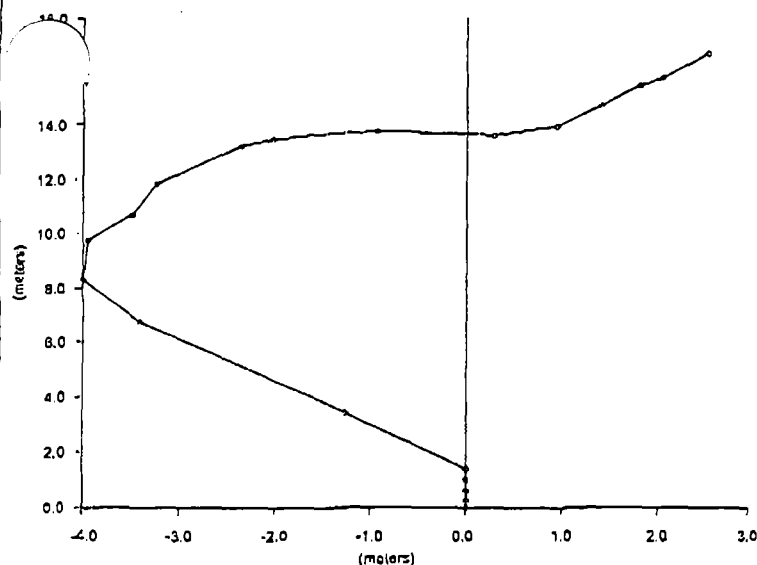


**Direction Survey
&
Geological Report**

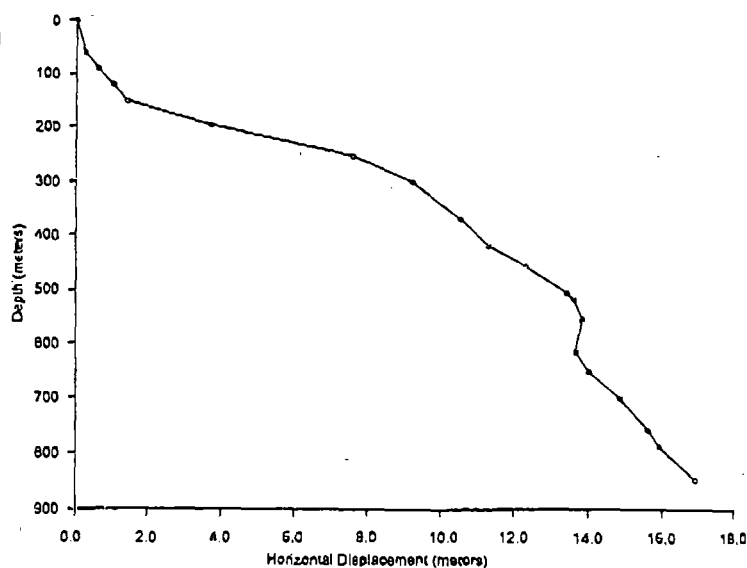
Well Name

AEC (WEST) REN CARCAJOU D-07

Plan View



Cross-section



Depth	Inclination	Corrected Direction	TVD	Interval	Dogleg degree per 30M	+N-S	+E-W	Total +N-S	Total +E-W	Total Vertical Section	Final Direction
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.00	50	0.00	60.00	60.00	25	26	0.00	26	0.00	26	0.00
90.00	82	0.00	90.00	30.00	33	35	0.00	61	0.00	61	0.00
120.00	75	0.00	119.99	30.00	07	41	0.00	1.02	0.00	1.02	0.00
150.00	75	0.00	149.99	30.00	00	39	0.00	1.41	0.00	1.41	0.00
195.00	5.50	324.00	194.93	45.00	3.28	2.04	-1.27	3.45	-1.27	3.68	339.84
253.00	2.40	335.00	252.79	58.00	1.64	3.35	-2.15	6.80	-3.41	7.61	333.34
311.00	1.50	345.00	300.76	48.00	.60	1.52	-.59	8.32	-4.00	9.23	334.31
390.00	1.10	26.00	368.74	68.00	.43	1.45	.06	9.77	-3.95	10.53	338.00
418.00	1.50	22.50	417.73	49.00	.25	1.02	.45	10.78	-3.49	11.33	342.04
456.00	2.00	5.60	455.71	38.00	.56	1.12	.26	11.90	-3.24	12.33	344.77
505.00	2.20	58.50	504.68	49.00	1.15	1.34	.89	13.24	-2.35	13.45	349.92
515.00	2.40	51.30	514.67	10.00	1.05	.23	.33	13.47	-2.03	13.63	351.44
553.80	1.40	108.20	553.45	38.80	1.56	.36	1.08	13.83	-.94	13.87	356.10
612.00	1.10	84.20	611.64	58.20	.31	-.17	1.23	13.67	.29	13.67	1.21
650.00	1.20	44.30	649.63	38.00	.62	.52	.64	13.99	.93	14.02	3.80
699.00	1.10	15.60	698.62	49.00	.35	.82	.48	14.81	1.41	14.88	5.45
757.00	.60	52.00	756.61	58.00	.37	.72	.39	15.53	1.80	15.64	6.62
786.50	.80	35.10	786.11	29.50	.29	.26	.24	15.80	2.04	15.93	7.37
847.00	1.20	23.20	846.60	60.50	.22	.93	.49	16.73	2.54	16.92	8.62

CONFIDENTIAL

Post-it Form # **CONFIDENTIAL** Date **2000-03-20** # of pages **1**

To **LEAHSA FISHER** From **WENDY**

Co./Dept. **RENAISSANCE** Co. **AEC**

Phone # **750-1807** Phone # **261-2455**

Fax # **750-1865** Fax # **716-2455**

CONFIDENTIAL

Post-it Form # **CONFIDENTIAL** Date **2000-03-20** # of pages **1**

To **ANDY GRAW** From **BOB TUPPER**

Co./Dept. **NER** Co. **AEC**

Phone # **292-5876** Phone # **213-2625**

Fax # **292-5876** Fax # **716-2455**

MAR 20 '00 02:32PM AEC

BIT RUNS

P.2/11

CABRA CONSULTING
DAILY GEOLOGICAL WELL REPORT
2000-03-19

AEC (WEST) RENAISSANCE CARCAJOU D-07

Report To:	Glen Andrews	Report From:	Glen Andrews
Spud Date:	2000-03-14	Telephone:	600-700-3201
Gd. Elevation:	83.2	Days from Spud:	5
Depth @ 0600:	860 m	K.B. Elevation:	87.5
Status @ 0600:	Running casing	Formation:	Hare Indian
24 hr Progress:	49 m	Average ROP:	7-8 m/hr
Cumulative Cost:			

OPERATIONS SUMMARY - Last 24 Hours

Drill ahead to T.D. of 860m @ 1345 Hrs. Circulate. Wiper trip. Circulate. Pull out of hole.
Rig to & log with Schlumberger. Lay down drill string. Rig to & run

SURVEYS

796m - 1.1°; 815m - 2.2°; 825m - 2.3°; 834m - 1.6°; 847m -

MUD PROPERTIES

Type: Gel Chem
Density: 1100 kg/m³
Viscosity: 59 s/L
Water Loss: 10 cm³/30 min
pH: 9.0
Filter Cake: mm

SAMPLE TOPS

Formation	Sample Depth	TVD	Subsea	Prognosis Subsea	Change
SFC CSNG	172.0	172.0	-84.5		
IMPERIAL	398.0	398.0	-310.5	-309.0	-1.5
CANOL	630.0	630.0	-542.5	-550.0	7.5
KEE SCARP	633.0	633.0	-545.5	-553.0	7.5
HARE INDIAN?	830.0	830.0	-742.5	-717.0	-25.5

