

2/18/87 Swabbed to clean up perfs. Reset RBP @ 8248' & packer @ 8000'.

2/19/87 Acidize perfs 8145'-8161', 8646'-8656' w/2400 gal. 15% NeFe HCL acid containing fines suspension agent & clay stabilizers.

2/20/87 Swabbed 7 bbls. fluid.

2/21&22/87 SD for weekend.

2/23/87 Continue swabbing.

2/24/87 GIH w/plug & pkr. on 2-7/8" tbg. Set plug @ 9350'. Set pkr. @ 9320'. Test plug to 1000#. Unseat packer & reset @ 8000'. Swabbed 45 BLM & trace of oil.

2/25/87 Swabbed 10 hrs. - rec. 10 BO & 35 BW.

2/26/87 COOH w/ plug, packer & 2-7/8" tbg.

3/3/87 Frac Bone Springs 8145-9251' w/60000 gals. crosslinked gelled 40#/1000 gal. 2% KCL wtr. & 105000# 20/40 sand.

3/4/87- Swabbing back load.
3/10/87

3/11/87 Ran rods & 2-1/2" x 1-1/4" x 20'x24' pump.

3/14/87 Pumping load water. Temp. drop from report until load water is recovered.

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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

Form C-101
Revised 10-1-78

NO. OF COPIES RECEIVED	
DISTRIBUTION	
SANTA FE	
FILE	
U.S.G.S.	
LAND OFFICE	
OPERATOR	

5A. Indicate Type of Lease
STATE ☒ REC ☐
5. State Oil & Gas Lease No.
L-G888

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well DRILL <input type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input checked="" type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. Unit Agreement Name
2. Name of Operator Phillips Petroleum Company		8. Farm or Lease Name State 1-2
3. Address of Operator 4001 Penbrook St., Odessa, Texas 79762		9. Well No. 1
4. Location of Well UNIT LETTER <u>E</u> LOCATED <u>1980</u> FEET FROM THE <u>North</u> LINE AND <u>660</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>2</u> TWP. <u>19-S</u> RGT. <u>32-E</u> NMPM		10. Field and Pool, or Wildcat Undesignated Bone Springs
19. Proposed Depth 10150		19A. Formation Bone Springs
20. Rotary or C.T.		
21. Kind & Status Plug. Bond		22. Approx. Date Work will start Upon Approval
23. Elevations (Show whether DF, RT, etc.) 3691 GR, 3712 RKB		

~~PROPOSED~~ CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/4"	48# & 54#	444'	450 sk "C"	Surface
11"	8-5/8"	32#	5040'	612 sk H DV @ 3300'; 2nd stage	
7-7/8"	5-1/2"	17#	13670'	1260 sk LW + 100 sk "C"-surface	
				1600 sk "H"	11845 (Temp. Survey)

Present status: Lusk Wolfcamp, East field; PBSD 12950';

Last test 9/5/86: 3.8 BOPD, 11 MCFGPD, 11 BWPD

Proposed Procedure: Pull rods & pump. NU BOP. COOH w/tbg. MI & RU wireline unit. GIH w/dump bailer & dump 5 sk Class "H" cmt. on top of CIBP @ 12950'. Set CIBP @ 10350'. Load hole w/240 bbls. 2% KCl wtr. Pressure test bridge plug & csg. to 500 psi. Spot 50 bbls. 10% acetic acid from 10200' to 8000'. COOH w/tbg. GIH w/4" casing gun & perforate Bone Spring formation as follows using deep penetrating DML charges, 2SPF, spiral shot phasing, top to btm.:

Zone 1 8145'-8161'	16'	32 holes	8646'-8656'	10'	20 holes	
Zone 2 8664'-8672'	8'	16 holes	8680'-8690'	10'	20 holes	
9206'-9210'	4'	8 holes				
Zone 3 9214'-9220'	6'	12 holes	9224'-9234'	10'	20 holes	Total of 94'
9239'-9251'	12'	24 holes				& 188 holes
Zone 4 10060'-10064'	4'	8 holes	10100'-10114'	14'	28 holes	(over)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM; IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUCTIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed Jerry Sexton Title Eng. Supervisor, Reservoir Date 1/5/87
(This space for State Use)

ORIGINAL SIGNED BY JERRY SEXTON

APPROVED BY DISTRICT 1 SUPERVISOR TITLE _____ DATE JAN 13 1987

CONDITIONS OF APPROVAL, IF ANY:

PROCEDURE Contd.:

GIH w/RBP & RTTS-type packer on 2-7/8" tbg. Set RBP @ +10200' & set packer @ +9950'. Swab well to clean up perforations. Acidize Zone 4 Bone Spring perforations w/2700 gals. 15% NEFE HCl acid containing fines suspension agent & clay stabilizer. Flush acid to perforations w/61 bbls. 2% KCl water. Swab test well.

Unseat packer, unseat RBP. Reset RBP @ +9350', set packer @ +9320' & test RBP to 1000 psi. Unseat packer & reset @ +9100'. Swab test well to clean up perforations. Acidize Zone 3 Bone Spring perforations w/3200 gals. 15% NEFE HCl acid containing fines suspension agent & clay stabilizer. Flush acid to perforations with 56 bbls. 2% KCl wtr. Swab test well.

Unseat packer, unseat RBP. Reset RBP @ +8800', set packer @ 8770' & test RBP to 1000 psi. Unseat packer & reset @ 8500'. Swab test well to clean up perforations. Acidize Zone 2 Bone Spring perforations w/2800 gals. 15% NEFE HCl acid containing fines suspension agent & clay stabilizer. Flush acid to perforations w/54 bbls. 2% KCl wtr. Swab test well.

Unseat packer, unseat RBP. Reset RBP @ +8250', Set packer @ 8220' & test RBP to 1000 psi. Unseat packer & reset @ +8000'. Swab test well to clean up perforations. Acidize Zone 1 Bone Spring perforations w/2400 gals. 15% NEFE HCl acid containing fines suspension agent and clay stabilizer. Flush acid to perforations w/50 bbls. 2% KCl wtr. Swab test well.

Maximum treating rate 4 BPM @ 4000 psi maximum surface pressure. Maintain 500 psi on tbg.-csg. annulus while acidizing.

Unseat packer, unseat RBP. COOH w/tbg., packer, & bridge plug. GIH w/10000' 2-7/8" production tbg. GIH w/1-1/16" pump on rod string. (188 4700' 5/8" rods, 81 2025' 3/4" rods, 72 1800' 7/8" rods, 64 1600' 1" rods).

Hang well on. Run unit @ 10 SPM & 120" stroke.

RECEIVED
JAN 9 1987
OCD
HOBBS OFFICE