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.

5. LEASE DESIGNATION AND SERIAL NO.: SF-078828-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: Gallegos Canyon Unit

8. FARM OR LEASE NAME:

9. WELL NO.: 318

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

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 28-T28N-R12W

12. COUNTY OR PARISH: San Juan

13. STATE: New Mexico

RECEIVED APR 29 1981 OIL CON. COM. DIST. 3

RECEIVED APR 27 1981 U.S. GEOLOGICAL SURVEY FARMINGTON, N.M.

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 1,310' FSL & 1,430' FEL
At top prod. interval reported below
At total depth

14. PERMIT NO. / DATE ISSUED

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
2-09-81	2-11-81	4-08-81	G.L. 5,688'; K.B. 5,699'	----------

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
1,635' KB	1,580' K.B.	NA	→	0-1,635'	----------

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
Pictured Cliffs 1,397'-1,419' K.B.

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN
Induction Spherically Focused Log-Compensated Neutron, Formation 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
7"	23#	124' KB	9-7/8"	100 sx "B" w/2% $CaCl_2$ + 1/4# Flocele/sx	-0-
4-1/2"	10.5#	1,619' KB	6-1/4"	275 sx 50-50 Pozmix w/ 1/4# Flocele/sx	-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"	1,418' KB	None

31. PERFORATION RECORD (*Interval, size and number*)
1,397'-1,405'
1,410'-1,413'
1,415'-1,419'
1 JSPF 18 holes

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1,397'-1,419'	Broke down w/5000 gal 7½% acid w/additives + 25 ball sealers. Frac'd w/12,000 gal gelled pad + 25,000 70% Quality Foam w/42,500# 10-20 sand.

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
4-8-81	24	1/8"		0	40	37	NA

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
0-pumping wtr	100		0	40	37	NA

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

TEST WITNESSED BY: T.C.

ACCEPTED FOR RECORD
APR 28 1981
FARMINGTON DISTRICT
BY

35. LIST OF ATTACHMENTS
SAMPLE DESCRIPTION ATTACHED

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

SIGNED Robert C. Thomas TITLE Production Engineer - RMD DATE 4-16-81

*(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.
			Sample Description Attached

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
LOG TOPS		
Ojo Alamo	85'	
Kirkland	239'	
Fruitland	1,071'	
Pictured Cliffs	1,390'	
Lewis	1,562'	
T.D. Logger	1,633'	
T.D. Driller	1,635'	

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

GPO 680-378

SAMPLE DESCRIPTION

150 - 60 90% Ss: clr, yel, m-cg, sbrnd-sbang, lse, sl calc, por, N-S
10% Sh: lt-dk gry, blky, sft
Tr. Pyrite

60 - 70 90% Ss: AA, N-S
10% Sh: AA, sme cherty & hard

70 - 80 90% Ss: AA, also sme orange, sme glauc, N-S
10% Sh: AA
Tr. Pyrite

80 - 90 80% Ss: clr, yel, wht, f-vy cg, sbrnd-sbang, mse lse, sl calc, sme vy cly fld, sl glauc, mst hard, mst por, N-S
20% Sh: lt-dk gry-blk, blky-plty, sme cherty & hard, sme sf
Tr. Clystn: wht, blky, vy sft, swlg

190 - 200 80% Ss: AA
20% Sh: AA, w/sme cly incls.