FORECAST ACTIVITIES

Run casing. Circulate. Rig to & cement casing. Set slips. Nipple down. Tear out rig.
Move to O-47

CABRA CONSULTING
DAILY TOTAL GAS REPORT
2000-03-19

AEC (WEST) RENAISSANCE CARCAJOU D-07

SIGNIFICANT TOTAL GAS RESPONSE SUMMARY

Depth Interval (metres)	Total Gas Response (units)	Average Background (units)	Interpreted Lithology
844	1563	200	Limestone - frac'd

CABRA CONSULTING
DAILY GEOLOGICAL WELL REPORT
2000-03-18

AEC (WEST) RENAISSANCE CARCAJOU D-07

Report To: Glen Andrews

Report From: Glen Andrews

Spud Date: 2000-03-14

Telephone: 600-700-3201

Gd. Elevation: 83.2

Days from Spud: 4

Depth @ 0600: 811 m

K.B. Elevation: 87.5

Status @ 0600: Drilling ahead

Formation: Kee Scarp

24 hr Progress: 136 m

Average ROP: 5-6 m/hr

Cumulative Cost:

OPERATIONS SUMMARY - Last 24 Hours

Drill ahead & survey. Note: Hare Indian not confirmed in samples - estimate based on shale

SURVEYS

641m - 1.0°; 651m - 1.2°; 660m - 1.7°; 670m - 2.1°; 680m - 1.3°; 699m - 1.1°; 718m - 2.0°; 728m - 1.8°; 738m - 1.1°; 757m - 0.6°; 767m - 0.5°; 777m - 0.8°; 786m -

MUD PROPERTIES

Type: Gel Chem
Density: 1080 kg/m³
Viscosity: 43 s/L
Water Loss: 10 cm³/30 min
pH: 9.5
Filter Cake: mm

SAMPLE TOPS

Formation	Sample Depth	TVD	Subsea	Prognosis Subsea	Change
SFC CSNG	172.0	172.0	-84.5		
IMPERIAL	398.0	398.0	-310.5	-309.0	-1.5
CANOL	630.0	630.0	-542.5	-550.0	7.5
KEE SCARP	633.0	633.0	-545.5	-553.0	7.5
HARE INDIAN?	815.0	815.0	-727.5	-717.0	-10.5

FORECAST ACTIVITIES

Drill ahead & survey to T.D (approx 850m). Wiper trip. Circulate. Pull out of hole. Rig in & log. Run

*WE ARE HAVING
PROBLEMS GETTING
FIELD REPORTS;
WILL FORWARD
ASAP.*

CONFIDENTIAL		Date	# of pages
To	LEAHSA FISHER	From	WENDY
Co./Dept.	RENAISSANCE	Co.	AEC
Phone #	750-1807	Phone #	261-2455
Fax #	750-1865	Fax #	714-2455

CONFIDENTIAL		Date	# of pages
To	ANDY GRAW	From	BOB TOPPER
Co./Dept.	NEB	Co.	AEC
Phone #		Phone #	213-2625
Fax #	292-5076	Fax #	714-2455

CABRA CONSULTING
DAILY TOTAL GAS REPORT
2000-03-18

AEC (WEST) RENAISSANCE CARCAJOU D-07

SIGNIFICANT TOTAL GAS RESPONSE SUMMARY

Depth Interval (metres)	Total Gas Response (units)	Average Background (units)	Interpreted Lithology
685	4104	180	Limestone - frac
695	697	280	Shale - bituminous?
780	711	140	Shale - bit
792	884	190	Shale - bit
803	1241	200	Shale - bit

SIGNIFICANT CONNECTION, SURVEY, DOWN TIME AND TRIP GAS

Depth (metres)	Total Gas Response (units)	Average Background (units)	Pumps Off (min)
692	3406	400	15
713	797	300	4
731	1060	165	6
761	278	95	5
789	803	145	5
809	3306	140	5

CABRA CONSULTING
DAILY TOTAL GAS REPORT
2000-03-17

AEC (WEST) RENAISSANCE CARCAJOU D-07

TOTAL GAS RESPONSE SUMMARY

Depth Interval (metres)	Total Gas Response (units)	Depth Interval (metres)	Total Gas Response (units)
626-630	40-70	648-655	100-350
630-633	150-250	655-670	100-1022
633-648	20-70		

SIGNIFICANT TOTAL GAS RESPONSE SUMMARY

Depth Interval (metres)	Total Gas Response (units)	Average Background (units)	Interpreted Lithology
630-633	250	60	Shale - Canol
648-655	350	60	Chert - frac'd
663-666	1022	150	Limestone - frac'd

CABRA CONSULTING
DAILY GEOLOGICAL WELL REPORT
2000-03-16

AEC (WEST) RENAISSANCE CARCAJOU D-07

Report To: Glen Andrews
Spud Date: 2000-03-13
Gd. Elevation: 83.2
Depth @ 0600: 626 m
Status @ 0600: Wait on cement
24 hr Progress: 68 m
Cumulative Cost:

Report From: Glen Andrews
Telephone: 600-700-2868
Days from Spud: 3
K.B. Elevation: 87.5
Formation: Imperial
Average ROP: 18 m/hr

OPERATIONS SUMMARY - Last 24 Hours

Drill ahead & survey to 616m. Circulate. Wiper trip. Drill ahead to Intermediate casing point of 626m @ 1645 Hrs. Circulate. Pull out of hole to run casing. Rig to & run 51 joints 177.8mm casing landed @ 626m. Rig to & cement casing. Plug down @ 0300 Hrs March 16/2000.

SURVEYS

553.8m - 1.7°; 573.1m - 1.4°; 592.5m - 1.1°; 612m -

MUD PROPERTIES

Type: H2O
Density: 1060 kg/m³
Viscosity: s/L
Water Loss: cm³/30 min
pH:
Filter Cake: mm

SAMPLE TOPS
Formation
SFC CSNG
IMPERIAL

Sample Depth	TVD Subsea	Prognosis Subsea	Change
172.0	-84.5		
398.0	-310.5	-309.0	-1.5

FORECAST ACTIVITIES

Drill ahead & survey this

CONFIDENTIAL

Post-it Fax Note	Date	# of pages
To LEANSA FISHER	From WENDY	
Co./Dept. RENAISSANCE	Co. AEC	
Phone # 750-1807	Phone # 261-2455	
750-1865	Fax # 714-2455	

CONFIDENTIAL

Post-it Fax Note	Date	# of pages
To ANDY GRAW	From BOB TUPPER	
Co./Dept. NEB	Co. AEC	
Phone #	Phone # 213-2625	
Fax # 293-5676	Fax # 714-2455	

CABRA CONSULTING
DAILY TOTAL GAS REPORT
2000-03-16

AEC (WEST) RENAISSANCE CARCAJOU D-07

TOTAL GAS RESPONSE SUMMARY

Depth Interval (metres)	Total Gas Response (units)	Depth Interval (metres)	Total Gas Response (units)
545-580	80-190	600-602	2602
580-600	120-265	602-626	130-240

SIGNIFICANT TOTAL GAS RESPONSE SUMMARY

Depth Interval (metres)	Total Gas Response (units)	Average Background (units)	Interpreted Lithology
600-602	2602	180	Sandstone - fractur

SIGNIFICANT CONNECTION, SURVEY, DOWN TIME AND TRIP GAS

Depth (metres)	Total Gas Response (units)	Average Background (units)	Pumps Off (min)
616	894	150	200

