Form 3160-5
(July 1989)
(Formerly 9-331)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OFFICE FOR NUMBER OF COPIES REQUIRED (Other instructions on reverse side)

Modified Form No. NM060-3160-4

C/S T

SUNDRY NOTICES AND REPORTS ON WELLS

RECEIVED

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

NOV 19 '90

O. C. D.
ARTESIA, OFFICE

5. LEASE DESIGNATION AND SERIAL NO.: NM 0 334702

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL [X] GAS WELL [ ] OTHER

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: Union Texas Petroleum Corp.

3a. Area Code & Phone No.: 713/968-3654

8. FARM OR LEASE NAME: Federal 5

3. ADDRESS OF OPERATOR: P. O. Box 2120, Houston, Tx 77252-2120

9. WELL NO.: 4

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 660'FSL & 1980' FEL

10. FIELD AND POOL, OR WILDCAT: N. Shugart Bone Spring

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 5 - 18S - 31E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3710' GR

12. COUNTY OR PARISH: Eddy

13. STATE: NM

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF		PULL OR ALTER CASING		WATER SHUT-OFF		REPAIRING WELL	
FRACTURE TREAT		MULTIPLE COMPLETE		FRACTURE TREATMENT		ALTERING CASING	
SHOOT OR ACIDIZE	X	ABANDON*		SHOOTING OR ACIDIZING		ABANDONMENT*	
REPAIR WELL		CHANGE PLANS		(Other)			
(Other)							

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

17. 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.) *

EWO procedure attached.

RECEIVED
NOV 13 11 33 AM '90
CARLSBAD, NEW MEXICO

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

SIGNED: [signature] TITLE: Regulatory Permit Coord DATE: 11/2/90

(This space for Federal or State office use)

APPROVED BY: /s/ Gary Gourley for ACTING DISTRICT MANAGER TITLE: PETROLEUM ENGINEER DATE: 11-16-90

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

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.

FEDERAL NO. 4

TEST "E" CARBONATE ZONE
7645' - 7723'

Well Data:

Casing: 0' - 2418' 5-1/2" 17# K-55
2418' - 8695' 5-1/2" 17# L-80

Tubing: 8503' 2-7/8" 6.5# J-55
MA - 8537'?
SN at 8506'
TAC at 7686'

Rods: 2225' 1" Axelson S-87
2375' 7/8" Axelson S-87
3825' 3/4" Axelson S-87
2-1/2" x 1-1/2" x 24' RHBC Pump

1. Hot oil well the day prior to rigging up to remove paraffin.

2. MIRUSU. Unseat pump. Hot oil down tubing to remove paraffin. POH with rods and pump.

3. Release TAC at 7686', install BOP's and POH with tubing.

4. Pick up 4-3/4" bit and casing scraper and TIH with tubing to 8500'. POH with tubing.

5. Rig up wireline company. Perforate the Bone Spring "E" Carbonate utilizing a 4' hollow steel carrier with 1 JSPF (180° Phasing) as shown below. Use packoff when perforating. Correlate to corrected collars prior to perforating. Collars were lowered 3' to get on depth with Welex Density-Neutron Log dated 12/16/87.

7645' - 60	(16 holes)
7680' - 84'	(5 holes)
7718' - 23'	(6 holes)
TOTAL	(27 holes)

Corrected Collars

7383'	7541'	7711'+
7421'	7584'	7747'
7462'	7621'+	7793'
7503'	7666'	7836'

6. TIH with RBP and treating packer testing tubing to 5000 psi. Set RBP at ±7775'. Set packer at ±7770'. Load hole with 2% KCl and test RBP to 1000 psi. Pull up hole to 7723'.

7. Rig up stimulation company. Spot 100 gallons of 15% NEFE HCl* from 7723' to ±7623', Pull up hole to 7500' and set packer. Pressure annulus to 500 psi. Breakdown perforations and establish rate. Acidize "E" Carbonate perforations 7645'-7723' with 3300 gallons 15% NEFE HCl at a desired rate of 4 BPM at an expected pressure of 2800 psi. Drop 1 ball sealer every 2 barrels (38 total). If ball out occurs, hold pressure for 15 minutes, surge balls and continue treatment. Displace with 50 barrels of 2% KCl water. Maximum pressure is 4500 psi.

8. Shut-in well 15 minutes. Open well to flow back load.

9. Swab well to determine fluid entry. Call Midland Office with results. If instructed. proceed to Supplementary 7500 gallon Foamed Acid Job Procedure (Attached).

10. Release packer and TIH to 7775'. Release RBP and POH. Lay down RBP and packer.

11. TIH with mud anchor, perforated nipple, seating nipple, 30 jts 2-7/8" tubing, TAC and remainder of 2-7/8" tubing (SN at 8506', TAC at ±7600'). Remove BOP and set TAC.

