

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 _____		5. LEASE DESIGNATION AND SERIAL NO. SF-078109	
b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Gallegos Canyon Unit	
2. NAME OF OPERATOR Energy Reserves Group, Inc.		7. UNIT AGREEMENT NAME S. FARM OR LEASE NAME	
3. ADDRESS OF OPERATOR P.O. Box 3280 - Casper, Wyoming		9. WELL NO. 285	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 980' FSL, 920' FWL (SW SW) At top prod. interval reported below At total depth		10. FIELD AND POOL, OR WILDCAT Kutz, Pictured Cliffs, West	
RECEIVED OCT 10 1979 U. S. GEOLOGICAL SURVEY FARMINGTON, N. M.		11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 31-T29-R12W	
		12. COUNTY OR PARISH San Juan	
14. PERMIT NO. _____ DATE ISSUED _____		13. STATE New Mexico	
15. DATE SPUDDED 9-4-79	16. DATE T.D. REACHED 9-7-79	17. DATE COMPL. (Ready to prod.) 10-13-79	18. ELEVATIONS (DF, REB, RT, GR, ETC.)* GRD 5522' KB 5532'
20. TOTAL DEPTH, MD & TVD 1700'	21. PLUG, BACK T.D., MD & TVD 1630'	22. IF MULTIPLE COMPL., HOW MANY* -----	23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS O-TD
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 1378'-83'; 1392'-96'; 1402'-07'			25. WAS DIRECTIONAL SURVEY MADE No
26. TYPE ELECTRIC AND OTHER LOGS RUN Dual Induction - SFC; 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
8-5/8"	36#	118' KB	12-1/4"
4-1/2"	10.79#	1673' KB	6-3/4"
		CEMENTING RECORD	
		100 sks "B" + 2% CaCl ₂	
		50 sks 65-35 Poz - Tail	
		In w/200 sks "B" *	
		-0-	
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
	None		
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2-3/8"	1421'		
31. PERFORATION RECORD (Interval, size and number)			
1378'-83' w/4 JSPF			
1392'-96' w/1 JSPF			
1402'-07' w/1 JSPF			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
1392'-1407'		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
10-10-79	24	3/4"	→
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO
170 psi	310 psi	→	-0- 331 268 NA
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)		TEST WITNESSED BY	
Vented during test		T.C. Durham	
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			
SIGNED <u>Heary B. Barner</u>		TITLE <u>Dist. Production Engineer-RMD</u> DATE <u>10-15-79</u>	

*(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:				38. GEOLOGIC MARKERS	
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				TOP	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH
			SEE ATTACHED		LOG TOPS
			* 4-1/2" csg cement'd to surface	Nacimientito	Surface
				Kirtland	72'
				Fruitland	1,072'
				Pictured Cliffs	1,374'
				Lewis	1,582'
				TD Driller	1,700'
				Logger	1,713'
					(Sample top)

SAMPLE DESCRIPTION

120 - 40	40% Ss: clr-wht, m-crs-g, sbrnd, frosted, clay fld, shaly, lse in part, firm in part, sl porous to porous, <u>N-S</u> 50% Sh: gry, firm, silty 10% Chert: yel brn, vy crs-g, sbang-ang
40 - 50	70% Sh: gry, firm, silty 30% Chert: yel brn, crs-g, angular
50 - 60	10% Ss: clr, m-g, sbrnd, lse, cherty, porous, <u>N-S</u> 90% Sh: AA
60 - 80	20% Ss: AA 80% Sh: AA
80 - 200	10% Ss: AA 90% Sh: AA
200 - 10	100% Sh: AA
10 - 20	30% Ss: lt gry, fn-g, sbrnd, clay fld, shaly, soft, sl porous, <u>N-S</u> 70% Sh: gry, firm, silty, sl carb.
20 - 30	20% Ss: lt gry-clr, fn-m-g, sbrnd, lse, porous, <u>N-S</u> 80% Sh: AA
30 - 40	20% Ss: lt gry-wht, fn-g, sbrnd, clay fld in part, soft, porous, <u>N-S</u> 80% Sh: gry-drk gry, firm, silty
40 - 50	10% Ss: lt gry, fn-g, sbrnd, clean, friable, porous, <u>N-S</u> 90% Sh: AA
50 - 80	100% Sh: gry, firm-soft, some sl clayey, silty and sandy in part
80 - 90	10% Ss: lt gry-wht, fn-g, sbrnd, vy clay filled, friable, poss. sl. porous, <u>N-S</u> 90% Sh: AA
90 - 300	100% Sh: gry-drk gry, firm, silty, w/some imbd. qtz. grains and chert Tr. yel brn chert & crs., rndd. qtz grains
300 - 20	100% Sh: AA
20 - 30	30% Ss: lt gry-wht, vfn-fn-g, sbrnd, clay fld, shaly, hard, tite, <u>N-S</u> 70% Sh: gry, firm, silty in part
30 - 40	50% Ss: AA 50% Sh: AA