CABRA CONSULTING
DAILY GEOLOGICAL WELL REPORT
2000-03-15

AEC (WEST) RENAISSANCE CARCAJOU D-07

Report To: Glen Andrews	Report From: Glen Andrews
Spud Date: 2000-03-13	Telephone: 600-700-3201
Gd. Elevation: 83.2	Days from Spud: 1
Depth @ 0600: 558 m	K.B. Elevation: 87.5
Status @ 0600: Drilling ahead with motor	Formation: Imperial
24 hr Progress: 311 m	Average ROP: 20 m/hr
Cumulative Cost:	

OPERATIONS SUMMARY - Last 24 Hours

Drill ahead &

SURVEYS

195.2m - 5.5°; 214.6m - 3.3°; 234m - 2.1°; 243.8m - 1.2°; 263.1m - 2.5°; 282.5m - 2.7°;
302m - 1.5°; 321.3m - 1.6°; 340.7m - 1.1°; 389m - 1.1°; 418.1m - 1.5°; 456.8m - 2.0°;
476.2m - 1.4°; 505.3m - 2.2°; 524.7m - 2.1°; 544.1m -

MUD PROPERTIES

Type: H2O
Density: 1060 kg/m³
Viscosity: s/L
Water Loss: cm³/30 min
pH:
Filter Cake: mm

SAMPLE TOPS

Formation	Sample Depth	TVD Subsea	Prognosis Subsea	Change
SFC CSNG	172.0	172.0 -84.5		
IMPERIAL	398.0	398.0 -310.5	-309.0	-1.5

FORECAST ACTIVITIES

Drill ahead & survey to intermediate casing point. Wiper trip. Circulate. Pull out of hole to run

Post-it		Date	# of pages
To LEAHSA FISHER	From WENDY		
Co./Dept. RENAISSANCE	Co. AEC		
Phone # 750-1607	Phone # 261-2455		
Fax # 750-1865	Fax # 716-2455		

Post-it		Date	# of pages
To ANDY GRAW	From BOB TUPPER		
Co./Dept. NEB	Co. AEC		
Phone #	Phone # 213-2625		
Fax # 293-5876	Fax # 716-2455		

CABRA CONSULTING
DAILY GEOLOGICAL WELL REPORT
2000-03-14

AEC (WEST) RENAISSANCE CARCAJOU D-07

Report To: Glen Andrews

Report From: Glen Andrews

Telephone: 600-700-3201

Spud Date: 2000-03-13

Days from Spud: 0

Gd. Elevation: 83.2

K.B. Elevation: 87.5

Depth @ 0600: 247 m

Formation: Cretaceous

Status @ 0600: Drilling ahead

24 hr Progress: 75 m

Average ROP: 15 m/hr

Cumulative Cost:

OPERATIONS SUMMARY - Last 24 Hours

Rig up. Nipple up. Pressure test. Pick up directional tools & PDC bit. Run in hole.
Pressure test. Drill out cement @ 2300 Hrs. Well spudded 0030 hrs 2000-03-14. Drill
ahead & survey with mud motor. Background gas 10-50 units. Peaks of up to 80 units
from carbonaceous

MUD PROPERTIES

Type: H2O
Density: kg/m³
Viscosity: s/L
Water Loss: cm³/30 min
pH:
Filter Cake: mm

SAMPLE TOPS

Formation

SFC CSNG

Sample

Depth

172.0

TVD Subsea

172.0 -84.5

Prognosis

Subsea

Change

FORECAST ACTIVITIES

Drill ahead &

CONFIDENTIAL		Date	# of pages
To	LEAHSA FISHER	From	WENDY
Co./Dept.	RENAISSANCE	Co.	AEC
Phone #	750-1807	Phone #	261-2455
Fax #	750-1865	Fax #	716-2455

CONFIDENTIAL		Date	# of pages
To	ANDY GRAW	From	BOB TUPPER
Co./Dept.	NEB	Co.	AEC
Phone #		Phone #	213-2625
Fax #	292-5876	Fax #	716-2455

CABRA CONSULTING
DAILY GEOLOGICAL WELL REPORT
2000-03-13

AEC (WEST) RENAISSANCE CARCAJOU D-07

Report To: Glen Andrews
Spud Date: 2000-03-13
Gd. Elevation: 83.2
Depth @ : m
Status @ 0600: Rig up/Nipple up
24 hr Progress: m
Cumulative Cost:

Report From: Glen Andrews
Telephone: 600-700-3201
Days from Spud: 0
K.B. Elevation: 87.5
Formation:
Average ROP: m/hr

OPERATIONS SUMMARY - Last 24 Hours

Move rig from O-74 to D-07 location. D-07 location is small -- rig move

FORECAST ACTIVITIES

Nipple up. Pressure test. Drill out cement. Drill

P.5/6

MAR 14 '00 08:56AM REC

compu-max 71 Martinview Road, N.E. CALGARY, Alberta T3J 2W2 (403) 280-5857		COMPOSITE WELL HISTORY DRILLING TIME LITHOLOGY LOG		CASING DEPTH SURFACE: 172 m INTERMEDIATE: m MAIN: m
COMPANY: AEC OIL & GAS LTD WELL: AEC (WEST) RENAISSANCE CARCAJOU D-07 FIELD: EXPLORATORY PROVINCE: NWT LOCATION: LSD SEC TWP RGE W MERIDIAN				
COORDINATES: ELEVATIONS: GD 83.2 m LOG MEASURED FROM KB KB 87.5 m 4.3 m ABOVE GROUND WELL TYPE: EXPLORATORY TOTAL DEPTH: SPUD DATE: 2000-03-13 T.D. DATE: LICENCE No.: 1890 AFE No.: 5000047				
CONTRACTOR: AKITA #14 MUD TYPE: GEL CHEM MUD UP @: SAMPLES: 5 & 2.5 METER INTERVALS AEC/REN: 172m TO T.D.m GOV'T: 172m TO T.D.m DSTs:		CORES: NONE OPEN HOLE LOGS: SCHLUMBERGER		
SUPERVISION GEOLOGICAL: Glen MacIntosh		DRILLING: LYN SANDQUIST		CASING SIZE SURFACE: 244.5 mm INTERMEDIATE: 177.8 mm MAIN: 114 mm
				HOLE SIZE SURFACE: 311 mm INTERMEDIATE: 222 mm MAIN: 156 mm
				REMARKS:

ROCK TYPE

	CONGLOMERATE
	SANDSTONE
	SILTSTONE
	SHALE, grey
	SHALE, black
	SHALE, coloured
	CHERT
	LIMESTONE
	DOLOMITE

	ANHYDRITE
	COAL
	CLAYSTONE, grey
	CLAYSTONE, col
	MARLSTONE, calc
	MARLSTONE, dol
	SALT
	SIDERITE, LIMONITE
	BRECCIA

	IGNEOUS, basic
	IGNEOUS, acidic
	CANNOT INTERPRET
	NO SAMPLE
	CEMENT
	TUFF
	ULTRABASIC

ACCESSORIES

	SANDY
	SILTY
	FELDSPAR
	SILICEOUS
	CHERTY, light
	CHERTY, dark
	ARGILLACEOUS
	CARBONACEOUS
	BITUMENOUS
	CALCAREOUS
	LIMESTONE strg
	DOLOMITIC
	DOLOMITE strg
	ANHYDRITIC
	ANHYDRITE strg
	PHOSPHATE pel
	FERRUGINOUS

	GLAUCONITIC
	BENTONITIC
	PYRITIC
	KAOLINITIC
	BIOCLASTIC
	OOLITES
	PELLETS
	INTRACLASTS
	FOSSILS
	CRINOID
	PELECYPOD
	BRACHIOPOD
	OSTRACOD
	CORAL
	STROMATOPOROID
	AMPHIPORA
	FISH REMAINS

