

Submit 3 Copies To Appropriate District Office
District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

APR 20 2009

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-34019
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name MM Squirrel Fee
8. Well Number 1
9. OGRID Number 14049
10. Pool name or Wildcat Esperanza; Delaware

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 checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>	
2. Name of Operator Marbob Energy Corporation	
3. Address of Operator PO Box 227, Artesia, NM 88211-0227	
4. Well Location Unit Letter <u>H</u> : <u>2160</u> feet from the <u>North</u> line and <u>330</u> feet from the <u>East</u> line Section <u>9</u> Township <u>22S</u> Range <u>27E</u> NMPM <u>Eddy</u> County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3077' GL	
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>	
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____	
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____	

12. 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"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	P AND A <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
MULTIPLE COMPL <input type="checkbox"/>	
OTHER: Squeeze <input checked="" type="checkbox"/>	OTHER: <input type="checkbox"/>

13. 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. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Marbob Energy Corporation proposes to squeeze off wet Delaware Sand(s).

(See procedure and wellbore schematics attached)

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Diana J. Briggs TITLE Production Manager DATE 4/17/09

Type or print name Diana J. Briggs E-mail address: production@marbob.com Telephone No. (575) 748-3303

For State Use Only

APPROVED BY: Jaqueline Rios TITLE Geologist DATE 4/21/09

Conditions of Approval (if any):

MM Squirrel Fee 1
1550' fnl, 330' fel
H-9-22s-27e
Eddy Co., NM
Workover Procedure
4 Mar 09

RECEIVED

MAR 04 2009

RC

8-5/8" @ 420' Circ. Cmt.

5-1/2" @ 5400' DV @ 1920' TOC 3170' CBL

5.5"/17ppf/J55/LTC Burst=5320 psi, 4256 psi at 80% Nom. ID=4.892" Drift ID=4.767"

2.875"/6.5ppf/J55/EUE Burst=7260 psi, 5808 psi at 80% Nom ID=2.441" Drift ID=2.347"

Collapse=7680 psi, 6144 at 80%

Tensile=99700 lb with no safety factor

Objective: Squeeze off wet Delaware Sand(s).

Procedure:

1. Pull pump and rods. NU BOP, unset TAC and TOO. Paraffin has been a problem in this area. May need to hot oil and cut paraffin to clean tubing. If tubing still has paraffin it probably shouldn't be used for squeeze work. If in doubt, recommend using 2-7/8"/6.5/J55 or L80 workstring for squeezing.
2. RIH with RBP/packer, straddle Delaware 2 4799-4982' (test RBP to 2000 psi), and swab test. If Delaware 2 doesn't make much fluid, it won't be squeezed. If it makes significant fluid, it will be squeezed after swab testing Delaware 3—let's discuss.
3. Straddle Delaware 3 3769-4093' (test RBP to 2000 psi) and swab test. It is likely that this zone is the big water producer. Procedure assumes Delaware 3 will be squeezed—let's discuss if Delaware 3 doesn't give up much fluid. Decision might be made to swab Delaware 1 5099-5134' if Delaware 3 doesn't make much fluid—let's discuss.
4. **If only Delaware 3 3769-4093' is to be squeezed**, RIH with CIBP/composite plug beneath retrievable packer, set plug at 4200', test plug to 2500 psi and POOH with packer. RIH with cement retainer, set retainer at 3700', test annulus to 1000 psi, sting out, pump tubing volume, sting in, establish injection rate and squeeze Delaware 3 with 50 sx. Class "C" with low fluid loss plus 2% CaCl₂ followed by 200 sx. Class "C" neat with 2% CaCl₂. If running squeeze obtained, sting out, reverse circulate cement out of tubing and TOO. If squeeze not obtained, flush past retainer and pump another 100 sx. Class "C" with 2% CaCl₂.
5. **If both Delaware 2 4799-4982' and Delaware 3 3769-4093' are to be squeezed**, RIH with CIBP/composite plug beneath retrievable packer, set plug at 5050', test plug to 2500 psi and POOH with packer. RIH with cement retainer, set retainer at 4725', sting out, pump tubing volume, sting in, establish injection rate and squeeze Delaware 2 with 50 sx. Class "C" with low fluid loss plus 2% CaCl₂ followed by 50 sx. Class "C" neat with 2% CaCl₂. If running squeeze obtained, sting out, reverse circulate cement out of tubing and TOO. If squeeze not obtained, flush past retainer and pump another 50 sx. Class "C" with 2% CaCl₂. Set retainer at 3700', test annulus to 1000 psi, sting out, pump tubing volume, sting in, establish injection rate and squeeze Delaware 3 with 50 sx. Class "C" with low fluid loss plus 2% CaCl₂ followed by 200 sx. Class "C" neat with 2% CaCl₂. If running squeeze obtained, sting out, reverse circulate cement out of tubing and TOO. If squeeze not obtained, flush past retainer and pump another 100 sx. Class "C" with 2% CaCl₂.