340 - 50	50% Ss: lt gry-wht, m-g, sbang, mod clay fill, firm, mod. porosity, <u>N-S</u> 50% Sh: AA
50 - 70	AA, w/sl. decrease in porosity
70 - 80	30% Ss: lt gry, fn-g, sbrnd, sl clay fld, friable, porous, <u>N-S</u> 70% Sh: AA
80 - 90	50% Ss: lt gry-wht, fn-g, sbrnd, vy clay fld, hard, tite, <u>N-S</u> 50% Sh: lt gry, firm, silty
90 - 400	30% Ss: lt gry, fn-g, sbrnd, mod clay fill, firm, fair porosity, <u>N-S</u> 70% Sh: gry-drk gry, firm, silty and sandy in part
400 - 40	100% Sh: AA
40 - 50	No Sample
50 - 70	100% Sh: gry-drk gry, firm, silty and sandy in part
70 - 80	20% Ss: gry-wht, fn-g, sbang, mod. clay fill, sl shaly, friable, fair porosity, <u>N-S</u> 80% Sh: AA
80 - 90	100% Sh: gry, firm, silty
90 - 500	40% Ss: gry, fn-g, sbrnd, hvy clay fill, vy shaly, hard, tite, <u>N-S</u> 60% Sh: AA
500 - 10	20% Ss: AA 80% Sh: AA
10 - 20	10% Ss: AA 90% Sh: AA
20 - 30	20% Ss: AA 80% Sh: AA
30 - 40	30% Ss: gry, vfn-g, sbrnd, vy clay fld, sl shaly, friable, sl porous, <u>N-S</u> 70% Sh: AA
540 - 680	No Samples
680 - 90	90% Ss: lt gry-wht, fn-g, sbrnd, mod clay fill, pyritic in part, hard, sl porous, <u>N-S</u> 10% Chert: lt gry, translucent, crs-g, sbrnd.
90 - 700	40% Ss: AA 30% Sh: gry, firm, silty 30% Chert: AA

700 - 10	20% Ss: AA 50% Sh: AA 30% Chert: AA
10 - 20	70% Sh: AA 30% Chert: AA
20 - 30	20% Ss: gry, fn-g, sbrnd, mod clay fill, hard, sl porous, <u>N-S</u> 80% Sh: AA
30 - 50	50% Ss: AA 40% Sh: AA 10% Chert: lt gry-yel, translucent, crs-g
50 - 60	60% Ss: AA 30% Sh: AA 10% Chert: AA
60 - 80	20% Ss: AA 40% Sh: AA 40% Chert: AA
80 - 90	40% Ss: AA 60% Sh: AA
90 - 800	60% Ss: AA 40% Sh: AA
800 - 20	30% Ss: wht, vfn-g, sbrnd, mod-hvy clay fill, sl porous, <u>N-S</u> 60% Sh: gry, <u>soft</u> , silty in part 10% Chert: clr-yel brn, vy crs-g, sbrnd
20 - 30	20% Ss: gry-wht, fn-g, sbrnd, mod clay fill, sl porous, <u>N-S</u> 50% Sh: gry, <u>firm</u> , silty in part 30% Chert: lt gry, sbrnd, vy crs-g
30 - 40	30% Ss: AA 60% Sh: AA 10% Chert: AA
40 - 50	30% Ss: AA 50% Sh: lt gry, firm, silty in part, carb. in part 20% Chert: AA
50 - 70	30% Ss: lt gry-wht, vfn-fn-g, sbrnd, vy clay fld, hard, w/gry shale incl. & mica incl. 40% Sh: lt gry, firm, silty in part 30% Chert: lt gry-yel brn, crs-g, sbrnd-sbang
70 - 80	10% Ss: AA 70% Sh: AA 20% Chert: AA

