No. 1

FIELD Brown Dakota

FORMATION Dakota

LOGS Indurthian - GR; Newton - GL

LOCATION 940' FNL x 1190' FE, Section 16, T29N, R9W, S40Jua, NM

COMP. DATE 1/28/65 EL: 5878' KB

TD: 6881 PBD: 2872

CSG: 10 3/4" 32.75 # H-40 319

4 1/2" 12.5 # J-55 6881

COMP. INT. 758 24 6732 - 6863

ORIG. STIM. 81,000 gals w/ 70,000 lbs S/D

IP 1800 MCFD

CURRENT PROD. INT. 1.1E

PURPOSE: Deepen well to lower Dakota and Frac

* Note: Please visit x DuSchoff and Bob Pounds before starting work

TKA
BJW

TWE

GOM
~~BWS~~

6/PERMITTING DESK

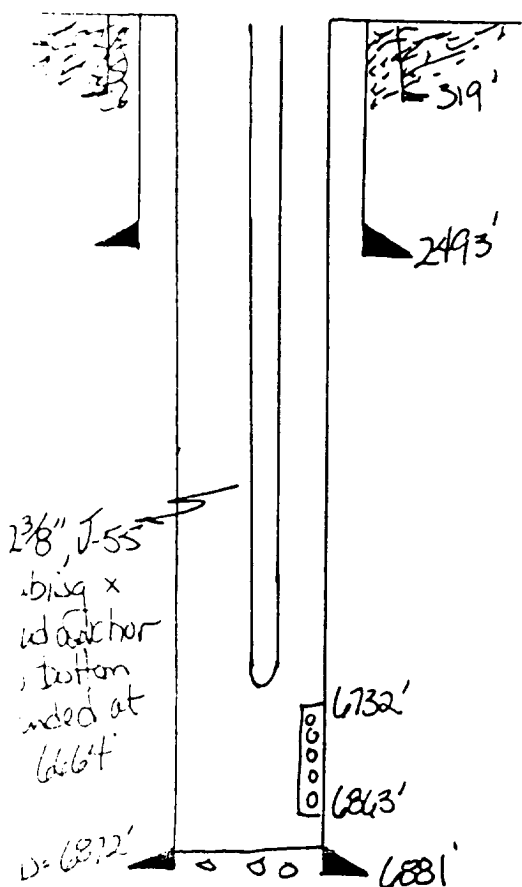
ENGR

DNE

MCH
RGH
BVD
GMK

WELLBORE SKETCH

PROCEDURE



- Stimulation: Duwell
1. MI x RVSU; ND Wellhead, Nil BOP
 2. LATCH ONTO TUBING, trip down, and tag PBD. Attempt to establish circulation down tubing and up annulus with 2% KCL WATER. If circulation can be established, we will DRILL OUT APPROXIMATELY 95 feet below GUIDE SHOE WITH A DIAMOND BIT (SEE NOTE 4) and 2% KCL WATER. IF CIRCULATION CANNOT BE ESTABLISHED, WE WILL DRILL OUT WITH A BUTTON BIT WITH N2 x AIR. When drilling out with A BUTTON BIT AND N2 x AIR on the WD. HEATH A No. 8E, we made about 10' / day. We hope to do better than that using a diamond bit and 2% KCL water.
 3. TO x tubing. T1 x 2 7/8 inch W. = STRING AND BIT determined in step 2 above. Have several joints of drill collars at END OF TUBING. Drill out 120' below guide shoe.
 4. Rig up Blue jet and run GRCL through open hole to 6400'.

DISTRICT MANAGER W. J. H. H. H.
 DISTRICT ENGINEER Jim Anderson
 DISTRICT FOREMAN W. J. H. H. H.
 ENGINEER W. J. H. H. H.
 DATE 6-5-85

5. TI x PACKER AND 2 7/8 inch frac string. Trip is to 6875 feet and set a 60 lb crosslinked gel plug across upper perf. to control sand entry if communication during frac occurs. Set packer and frac down 2 7/8 inch tubing and packer with 100,000 gallons 40 lb crosslinked gel water and 77,500 lb 20-40 mesh Brady Sand. JOB PUMP RATE WILL BE 15 BPM. Closely monitor backside pressure for a radius of communication through upper perms. If communication occurs, shut down immediately and trip out.

Pump Schedule

Liquid Vol (GAL/BBL)	Slurry Vol (GAL/BBL)	Stage	Sand Conc PPG	RATE (BPM)
57,500/1369	57,500/1369	1	Pad	15
5,000/119	5114/122	2	.5	15
5,000/119	5228/124	3	1	15
7,500/176	8012/191	4	1.5	15
12,500/298	13638/325	5	2.0	15
7,500/176	8353/197	6	2.5	15
5,000/119	5683/135	7	3.0	15
1671/40	1671/40	8	FLUSH	15

6. Shut-in well overnight plus 24 hours. TI for sucker bar and tag for fill. If no fill is present, TO x tag x packer. If fill is encountered, you may have to clean out with a coiled tubing w/ 2 1/2" tubing, SN, and sawtooth collar, and well in and clean out fill. CO OPEN hole if necessary. When well is cleaned up, put back down salesline.

- Notes -

1. DISCONNECT cathodic protection and automation equipment before moving on location.
2. Burst on casing = 3800 psi
" " 27/8" tubing = 5808 psi (J-55), 8500 psi (N-80)
" " 23/8" tubing = 6200 psi
3. Expected treating pressure will be 5200 - 3200 psi
4. Recommended diamond bit for drilling out is a Norton Christianson MD 23, Set x 8 stones per carat and SP stones. The diamonds should be ridge set for durability and the bit should have a 6 ins foot. A bit hand should be requested to help run the bit.
5. We will try to complete the lower Dakota open hole. We will probably have to run several times to clean out the open hole. If the open hole does not stay clean. We will have to run a liner. Keep me posted.
6. Use filtered 2 percent KCL water for everything (1 micron) If city water is used, don't filter.
7. Please check
 1. Sieve analysis
 2. Gel viscosity of 40/6 unconsolidated gel should be 38 cp at 300 rpm at 60°F (6 cp tolerance on this)
 3. use 20-40 mesh brady sand
 4. Steam clean all flow tanks

8. Record BLWTR and BLWR.
9. Total job rate is 15 BPM
10. If shutdown occurs during DAO, add 10 bbls frac fluid for every minute of shutdown and resume job.
11. Land tubing near bottom as possible.

100 PSI 116 PSI 300 PSI 3300 PSI

GIENES SH

6678

6700

GIENES DC

6724

Well Completion

Flow x 35,826 gal water
 annular 1% CaCl₂ x
 Flow x 1000 gal x
 20,000 lb 20-40.3 NL x
 70,000 lb 10-20.3 NL Pm 10
 30,000, TRT 3250-3100,
 Avg TRT 3150, AIR 473 ppm,
 ISIP 1200 x 5 min stop 1000,
 HHP 3052.

12' 4SPF

6000

68

MATT DAK

6816

Flow x 215,150 gal water
 Flow 0.5 ABWA x 30,000 lb
 20-40.3 NL x 10,000 lb 10-20.3 NL
 BOP 1800, TRT 3200-2800,
 Avg TRT 3100, AIR 213 ppm,
 ISIP 1200 x 5 min stop 1000,
 HHP 3064.

5' 4SPF

6000

5' 4SPF

6000

5' 4SPF

6000

6872

PBD

6881