Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE* (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: SF-078019

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: E.H. Pipkin

2. NAME OF OPERATOR: Energy Reserves Group, Inc.

9. WELL NO.: #8-E

3. ADDRESS OF OPERATOR: P.O. Box 3280 - Casper, Wyoming 82602

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 950' FSL, 890' FEL (SE SE)
At top prod. interval reported below
At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 1-T27N-R11W

14. PERMIT NO. | DATE ISSUED

12. COUNTY OR PARISH: San Juan | 13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
4-27-80	5-10-80	7-1-80	GRD 5,736' KB 5,750'	----------

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
6,210' KB	6,157' KB	NA	→	0-TD	----------

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: Dakota 6,098' - 6,122' KB

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

28. 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#	304' KB	12-1/4"	250 sks "B" + 2% $CaCl_2$ + 1/4#/sk Flocele. Did not circ. cement. See back of page	-0-
4-1/2"	10.5#	6,203' KB	7-7/8"	See Back of Page	-0-

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
		None		

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2-3/8"	6,119'	None

31. PERFORATION RECORD (*Interval, size and number*)
4,364'-65' (4 perfs) - Squeeze perfs
6,098'-6,108'
6,110'-6,114' w/1 JSPF
6,121'-6,122'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
4,364'-65'	Squeeze w/150 sx cmt. B.D. w/1000 gal 7½% HCl + additives. + 10% Methanol + 500 SCF N_2/bbl + 25 RCNB. Frac job on back of page *
6,098' - 6,122'	

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
		SI

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
7-1-80	24	1/2"		4	132	3 (Frac Fluid)	33,000 SCF/STB

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
75	300		4	132	3 (Frac Fluid)	50°

ACCEPTED FOR RECORD
JUL 1 1980

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): VENTED DURING TEST

TEST WITNESSED BY: T.C. DURHAM

35. LIST OF ATTACHMENTS: SAMPLE DESCRIPTION

BY

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

SIGNED [signature] TITLE Prod. Engr-RMD DATE July 7, 1980

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			SEE ATTACHED Cementing - 8-5/8" Cemented from top w/25 sks "B" + 4% $CaCl_2$. Cementing - 4-1/2" 1st stage - 465 sx Class "B" w/10% salt - 2nd stage @ 4,363' 610 sks of 50-50 Pozmix w/2% gel + 1/4#/sk Flocele. 3rd stage @ 1,829' 375 sx of 65-35 Pozmix w/6% gel followed by 385 sx 50-50 Pozmix w/2% gel + 1/4#/sk Flocele. * Fractured w/50,000 gal gelled water (GWX -4) + 10% Methanol + 400 SCF N_2/bbl. + 90,000# 20-40 sand.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
LOG TOPS		
Ojo Alamo	530'	
Kirtland	649'	
Fruitland	1,303'	
Pictured Cliffs	1,591'	
Lewis	1,677'	
Cliff House	3,113'	
Menefee	3,253'	
Point Lookout	3,982'	
Mancos	4,296'	
Gallup	5,140'	
Greenhorn	5,937'	
Graneros	5,993'	
Dakota	6,046'	
Dakota Pay	6,097'	
Driller TD	6,210'	
Loggers	6,157'	

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GPO 680-378

SAMPLE DESCRIPTION

600 - 30 100% Ss: clr wht, vy cg, sbrnd, lse, feld grns. common

30 - 60 90% Ss: AA
10% Sh: bl gry, sft, blky, clayey

60 - 90 50% Ss: AA
50% Sh: AA, some brn and sl slty

90 - 720 20% Ss: AA
80% Sh: AA

20 - 50 20% Ss: wht, mg, sbang, cly fld, tite, sl fri
80% Sh: bl gry-gry, sft, blky, some clayey

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

780 - 870 100% Sh: gry-lt brn, sft, blky, slty-sl clayey, w/occ carb incl

870 - 900 20% Ss: wht, fg, sbang, cly fld, tite, some poss sl por, frm
80% Sh: AA, some bl gry, sft, blky and clayey

900 - 30 100% Sh: gry-bl gry-brn, sft, blky, sl slty-clayey, w/occ carb incl

30 - 60 100% Sh: AA , less clayey

960 - 1020 100% Sh: AA
Tr. Ss: wht, fg, sbang, cly fld, tite

20 - 60 100% Sh: gry-bl gry, sft, blky, w/occ carb incl

60 - 90 100% Sh: AA
Tr. Ss: wht-gry, vfn-g, sbang, cly fld-shly, tite

1090 - 1120 100% Sh: gry-brn, frm, blky, slty, w/carb incl

20 - 50 80% Sh: AA
20% Coal: blk, vit

50 - 80 70% Sh: gry-brn, sft-frm, blky, slty, carb incl
30% Coal: blk, vit

1180 - 1210 70% Sh: gry-lt gry, sft, blky-plty, slty
30% Coal: AA

1210 - 1300 100% Sh: gry-lt gry-brn, frm, blky-plty, slty, w/occ carb incl
Tr. Coal: AA