200 - 10 90% Ss: AA
10% Sh: AA
Tr. Pyrite

10 - 20 90% Ss: AA
10% Sh: AA, also sme lt grn, bent.
Tr. Calcite: clr, vy crs-xln, sbang, vy calc

20 - 50 90% Ss: AA, sme vy sl carb, N-S
10% Sh: AA
Tr. Pyrite

50 - 60 80% Ss: clr, lt yel, m-vy cg, sbrnd-sbang, lse, mafic incls porous, N-S
10% Sh: lt-dk gry-grn, blky, sme bent, mst sft
10% Pyrite
Tr. Chert: org, vy cg, sbang, vy hard

60 - 70 80% Ss: AA, also few wht, vy cly fld, sft, sl calc, N-S
20% Sh: AA, also reddsh brn

70 - 80 80% Ss: AA, N-S
10% Sh: AA
10% Pyrite

80 - 90 70% Ss: AA, N-S
10% Sh: AA
20% Pyrite

290 - 300 80% Ss: AA, N-S
20% Sh: AA

300 - 10 80% Ss: AA, N-S
10% Sh: rd-brn, grn, blky, sme bent, sme cly incls, mst hrd
10% Pyrite

10 - 20 80% Ss: AA, N-S
10% Sh: AA

20 - 40 90% Ss: AA, N-S
10% Sh: AA

40 - 50 80% Ss: AA, but all lse, N-S
10% Sh: AA
10% Pyrite

50 - 60 100% Ss: clr, yel, wht, m-vy cg, sbang, vy few mafic incls, all lse, good por, hard, N-S
Tr. Chert: rd-brn, vy cg, sbang, lse

60 - 70 90% Ss: AA, w/few vy cly fld, hard, sl calc
10% Sh: lt gry, blky, waxy, frm, sme cherty & vy hard
Tr. Pyrite: very magnetic

70 - 80 70% Ss: AA
10% Sh: AA, also sme grn, bent, sl sft
20% Pyrite: AA

380 - 90	60% Ss: AA, N-S 20% Sh: lt gry-dk gry, blky, sl carb, frm 20% Pyrite
390 - 400	40% Ss: clr, brn, yel, m-vy cg, sbang-sbrnd, mst clean or lse, sme cly fld, most hard, sme lse, sme vy por N-S 50% Sh: AA 10% Chert: AA Tr. Calcite
400 - 10	40% Ss: clr, grn, wht, m-cg, sbrnd, sme lse, mst cly fld, sme glauc, sme bent, sme mafic incls, sme good por, N-S 60% Sh: AA
10 - 20	50% Ss: AA, N-S 50% Sh: AA, sme grn & bent. Tr. Pyrite
20 - 30	30% Ss: AA, N-S 70% Sh: AA, sme sl slty
30 - 40	10% Ss: AA, N-S 90% Sh: dk gry-dk grn - lt gry, blky, sme cherty, sme glauc, sme waxy, mst firm
40 - 50	10% Ss: clr, cg, sbrnd, lse 90% Sh: AA
50 - 60	20% Ss: wht, clr, m-cg, sbrnd, sme lse, sme vy cly fld, mafic incls, mst hard, good por, N-S 80% Sh: dk gry-dk grn-lt gry, blky, carb, most bent, sme hard, most frm
60 - 70	20% Ss: AA, sme pyritic 80% Sh: AA Tr. Pyrite
70 - 80	30% Ss: AA 70% Sh: AA
80 - 90	20% Ss: clr, yel, cg, sbrnd-sbang, all lse, good por, N-S 80% Sh: AA Tr. Chert: org, vy cg, sbang, transl, lse
490 - 500	20% Ss: AA, also sme mg, vy cly fld, glauc, sft, sme pyriti 80% Sh: AA, sme swlg
500 - 10	20% Ss: AA, sme shly & swlg 80% Sh: lt gry-dk gry, brn, blky, cly incls, sme slty, mst firm, sme swlg
10 - 20	20% Ss: AA 80% Sh: AA, sme pyritic ctngs Tr. Pyrite
20 - 30	10% Ss: wht, m-cg, sbrnd-sbang, vy cly fld, argilaceous, sft, tite, N-S 90% Sh: AA
30 - 40	10% Ss: AA, w/sme mafic incls 80% Sh: gry, grn, brn, blky, slty, chrty, sme bent, frm sme hard 10% Pyrite
40 - 60	20% Ss: AA, sme clr, cg, lse 80% Sh: AA
60 - 70	20% Ss: wht, f-cg, sbrnd, vy cly fld, tite, N-S 80% Sh: AA
70 - 90	10% Ss: AA 90% Sh: AA
590 - 600	10% Ss: wht, lt gry, f-cg, sbrnd, sme shly, sme vy cly fld, sl glauc, tite, N-S 90% Sh: lt gry-dk gry, blky, sme slty, sme waxy, frm