	PLANT REMAINS
	BRECCIA frag
	SANDSTONE strg
	SILTSTONE strg
	SHALE lam
	TUFFACEOUS
	Heavy, dark Minerals
	FORAMINIFERA/Rad
	ANTIGORITE
	BRUCITE
	BRONZITE
	CHROMITE
	CHRYSHOTILE
	DUNITE
	TALC
	SERPENTINE

OIL SHOWS

●	EVEN STAINING, FLUORESCES
⊙	SPOTTY STAIN, FLUORESCES
○	QUESTIONABLE, NO FLUORESCENCE
D	DEAD, ASPHALTIC

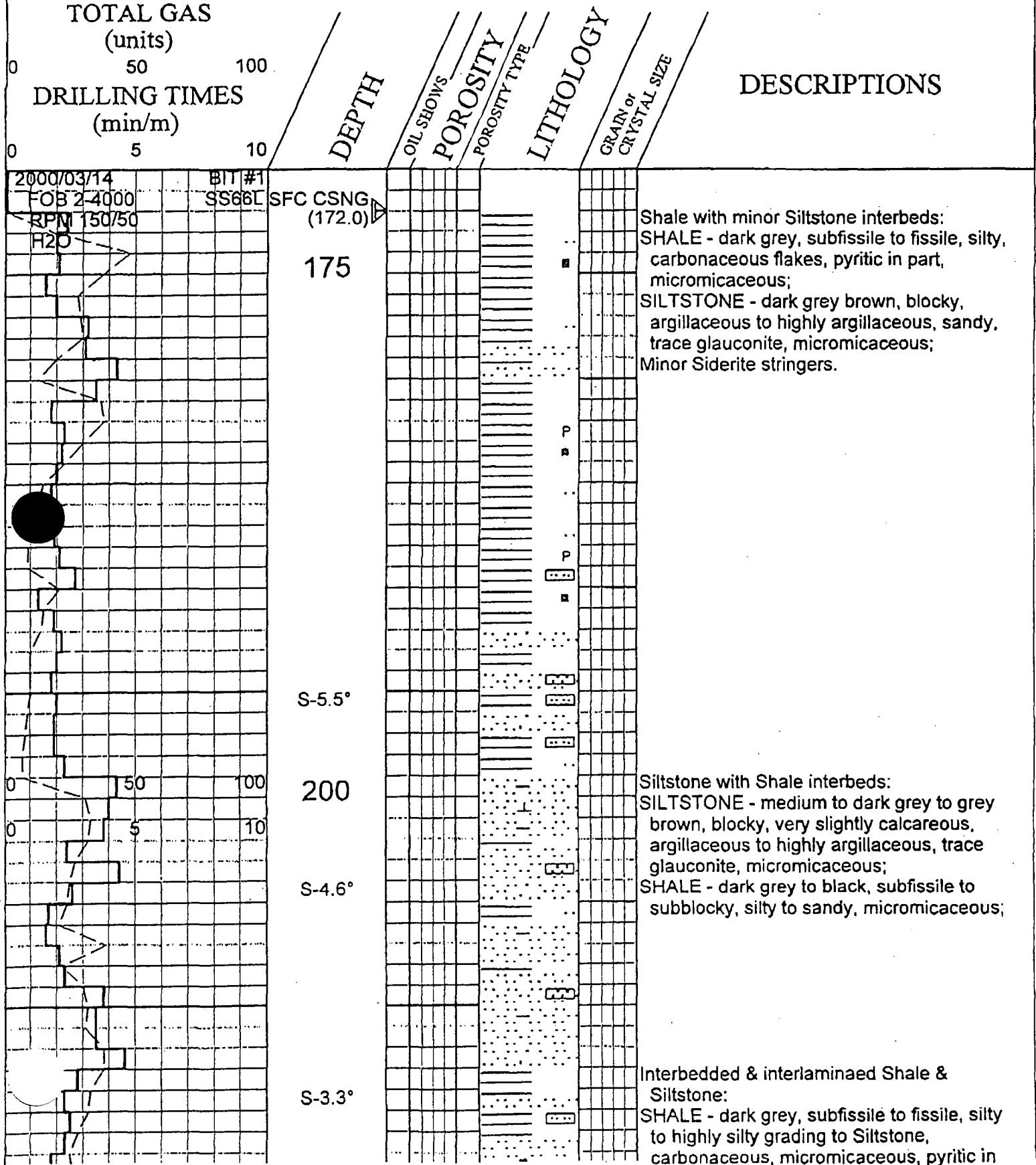
POROSITY TYPES

X	INTERCRYSTALLINE, INTERGRANULAR
⊕	INTEROOLITIC, INTEPELLETOID
V	VUGGY
P	PINPOINT
✓	MOLDIC
○	ORGANIC
F	FRACTURE
e	EARTHY
□	FENESTRAL