880 - 90	20% Ss: AA 70% Sh: AA 10% Chert: AA
90 - 900	10% Ss: AA 80% Sh: AA 10% Chert: AA
900 - 10	90% Sh: gry, firm, silty in part 10% Chert: lt gry (translucent) - yel (opaque), crs-g, sbrnd-rndd.
10 - 20	10% Ss: lt gry, vfn-g, sbrnd, shaly, clay fld, firm, tite, <u>N-S</u> 70% Sh: AA 20% Chert: AA
20 - 30	20% Ss: AA 60% Sh: AA 20% Chert: AA
30 - 40	10% Ss: AA 80% Sh: AA 10% Chert: AA
40 - 60	20% Ss: AA 80% Sh: AA Tr. Chert: AA
60 - 70	10% Ss: lt gry-wht, fn-g, sbang, w/drk gry shale incl., hard, tite, <u>N-S</u> 70% Sh: lt gry, firm, silty 20% Chert: lt gry, m-crs-g, sbrnd, translucent
70 - 80	20% Ss: lt gry-wht, vfn-g, sbrnd, clay filled, hard, tite, <u>N-S</u> 10% Sltstn: lt gry, hard, clay filled 60% Sh: AA 10% Chert: lt gry, fn-m-g, sbrnd, translucent
80 - 90	90% Sh: lt gry, firm 10% Chert: AA
90 - 1000	20% Ss: lt gry-clr, vfn-g, sbrnd, shaly, w/some coal incl., hard, clay filled, tite, <u>N-S</u> 60% Sh: AA 20% Chert: AA
1000 - 10	50% Ss: AA 40% Sh: AA 10% Chert: AA
10 - 20	70% Sh: AA 30% Chert: AA

1020 - 40	80% Sh: lt gry, firm, sandy 20% Chert: AA
40 - 60	10% Ss: lt gry, fn-g, sbrnd, mod clay fill, sl porous, <u>N-S</u> 80% Sh: gry, sandy, sl carb. 10% Chert: lt gry, translucent, m-g, sbrnd.
60 - 70	20% Ss: lt gry-wht, fn-m-g, sbang, vy clay filled, hard, tite, <u>N-S</u> 60% Sh: AA 20% Chert: AA
70 - 80	10% Ss: AA 70% Sh: lt gry-drk gry, firm, laminated 20% Chert: yel-gry, translucent, crs-g, sbang.
80 - 90	70% Sh: AA 30% Chert: AA
90 - 1100	20% Ss: lt gry-wht, fn-g, sbang, vy clay filled, hard, tite, <u>N-S</u> 60% Sh: AA 20% Chert: AA
1100 - 10	10% Ss: AA 80% Sh: lt gry, firm, sandy 10% Chert: AA
10 - 20	60% Sh: AA 40% Chert: AA
20 - 30	10% Ss: lt gry-wht, vfn-g, sbrnd, clay fld, hard, tite, <u>N-S</u> 90% Sh: AA
30 - 40	90% Sh: lt gry, firm, silty 10% Chert: AA
40 - 50	10% Ss: lt brn, vfn-g, sbrnd, sl clay fld, firm, sl porous, <u>N-S</u> 80% Sh: AA 10% Coal: blk, vitreous
50 - 60	100% Sh: lt gry-gry, firm Tr. Chert: lt gry, crs-g, sbang, translucent
60 - 70	70% Sh: AA 30% Chert: AA
70 - 80	80% Sh: lt gry-gry, sandy, firm 20% Chert: AA
80 - 90	20% Ss: wht, fn-g, sbrnd, vy clay fld, hard, tite, <u>N-S</u> 70% Sh: AA 10% Chert: AA
90 - 1200	20% Ss: AA 60% Sh: lt gry, firm, silty, w/coal incl. 20% Chert: AA

1200 - 20	90% Ss: wht, vfn-g, sbrnd, vy clay fld, hard, tite, <u>N-S</u> 10% Sh: lt gry, firm, silty
20 - 30	10% Ss: AA 90% Sh: AA
30 - 40	50% Ss: wht, vfn-g, sbrnd, vy clay fld, hard, tite, <u>N-S</u> 50% Sh: AA
40 - 50	20% Ss: AA 80% Sh: AA
50 - 60	60% Ss: AA 30% Sh: AA 10% Chert: lt gry-brn, translucent, crs-g, sbang.
60 - 70	40% Ss: AA 40% Sh: AA 20% Chert: AA
70 - 80	20% Ss: AA 80% Sh: AA
80 - 1300	50% Ss: AA 50% Sh: AA
1300 - 90	No Samples
90 - 1410	60% Ss: gry-wht, fn-g, sbrnd, hard, calc, sl porous, shaly, <u>N-S</u> 40% Sh: AA
10 - 30	20% Ss: AA 80% Sh: AA
30 - 50	60% Ss: AA 40% Sh: AA
50 - 60	30% Ss: AA 70% Sh: AA
1460 - 1620	No Samples
1620 - 40	20% Ss: wht, vfn-g, sbrnd, clay fld, calc, tite, <u>N-S</u> 30% Sltstn: lt gry, hard, clay fld 50% Sh: lt gry, firm, silty
40 - 50	No Sample
50 - 70	100% Sh: gry, sandy, hard
70 - 80	No Sample

1680 - 90 20% Ss: wht, vfn-g, sbrnd, clay fld, sl calc, tite, N-S
 60% Sh: gry, firm, silty
 20% Chert: lt gry, translucent, crs-g, sbang.

90 - 1710 No Sample*

TD - 1710'