

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ Other _____

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

Energy Reserves Group, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 3280, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 840' FSL, 1,540' FWL (SE SW)

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

12. COUNTY OR
PARISH

Rio Arriba

13. STATE

New Mexico

15. DATE SPUDDED

1-5-80

16. DATE T.D. REACHED

1-20-80

17. DATE COMPL. (Ready to prod.)

2-29-80

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

GRD 6807' KB 6821'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

7,350'

21. PLUG, BACK T.D., MD & TVD

7,311'

22. IF MULTIPLE COMPL.,
HOW MANY*

NA

23. INTERVALS
DRILLED BY

ROTARY TOOLS

O-TD

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

7,226'-31'; 7,239'-41'; 7,254'-56'; 7,268'-78' - Dakota

25. WAS DIRECTIONAL
SURVEY MADE

NO

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Induction - SFL; Comp. Neutron - Form. Density

27. WAS WELL CORED

NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	448' KB	12-1/4"	300 sks "B" + 3% CaCl ₂	-0-
				+ 1/4#/sk Flocele	
4-1/2"	10.5 & 11.6#	7,350' KB	6-3/4"	See Back of Page	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
		None			2-3/8"	7,255'	None

31. PERFORATION RECORD (Interval, size and number)

7226'-31'; 7239'-41'; 7254'-56'
7268'-78' w/1 JSPF

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
7226'-7278'	B.D. w/1500 gals 15% acid + additives
	Fraced w/50,000 gals Mini-Max
	III - 30 + additives + 105,000#

PRODUCTION

20-40 SD.

33.* DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)

WELL STATUS (Producing or
shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	TEST W. PRESS. (PSI)
2-28-80	20 hrs	1/2"	→	83	259		
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	TEST W. PRESS. (PSI)	TEST W. PRESS. (PSI)
50 psi	SI 550 psi	→	100	311	2		

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Vented During Test

35. LIST OF ATTACHMENTS

Sample Description

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

ACCEPTED FOR RECORD *B. Barner*

TITLE Dist Prod Engr - RMD

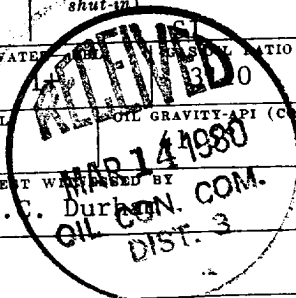
DATE 2-29-80

*(See Instructions and Spaces for Additional Data on Reverse Side)

MAR 13 1980

DURHAM DISTRICT

STATE



INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			<u>SEE ATTACHED</u> 4-1/2" cementing record 1st stage - 525 sks 50-50 Pozmix + additives. Stage collar @ 5,354' 2nd stage - 850 sks 65-35 Pozmix + additives followed w/100 sks 50-50 Pozmix + additives. Temp cement top @ 400'.	LOG TOPS		
				Ojo Alamo	2,340'	
				Kirtland	2,514'	
				Fruitland	2,767'	
				Pictured Cliffs	2,852'	
				Lewis	2,923'	
				Chacra	3,706	
				Menefee	4,441'	
				Pt. Lookout	5,079'	
				Mancos	5,230'	
				Gallup	6,190	
				Base Gallup	6,483'	
				Greenhorn	7,016'	
				Graneros	7,068'	
				Dakota	7,225'	
				Dakota Pay	7,262'	
				T.D. Driller	7,350'	
				Logger	7,347'	

SAMPLE DESCRIPTION

2600 - 30 20% Ss: gry, fg, sbrnd, shaly, hard, sl porous, N-S
60% Sh: gry, frm, sndy in part
20% Coal: blk, shly

30 - 60 10% Ss: AA
40% Sh: AA
50% Coal: blk, vitreous

60 - 90 50% Sh: AA
50% Coal: AA

2690 - 2720 80% Sh: AA
20% Coal: AA

20 - 50 30% Ss: gry, fn-mg, sbrnd, arkosic, sl shly, sl calc,
frm-friable, porous, N-S
40% Sh: AA
30% Coal: AA

50 - 80 10% Ss: AA
40% Sh: AA
50% Coal: AA

2780 - 2810 20% Ss: lt gry-gry, fn-g, sbrnd, arkosic, calc, shly,
frm, sl porous, N-S
30% Sh: AA
50% Coal: AA

