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-078904

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: Gallegos Canyon Unit

8. FARM OR LEASE NAME: Gallegos Canyon Unit

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

9. WELL NO.: 291

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

10. FIELD AND POOL, OR WILDCAT: Kutz Pictured Cliffs, West

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 1850' FSL, 1830' FEL (NW/SE)

At top prod. interval reported below

At total depth

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 23-T28N-R12W

RECEIVED
FEB
GEOLOGICAL SURVEY
FARMINGTON, N. M.

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
12-13-79	12-16-79	1-22-80	GRD - 5760' KB 5770'	----------

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
1817'	1769'	NA	→	0-TD	----------

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: 1582'-88'; 1600'-10' Pictured Cliffs

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN: Induction-Electrolog; Comp. Densilog - Neutron

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"	20#	131' KB	12-1/4"	100 sks "B" + 3% $CaCl_2$ + 1/4#/sk Flocele	-0-
4-1/2"	9.5#	1809' KB	6-3/4"	400 sks 50-50 Pozmix + 1/4#/sk Flocele *	-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"	1609'	None

31. PERFORATION RECORD (*Interval, size and number*)
1582'-88'
1600'-10' w/1 JSPF (18 holes)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1582' - 1610'	Broke down w/750 gals 15% HCl + additives. Fraced w/ 24,000 gals 70% Quality Foam + 40,000# 10-20 SD @ 2 PPG

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
1-21-80	24	1/2"		0	159	28	NA

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
125 psi	SI 180 psi		-0-	159	28	

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*): Vented During Test

FEB 5 '80

TEST WITNESSED BY: T.C. Durham

35. LIST OF ATTACHMENTS: Sample Description

FARMINGTON DISTRICT
BY M. L. Kuchera

RECEIVED
FEB 6 1980
OIL CON. COM.
DIST. 3

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

SIGNED Neal B. Barnes TITLE Dist Prod Engr - RMD DATE 1-24-80

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

NMOCC

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 * 4-1/2" csg. cmt'd back to surface

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
LOG TOPS		
Ojo Alamo	371'	
Kirtland	477'	
Fruitland	1,296'	
Pictured Cliffs	1,579'	
Lewis	1,780'	
TD Driller	1,805'	
Logger	1,817'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

GPO 680-3/8

GC4-PC #291

SAMPLE DESCRIPTION

140 - 70	100% Ss: clr-wht, f-mg, sbrnd, msrt, uncons
170 - 200	100% Ss: AA, lt gry in part
200 - 30	90% Ss: clr-wht, lt gry, f-mg, sbrnd-sbang, msrt, m-uncons, sl calc, occ feld 10% Sh: m-dk gry, sft-frm, blky-plty, sl carb Tr. Chert: clr, cg
30 - 60	80% Ss: AA 20% Sh: AA
60 - 90	100% Sh: gry, sft-frm, blky-plty
290 - 320	80% Ss: clr-wht, f-mg, sbrnd, p-msrt, p-uncons, calc, sl cly fld 20% Sh: AA
320 - 50	90% Ss: AA 10% Sh: AA Tr. Chert: clr, cg, sbrnd
50 - 80	30% Ss: AA 70% Sh: m-dk gry, frm, blky, sl carb
380 - 450	N.S.
450 - 80	100% Ss: clr-wht, f-mg, sbrnd, msrt, p-uncons, calc
480 - 510	70% Ss: AA 30% Sh: gry, frm-sft, plty-blky
510 - 40	60% Ss: AA, w/feld 40% Sh: gry, gry-grn, frm, blky-plty, sl carb
40 - 70	N.S.
570 - 600	70% Ss: clr-wht, lt-m gry, f-mg, sbrnd, msrt, calc 30% Sh: AA
600 - 30	40% Ss: AA 60% Sh: m-dk gry, gry-grn, frm, blky-plty
30 - 60	100% Sh: m gry, gry-grn, frm, blky-plty, slty
60 - 90	30% Ss: clr-wht, f-mg, sbang, msrt, uncons, calc 70% Sh: AA
690 - 720	90% Ss: AA 10% Sh: AA
720 - 50	100% Sh: AA

750 - 80 100% Sh: m gry, gry-grn, frm, b lky, slty

780 - 810 100% Sh: AA

810 - 40 100% Sh: AA, bcmg sl carb

40 - 70 10% Ss: lt gry, fg, sbrnd, msrt, uncons, calc, fair por, w/carb incl
90% Sh: gry-grn, gry, frm, blky, slty

870 - 900 20% Ss: AA
80% Sh: AA
Tr. Chert: clr, cg, sbrnd

900 - 30 100% Sh: AA, sl carb in part

30 - 60 20% Ss: clr-lt gry, fg, sbang-sbrnd, msrt, uncons, calc, w/carb incl
80% Sh: m-dk gry, frm, blky, slty

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

990 - 1010 100% Sh: AA

1010 - 40 30% Ss: clr-wht, lt gry, fg, sbang, msrt, uncons, calc, fair por, w/carb incl in part
70% Sh: AA

