

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

Form C-103
June 19, 2008

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

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.)		WELL API NO. 30-039-30148
1. Type of Well: Oil Well ☐ Gas Well ☒ Other		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Energen Resources Corporation		6. State Oil & Gas Lease No.
3. Address of Operator 2010 Afton Place Farmington, NM 87401		7. Lease Name or Unit Agreement Name Carracas SWD
4. Well Location Unit Letter <u>I</u> : <u>1489</u> feet from the <u>South</u> line and <u>134</u> feet from the <u>East</u> line Section <u>09</u> Township <u>32N</u> Range <u>04W</u> NMPM County <u>Rio Arriba</u>		8. Well Number #2
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6,222' GL		9. OGRID Number 16298
		10. Pool name or Wildcat Entrada -Chinle

12. 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 ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Completion operations on new SWD ☒

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.

SUMMARY OF WORK FROM APRIL 24, 2008 TO AUGUST 18, 2008.

RCUD NOV 17 '08
OIL CONS. DIV.
DIST. 3

1. MIRU WSU NUBOP

2. POOH W/ 2-7/8" Kill string TIH W/ RBP TO 5,954' Run CCL/GR/CBL w 1,000 psig applied to Surface. POOH W/RBP TIH W/ 5-1/2" PKR TO 5,998' Pressure Test 5-1/2" TO 1,800 PSIG - Held 30 minutes - Okay.

(See attached pages -)

Spud Date:

Rig Release Date:

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

SIGNATURE Vicki Donaghey TITLE Regulatory Analyst DATE 11/14/2008

Type or print name Vicki Donaghey E-mail address: vdonaghe@energen.com PHONE: 505.325.6800

For State Use Only

APPROVED BY: John G. B... TITLE SUPERVISOR DISTRICT #3 DATE NOV 17 2008

Conditions of Approval (if any): CONDUCT BRADENHEAD TEST AND CHECK AUTOMATIC SHUT-DOWN -
NOTIFY OCD 24 HOURS PRIOR TO START OF INJECTION AND
24 HRS PRIOR TO CONDUCTING BHT + KILL CHECK.

b

PAGE 2.

SUMMARY OF WORK FROM APRIL 24, 2008 TO AUGUST 18, 2008.
(Continued)

3. TIH W/ C/RET - SET RET @ 6124 RKB - RU HSR , PUMP THRU RET - PSI 350 PSI @ 2 BPM - RD HSR CEMENT TRK - RU SQUEEZE MANIFOLD - SECURE WELL - SDFN . PUMP TYPE V CEMENT AS FOLLOWS 10 BBL SPACER - 77SKS W/ .1 % HR-5 .08 % HALAD [R] 9 , .1 % CFR-3 PUMPED @ 15.4 LB - MAX 390 PSI - TOH W/ 5 JTS - CIRCULATE 2 BBLS OF CEMENT AFTER STINGING OUT OF RET - TOH W/ WRK STRING - SECURE WELL - SDFN.

4. NU 4-3/4 BIT & DCS - TIH TO 5957 RKB - TEST TO 500 PSI , OK - TIH TAG CEMENT @ 6014 RKB - BRK CIRCULATION - DRLG CEMENT F/ 6014 TO RET @ 6124 RKB - PSI TEST SQUEEZE HOLE @ 6092 RKB ,TO 1000 PSI ,OK - DRLG OUT RET @ 6124 FT & CEMENT TO 6145 FT - CIRCULATE CLEAN - TOH W/ 1 JT - SECURE LOC - SDFN .

5. BRK CIRCULATION DRL F 6145 FT TO 6270 RKB - PSI TEST SQUEEZE TO 1000 PSI , OK - TIH TO C/O PBTD @ 9280 RK - TOH STD BK WRK STRING - SECURE WELL - SDFN . RUN SECTOR BOND LOG F/ 6500 TO 5960 RKB - BOND BETWEEN 6,092' TO 6,250'.