12. Rerun pump and rods (as shown above). HWO. RDMOSU.

* ACID ADDITIVES

3400 Gallons 15% NEFE HCl

1 gpt	Corrosion Inhibitor
1 gpt	Non-Ionic Non Emulsifier
10 gpt	Citric Acid

GRH/ejw
6:grh00016
10/26/90

(Attachment)

SUPPLEMENTARY PROCEDURE

7500 GALLON FOAMED ACID JOB

1. Acidize Bone Spring "E" Carbonate from 7645' - 7723' with 7500 gallons 15% NEFE HCl acid foamed to 65 quality with 2500 scf/bbl of N2 as follows:

   A. Pressure annulus to 1000 psi.
   B. Pump 7500 gallons of acid foamed to 65 quality with N2 at 7 BPM (total rate) at an estimated surface pressure of 4000 psi. **Do Not Exceed 4500 psi.** Drop 1 ball sealer every 9 barrels (20 total).
   C. Flush with 50 barrels 2% KCl containing 800 scf/bbl.
   D. Shut-in well 1 hr.
   E. Flow and swab back load to determine entry.
   F. Proceed to Step 10 of original procedure.

TOTAL RATE BPM	LIQUID RATE BPM	N2 RATE SCF/MIN
5.0	1.75	4375
5.5	1.93	4813
6.0	2.10	5250
6.5	2.28	5688
7.0	2.45	6125

ACID ADDITIVES

7500 Gallons 15% NEFE HCl

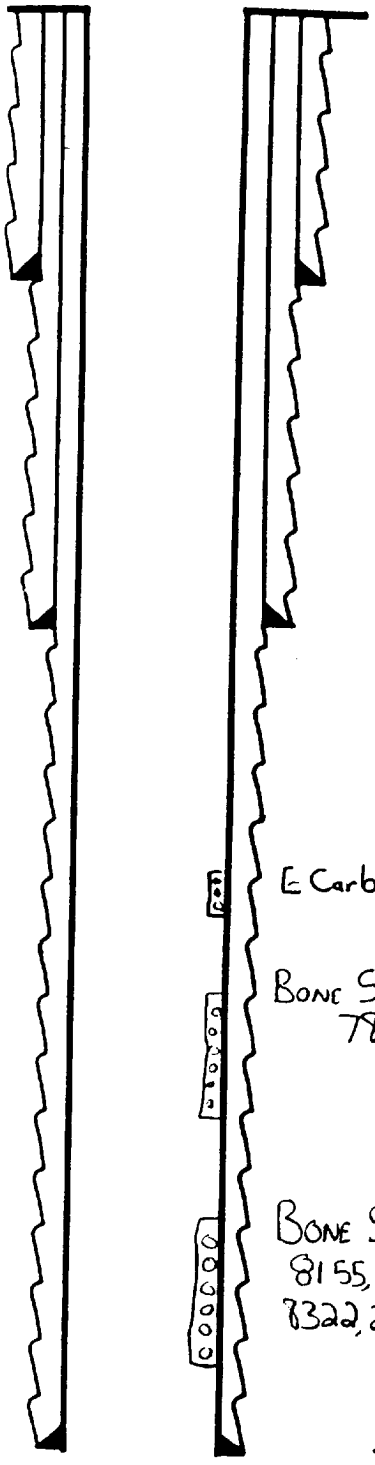
1 gpt Corrosion Inhibitor
1 gpt Non-Ionic Emulsifier
10 gpt Citric Acid
5 gpt Foaming Agent
2 gpt Friction Reducer
2500 scf/bbl Nitrogen

Flush 2% KCl

1 gpt Friction Reducer
800 scf/bbl Nitrogen

GRH/ejw
6:grh00016
10/26/90

UNION TEXAS PETROLEUM



FIELD: North Shugart

LEASE: Federal WELL NO. 4

DATE: 3/12/90 SPUDDED: _____ COMP. 1-17-88

ELEV.: KB 3727 GL 3710

LOCATION: Unit Letter O 660' FSL & 1980' FEL
Section 5, T-18-S, R-31-E
Eddy County, New Mexico

13 3/8 " _____ # CSG. at _____ W/ _____ SX. _____

_____ " HOLE TOC _____

8 5/8 " _____ # CSG at 2498 W/ _____ SX. _____

12 1/4 " HOLE TOC _____

E Carbonate Perfs 7645-60 16 holes
7680-84 5 holes
7718-23 6 holes

Bone Spring Upper D Sand Perfs
7820, 30, 40, 50, 55, 61, 69, 75, 80, 85, 90, 7900

Bone Spring Lower D Sand perfs
8155, 65, 75, 85, 99, 8210, 20, 25, 30, 60, 70, 80, 90
8322, 25, 58, 80, 90, 8400, 10, 45, 56, 80, 90

5 1/2 " 17 # CSG. at 8695 W/ 1550 SX. _____

7 7/8 " HOLE TOC 2750' TOC

TD 8695'

PBTD 8625'