

DEPARTMENT OF MINES AND ENERGY

SOUTH AUSTRALIA



OPEN FILE ENVELOPE SERIES

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CONTENTS ENVELOPE 1371

TENEMENT: Not Related

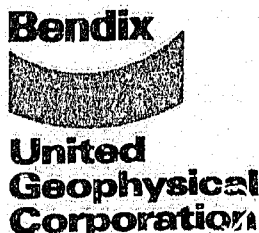
TENEMENT HOLDER: Pexa Oil N.L.

<u>REPORT</u> :	Period ended 1/7/70 - 15/7/70	(Pgs. 3-5)
	" 16/7/70 - 31/7/70	(Pgs. 6-8)
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00003

Env. 1371



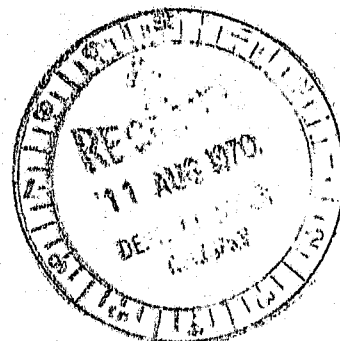
210 Henley Beach Road,
TORRENSVILLE S.A. 5031

Party 147.
2650E Foothill Boulevard
Pasadena, California 91109
Tel (213) 795-0421

A Subsidiary of
The Bendix Corporation

July 21st, 1970.

Mr. G. W. Kendall,
Pexa Oil N.L.,
7th Floor,
Wynyard House,
291 George Street,
SYDNEY N.S.W. 2000.



Peake Creek Seismic and Gravity Survey
Report for Period July 1 - July 15.

GENERAL: During the period, the field crew moved in to the area to commence the Peake Creek Seismic Survey. Drilling and recording commenced on the 12th of July.

STATISTICS:

Recording Hours (chargeable, not including move in time)...	...	...	35.5
No. of Production Spreads (200% CDP) ...	...	...	22
No. of Production Spreads (600% CDP) ...	...	...	45
Total No. of Shots ...	...	...	46
Miles Shot (200% CDP) ...	...	...	5.5
Miles Shot (600% CDP) ...	...	...	3.75
Miles Shot Total ...	...	...	9.25
Drilling Hours (chargeable) ...	...	...	79.0
No. of Holes drilled .	...	...	77
No. of S.P.'s Drilled. ...	...	...	77
Total Footage... ..	...	...	6975
Surveying: Miles Paged ...	...	...	12.0
Miles Levelled ..	...	...	10.0

OPERATIONS: The Dozer moved in and commenced work in the area on the 2nd of the month. The crew returned to the field on the 7th and spent several days moving in and setting up camp. Drilling commenced on lines PYN and PYJ on the 12th. Both these lines were extended to tie old work to the new line PYO. The extensions of the old lines were shot using half mile cables and shot points 1320 feet apart to achieve 200% coverage. Record quality was poor to fair. Line PYO was shot with a geophone interval of 220 feet and a shot point interval of 440 feet to achieve 600% of subsurface coverage.

GRAVITY: With the type of shooting that is being carried out, gravity readings can be made quickly. Hence until more line is laid out, the gravity meter operator will not commence his part of the operations.

PERSONNEL AND EQUIPMENT: The attached list gives all details of men and equipment.

INTERPRETATION: To date, no field sections have been available.

PROGRAM: Since the program was originally laid out, some additional work has been assigned. The enclosed map shows line nomenclature and position. Line PYO from the south to a point just north of the Mount Barry road is to be shot 6 fold CDP; the remainder of PYO is to be shot 4 fold CDP. Lines PYP and PYQ are to be shot single fold with 1/3 mile spreads. In addition, an offset profile is to be shot on line PYO near the junction of PYP.

Respectfully submitted,

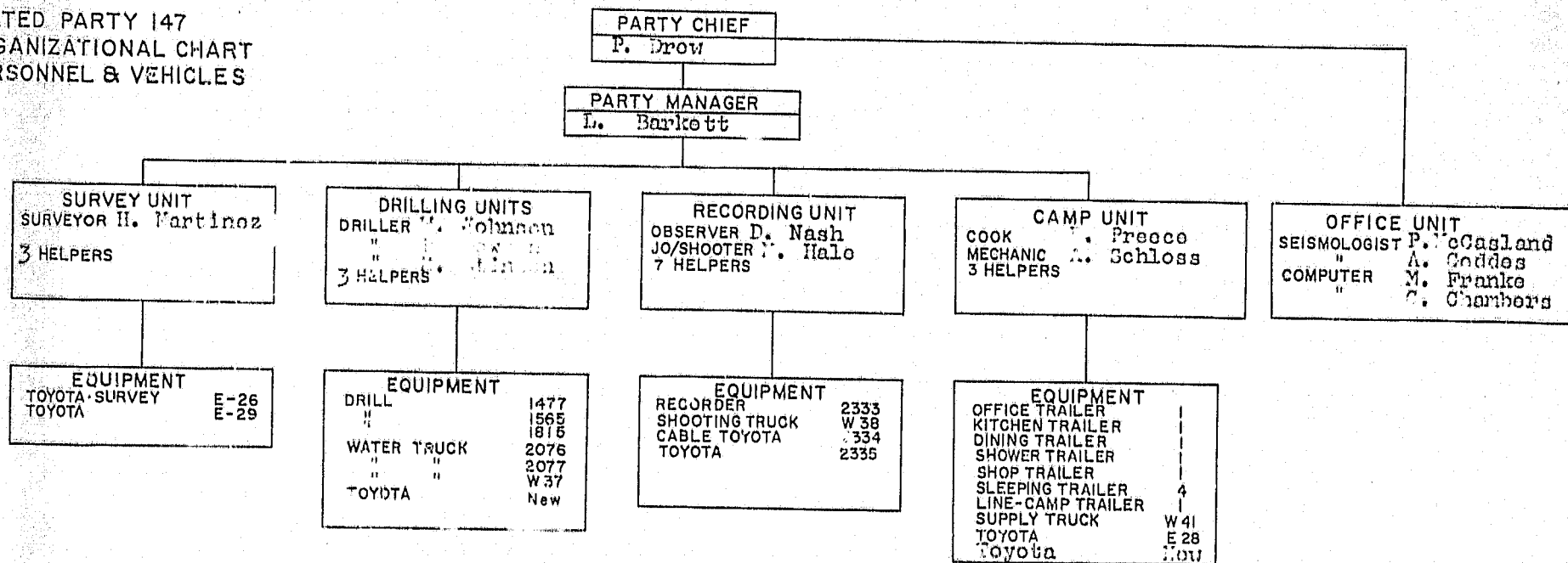
.....
P. J. Drew,
Party Chief.