10 - 40 40% Sh: AA
60% Coal: AA

40 - 70 10% Ss: gry, vfn-g, sbrnd, vy shly, frm, tite, N-S
40% Sh: AA
50% Coal: AA

2870 - 2900 70% Sh: gry, frm, calc
30% Coal: AA

2900 - 30 50% Sh: gry, frm, calc
50% Coal: blk, shly
Tr. Chert: clr, crs-g, sbrnd

30 - 60 50% Ss: gry, crs-g, sbrnd, shly, vy cly fld, calc,
frm, tite, N-S
50% Sh: AA

2960 - 3080 100% Sh: gry, calc, sndy, frm

3080 - 3110 10% Ss: gry-wht, fn-g, sbrnd, cly fld, shly, frm, tite,
N-S
90% Sh: AA

3110 - 3200 100% Sh: gry, w/blk, carb incl, frm, calc, sndy in part

3200 - 30 10% Ss: dk gry, vfn-g, sbrnd, shly, firm, tite, N-S
80% Sh: AA
10% Chert: clr, gry, vy crs-g, sbrnd

3230 - 3350 100% Sh: AA

50 - 80 10% Ss: gry, vfn-g, sbrnd, shly, cly fld, hard, tite, N-S
90% Sh: gry, hard, sl calc

3380 - 3410 10% Chert: smoky, crs-g, sbang
90% Sh: AA

10 - 40 100% Sh: dk gry, frm, slty, sl calc

3440 - 3500 10% Ss: gry, vfn-g, sbrnd, shly, cly fld, hard, tite, N-S
90% Sh: AA

3500 - 30 10% Ss: gry, fg, sbrnd, shly, calc, frm, poss sl porous,
N-S
90% Sh: AA

3530 - 3620 100% Sh: gry, frm, sl calc, hard, slty in part

20 - 50 100% Sh: AA

50 - 80 10% Ss: gry, fg, sbrnd, mod cly fld, frm, sl porous,
N-S
90% Sh: AA

3680 - 3800 100% Sh: AA

3800 - 60 30% Ss: lt gry, vfn-fn-g, hvy cly fld, frm, tite, N-S
70% Sh: AA

60 - 90 10% Ss: gry-brn, vfn-g, sbrnd, frm, mod cly fld,
sl porous, N-S
90% Sh: AA

3890 - 3920 100% Sh: gry, frm

20 - 50 N.S.

3950 - 4010 10% Ss: gry, vfn-g, sbrnd, frm, sl cly fld, porous, N-S
90% Sh: AA

4010 - 4100 100% Sh: gry, frm, sndy

4100 - 4310 10% Sltstn: gry, shly, cly fld, N-S
90% Sh: AA

10 - 70 100% Sh: AA

4370 - 4430 N.S.

30 - 60 30% Ss: clr gry-wht, fg, sbrnd, mod cly fld, fair por,
calc, w/carb incl
70% Sh: gry, frm, plty, slty

60 - 90 20% Ss: AA
80% Sh: AA

4490 - 4510 20% Ss: AA
 70% Sh: AA
 10% Coal: blk, vit

10 - 40 10% Ss: AA
 90% Sh: gry, frm, blk, slty, w/carb incl

40 - 70 20% Ss: wht, fg, sbrnd, cly fld, tite, calc
 80% Sh: AA

70 - 90 N.S.

4590 - 4620 10% Ss: AA
 90% Sh: AA, plty-blk

20 - 50 30% Ss: wht, f-mg, sbrnd, mod cly fld, fair por,
 calc, sl feld
 70% Sh: AA, some blk and coaly

50 - 80 10% Ss: AA
 90% Sh: AA

4680 - 4710 10% Ss: AA, cly fld, tite
 90% Sh: AA

10 - 40 20% Ss: wht, fg, sbrnd, mod cly fld, fair-gd por, calc,
 sl feld
 80% Sh: lt gry-gry-brn, frm, blk-plty, slty, w/carb
 incl, some clayey

40 - 70 30% Ss: AA, f-mg
 70% Sh: AA

4770 - 4800 20% Ss: AA
 80% Sh: AA

4800 - 30 20% Ss: AA
 80% Sh: gry, frm, plty, slty

30 - 60 20% Ss: AA
 80% Sh: AA, some blk and coaly
 Tr. Coal: blk, vit

60 - 90 10% Ss: AA
 90% Sh: AA

4890 - 4920 40% Ss: wht, fg, sbrnd, cly fld, tite, sl glauc
 60% Sh: AA
 Tr. Coal: AA

20 - 50 10% Ss: wht, mg, sbrnd, mod cly fld, fair por, calc,
 sl glauc, sl feld
 80% Sh: AA
 10% Coal: blk, vit

50 - 80 100% Sh: gry, sft-frm, plty, clayey-slty,
 Tr. Coal: blk, vit.