600 - 20 30% Ss: clr, wht, vfn-cg, sbrnd-sbang, vy sl to vy cly fld, hard, poss sl por, N-S, sme lse, sme shly
70% Sh: AA

20 - 30 40% Ss: AA
60% Sh: AA, sme w/cly incls

30 - 40 30% Ss: AA
70% Sh: lt gry -dk gry-red-brn, blky, sme slty, vy sl carb, sme sl swlg, frm-sft

40 - 50 10% Ss: clr, cg, sbang, transl, lse, good por, N-S
90% Sh: AA

50 - 60 20% Ss: wht, lt gry, clr, vfn-cg, sbrnd, sme vy cly fld, sme lse, sl carb, mst soft, tite, N-S
80% Sh: AA, sme sndy

60 - 70 50% Ss: AA, sme shly
50% Sh: AA
Tr. Chert

70 - 80 50% Ss: AA, mst lse
50% Sh: AA, sme w/many cly incls

680 - 700 40% Ss: AA
60% Sh: AA

700 - 10 30% Ss: wht, yel, clr, vfn-cg, sbrnd, vy cly fld, few lse, sl carb, vy sl ark, sft, tite, N-S
70% Sh: gry, brn, blky, vy sl carb, cly incls, frm

10 - 30 60% Ss: AA, sme shly
40% Sh: AA, sme vy slty
Tr. Pyrite

30 - 40 40% Ss: clr, yel, wht, m-cg, sbrnd-sbang, mse lse & transl, sme vy cly fld, mst sft, tite, N-S
60% Sh: lt - dk gry, brn, blky-plty, sl pyritic, frm

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

50 - 80 10% Ss: AA, but most vy cly fld
90% Sh: AA, sme waxy
Tr. Clystn: wht, plty, carb, vy sft, swlg

780 - 800 10% Ss: AA
90% Sh: dk gry, lt gry, dk brn, sme waxy, sme slty, frm

800 - 10 20% Ss: AA
80% Sh: lt-dk gry, brn, blky, sme vy slty, sme cherty & hard, frm

10 - 20 20% Ss: wht, lt gry, vfn-cg, sbrnd, most vy cly fld, sme ls sl carb, calc, hard, tite, N-S
80% Sh: AA, sme calc
Tr. Calcite: wht, vy crs-xln, sbang, transl, lse

20 - 30 10% Ss: AA, sme glauc
80% Sh: AA, sme blk
10% Pyrite

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

40 - 50 50% Ss: lt gry, wht, f-cg, sbrnd-sbang, most cly fld, sl carb, hard-sft, tite, N-S
50% Sh: AA

50 - 60 60% Ss: AA
40% Sh: AA
Tr. Pyrite

60 - 70 40% Ss: AA
60% Sh: AA

70 - 90 60% Ss: clr, gry, f-vy cg, sbrnd, mst lse, sme cly fld, sl glauc, hard, poss sl por, N-S
40% Sh: AA
Tr. Pyrite