6. POOH with tubing after squeeze obtained, pick up 4.75" bit and collars, RIH to 1000' and WOC for 24 hrs. After WOC drill out retainer(s) and test squeeze(s) to 1500 psi. Will resqueeze if necessary. Clean well out to at least 5250' (might need to use drill bailer or foam air unit).
7. PWOP and return well to production.

Kbc/mm squirrel fee 1 sqz wet zone

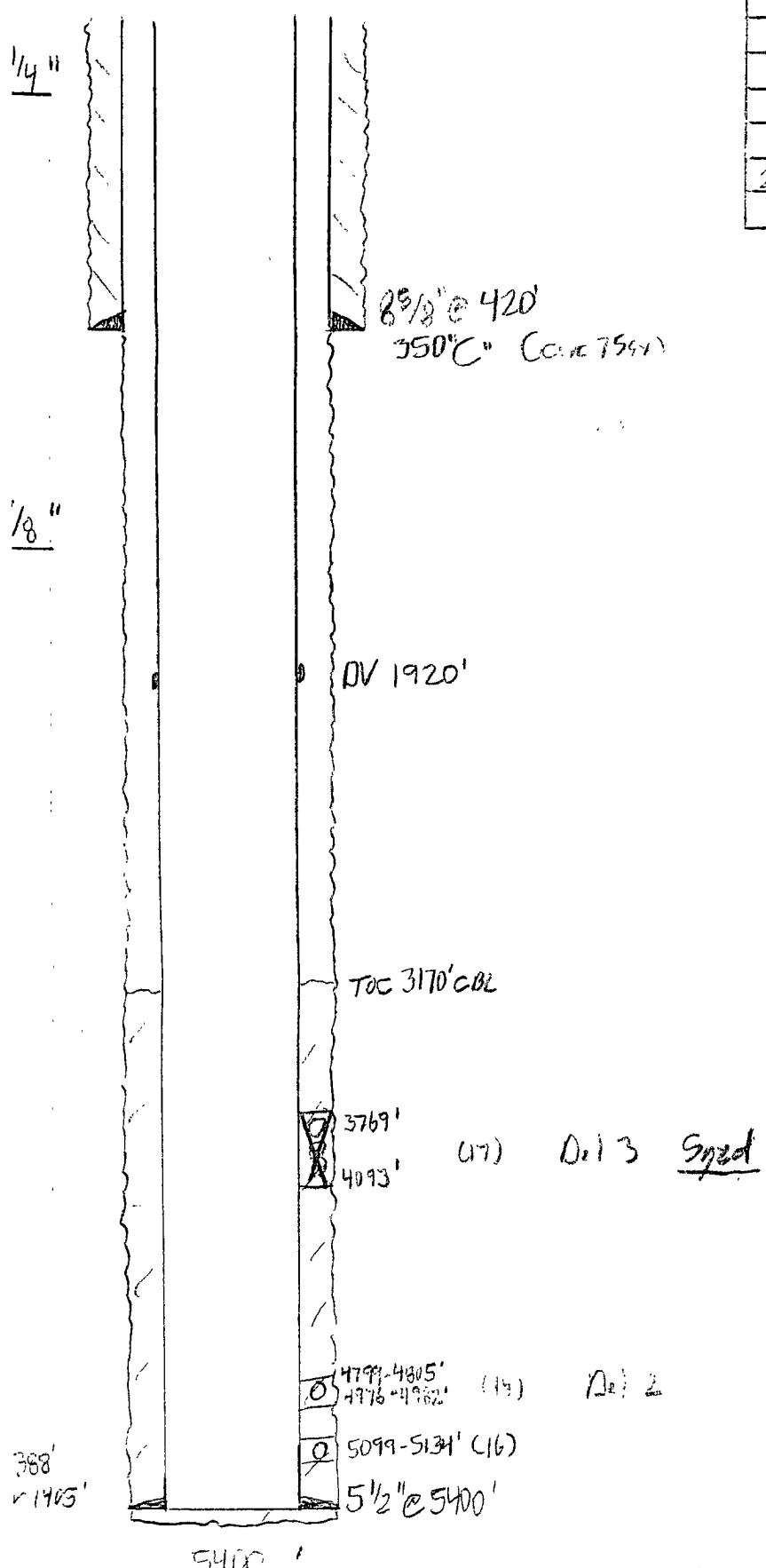
Well: MM Squirrel Free 1

Location: 1550' FNL 330' FEL
H-9-226-278
Field NM
30-015-34019

Zero: 12' AGL
 KB: 3076'
 GL: 3084'

