

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.

6. LEASE DESIGNATION AND SERIAL NO.

SF-078106

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Gallegos Canyon Unit

8. FARM OR LEASE NAME

9. WELL NO.

277

10. FIELD AND POOL, OR WILDCAT

Kutz Pictured Cliffs, West

11. SEC. T. R. M., OR BLOCK AND SURVEY OR AREA

Section 15, T28N-R12W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

## 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 1770' FNL, 820' FWL (SW NW)

At top prod. interval reported below

At total depth

## 14. PERMIT NO.

## DATE ISSUED

## 15. DATE SPUDDED

8-11-79

## 16. DATE T.D. REACHED

8-16-79

## 17. DATE COMPL. (Ready to prod.)

9-19-79

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

Grd 5550' KB 5561'

## 19. ELEV. CASINGHEAD

## 20. TOTAL DEPTH, MD &amp; TVD

1640'

## 21. PLUG, BACK T.D., MD &amp; TVD

1574'

## 22. IF MULTIPLE COMPL., HOW MANY\*

## 23. INTERVALS DRILLED BY

## ROTARY TOOLS

0 - T.D.

## CABLE TOOLS

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

1392'-98', 1412'-18', 1422'-26'

## 25. WAS DIRECTIONAL SURVEY MADE

No

## 26. TYPE ELECTRIC AND OTHER LOGS RUN

Induction Electric; 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"	32#	134' KB	12 1/4"	90 sks 'B' + 2% CaCl <sub>2</sub> + 1/4#/sk cellophane	-0-
4 1/2"	11#	1638' KB	6 3/4"	75 sks 65-35 Poz-Tailin w/135 sks 'B' *	-0-

## 29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2 3/8"	1426'	None

## 31. PERFORATION RECORD (Interval, size and number)

1392'-98', w/4 JSPF

1412'-18'

1422'-26', w/1 JSPF

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
1412'-26'	25,000 gals 70% Quality Foam + 40,000# 10-20 sd @ 2PPG

## 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
9-14-79	24	3/4"	→	-0-	907	152	
FLOW. TURING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-APG. (CORR.)	
125#	SI 280#	→	-0-	907	152		

## 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

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

SIGNED

Hean B. Barnes

TITLE

Dist. Production Eng. RMD

DATE

September 24, 1979

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

N.M.C.C.

# 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 report 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 TEST, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			SEE ATTACHED		Log Tops	
			* 4 1/2" Csg cemented to surface	Macimiento	Surface	
				Ojo Alamo	136'	
				Kirtland	236'	
				Fruitland	1112'	
				Pictured Cliffs	1390'	
				Lewis	1598'	
				TD Driller	1640'	
				Logger	1653'	

SAMPLE DESCRIPTION

300 - 20	100% Ss: clr, m-crs-g, sbang, cherty, uncons., vy porous
20 - 40	90% Ss: clr, *vy crs-g, sbang, cherty, uncons., vy porous 10% Sh: gry, firm, w/blk, speckles
40 - 50	70% Ss: AA 30% Sh: AA
50 - 70	90% Ss: AA 10% Sh: AA, w/trace coal: blk, vitreous
70 - 400	80% Ss: AA 20% Sh: AA
400 - 50	100% Ss: clr, crs-g, sbang-sbrnd, cherty (red, gry, milky), uncons., vy porous
50 - 70	100% Ss: AA, sbang
70 - 90	100% Ss: clr, fn-gravel, sbang, vy cherty (yel, red, gry, milky), uncons., vy porous
90 - 550	90% Ss: clr, fn-g, sbang, cherty, uncons., vy porous 10% Sh: gry, firm, siliceous, silty in part
550 - 70	80% Ss: AA, w/some pyrite 20% Sh: AA
70 - 600	70% Ss: AA 30% Sh: AA
600 - 30	70% Ss: clr, vfn-g, sbang, uncons., porous 30% Sh: AA
30 - 50	100% Sh: lt gry-gry, firm, w/occ. imbd. vfn qtz grains
50 - 700	20% Ss: gry-clr, fn-m-g, sbang-ang, vy cherty (red, yel, blk), uncons., porous, <u>N-S</u> 80% Sh: lt gry-gry, firm, w/occ. imbd., vfn qtz. grains
700 - 50	100% Sh: gry, firm, vy sandy, w/trace translucent chert (gry-brn)
50 - 80	20% Ss: gry-wht, fn-g, sbrnd, hvy clay fill, poss sl porous, <u>N-S</u> 80% Sh: gry, firm, silty
80 - 800	30% Ss: lt gry-wht, fn-m-g, sbang-sbrnd, hvy clay fill, some gry shale incl., poss sl porous, <u>N-S</u> 70% Sh: AA