890 - 900	50% Ss: AA, sme pyritic
	50% Sh: dk gry, lt gry, red-brn, blky, sme waxy, frm
	Tr. Pyrite
900 - 20	30% Ss: wht, m-cg, sbrnd, sl cly fld, glauc, calc, sl carb, sl por, N-S
	70% Sh: AA, w/many cly incls
20 - 40	20% Ss: AA, w/sme lse, clr, vy cg, transl
	80% Sh: AA
40 - 50	20% Ss: clr, wht, f-cg, sbrnd-sbang, vy sl to vy cly fld to lse, sme calc, sl carb, mst tite, N-S
	80% Sh: AA
50 - 70	20% Ss: AA
	80% Sh: lt-dk gry, brn, blky, cly incls, sl carb, sme swlg, sft-frm
70 - 90	20% Ss: AA, w/sme shly, swlg
	80% Sh: AA, sme blk
990 - 1000	10% Ss: AA
	90% Sh: AA
	Tr. Pyrite
1000 - 20	10% Ss: clr, vy cg, sbrnd, transl, lse, por, N-S
	90% Sh: lt gry-dk gry, blky, mst waxy, mst sft
20 - 30	N.S.
30 - 40	10% Ss: AA
	90% Sh: AA
40 - 50	10% Ss: wht, clr, m-vy cg, sbrnd, most sl cly fld, sme lse, sl carb, calc, poss sl por, N-S
	90% Sh: AA
50 - 60	10% Ss: AA
	90% Sh: AA, also sme cherty & hard, calc
	Tr. Calcite: buff, crs-xln, sbang, transl, lse
60 - 80	10% Ss: AA
	90% Sh: AA
	Tr. Calcite: AA
1080 - 1100	20% Ss: AA
	70% Sh: AA
	10% Ls: brn, buff, microxln, dense, calc, pl. gold fluor
1100 - 10	10% Ss: wht, lt gry, f-cg, sbrnd, most vy cly fld to shly, sme lse, calc, sft, tite, N-S
	80% Sh: AA
	10% Ls: AA
	Tr. Pyrite
10 - 20	20% Ss: AA
	50% Sh: lt gry-dk gry, blky, sl carb, sme cly incls, mst sf
	20% Ls: AA
	10% Pyrite
20 - 30	20% Ss: AA, sme sl ark
	80% Sh: AA
	Tr. Coal: blk, vit, blky, sl sft
30 - 40	50% Ss: clr, wht, lt gry, m-vy cg, sbrnd, mst lse, sme sl cly fld, sl ark, sl carb, hard, poss sl por, N-S
	40% Sh: AA, sme carb lams.
	10% Ls: AA, vy pl. gold fluor
40 - 50	30% Ss: AA
	70% Sh: AA
	Tr. Calcite and Tr. Coal: AA

1150 - 70 50% Ss: wht, f-mg, sbrnd, cly fld, sl carb, vy calc, vy sl ark, fri, sl por, N-S
50% Sh: AA
Tr. Coal: AA

70 - 80 50% Ss: AA
50% Sh: AA
Tr. Pyrite

80 - 90 40% Ss: AA
40% Sh: AA
10% Coal: AA, sme w/cly incls
10% Pyrite

1190 - 1200 30% Ss: AA
60% Sh: AA
10% Calcite: clr, buff, brn, crs-xln, transl, lse, vy calc

1200 - 20 30% Ss: wht, clr, f-vy cg, sme lse, most cly fld, sl ark, vy sl carb, vy calc, frm, sl por, N-S
50% Sh: gry, grn, brn, blky, sme bent, pyrite ctngs
10% Ls: AA
10% Coal: AA
Tr. Pyrite and Marcasite

20 - 30 40% Ss: AA
40% Sh: AA
10% Ls: AA
10% Pyrite

30 - 40 20% Ss: AA
70% Sh: AA
10% Coal: AA

40 - 50 30% Ss: AA, sme glauc
50% Sh: AA
10% Coal: AA
10% Pyrite

50 - 60 40% Ss: wht, gry, f-vy cg, sbrnd, mst cly fld, sme lse, vy calc, carb, sl ark & glauc, sft, tite, N-S
50% Sh: gry, grn, blky, sme bent, sme cherty & hard, mst fr
10% Coal: blk, vit, blky, sl sft, cly i ncls, pyrite ctngs

