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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-103
Supersedes Old
C-102 and C-103
Effective 1-1-65

5a. Indicate Type of Lease
State Fee
5. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS
DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO RE-ENTER OR PLUG BACK TO A DIFFERENT RESERVOIR.
USE APPLICATION FOR PERMIT TO DRILL (FORM C-101) FOR SUCH PROPOSALS.

1. OIL WELL GAS WELL OTHER
2. Name of Operator: Mobil Producing Texas & New Mexico, Inc.
3. Address of Operator: 9 Greenway Plaza, Suite 2700, Houston, Tx 77046
4. Location of Well: UNIT LETTER M 990 FEET FROM THE South LINE AND 790 FEET FROM THE East LINE, SECTION 8 TOWNSHIP 24-N RANGE 3-W N.M.P.M.
15. Elevation (Show whether DF, RT, GR, etc.): 6841 GL
12. County: Rio Arriba
7. Unit Agreement Name
6. Farm or Lease Name: W. O. Hughes
9. Well No.: 5
10. Field and Pool, or Wildcat: West Lindrith Gallup-Dakot

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPRARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG AND ABANDONMENT <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	OTHER Perforate & test the Gallup Sand <input checked="" type="checkbox"/>	CASING TEST AND CEMENT JOB <input type="checkbox"/>	OTHER <input type="checkbox"/>

17. 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.
The subject well currently produces 4 BOPD from the Dakota perms.(7222-7458' overall) and is nearing its economic limit. Proposed work is to perforate the Gallup @ 6284-6316', 6332-40', 6344-60', 6372-79', 6382-94', 6442-56' and 6470-76'. (A detailed well work procedure and wellbore sketch are attached.)

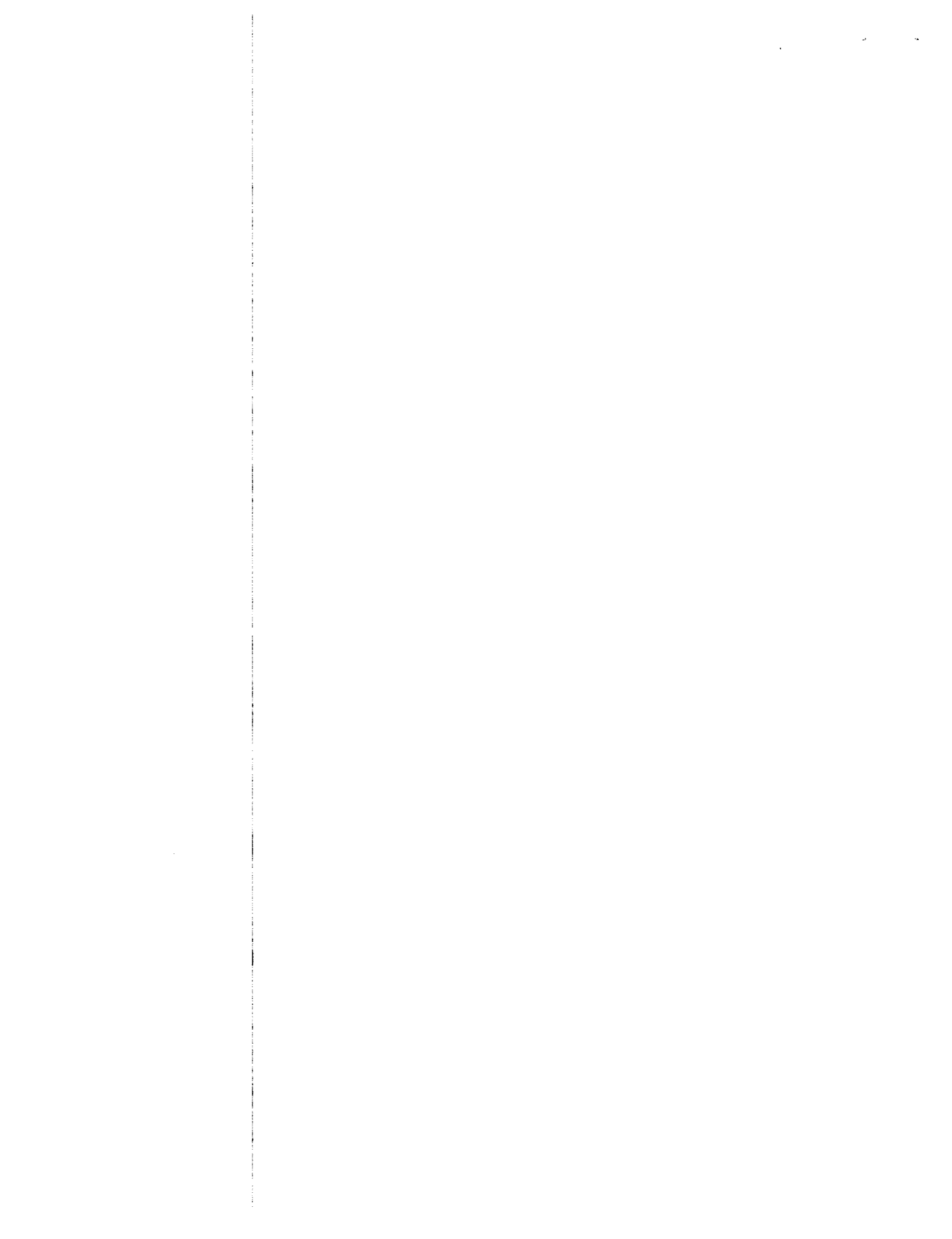
RECEIVED
OCT 18 1984
OIL CON. DIV.
DIST. 3