DUNHAM CLASSES

PK	PACKSTONE
WK	WACKESTONE
MD	MUDSTONE
BD	BOUNDSTONE
GR	GRAINSTONE

SCALE 1:240



S-2.5°
225

S-2.1°

S-1.2°

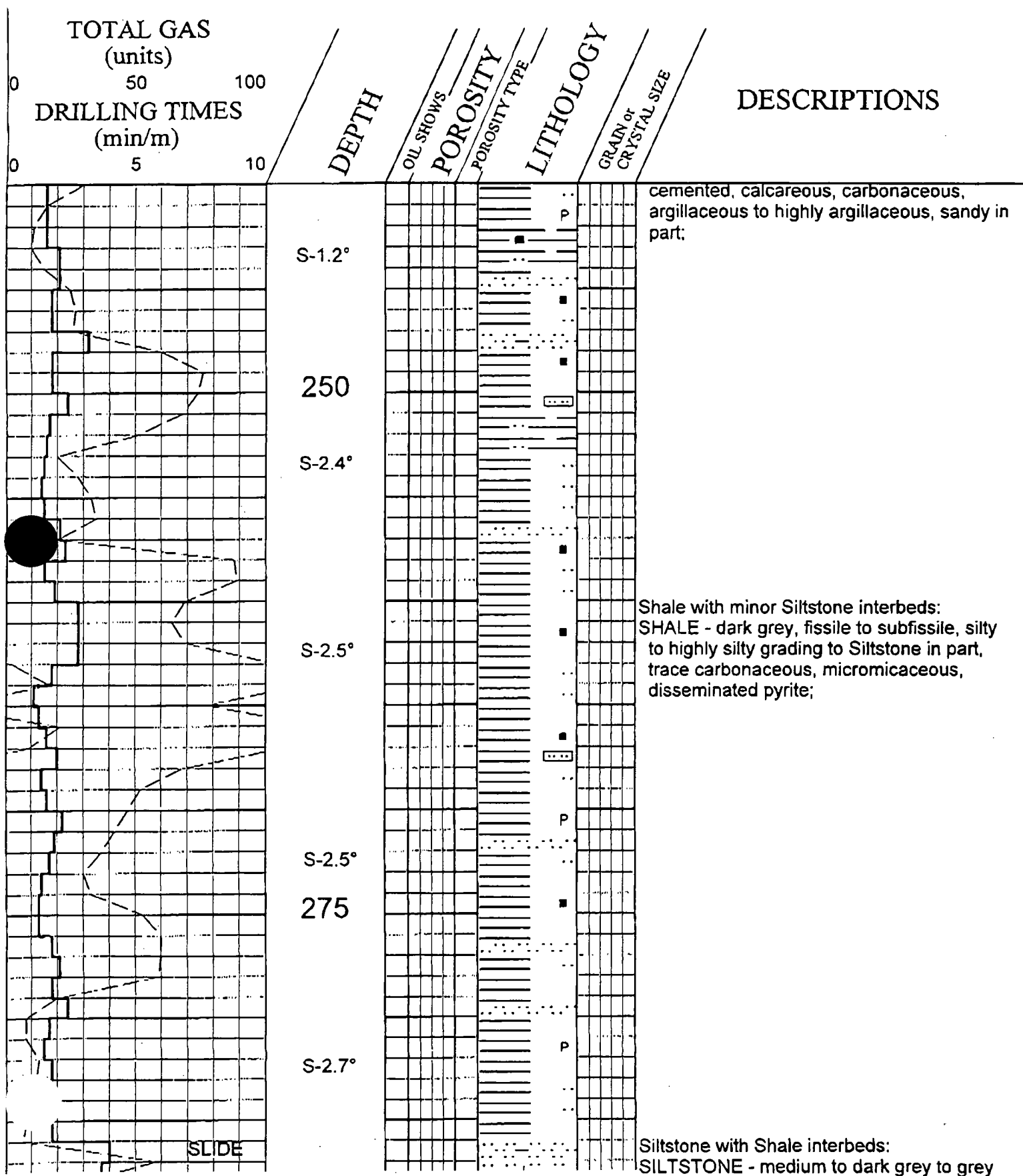
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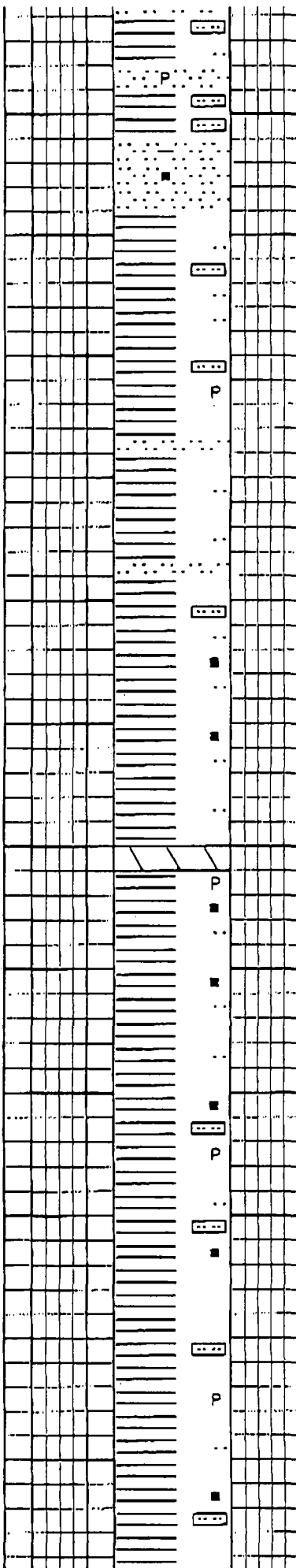
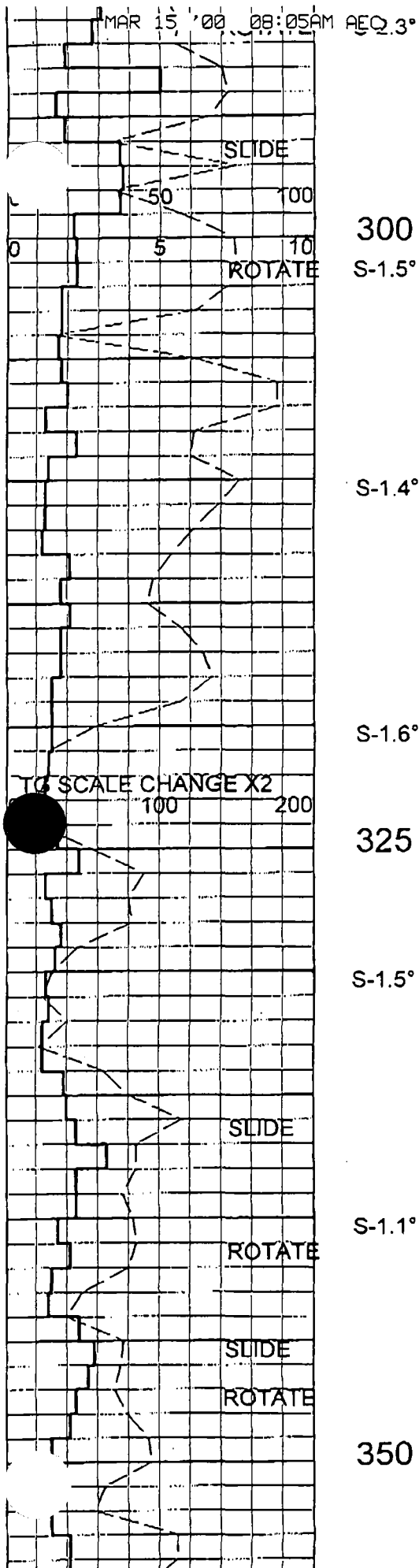
275

Shale with Siltstone interbeds:

SHALE - dark grey to black, fissile to
subfissile, platy, silty, carbonaceous, minor
disseminated pyrite;SILTSTONE - dark grey to grey brown, well
cemented, calcareous, carbonaceous,
argillaceous to highly argillaceous, sandy in
part;

SCALE 1:240





SHALE - dark grey, fissile to SP. 3/6ile, silty to highly silty grading to Siltstone in part, trace carbonaceous, micromicaceous, disseminated pyrite;

Shale with Siltstone & Siderite stringers:
SHALE - dark grey, fissile to subfissile, silty grading to Siltstone in part, micromicaceous, trace pyrite.

SHALE - dark grey to black, fissile to subfissile, carbonaceous, silty, micromicaceous;
Minor Siderite interbeds.

SHALE - dark grey to black, fissile to subfissile, platy to splintery in part, carbonaceous, silty to sandy, trace glauconite, micromicaceous, disseminated pyrite;
Minor Siderite interbeds.

S-1.1°

375

S-1.1°

 IMPERIAL
 (398.0) 
 400

S-1.5°

slightly calcareous in part, s.p. 4/6 grading to very fine Sandstone in part, trace glauconitic, trace carbonaceous, micromicaceous, disseminated pyrite, tight, fast white cut;
 SHALE - dark grey, fissile to subfissile, platy, carbonaceous, silty to sandy, micromicaceous.

Shale with Siltstone interbeds & laminae:
 SHALE - dark grey to brown grey, fissile to subfissile, silty grading to Siltstone, carbonaceous, micromicaceous, disseminated pyrite;
 SILTSTONE - dark grey brown, well cemented, argillaceous, calcareous in part, slightly sandy, micromicaceous, ? cut.

SANDSTONE - It grey to off white, vf to f grained, angular to subangular, well sorted, mod to well cemented, dol & sil cement, trace poor porosity to tight, fast white cut.
 Siltstone with Shale interbeds:
 SILTSTONE - grey to grey brown, siliceous, slightly calcareous in part, sandy grading to very fine Sandstone in part, argillaceous, ? to no shows SHALE - dark grey, fissile to subfissile, silty grading to Siltstone, micromicaceous, trace carbonaceous.