Casing Program:

Size	Wt.	Grade	Conn	Depth
8 5/8"	24	J55	JT	420'
5 1/2"	17	J55	LTC	5400
2 7/8"	6.5	J55	EUE	



AFTER

1st: 400 Super H

2nd: Misplaced DV tool = d.d.n., says 2nd stop

- Sketches Not To Scale -

KAR 11/2/1

Well: MM Squirrel Fee 1

Location: 1550' FWL 330' 12.1
H-9-226-270
Edd. NM
30-015-34217

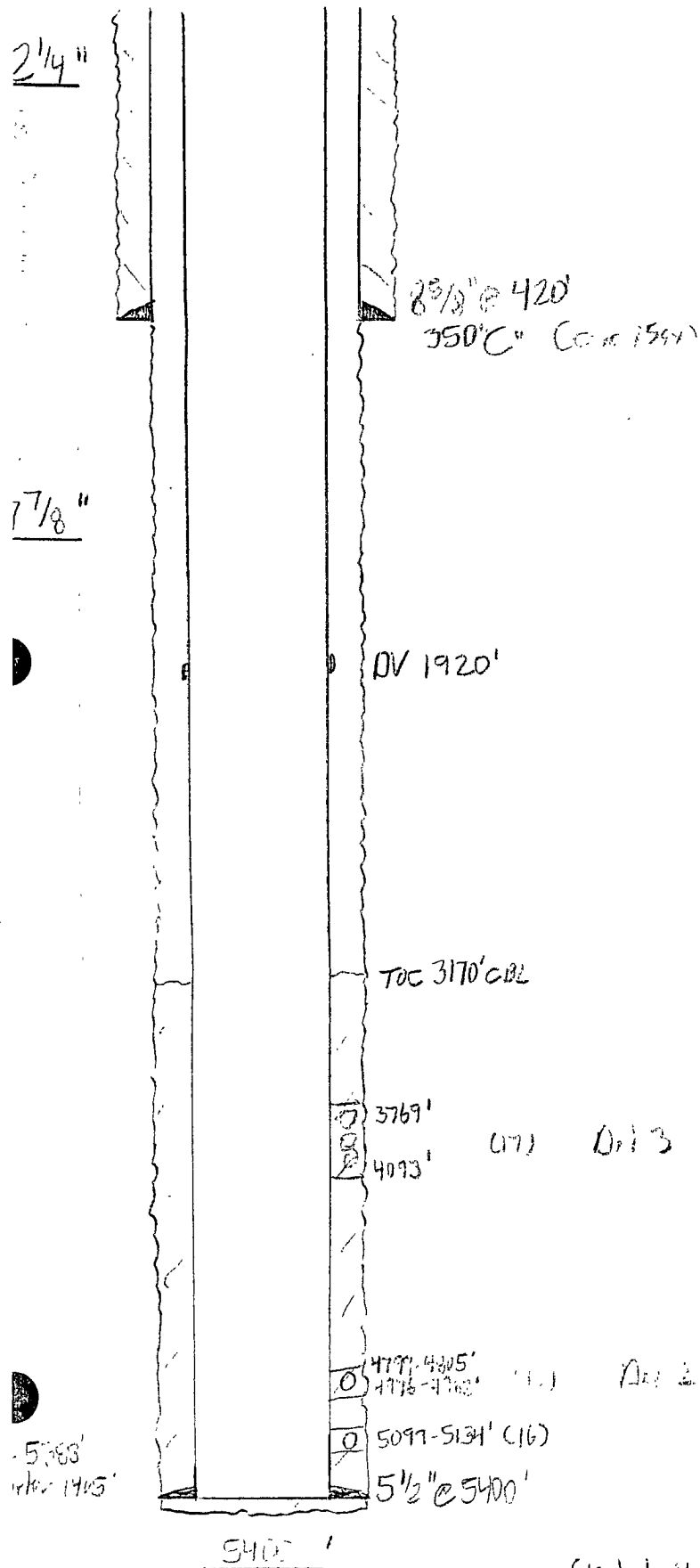
Zero: 12' AGL

KB: 3096'

GL: 3084'

Casing Program:

Size	Wt.	Grade	Conn	Depth
8 5/8"	24	J55	LC	420'
5 1/2"	17	J55	LTC	540'
2 7/8"	6.5	J55	EVE	



BEFORE

1st: 400 Super H

2nd: Mispaced DV tool = 4 ft. deep 2 1/2" etc

~ Sketched Plot To Grade ~

various