800 - 20	10% Ss: AA 90% Sh: AA
20 - 40	20% Ss: lt gry, fn-g, sbrnd, firm, lt clay fill, porous, <u>N-S</u> 80% Sh: gry, firm
40 - 70	60% Ss: lt gry-wht, fn-g, sbrnd, mod clay fill, w/some shale incl., porous, <u>N-S</u> 40% Sh: AA
70 - 80	30% Ss: AA 70% Sh: AA
80 - 90	10% Ss: AA 90% Sh: AA
90 - 900	100% Sh: AA
900 - 10	100% Sh: gry, firm, silty, pyritic in part, w/trace clr. chert
10 - 20	10% Ss: clr, fn-g, sbrnd, clay filled, poss sl porous, <u>N-S</u> 90% Sh: AA
20 - 30	100% Sh: gry, firm, silty & sandy
30 - 40	30% Ss: clr, fn-m-g, sbrnd, clean, porous, <u>N-S</u> 70% Sh: AA
40 - 50	100% Sh: gry, firm, sl carb in part
50 - 70	20% Ss: clr-gry, fn-g, sbrnd, clay filled, w/carb. shale incl., some pyrite, porous, <u>N-S</u> 80% Sh: AA Tr. Chert: clr, vy crs-g, sbrnd
70 - 80	40% Ss: AA, becoming more friable and porous, <u>N-S</u> 60% Sh: AA
80 - 90	20% Ss: AA 80% Sh: AA
90 - 1000	10% Ss: AA 90% Sh: AA
1000 - 10	20% Ss: AA 80% Sh: AA
10 - 30	10% Ss: clr, fn-g, sbrnd, arkosic, mod clay fill, firm, w/shale and carb frags. included, sl porous, <u>N-S</u> 90% Sh: gry, soft
30 - 40	100% Sh: AA

1040 - 50 10% Ss: clr, vfn-g, sbrnd, firm, mod clay fill, w/some shale & carb. frag. inclusions, poss sl porosity, N-S  
90% Sh: AA

50 - 70 30% Ss: lt gry, fn-g, sbrnd, vy arkosic, w/shale(gry) and blk. carb. frag. inclusions, firm, tite, N-S  
70% Sh: gry-drk gry, soft, carb. in part

70 - 90 100% Sh: AA

90 - 1110 100% Sh: gry-drk gry, soft, carb, clayey

1110 - 20 30% Ss: gry, vfn-g, sbrnd, soft, vy clay filled, tite, N-S  
70% Sh: lt gry, soft, sandy in part

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

50 - 60 30% Ss: AA  
50% Sh: AA  
20% Coal: blk, pyritic, shaly

60 - 70 10% Ss: AA  
70% Sh: AA  
20% Coal: AA

70 - 80 100% Sh: gry, firm, sandy

80 - 1200 50% Sh: gry, firm  
50% Coal: blk, shaly

1200 - 30 100% Sh: lt gry-gry, soft, clayey  
Tr. Coal: blk, shaly

30 - 50 70% Sh: AA  
30% Coal: AA

50 - 60 90% Sh: AA  
10% Coal: AA

60 - 80 70% Sh: AA  
10% Coal: AA  
20% Chert: yel, orange, clr, vy crs-g, sbang.

80 - 90 10% Ss: lt gry, m-g, sbrnd, mod clay fill, friable, porous, N-S  
80% Sh: AA  
10% Chert: AA

90 - 1300 50% Ss: AA  
40% Sh: AA  
10% Chert: AA

1300 - 10 30% Ss: lt gry, fn-g, sbrnd, vy clay filled, soft, tite, N-S  
70% Sh: AA

1310 - 20      30% Ss: AA, but sl. porous  
                  70% Sh: AA

20 - 30        60% Ss: AA  
                  40% Sh: AA

30 - 40        100% Coal: blk, vitreous

40 - 50        80% Ss: lt gry, fn-m-g, sbrnd, arkosic, calc, firm,  
                  sl porous, N-S  
                  20% Sh: AA

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

60 - 70        100% Coal: blk, vit.

70 - 80        80% Ss: lt gry-lt brn, fn-m-g, sbrnd, w/shale & mafic  
                  inclusions, vy calc, mod clay fill, sl porous,  
                  faint yel fluor w/vy wk cut  
                  10% Sh: lt gry, soft  
                  10% Coal: AA

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

90 - 1400      60% Ss: AA  
                  40% Sh: AA

1400 - 60      80% Ss: lt gry-clr-lt brn, m-g, sbrnd, arkosic, hvy clay  
                  fill, calc, some gry shale, pyrite & mafic incls.,  
                  sl porous, N-S  
                  20% Sh: gry, firm, sl calc.  
                  Tr. Coal: blk, vit.

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

80 - 1500      80% Ss: AA, becoming more porous  
                  20% Sh: AA

1500 - 20      60% Ss: becoming more clay filled and less porous  
                  40% Sh: AA

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

30 - 90        10% Ss: clr-gry, vfn-g, sbrnd, vy clay filled, sl calc,  
                  tite, N-S  
                  90% Sh: AA

90 - 1600      100% Sh: AA

1600 - 10      10% Ss: clr-gry, vfn-g, sbrnd, vy clay filled, sl calc,  
                  tite, N-S  
                  90% Sh: AA

1610 - 20 100% Sh: AA

20 - 30 10% Ss: clr, gry, vfn-g, sbrnd, vy clay filled, sl calc,  
tite, N-S  
90% Sh: AA

30 - 40 100% Sh: AA

TD 1640'