4980 - 90 N.S.

4990 - 5050 100% Sh: AA
Tr. Coal: AA

50 - 80 20% Ss: wht, fg, sbang, mod-hvy cly fld, tite, sl
glauc, w/occ carb incl
80% Sh: AA
Tr. Coal: AA

5080 - 5140 70% Ss: clr gry-wht, mg, sbang, calc, s & p, w/occ
carb incl, sl cly fld, gd por
30% Sh: AA

40 - 70 40% Ss: wht, fg, sbang, sl cly fld, gd-fair por, sl
glauc, calc, s & p
60% Sh: gry, frm-sft, plty, slty-sl clayey, w/occ
carb incl, sl calc

5170 - 5200 40% Ss: gry-wht, fg, sbang, mod cly fld, fair por-tite,
sl glauc, calc, s & p
60% Sh: AA, some dk gry

5200 - 30 30% Ss: AA
70% Sh: gry, frm, blk, slty, sl calc

30 - 60 100% Sh: AA

60 - 90 100% Sh: gry-dk gry, frm, blk, slty, w/carb incl, calc

5290 - 5320 100% Sh: AA, some sl sndy

5320 - 5460 100% Sh: gry, frm, plty, slty-clayey, some sl sndy,
calc, w/occ carb incl

60 - 90 100% Sh: gry-brn, frm, blk, slty-sndy, calc, w/occ
carb incl

5490 - 5500 100% Sh: gry, frm, blk, slty-clayey, calc

5500 - 60 100% Sh: gry-brn, frm, blk, sl slty, calc

60 - 90 100% Sh: gry, frm, blk, slty, calc, w/occ carb incl

5590 - 5730 100% Sh: AA, less slty

5730 - 5850 100% Sh: dk gry, frm, plty, sl slty, sl carb, calc

5850 - 5910 100% Sh: AA, less slty

10 - 70 100% Sh: AA, slty

70 - 80 N.S.

5980 - 6000 100% Sh: dk gry-brn, frm, blk, slty
Tr. Ss: gry, vfn-g, sbrnd, clean, gd por.

6000 - 20 90% Sh: AA
10% Ss: wht, vfn-g, sl cly fld, fair por, calc

20 - 40 100% Sh: AA

40 - 70 N.S.

6070 - 6100 100% Sh: dk gry, frm, blk, sl slty, carb

6100 - 30 100% Sh: AA, slty, plty-blk

(Sample shows in Gallup section could be result of 9% oil in mud.)

30 - 40 10% Ss: wht, vfn-g, sbrnd, cly fld, tite, calc, faint yel-grn fluor w/no cut
90% Sh: AA

40 - 50 100% Sh: AA, plty

50 - 60 10% Ss: clr gry, fg, sbrnd, sl cly fld, gd por, calc, faint yel-grn fluor w/vy wk cut
90% Sh: AA

60 - 70 10% Ss: wht, vfn-g, sbrnd, cly fld, tite, faint yel-grn fluor w/vy wk cut
90% Sh: AA

70 - 90 100% Sh: dk gry, frm, plty, sl slty, carb, calc
Tr. Ss: AA, and Coal: blk, vit

6190 - 6200 10% Sltstn: gry, frm
90% Sh: AA

6200 - 10 10% Ss: wht, vfn-g, sbrnd, mod cly fld, sl porosity, calc, yel-grn fluor w/vy wk cut
90% Sh: AA

10 - 30 100% Sh: AA

30 - 50 N.S.

50 - 60 10% Ss: gry, fg, sbrnd, sl cly fld, fair por, calc, w/carb incl, dull yel fluor w/vy wk cut
90% Sh: AA

60 - 70 30% Ss: wht-gry, fg, sbrnd, clean, gd por, calc, yel-grn fluor w/vy wk cut
70% Sh: AA

70 - 80 30% Ss: AA
70% Sh: dk gry, frm, plty, slty, calc.