MAR 15 '00 08:06AM AEC-25

TG SCALE CHANGE X2

200 400

SCALE CHANGE X2

0 10 20

SLIDE

ROTATE

SLIDE

ROTATE

SLIDE

ROTATE

S-1.8°

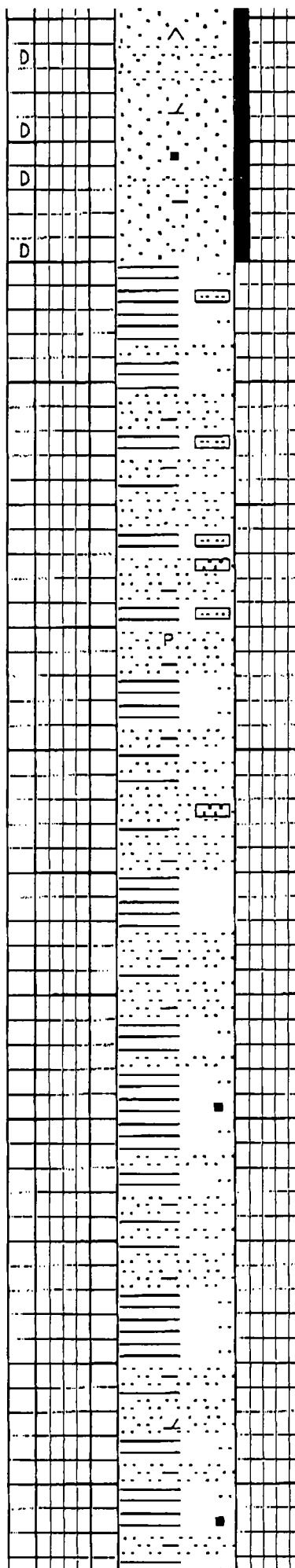
450

S-2.0°

S-1.7°

475

S-1.4°



silica cement, slightly dolomitic, slightly carbonaceous, tight, fast white cut.

Interbedded Siltstone & Shale:

SILTSTONE - grey to grey brown, siliceous, sandy grading to very fine Sandstone in part, argillaceous;

SHALE - dark grey, fissile, silty, micromicaceous, trace carbonaceous.

Shale with Siltstone interbeds:

SHALE - dark grey, fissile to subfissile, blocky, silty, micromicaceous, trace carbonaceous;

SILTSTONE - grey to grey brown, siliceous, sandy grading to very fine Sandstone in part, argillaceous.

Interbedded & interlaminated Shale & Siltstone:

SHALE - dark grey, fissile to subfissile, blocky, silty, micromicaceous, trace carbonaceous;

SILTSTONE - grey to grey brown, siliceous, very slightly dolomitic, sandy grading to very fine Sandstone in part, trace carbonaceous, argillaceous.

500

S-2.2°

S-2.4°

S-2.1°

525

SLIDE

ROTATE

S-1.8°

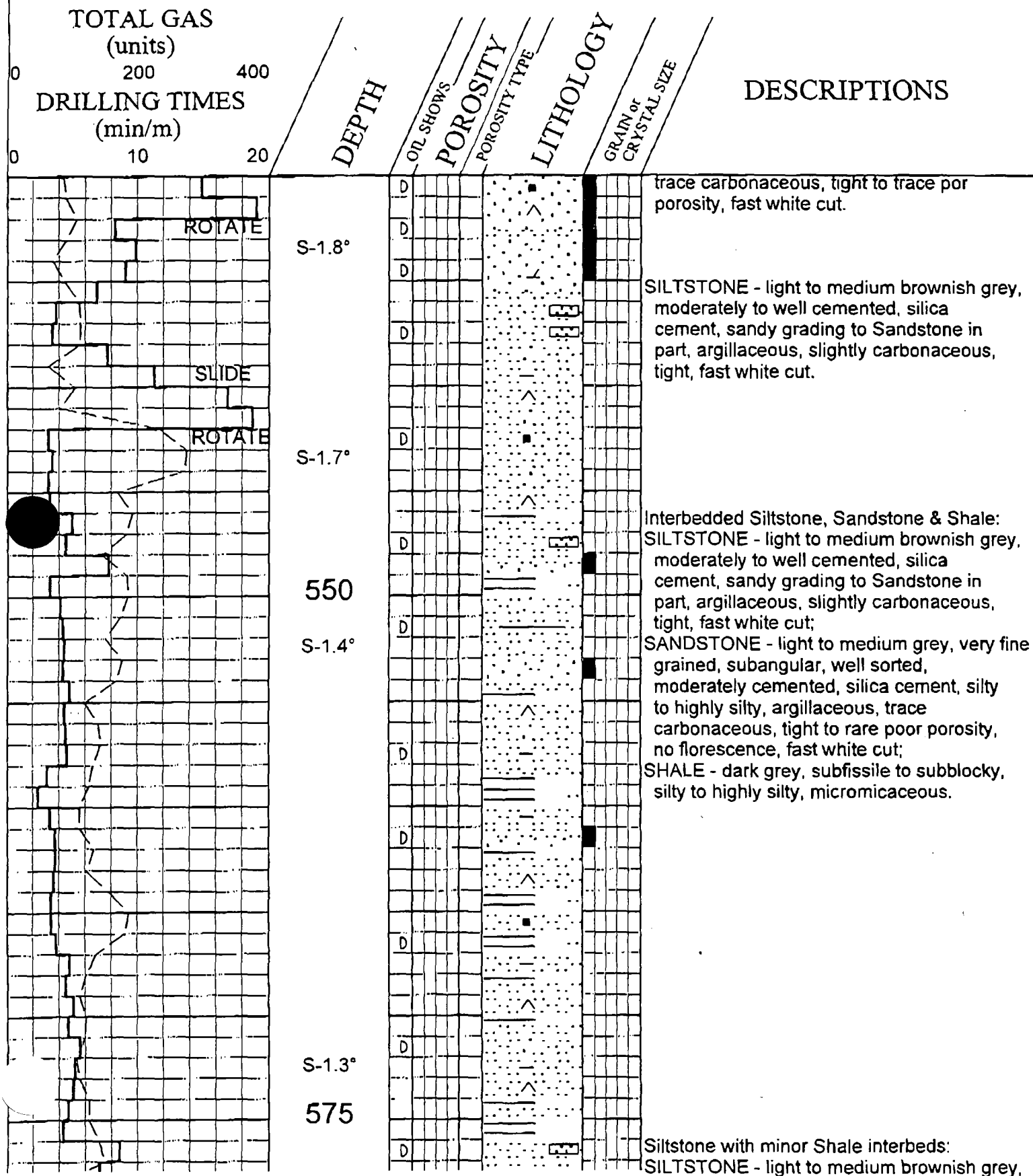
550

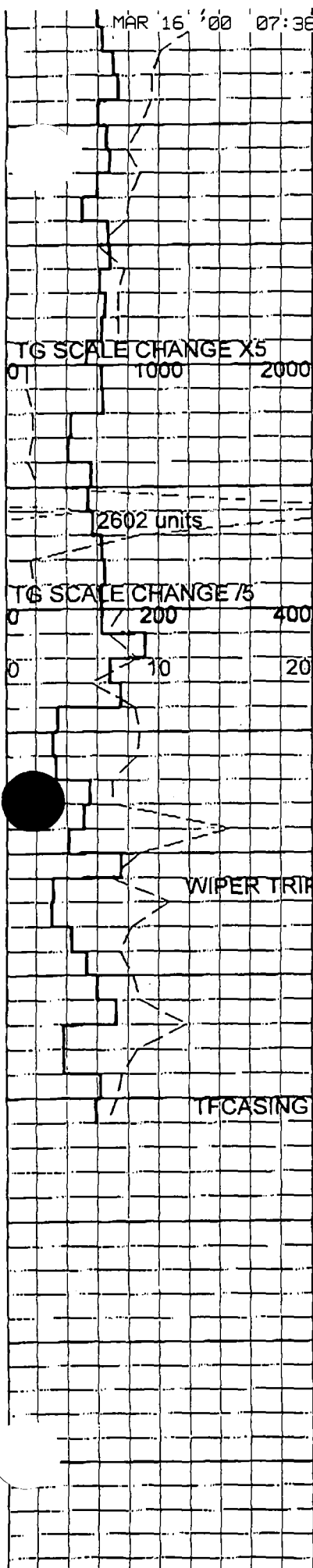
Shale with Siltstone stringers:
SHALE - dark grey, fissile, silty grading to
Siltstone in part, micromicaceous, trace
carbonaceous.