60 - 90 30% Ss: AA
50% Sh: AA
20% Coal: AA

1290 - 1300 10% Ss: AA
70% Sh: AA, w/sme carb lams
20% Coal: AA
Tr. Pyrite

1300 - 10 20% Ss: wht, f-mg, sbrnd, vy cly fld, sl ark, sl carb, vy calc, sft, tite, N-S
70% Sh: gry, brn, carb, blky, frm, sme sndy
10% Coal: blk, vit, blky, hard

10 - 20 20% Ss: AA, sme vy sl glauc
70% Sh: AA
10% Coal: AA
Tr. Pyrite

20 - 30 10% Ss: AA
90% Sh: AA
Tr. Coal: AA

30 - 40 10% Ss: wht, fg, sbrnd, wl srtd, vy cly fld, carb, ark, glauc, vy calc, hard, tite, N-S
90% Sh: AA

1340 - 60 40% Ss: AA, also gry
60% Sh: AA, w/cly incls, sme lt brn

60 - 70 30% Ss: AA
70% Sh: lt - dk gry, blk-grn, blky, sl carb, sme waxy, frm, sme bent.

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

1390 - 1400 100% Sh: AA
Tr. Ss: AA and Tr. Calcite: clr, vy crs-xln, transl, lse, sbang

1400 - 10 10% Ss: AA
90% Sh: AA, sme cherty & hard
Tr. Coal: AA

10 - 20 40% Ss: AA
60% Sh: lt - dk gry, brn, blky, carb, sme sl slty, hard

20 - 30 30% Ss: AA
60% Sh: AA
10% Coal: AA

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

40 - 50 30% Ss: wht, brn, mg, sbrnd, vy cly fld, carb, glauc, ark, hrd, tite, N-S
50% Sh: AA
20% Coal: blk, earthy to vit, blky, pyritic ctngs, cly incl

50 - 60 70% Ss: AA
30% Sh: brn, gry, grn, blky, sme bent, carb incls and lams, cly incls, frm
Tr. Coal: AA

60 - 80 60% Ss: wht, buff, brn, m-cg, cly fld, sbrnd, ark, carb, vy calc, sme glauc, hard, poss sl por, N-S
30% Sh: AA
10% Coal: AA

80 - 90 40% Ss: AA, sme shly
50% Sh: AA
10% Coal: AA
Tr. Pyrite

1490 - 1500 60% Ss: AA
30% Sh: AA
10% Coal: AA

1500 - 20 50% Ss: AA
40% Sh: AA
10% Coal: AA

20 - 30 70% Ss: wht, mg, sbrnd, wl srtd, vy cly fld-shly, carb, ark sl glauc, most sft, tite, N-S
30% Sh: gry, grn, blky, sme bent, frm, sme waxy

30 - 40 70% Ss: AA
10% Sh: AA
20% Coal: AA

40 - 70 70% Ss: AA, N-S
20% Sh: AA
10% Coal: AA

70 - 80 60% Ss: AA, N-S
40% Sh: AA

80 - 90 40% Ss: AA, N-S
40% Sh: AA
20% Coal: AA

1590 - 1610	50% Ss: wht, f-mg, sbrnd, vy cly fld, sl ark, carb, vy calc glauc, hard, poss sl por, N-S
	40% Sh: lt gry, dk brn, blky, sme bent, vy sl glauc, cly incls, frm
	10% Coal: blk, vit, blky, hard
10 - 20	60% Ss: AA
	30% Sh: AA, sme sl pyritic
	10% Coal: AA
20 - 30	LCM
	50% Ss: wht, gry, vfn-g, sbrnd, vy cly fld, sme shly, carb, sl ark, vy calc, sme sft, mst hard, tite, N-S
	40% Sh: AA, sme also plty
	10% Coal: AA
30 - 40	20% Ss: AA, N-S
	80% Sh: AA
40 - 50	AA, N-S
	Tr. Coal: AA

TD 1650'