1300 - 30 90% Sh: AA
10% Coal: blk, vit

1330 - 60 90% Sh: lt gry-gry, sft, blky-plty, sl slty
10% Coal: blk, vit

60 - 90 10% Ss: wht, fg, sbrnd, cly fld-mod cly fld, sl por, s & p
90% Sh: AA

1390 - 1420 100% Sh: AA
Tr. Ss: AA

20 - 50 30% Ss: wht, fg, sbang, cly fld, poss sl porosity, sl feld, sl calc
70% Sh: lt gry-brn, frm, blky-plty, slty, w/occ carb incl

50 - 80 20% Ss: AA, f-mg.
80% Sh: AA

1480 - 1510 100% Sh: dk gry-gry, frm-sft, blky, clayey, sl carb

10 - 70 100% Sh: dk gry, sft, plty, sl clayey, carb

1570 - 1600 10% Ss: wht, f-mg, psrt, cly fld, poss sl por, sl feld, s & p calc
70% Sh: gry-lt gry, sft, blky, sl slty, w/occ carb incl
20% Coal: blk, vit

1600 - 30 20% Ss: wht, mg, sbrnd, cly fld, sl porosity, sl feld, calc, sl glauc, s & p
80% Coal: blk, vit

30 - 60 50% Ss: AA, f-mg, tite
50% Sh: lt gry, sft, blky

60 - 90 30% Ss: wht, f-mg, sbang, mod-hvy cly fld, fair por, s & p, calc
70% Sh: AA

1690 - 1720 50% Ss: wht, fg, sbang, cly fld, tite, sl feld, calc
50% Sh: AA

20 - 50 30% Ss: AA
70% Sh: gry, sft, blky, slty, calc, w/carb incl, some sl sndy

50 - 80 50% Ss: wht-gry, vfn-g, sbang, shly, tite, sl calc, w/carb incl
50% Sh: gry-lt gry, sft, blky, slty, w/carb incl

1780 - 1810 20% Ss: AA
80% Sh:AA

10 - 40 20% Ss: wht-gry, vfn-g, sbang, cly fld-sl shly, tite, sl calc, w/carb incl
80% Sh: gry, frm, blky, slty

1840 - 1900 N.S.

1900 - 2020 100% Sh: gry, frm, blky-plty, sl slty, w/carb incl

2020 - 2110 100% Sh: gry, frm, blky-plty

2110 - 40 100% Sh: gry-brn, frm, blky, sl slty, w/occ carb incl

40 - 70 100% Sh: gry, frm, blky, sl slty

2170 - 2200 100% Sh: AA
Tr. Ss: wht, fg, sbrnd, cly fld, tite

2200 - 60 100% Sh: gry, frm, blky-plty, sl slty

60 - 90 100% Sh: gry-brn, frm, blky, sl slty, w/occ carb incl

2290 - 2310 100% Sh: gry-dk gry-brn, frm, blky, some sl slty, carb
Tr. Chert: clr, vy cg, ang

10 - 70 100% Sh: gry, frm, blky, slty, sl carb

2370 - 2480 N.S.

2480 - 2540 100% Sh: gry-brn, frm, blky-plty, slty, w/occ carb incl

40 - 70 30% Ss: gry-wht, f-vfn-g, sbrnd, psrt, sl shly, tite, calc, w/carb incl
70% Sh: gry-brn, frm, blky, w/carb incl, some slty

2570 - 2600 20% Ss: gry, vfn-g, sbang, shly, tite, w/carb incl, calc
80% Sh: AA

2600 - 60 20% Ss: AA
80% Sh: AA

60 - 90 20% Ss: wht-gry, vfn-g, sbang, cly fld - sl shly, tite, calc
80% Sh: AA

2690 - 2770 10% Ss: AA
90% Sh: AA

2770 - 2830 100% Sh: gry-brn, frm, blky, sl slty, sl calc, w/occ carb incl

30 - 60 100% Sh: AA
Tr. Chert: clr-translucent brn, cg, sbrnd

60 - 90 100% Sh: gry-brn, frm, blky-plty, slty, w/carb incl

2890 - 2950 N.S.