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

SIGNED: Virginia Howard TITLE: Authorized Agent DATE: 10/15/84

APPROVED BY: Original Signed by FRANK T. CHAVEZ TITLE: SUPERVISOR DISTRICT # 3 DATE: OCT 18 1984

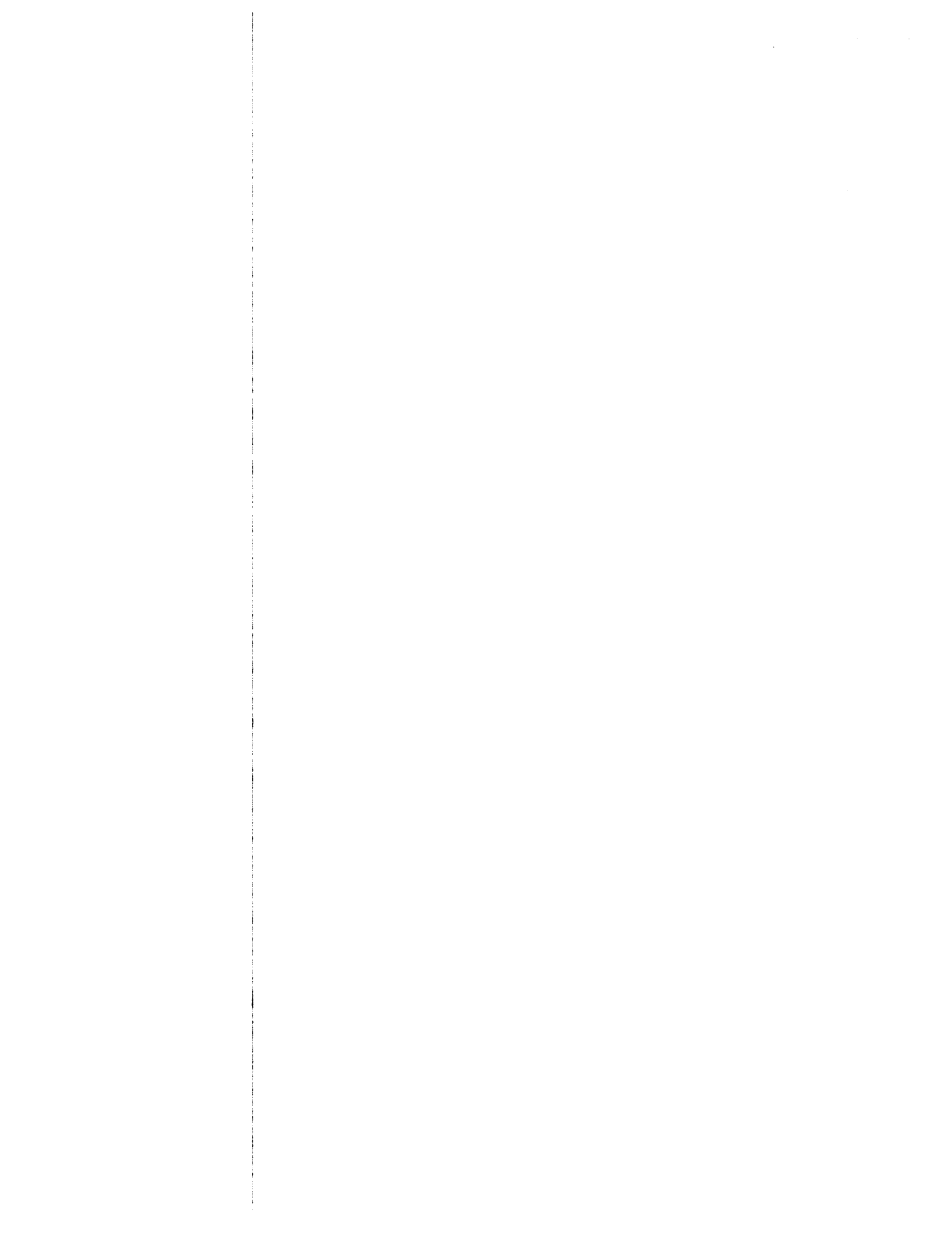
CONDITIONS OF APPROVAL, IF ANY:



RECOMMENDED WORK PROCEDURELEASE W. O. Hughes WELL NO. 5

ANNULAR FLUID PRIOR TO WORKOVER	wellbore Fluids	W/O FLUID TO BE USED	3% KCL
WT. (LBS/GAL.) <u>8.48</u>	ZONE <u>Gallup</u>	HYD. PRESS <u>±2800</u>	RES. PRESS <u>-</u>
	ZONE _____	HYD. PRESS _____	RES. PRESS _____
	ZONE _____	HYD. PRESS _____	RES. PRESS _____

1. MIRU PU, POH w/ rods & pump, ND wh NU BOP release TA & strap tbg out of hole. GIH w/ csg scraper and clo to ±6600'
2. GIH w/ retrievable BP on tbg and set at ±6600' close BOP & test BP and csg to 3500 psi (4½" 10.5 1/4" csg yield 4700 psi)
3. Circulate hole w/ 3% KCl water from 6600' to surface ± 57 bbls
4. Spot 100 gals 15% HCl from 6476' to 6323' POH see below for acid mix
5. RIH w/ 3½" csg gun; Perf Gallup from 6442'-56" & 6476'-76" w/ JST = use premium burless charges
6. GIH w/ treating pkr on tbg to ± 6410' reverse spot acid into tbg & set pkr @ ±6410'
7. Break down Gallup perfs w/ spot acid.
8. Swab test to recover formation fluids for emulsion testing.
9. Acidize interval if needed w/ 1800 gals 15% HCl drop 2 RCNBS every 84 gallons. Flush w/ ±25 bbls 3% KCl water. see below for acid mix.
10. Swab test interval to recover all load. Recover formation fluid samples
11. Pickup RBP PU to ±6430, set RBP; test BP & csg.
12. Spot 500 gals 15% HCl (see below) from 6394'-5628' POH
13. RIH w/ 3½" csg gun on wireline and perf Gallup from 6284'-6316'; 6332'-6340'; 6344'-6360'; 6372'-6379'; 6382'-6394.
14. GIH w/ treating pkr to ± 6250 reverse spot acid into tbg set pkr and breakdown Gallup perfs as follows.
 - A. MSTP 2500 psi; AIR 106pm (see below for acid mix)
 - B. Pump 2100 gals 15% HCl w/ 500 scf N₂ / bbl drop 27 RCNBS
 - C. Pump 2100 gals 15% HCl w/ 500 scf N₂ / bbl drop 27 RCNBS
 - D. Pump 2100 gals 15% HCl w/ 500 scf N₂ / bbl
 - E. Flush to perfs w/ ±24 bbls 3% KCl w/ 500 scf N₂ / bbl
 - F. Flow back and swab well to recover load.
15. Release pkr. reverse circ w/ 3% KCl to RBP drop down and set RBP at ±6600' set pkr at ±6540' and test BP to 3000 psi
16. Release pkr, POH and prepare to frac down 4½" csg if necessary.



RECOMMENDED WORK PROCEDURELEASE W. O. Hughes WELL NO. 5ANNULAR FLUID PRIOR TO WORKOVER Wellbore fluids W/O FLUID TO BE USED 3% KClWT. (LBS/GAL.) 8.48 ZONE Gallup HYD. PRESS ± 2800 RES. PRESS _____

ZONE _____ HYD. PRESS _____ RES. PRESS _____

ZONE _____ HYD. PRESS _____ RES. PRESS _____

17. See below for frac recommendation: STP ± 2700 psi @ 50 bpm

18. SI well for 1 hr and flow back slowly, Recover as much coal as possible.

19. GIH w/ retrieving head on tbg, cleanout fill, release BP and PCH

20. GIH w/ production equipment and place well on test.

Note: All tanks are to be thoroughly cleaned, all fluids filtered (± 5 microns) into tanks. Have equipment on location to run sieve analysis on sand, emulsion test on acid and gel quality on fluids.

Acid mix: 2 gals/1000 corrosion inhibitor

Iron sequestant 10% acetic acid or equivalent

3 gals/1000 nonionic surfactant

2 gals/1000 clay stabilizer

Mutual solvent 5% if needed

NE agent as required

Frac treatment: Pad: 30% of job volume; consisting of 30 lb gelled

3% KCl water w/ 50% CO₂ Do not add FLA

or 100 mesh sand.