SANDSTONE - light grey, silt to very fine
Sandstone, subangular, well sorted, well
cemented, dolomitic cement, siliceous,
trace carbonaceous, tight, fast white cut.

CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



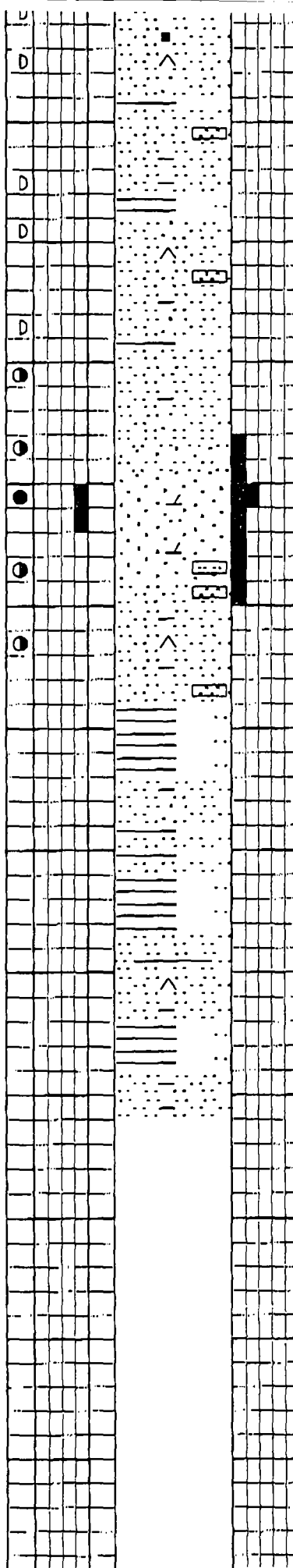


S-1.1°

600

S-1.1°

625

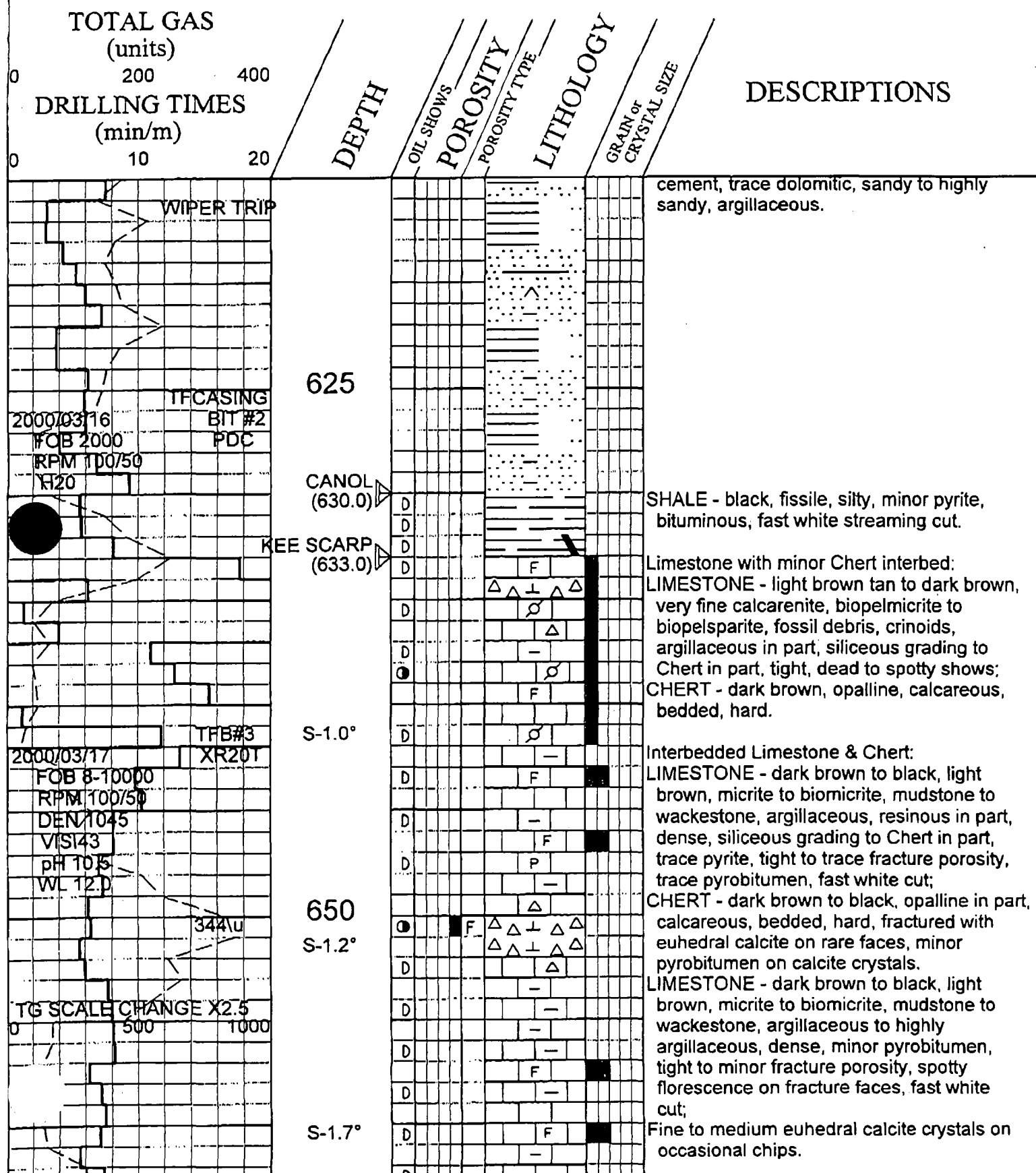


tight, fast white cut; P. 6/6
 SHALE - dark grey, subfissile to subblocky,
 silty to highly silty, micromicaceous.

Siltstone grading to Sandstone:
 SILTSTONE - light to medium grey,
 moderately to well cemented, silica
 cement, trace dolomitic, sandy to highly
 sandy, argillaceous, moderate to fast white
 cut;
 SANDSTONE - light grey, very fine to trace
 fine grained, subangular, well sorted,
 moderately to well cemented, dolomitic
 cement, argillaceous, slightly
 carbonaceous, poor fracture porosity to
 tight, weak white florescence, fast white
 cut.