40 - 70 100% Sh: m-dk gry, gry-grn, frm, blky-plty, slty

1070 - 1100 100% Sh: AA

1100 - 30 20% Ss: clr-lt gry, fg, sbrnd, msrt, uncons, calc, poor por w/carb incl
80% Sh: AA

30 - 60 20% Ss: AA, sl cly fld
80% Sh: m-dk gry, gry-grn, frm, blky-plty, slty

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

1190 - 1220 20% Ss: clr-lt gry, fg, sbrnd, msrt, uncons, calc, fair por, w/occ carb incl
80% Sh: AA

1220 - 50 10% Ss: AA
90% Sh: m-dk gry, blk, frm, blky-plty, slty, vy carb in p

1250 - 1300 10% Ss: AA
90% Sh: AA

1300 - 30 70% Ss: wht, s & p, lt gry, fg, sbrnd, msrt,uncons, calc, fair por w/carb incl
30% Sh: m-dk gry, frm, blky-plty, slty

1330 - 60 40% Ss: AA
60% Sh: AA

1360 - 1400 80% Ss: AA
20% Sh: AA

1400 - 10 30% Ss: clr-wht, lt gry, s & p, fg, sbang-sbrnd, msrt, uncons, calc, fair por, w/carb incl
70% Sh: gry, gry-grn, blk, frm, blky, slty, carb i p

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

20 - 30 N.S.

30 - 40 50% Ss: clr-wht, s & p, fg, sbang, msrt, uncons, calc, fair por, w/carb incl
50% Sh: gry, gry-grn, frm, blky, slty
Tr. Coal: AA

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

50 - 60 N.S.

60 - 70 20% Ss: AA, bcmg more gry
80% Sh: AA

70 - 90 40% Ss: clr-wht, lt gry, fg, sbrnd, uncons, calc, fair por w/carb incl
60% Sh: m gry, gry-grn, frm, blky-slty, carb

1490 - 1500 70% Ss: AA
30% Sh: AA

1500 - 10 80% Ss: clr-wht, gry, s & p, fg, sbrnd, uncons, calc, sl cly fld, fair por w/carb incl
20% Sh: gry-grn, frm, blky, slty

10 - 20 90% Ss: AA
10% Sh: AA
Tr. Chert: clr, cg, sbrnd

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

30 - 40 60% Ss: clr-wht, s & p, fg, sbrnd, calc, fair por w/carb incl
40% Sh: m-dk gry, gry-grn, frm, blky, slty

40 - 50 20% Ss: AA
80% Sh: AA

50 - 70 20% Ss: AA, more clayey
70% Sh: AA, more carb
10% Coal: blk, blky, vit

1570 - 80 30% Ss: wht-lt gry, s & p, fg, sbrnd, uncons, calc, fair por w/carb incl
70% Sh: m-dk gry, gry-grn, frm, blky, slty

1580 - 1600 10% Ss: AA
90% Sh: AA

1600 - 20 40% Ss: wht-gry, s & p, fg, sbrnd, msrt, uncons, calc, w/ carb incl
60% Sh: m-dk gry, frm, blky-plty, slty

20 - 30 10% Ss: AA
90% Sh: AA

30 - 50 30% Ss: clr-wht, s & p, lt gry, fg, msrt, uncons, fair por w/carb incl
70% Sh: gry-grn, frm, blky, slty

50 - 60 20% Ss: AA
80% Sh: AA

60 - 70 10% Ss: clr-wht, lt gry, s & p, fg, sbrnd, msrt,uncons, fair por, calc, w/carb incl
90% Sh: m-gry, gry-grn, frm, blky, slty
Tr. Chert: clr, cg, sbrnd

70 - 80 10% Ss: AA
90% Sh: AA

80 - 90 90% Sh: AA
10% Chert: clr, cg, sbrnd

1690 - 1700 10% Ss: wht, s & p, lt gry, fg, sbrnd, msrt, uncons, fair por, calc, w/carb incl
90% Sh: m-dk gry, gry-grn, frm, blky, slty, carb i p

1700 - 20 40% Ss: AA, brn
60% Sh: AA
Tr. Chert: clr, cg, sbrnd

20 - 30 20% Ss: wht-lt gry, brn, vfn-fn-g, sbrnd, msrt, uncons, poor-fair por, w/carb incl, sl cly fld
80% Sh: m-dk gry, frm, blky, slty, w/some gry-grn

30 - 40 10% Ss: AA
90% Sh: AA

40 - 50 30% Ss: AA
70% Sh: AA

50 - 60 40% Ss: wht-gry, s & p, fg, sbrnd, msrt, uncons, calc, fair por w/carb incl, cly fld i p
60% Sh: m-dk gry, gry-grn, frm, blky, slty

1760 - 70 50% Ss: AA
50% Sh: AA

70 - 80 90% Ss: pred s & p, wht, lt gry, fg, sbrnd, msrt, uncons, calc, fair por, w/carb incl, sl cly fld i p
10% Sh: AA

80 - 90 70% Ss: AA
30% Sh: m-dk gry, gry-grn, frm, blky, slty,w/tr. Chert

1790 - 1800 90% Ss: AA
10% Sh: AA

1800 - 05 90% Ss: AA
10% Sh: AA