6280 - 6300 50% Ss: gry-wht, fg, sbrnd, calc, sl cly fld-sl shly, fair por, dull yel fluor w/wk cut
50% Sh: AA

6300 - 10 20% Ss: wht, fg, sbrnd, sl cly fld, fair-gd por,
dull yel fluor w/wk cut
80% Sh: gry-brn, frm, blk, slty, w/carb incl, calc

10 - 20 20% Ss: brn-wht, fg, sbrnd, sl shly, fair por-tite,
calc, dull yel fluor w/wk cut
80% Sh: AA

20 - 40 10% Ss: AA
90% Sh: AA

6340 - 6440 LCM

6440 - 80 N.S.

80 - 90 10% Ss: clr wht, fg, sbrnd, mod cly fld, fair por, calc,
N-S
90% Sh: dk gry, frm, plty, slty, calc

6490 - 6500 100% Sh: AA

6500 - 10 10% Ss: gry, fg, sbrnd, shly, tite, N-S, calc
90% Sh: AA

10 - 30 100% Sh: AA, some sl coaly

30 - 40 100% Sh: AA, sl less slty

40 - 60 100% Sh: gry, frm, plty, sl slty, some clayey, calc,
w/carb incl

6560 - 6600 100% Sh: dk gry, frm, plty, slty, carb, calc

6600 - 30 100% Sh: AA, some sl sndy

30 - 90 100% Sh: gry, frm, plty, slty, calc, w/carb incl, scat.
pyrite masses

6690 - 6750 100% Sh: dk gry, frm, plty, calc, carb, scat. pyrite
masses
Tr. Chert: clr, cg, ang.

6750 - 6840 100% Sh: dk gry, frm, plty, slty, vy calc

40 - 70 100% Sh: AA, sl limey

6870 - 6900 100% Sh: gry-dk gry, frm, plty, slty, some carb, limey,
scat. pyrite masses

6900 - 60 100% Sh: dk gry, frm, plty-blky, sl slty, some clayey,
sl calc.

6960 - 6990 100% Sh: dk gry, frm, plty, sl calc, carb
Tr. Chert: clr, cg, sbrnd.

6990 - 7050 100% Sh: AA
Tr. Ss: gry, fg, sbrnd, sl cly fld, fair por, calc, N-S

7050 - 7100 100% Sh: dk gry, frm, splintery, calc, sandy in part,
w/occ frags of chert

7100 - 10 100% Sh: gry-dk gry, some firm and splintery, some soft
and clayey, calc, w/trace of cg, clr, chert frags

10 - 20 40% Ss: clr, fg, sbang-sbrnd, clean, sl calc, hard,
sl porous, bright yel fluor w/fair cut
60% Sh: dk gry-gry, calc, firm, micromic, some sandy

20 - 30 30% Ss: clr, fn-mg, sbang-sbrnd, some clean and hard;
some cly fld and friable, calc, sl porous, bright
yel fluor w/fair cut
70% Sh: AA

30 - 40 10% Ss: AA, becoming shaly w/show as above
90% Sh: AA

40 - 60 20% Chert: beige, frosted, vy.crs-g, rndd, translucent
80% Sh: AA

60 - 70 100% Sh: AA

70 - 80 10% Ss: dk gry, fg, sbrnd, shly, calc, hard, probably
tite, yel fluor w/wk cut
90% Sh: AA

80 - 90 100% Sh: AA

7190 - 7200 30% Chert: clr-beige, vy crs-g, sbrnd
70% Sh: AA

7200 - 20 10% Chert: AA
90% Sh: AA

20 - 50 100% Sh: AA

50 - 70 20% Ss: brn, fg, sbrnd, shly, sft, clayey, sl calc,
poss. sl. porosity, bright yel fluor w/vy wk cut
80% Sh: AA

7270 - 7300 40% Ss: clr, f-mg, sbrnd, clean to vy sl cly fld, calc,
some hard, some friable, porous, bright yel fluor
w/wk cut
60% Sh: AA

7300 - 20 40% Ss: clr, fg, sbrnd, clean, calc, hard, porous,
bright yel fluor w/fair cut
60% Sh: AA

20 - 30 20% Ss: AA
80% Sh: AA

30 - 50 10% Ss: AA
90% Sh: AA