

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

WELL ☐ WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. ENVIR. ☐ 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

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

15. DATE SPUDDED

2-09-81

16. DATE T.D. REACHED

2-11-81

17. DATE COMPL. (Ready to prod.)

4-08-81

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

G.L. 5,688'; K.B. 5,699'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

1,635' KB

21. PLUG, BACK T.D., MD & TVD

1,580' K.B.

22. IF MULTIPLE COMPL., HOW MANY*

NA

23. INTERVALS DRILLED BY

0-1,635'

ROTARY TOOLS

CABLE TOOLS

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

NO

28. CASING RECORD* (Report all strings set in well)

CASINO 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)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					2-3/8"	1,418' KB	None

30. TUBING RECORD

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#

33.* PRODUCTION 10-20 sand.

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.)	
-pumping wtr	100	→	0	40	37	NA	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

VENTED DURING TEST

T.C. ACCEPTED FOR RECORD

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 Paul C. Shum TITLE Production Engineer - RMDDATE 4-16-81 APR 25 1981BY RB FAIRINGTON DISTRICT

*(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 rate 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.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			Sample Description Attached	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'

SAMPLE DESCRIPTION

150 - 60 90% Ss: clr, yel, m-cg, sbrnd-sbang, lse, sl calc, por, N-S
 10% Sh: lt-dk gry, blk, 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, blk-plty, sme cherty & hard, sme sf
 Tr. Clystn: wht, blk, 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, blk, 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, blk, sme bent, sme cly incls, mst hrd
 10% Pyrite

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

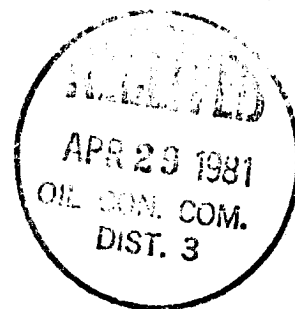
20 - 40 90% Ss: AA, N-S
 10% Sh: AA

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, blk, 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, blk, 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, blk, sme cherty, sme
 glauc, sme waxy, mst frm
 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, blk, 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, blk, cly incls, sme slty,
 mst frm, 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, blk, slty, cherty, 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, blk, 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

20 - 30 40% Ss: AA

30 - 40 30% Ss: AA
70% Sh: lt gry -dk gry-red-brn, blkly, 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 inclcs

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, blkly, vy sl carb, cly inclcs, 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, blkly-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, blkly, 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, blk, 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 inclcs

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, blk, cly inclcs, 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, blk, 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

1030 - 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, blk, sl carb, sme cly inclcs, mst sf
20% Ls: AA
10% Pyrite

20 - 30 20% Ss: AA, sme sl ark
80% Sh: AA
Tr. Coal: blk, vit, blk, 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, <u>N-S</u>
	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 inclcs
	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, <u>N-S</u>
	50% Sh: gry, grn, brn, blk, sme bent, <u>pyrite ctngs</u>
	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, <u>N-S</u>
	50% Sh: gry, grn, blk, sme bent, sme cherty & hard, mst fr
	10% Coal: blk, vit, blk, 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, <u>N-S</u>
	70% Sh: gry, brn, carb, blk, frm, sme sndy
	10% Coal: blk, vit, blk, 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 srted, vy cly fld, carb, ark, glauc, vy calc, hard, tite, <u>N-S</u>
	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, blk, sl carb, sme waxy, frm,
 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, blk, 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, blk, pyritic ctngs, cly incl
 50 - 60 70% Ss: AA
 30% Sh: brn, gry, grn, blk, 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 srted, vy cly fld-shly, carb, ark,
 sl glauc, most sft, tite, N-S
 30% Sh: gry, grn, blk, 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, blk, sme bent, vy sl glauc, cly
incls, frm
10% Coal: blk, vit, blk, 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'