50 - 80 10% Ss: wht, vfn-g, sbrnd, cly fld, tite
90% Sh: gry, frm, blky, slty, w/carb incl

2980 - 3010 100% Sh: AA
Tr. Ss: AA

3010 - 70 10% Ss: gry-wht, vfn-g, sbang, shly, tite
90% Sh: AA

3070 - 3100 100% Sh: AA

3100 - 30 50% Ss: clr wht, f-mg, sbrnd, sl cly fld, fair por, sl glauc, w/occ carb incl
50% Sh: bl gry-gry, sft, blky, clayey, some dk gry and carb

30 - 60 50% Ss: AA
50% Sh: AA

60 - 90 30% Ss: wht, fg, sbrnd, mod cly fld, sl porosity, sl glauc, w/occ carb incl
70% Sh: AA

3190 - 3220 20% Ss: AA
70% Sh: AA
10% Coal: blk, vit

20 - 50 20% Ss: wht, fg, sbrnd, mod cly fld, poss sl por, w/occ carb incl, calc
80% Sh: AA, w/carb incl

50 - 80 30% Ss: AA, cly fld, tite
70% Sh: AA

3280 - 3310 10% Ss: wht, fg, sbang, sl cly fld, sl porosity, sl feld, w/occ carb incl
30% Sh: AA
60% Coal: blk, vit

10 - 40 30% Ss: AA, cly fld, tite
70% Sh: gry, sft, blky, clayey, w/occ carb incl, some dk gry and carb

40 - 70 10% Ss: AA
90% Sh: gry-brn, frm, blky, sl slty, w/carb incl
Tr. Chert: mlky wht, vy cg

3370 - 3400 10% Ss: AA
90% Sh: AA
Tr. Coal: blk, vit

3400 - 60 100% Sh: AA
Tr. Coal: blk, vit

60 - 90 10% Ss: clr wht, fg, sbrnd, cly fld, tite, occ lse grns, calc.
70% Sh: AA
20% Coal: blk, vit

3490 - 3520 20% Ss: wht, fg, sbang, mod cly fld, sl porosity, sl feld, calc, sl glauc
70% Sh: gry-dk gry, frm, blky, sl sndy
10% Coal: blk, vit

20 - 50 20% Ss: AA
70% Sh: AA
10% Coal: AA

3550 - 3640 N.S.

40 - 70 30% Ss: wht, fg, sbang, mod cly fld, sl porosity, calc, sl feld
70% Sh: dk gry-gry-brn, frm, blky, clayey-slty, w/carb incl

3670 - 3700 40% Ss: AA, sl cly fld, fair por
60% Sh: AA
Tr. Coal: blk, vit

3700 - 60 10% Ss: wht, fg, sbrnd, cly fld, tite, calc, w/occ carb incl
90% Sh: AA

60 - 90 100% Sh: AA

3790 - 3820 30% Ss: wht, sbang, cly fld, tite, sl calc
70% Sh: gry-lt gry, frm, blky, slty, some dk gry and carb
Tr. Coal: blk, vit

20 - 50 10% Ss: AA
60% Sh: AA
30% Coal: blk, vit

50 - 80 10% Ss: AA
50% Sh: AA
40% Coal: blk, vit

3880 - 3940 50% Sh: AA
50% Coal: AA

40 - 70 70% Sh: AA
30% Coal: AA

3970 - 4000 20% Ss: clr wht, sbrnd, sl cly fld, fair porosity, calc, w/occ carb incl, sl glauc
60% Sh: gry, sft, blky, sl clayey
20% Coal: blk, vit

4000 - 30 40% Ss: wht, f-mg, psrt, sbrnd, sl cly fld, fair por, calc, sl feld
60% Sh: AA
Tr. Coal: AA

30 - 60 30% Ss: AA, scat. pyrite masses
70% Sh: AA

60 - 90 30% Ss: wht, fg, sbrnd, cly fld, tite, calc, w/occ carb incl
70% Sh: AA
Tr. Coal: blk, vit

4090 - 4120 60% Ss: AA
40% Sh: AA

20 - 50 30% Ss: AA
70% Sh: AA

50 - 80 10% Ss: wht, vfn-g, sbrnd, cly fld-sl shly, tite, calc, w/carb incl
90% Sh: AA

4180 - 4400 N.S.

