

Submit 3 Copies  
to Appropriate  
District Office

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-103  
Revised 1-1-89

DISTRICT I  
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II  
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION  
P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

WELL API NO. 30-025-28059
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No. B-2317
7. Lease Name or Unit Agreement Name M. E. Hale
8. Well No. 16
9. Pool name or Wildcat Vacuum Gb/SA

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.)	
1. Type of Well: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Water Injection	
2. Name of Operator Phillips Petroleum Company	
3. Address of Operator 4001 Penbrook St., Odessa, TX 79762	
4. Well Location Unit Letter J : 2630 Feet From The South Line and 1330 Feet From The East Line Section 35 Township 17-S Range 34 NMPM Lea County	
10. Elevation (Show whether DF, RKB, RT, GR, etc.) 4010' GR, 4022' RKB	

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
PULL OR ALTER CASING ☐  
OTHER: Isolate lower perms with CIBP ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐  
OTHER: ☐

12. 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.

1. MIRU. NU Class 2 BOP's. POOH with 2-7/8" tubing.
2. GIH with bit and casing scraper on 2-7/8" tubing workstring. Clean out to PBTD at approx. 4725'. POOH.
3. GIH with CIBP. Set CIBP at 4520'.
4. RIH with 2-7/8" tubing workstring and RTTS type packer. Set packer at 4330'. Pressure test casing & packer to 500 psi. Hold 500 psi on annulus during acid treatment.
5. Pump 2,800 gallons of 15% HCl.
6. Swab. COOH with packer & tubing.
7. RIH with tubing & injection packer. Set packer at 4340'.
8. Apply 500 psi to annulus & hold for 30 minutes. Notify NMOCDD to witness test (500# for 30 min). Record test on pressure chart.
9. Return well to water injection.

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

SIGNATURE L. M. Sanders TITLE Supv., Reg. Affairs DATE 07/27/93  
TYPE OR PRINT NAME L. M. Sanders TELEPHONE NO. 915/368-1488

(This space for State Use)

Orig. Signed by  
Paul Hantz  
Gen. Sec.

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

JUL 29 1993

WELL SERVICE APPROVAL  
HILLIPS PETROLEUM COMPANY--PERMIAN BASIN REGION  
 Procedure No. 93168

Date July 13, 1993

RKB @ 4022.0'  
 DF @ 4021.0'  
 GL @ 4010.0'

Category Code: ONE  
 Area North Subarea Buckeye  
 Lease & Well No. M.E. Hale #16  
 Legal Description 2630' FSL & 1330' FEL, Section 35, T17S - R34E  
Lea County State: New Mexico  
 Field Vacuum (Grayburg/San Andres)  
 Status: INJ Date: July 1993 BOPD BWPD MCFPD  
 Tbg. 4280' of 2-7/8" 6.5# J-55 (Internally Plastic Coated)  
 Other Baker AD-1 packer @ 4280'

8-5/8" 24# K-55 Csg.  
 set @ 360'  
 Cmt'd w/400 sxs  
 TOC @ Surface  
 (circ. 150 sxs)

Date Drilled: May 1983  
 Hole/Casing Condition Good  
 Last Stimulation: 6/13/90 - 19200 gal 20% HCL & 230 RCNB diverter balls

Workover Proposal: Isolate lower San Andres perfs at 4552'- 4581', 4615'- 4633', and 4639'- 4704' with CIBP in order to divert injection water to injection perfs uphole at 4389'- 4431', and 4477'- 4488'.  
 Wellhead Description: (Include connection that BOP will bolt to)  
Not shown in wellfiles. Vendor to verify prior to RU.

5-1/2" 15.5# K-55 Csg.  
 Set @ 4800'  
 Cmt'd w/1200 sxs  
 TOC @ Surface  
 (Circ. 180 sxs)

PROJECT JUSTIFICATION: Recent Injection Profile survey run on the M.E. Hale #16 indicates that 95+% of total injection water is being taken by perfs @ 4552'- 4704'. Isolating these lower perfs will allow increased injection into upper perfs @ 4389'- 4488', which will provide for better Hale waterflood efficiency.

Stimulation History:

Interval	Date	Type	Gals	Sand	Rate	Max Press
4389-4704	4/12/83	15% HCL	17,500	115 RCNBS	3.0	2950#
4389-4704	6/13/90	20% HCL	19,200	230 RCNBS	4.0	3300#

Tubular Ratings (Pw Allowable):

Size	Weight	Grade	Burst	Collapse	Tension
5-1/2"	15.5	K-55	4510	3810	131,000
2-7/8"	6.50	J-55	5930	5670	67,600

Perforations (1 SPF)  
 (Grayburg/San Andres)

4389'- 4431' (42')  
 4477'- 4488' (11')  
 4520' Proposed CIBP  
 4552'- 4581' (29')  
 4615'- 4633' (18')  
 4639'- 4704' (65')  
 165'

PBTD = 4725'  
 TD = 4800'

Checked by:  
 Reservoir Engr.: K.H. Maberry KA  
 Production Engr.: D.G. Harms JGH  
 Prod. Engr. Supvr.: K.E. Snow KES 7/22/93  
 D&P Engr. Director: R.K. Bogan RB  
 North Distr. Mngr.: T.J. Bogan

Copies: R.M. Sulak  
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 (r) K.E. Snow  
 D.G. Harms  
 L.M. Sanders  
 L.S. Malone  
 M.L. Moore  
 J.S. Chimahusky  
 J.I. Michaelis  
 R.W. Chambers

PROJECT ECONOMICS @ \$ 18.78  
 10 BOPD MCFD  
 AARR 500+ %  
 PAYOUT 0.2 YRS.  
 NTER 21.0 TIMES  
 NPV @ 13% 106.8  
 PI @ 13% 13.94  
 ECONOMIC LIFE 10.4 YRS.  
 EST. COMPL. DATE 8/93

PPCO: W.I. 50.000000 %  
 R.I. 87.500000 %

CHARGE TO	GROSS COST	NET COST
EXPENSE AFE	\$ 16,500	\$ 8,250
INVESTMENT WO 63-2539	\$	\$
TOTAL	\$ 16,500	\$ 8,250