6. TIH TO 3,460' SET BP & DUMP SAND. SHOOT SQZ HOLES @ In 9-5/8" CASING 2,890'. SET PRK @ 2879 RKB - BRK DN SQUEEZE HOLES @ 2000 PSI .9 BPM - INCREASE RATE AS PSI ALLOWED - FINAL 1645 PSI @ RATE 2.2 BPM. SQUEEZE PERFS @ 2890 RKB - PRK @ 2752 RKB - APPLY 1000 PSI TO BK/SD - ESTABLISH RATE @ 2.2 BPM , 1250 PSI - PUMP 375 SKS OF 50/50 POZ W/ 75 SKS OF TYPE V W/ .2 % R-9 HALAD - DISPLACE 3 BBLS BELOW PRK SD W/1000 PSI. W.O SQUEEZE CEMENT TO SET.

7. PSI CSG TO 500 PSI. TAG CEMENT @ 2,775' - DRLG CEMENT TO 2,850'. DRLG CEMENT F/2850 RKB TO 2896 RKB - PSI TEST SQUEEZE TO 1000 PSI , OK - TOH W/ WRK STRING - SECURE LOC - SDF/WK/END .

8. RUN SECTOR BOND LOG F/ 3456 RKB TO SURF.

9. MIX 25 SKS OF MICRO MATRIC CEMENT TO 25 SKS OF MICRO FLY ASH - SPOT BALANCED PLUG F/ 2903 RKB TO 2801 RKB - CEMENT PUMPED @ 11.8 # - TOTAL SLURRY OF 9 BBLS - TOH TO 2280 RKB - APPLY 1500 PSI TO CEMENT. TIH TO 212 RKB - SET PRK APPLY 1100 PSI TO ANNULUS - BRK CIRCULATION THRU BRADEN HD - PUMP 25 BBLS 2% KCL - MIX 240 SKS CLASS G W/ .03 HALAD 344 2 % C.C - PUMPED @ 15.6 # GAL , DISPLACE 9 BBLS - PUMPED 30 BBLS % HAD RETS THRU BRADEN HD - SI TBG W/ 190 PSI - RD HRS CEMENT EQUIP - SECURE LOC - SDFN .

PAGE 3.

10. TIH W/ BHA - TAG CEMENT @ 290 RKB - DRLG CEMENT F/ 290 TO 3920 RKB - PSI TEST SQUEEZE TO 1000 # , OK. TI H - TAG FILL @ 9117 RKB - CIRCULATE DN TO PBD @ 9,280'.

11. TIH W/ HOMCO CSG PATCH - TIH W/ PATCH - SET PATCH & TOH W/ WRK STRING - PULL THRU PATCH - PATCH SET ACROSS PERFS @ 2,890'. HOMCO CSG PATCH @ TOP 2,879' - BTM @ 2,899'. PSI TEST CSG PATCH ACROSS 2,890' TO 1,000 PSIG -OKAY.

12. TIH W/ HOMCO CSG PATCH TIH - SET CSG PATCH @ 370' TOP BTM 390' TOH W/ WRK STRING RU WEATHERFORD WIRE LINE - RUN CALIPER LOG - HOMCO CSG PATCH BTM @ 390 RKB - TOP @ 370' WIRELINE RUN BOND LOG F/PBD TO SURFACE - RD WIRELINE - TIH W/ 2-7/8 TBG . PSI TEST BOTH HOMCO CSG PATCHES TO 1000 PSI , OK.

13. **PERF LOWER ENTRDA F/ 9130 RKB TO 9258 RKB** - 4 SPF -0,5 , EHD 19 " - 128 FT , 512 PERFS. PUMP 1500 GALS OF MCA 15 % & START BALLS - PUMP ADDITIONAL 8000 GAL OF ACID W 640 BIO- BALLS , @ 5 BPM - PUMPED FLUSH @ 7 BPM - PUMPED ADDITONAL 100 BBLS @ 2 BPM @ 1150 AVJ PSI - ISIP 1119 PSI - 5 MIN 1073 PSI - 1 HR SI 986 PSI - MAX TRATING PSI 1289 - AVJ TREATING PSI 1289 - AVJ CLEAN RATE 3.9 BPM - SLURRY VOLUME 17,795 GALS - MAX RATE 7.9 BPM. **RBP SET @ 9100 RKB.**

14. **PERF UPPER ENTRADA - PERF ZONE F/ 8894 TO 9064 RKB** - 4 SPF , 0.5 EHD & 19 " PENETRATION. ACIDIZE W/ 1,500 GALS AHEAD & 8,500 GALS OF MCA 15 % W/ 850 BIO BALLS - BK DN 1778 PSI , RATE 5.7 BPM.