Fluid: 30 lb, X-link gelled 3% KCl water w/ 30% CO₂ by volumeProppant: $\pm 200,000$ lb 20/40 mesh sand run .5 ppg to

3 ppg concentrations w/ .5 ppg increments

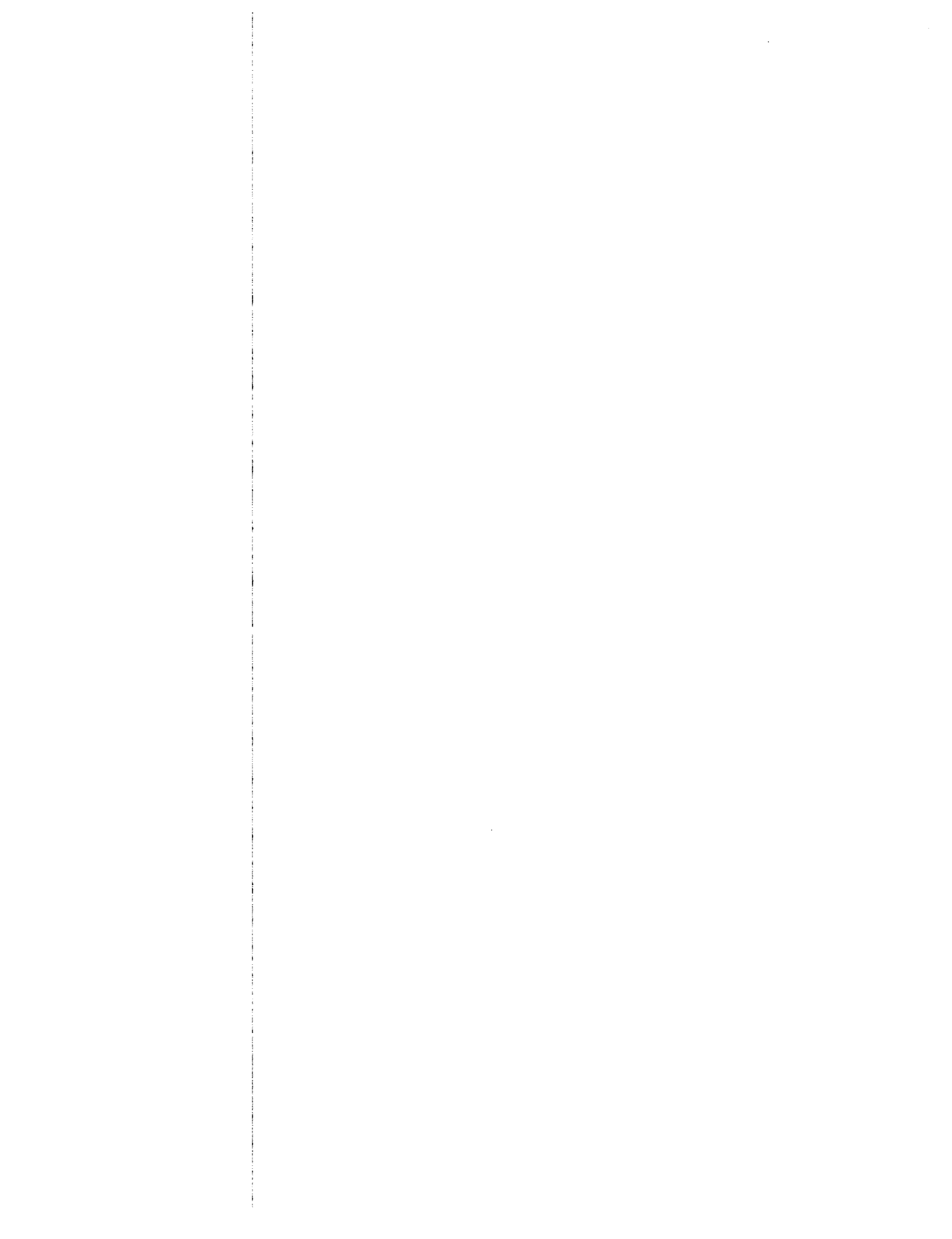
Flush: 3% KCl water w/ 750 scf/661

Additives: surfactant as required

.5 gal/1000 bacteriaicide

breaker as required

K. E. McCready 7/23/84



DATE 8-21-84 WELL NO. 5 LEASE W. O. HUGHES FIELD W. LINDPITH
GALLUP-DAKOTA
 LOCATION S8 T3N R3W SIGNED K. E. MCCREARY G.L. 5841
R 10 ARRIBACO, NM. D.F. _____
 K.B. 12 AGL
 ZERO KB

PROPOSED