4400 - 30 100% Sh: gry-bl gry, sft, blky, clayey

30 - 60 100% Sh: AA
Tr. Ss: wht, fg, sbrnd, cly fld, tite

4460 - 90 100% Sh: gry-brn, frm, blky-plty, sl slty, sl calc, w/carb incl

4490 - 4550 100% Sh: gry-dk gry, frm, plty, sl slty, micmica, sl calc, sl carb

50 - 80 100% Sh: gry-brn, frm, blky-plty, sl slty, w/carb incl

4580 - 4610 100% Sh: gry-lt gry-brn, sft-frm, blky, sl slty, w/carb incl

4610 - 4860 100% Sh: gry-brn, frm, plty, slty, sl calc, w/carb incl

60 - 90 100% Sh: gry-brn, frm, plty, sl slty, sl calc, some sl coaly, some clayey

4890 - 4980 100% Sh: AA, less coaly

4980 - 5010 100% Sh: dk gry, frm, blky-plty, slty, sl calc, sl carb

10 - 40 100% Sh: dk gry, sft, plty, sl calc, sl carb

40 - 70 100% Sh: dk gry, frm, blky-plty, slty, calc, w/carb incl

5070 - 5100 100% Sh: AA, less slty

5100 - 60 100% Sh: AA
Tr. Ss: gry, vfn-g, sbrnd, shly, tite, N-S

60 - 90 100% Sh: AA, some bl gry, sft, and clayey

5190 - 5220 100% Sh: dk gry-lt gry, sft, blky-plty, some slty, some carb

20 - 50 100% Sh: gry, sft, blky, w/carb incl

5250 - 5310 100% Sh: gry-dk gry, frm, plty, some carb, scat. pyrite masses, sl calc

10 - 40 10% Ss: clr wht, vfn-g, sbrnd, sl cly fld, fair por, calc
90% Sh: gry-dk gry, frm, plty, sl slty, calc, w/carb incl

40 - 70 100% Sh: AA

5370 - 5460 100% Sh: AA, some xln calcite filling fractures

60 - 90 100% Sh: gry-dk gry, frm, plty, slty, calc,

5490 - 5550 LCM

50 - 80 N.S.

5580 - 5610 30% Ss: clr wht, fg, sbrnd, sl cly fld, sl porosity, sl glauc, faint yel fluor w/no cut
70% Sh: gry-dk gry, frm, plty, calc, carb

10 - 40 10% Ss: gry, fg, sbang, sl shly, tite, calc, N-S
90% Sh: AA

5640 - 5700 N.S.
5700 - 30 100% Sh: gry-dk gry, frm, blky-plty, carb, sl calc

5730 - 5820 100% Sh: AA, sl slty

5820 - 5900 N.S.

5900 - 20 100% Sh: gry-dk gry, frm, blky, vy carb, some slty, sl micmica

20 - 50 100% Sh: AA, some vy calc

50 - 70 100% Sh: gry-dk gry, frm, plty, slty, carb, limy, scat. pyrite masses

70 - 80 100% Sh: gry-dk gry, frm, plty, slty, carb, vy calc

5980 - 6000 100% Sh: AA, limy

6000 - 10 100% Sh: AA, vy calc

10 - 20 10% Ss: gry, fg, sbrnd, sl cly fld-shly, tite, calc
90% Sh: gry-dk gry, frm, plty, sl slty, carb, sl calc, some vy calc

20 - 30 10% Ss: AA
90% Sh: AA, sl calc

30 - 40 20% Ss: wht, fg, sbrnd, cly fld, frm, poss sl por, calc, sl glauc
80% Sh: bl gry-gry-dk gry, frm, blky, some clayey, sl calc

40 - 50 10% Ss: AA
90% Sh: AA

50 - 70 100% Sh: AA

70 - 80 20% Ss: wht, fg, sbrnd, mod cly fld, sl porosity, sl glauc, calc
80% Sh: AA

80 - 90 30% Ss: AA
70% Sh: AA

6090 - 6100 40% Ss: clr wht, fg, sbrnd, clean, gd por, sl calc
60% Sh: gry-dk gry, frm, blky-plty, sl calc, scat. pyrite masses

6100 - 10 20% Ss: clr wht, fg, sbrnd, clean-sl cly fld, fair-gd por, sl calc, sl glauc
80% Sh: AA

10 - 20 30% Ss: wht, fg, sbrnd, mod cly fld, frm, poss sl por, sl glauc
70% Sh: AA

20 - 30 30% Ss: wht, fg, sbrnd, sl cly fld, fair por, sl calc
70% Sh:AA

6130 - 50 40% Ss: AA
60% Sh: AA

50 - 60 40% Ss: wht, fg, sbrnd, mod cly fld, frm, tite,sl calc
60% Sh: dk gry, frm, plty, slty, calc, carb

60 - 70 30% Ss: AA
70% Sh: AA

70 - 80 20% Ss: wht, fg, sbrnd, cly fld, tite, frm, calc, w/occ carb incl
80% Sh: AA

80 - 90 40% Ss: AA
60% Sh: AA

6190 - 6210 N.S.