15. **FRAC UPPER ENTRADA - PERFS F/ 8894 TO 9064 RKB** - FRAC AS FOLLOWS - PUMPED 115,909 GALS OF 15 CP DELTA 200 W/ SWNT FRAC FLUID - PUMPED 2,262 SKSOF 20/40 OTTAWA W/ MAX BH CONCENTRATION OF 5.48 BH CONCENTRATION - COATED 2,238 SKS W/ SWNT @ 2 GAL /MLBS STARTING W/ 1 LB - TOTAL FLUID TO RECOVER IS 2,602 BBLS - A 25 %PAD PUMPED - PUMPED 105,842 DELTA 200 F/ TICKET - AVJ RATE OF 25.4 BPM SLURRY CLEAN RATE 22.8 BPM - ISIP 1908 PSI - 5 MIN 1493 PSI - 10 MIN 1399 PSI - 15 MIN 1333 PSI - SHUT IN 1314 PSI. TIH SET WLRP @ 8800 RKB - TEST PLUG -OK.

16. **PERF LOWER BLUFF F/ 8,703' TO 8,791' RKB** W/ 4 SPF 0.5 EHD 19 " PENETRATION - TOTAL PERFS 352 - RD WIRE LINE - NU HRS PRK TIH TO 8191 RKB - PSI TEST BK SIDE TO 250 , OK - TBG 340 PSI.

PAGE 4.

17. BRK DN FORMATION @ 5 BPM @ 1520 - START ACID 1000 GALS OF 15 % MCA W/ ADDITIVES - PUMP 7000 GALS OF ACID @ 5BPM , INCREASE RATE TO 7 BPM - GOOD BALL ACTION - MAX PSI 1811 - AVG TREAT PSI 1167 - MAX RATE 7 BPM - AVJ RATE 3.7 BPM - ISIP 659 PSI - 5 MIN 267 PSI - 10 MIN 279 PSI. RU JUNK BASKET TIH TO 8800 RKB - TOH - NU **RBP TIH SET @ 8,675' RKB**

18. **PERFORATE UPPER BLUFF F/8600 TO 8660 RKB** - PERFS BLUFF W/ 4 SPF 0.5 EHD 19" PENETRATION. TIH W/ PRK TIH & SET @ 8,222' RKB.

19. PUMP 1000 GALS 15 % MCA ACID AHEAD - PUMP 4000 GALS W/ 300 BIO - BALLS - HAD BALL ACTION , NO BALL-OUT - AVJ RATE 2.9 BPM - MAX RATE 6.9 BPM - MAX PSI 2390 PSI - AVJ PSI 1126 PSI - ISIP 618 PSI - 5 MIN 352 PSI - SI/PSI AFTER 30 MIN 341 PSI.

20. REL RBP@ 8,675'. WAS NOT ABLE TO RETRIEVE RBP SET @ 9100 RKB- CANNOT DISPOSE INTO ENTRADA WILL ONLY BE ABLE TO INJECT INTO BLUFF. SET CIBP @ 8,886' RKB.

21. RIH W/ INJECTION STRING. BAKER PRK - BDW TIH W/ INJECTION PRK & IPC 3-1/2 TBG - **PRK SET @ 8,552' RKB.**

22. **MIT – RUN MIT TEST W/ OCD EMPLOYEE - TEST OK – RDMO WSU.**

Subject Wellbore Diagram - Carracas SWD#2
API No. 30-039-30148