Interbedded Shale & Siltstone:
 SHALE - dark grey to black, fissile to
 subfissile, silty to very silty,
 micromicaceous;
 SILTSTONE - light to medium grey,
 moderately to well cemented, silica
 cement, trace dolomitic, sandy to highly
 sandy, argillaceous;

SCALE 1:240



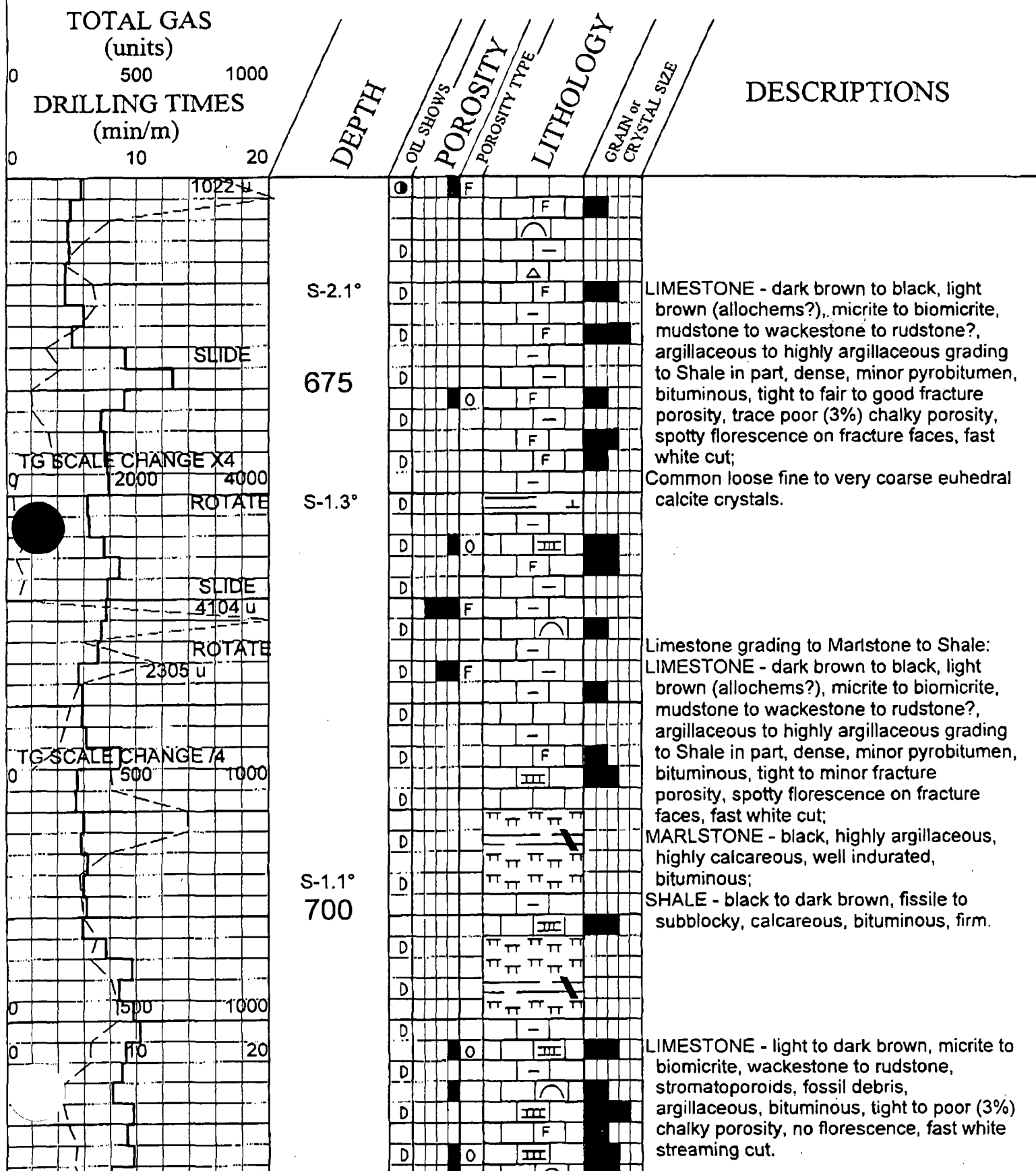
MAR 17 10:22:11 00:08:38AM REC

P.7/7

675

CANSTRAT SYMBOLS USED FOR LITHOLOGY AND SHOWS

SCALE 1:240



S-2.0°

725

S-1.8°

SLIDE

S-1.1°

ROTATE

SLIDE

ROTATE

750

S-0.6°

S-0.5°

775

S-0.8°

LIMESTONE - light to dark grey brown, micrite to biomicrite, wackestone to rudstone, stromatoporoids, crinoids, fossil debris, argillaceous, bituminous, tight to poor to fair (3-6%) chalky porosity, no florescence, fast white streaming cut.

Limestone with minor Marlstone:
LIMESTONE - medium grey brown to dark brown, micrite to biomicrite, rudstone, stromatoporoids, fossil debris, argillaceous to highly argillaceous in part, bituminous, tight to minor poor 3% chalky porosity, poor to fast streaming white cut.

LIMESTONE - light to medium brown to dark brown, calcilutite to medium calcarenite, micrite to biopelmicrite, mudstone to wackestone to rudstone, stromatoporoids, fossil debris, slightly dolomitic, slightly argillaceous, slightly bituminous, tight to minor poor porosity, poor to fast streaming white cut.

LIMESTONE - light to medium brown to dark brown, calcilutite to medium calcarenite, micrite to biopelmicrite, mudstone to wackestone to rudstone, stromatoporoids, fossil debris, slightly dolomitic, slightly argillaceous, slightly bituminous, tight to minor poor porosity, poor to fast streaming white cut.

pH MAR 20 '00 02:34PM AEC

S-0.8°

S-1.1°

800

S-2.2°

S-2.3°

825

SLIDE

HARE INDIAN
ROTATE (830.0)

S-1.6°

SLIDE

ROTATE

S-1.2°

firm, bituminous;
LIMESTONE - medium to dark brown, calcilutite to fine calcarenite, micrite to biomicrite, mudstone to wackestone, minor fossil debris, slightly bituminous, tight, fast white cut, ? shows.

Limestone with Shale interbeds:
LIMESTONE - light to medium brown, calcarenite, biopelmicrite, wackestone to packstone, fossil debris, slightly dolomitic, silty in part, slightly argillaceous, tight, white cut, ? shows;
SHALE - dark grey to black, blocky, silty, highly calcareous, bituminous.

LIMESTONE - light to medium brown to brown grey, calcarenite to calcrudite, biopelmicrite, wackestone to packstone to rudstone, stromatoporoids, fossil debris, slightly dolomitic, silty, silt content increasing downward, argillaceous in part, tight, ? shows.

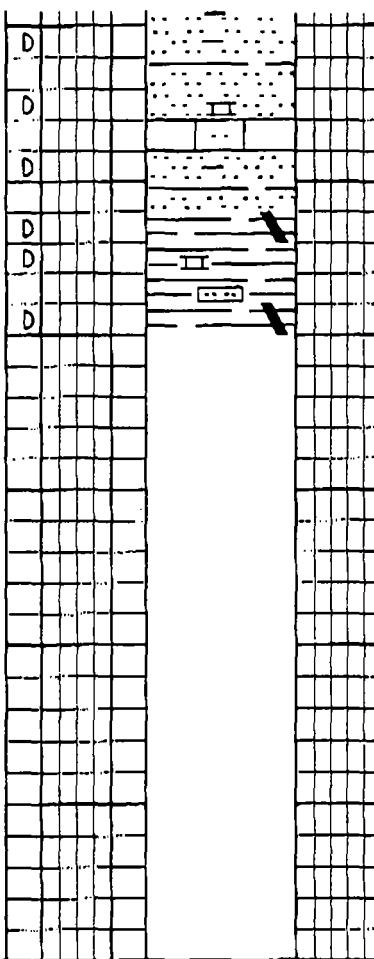
Limestone with Siltstone interbeds & Shale laminae:
LIMESTONE - light to medium grey brown to brown grey, calcilutite to fine calcarenite, micrite to biomicrite, mudstone to wackestone, argillaceous, silty to highly silty grading to Siltstone in part, tight to minor poor (<3%) chalky porosity, trace fracture porosity, minor pyrobitumen in pores, fast streaming white cut.

MAR 20 '00 02:35PM AEC

1345 HRS

TFID

875



Limestone in part, argillaceous, micaceous, trace disseminated pyrite, dead oil stain, fast white streaming cut;
SHALE - dark grey to black, blocky, highly calcareous grading to Marlstone, firm, silty, micromicaceous, bituminous.