PJD/cc

cc: Pexa (6)
Pasadena
Brisbane
Supervisor
File.

00005

UNITED PARTY 147
ORGANIZATIONAL CHART
PERSONNEL & VEHICLES

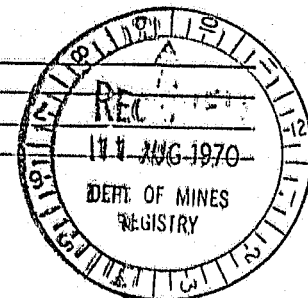


SUMMARY: The crew has a total of 30
personnel - 6 in the field
and 4 in the Adelaide office.

REMARKS:

PERIOD ENDING: July 15, 1970

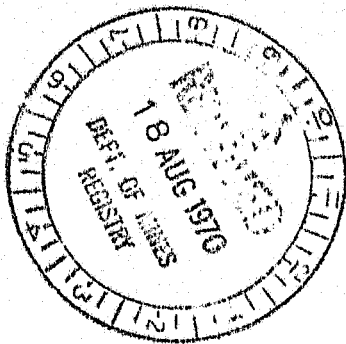
PARTY CHIEF: P. Drow



ENV. 1371

00006

ENV. 1371



**United
Geophysical
Corporation**

2650E Foothill Boulevard
Pasadena, California 91109
Tel (213) 795-0421

A Subsidiary of
The Bendix Corporation

210 Henley Beach Road.
TOMMINSVILLE S.A. 5031

August 7th, 1970.

Mr. G. W. Wendall,
Foxa Oil N.L.,
7th floor, Wyward House,
291 George Street,
KERRY N.S.W. 2040.

**Leake Creek seismic and gravity survey
Report for Period July 16 - July 31.**

GENERAL: During the period, the recorders completed the 6 fold section of line 110 and worked on the 4 fold extension.

DAILY LOG:	Recording hours (chargeable)	138.75
	Number of production spreads (600') ...	424
	Number of production spreads (400') ...	121
	Total number of shots	571
	Miles shot (600')	35.33
	Miles shot (400')	12.13
	Miles shot Total..	50.46
	Drilling hours (chargeable)	485.50
	Number of holes drilled	556
	Number of 1/2" holes drilled	547
	Total footage.. ..	50,535
	Surveying: Miles covered	51
	Miles covered	51

During the survey, the terrain was very rough and the dozer had to help move both rigs and water trucks.

The surveying crew encountered no difficulty or problems.

The drills achieved a good rate of production but still could not use the recording crew all the time. The 4th drilling unit arrived from Tommerville on Monday on the 1st and was incorporated in the 3rd. Drilling conditions remained good.

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UNITED GEOPHYSICAL CORPORATION

On the 16th and 17th, the recording truck underwent repairs to the frame, and no production was achieved.

From the 18th, a fair rate of production was obtained.

S.P. 565 was the last shot of 600% coverage. Beyond this, shotpoint interval was increased from 440 ft to 660 ft for 400% subsurface coverage. Record quality remained poor with some records being fair.

GRAVITY:

The operator commenced work on the 25th of the month and by the 31st had metered about 40 miles of line.

PERSONNEL AND EQUIPMENT: Two additional drill and water truck and personnel arrived July 18th. The addition of the gravity operator and second mechanic were the only other personnel changes. The attached list gives all details.

INTERPRETATION: The field sections for the two short extensions (PYJ and PIN) show the steep dip down to the west that was expected. The section for PYO line is fair in the south east but poor on the northwestern part of the line. The high at Gootamerinn is shown on the section and west from here, the structure dips to the gravity low near the junction of lines PYO and PYJ. Quality to the west from here is very poor but the structure appears to be more or less flat lying.

The offset profile shot at the PYO - PYJ junction was computed and shows that there is greater than 500 feet of section down to a refractor of 19300 ft/sec. velocity.

REMARKS:

Approximately 50 shots of C.P. and 150 shots of conventional splits remain. This should take care of the remaining time - approximately 160 hours.

Respectfully submitted,

.....
J. A. Brown
Party Chief.

cc/ee

cc: logs 6

newman

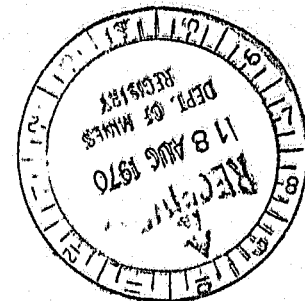
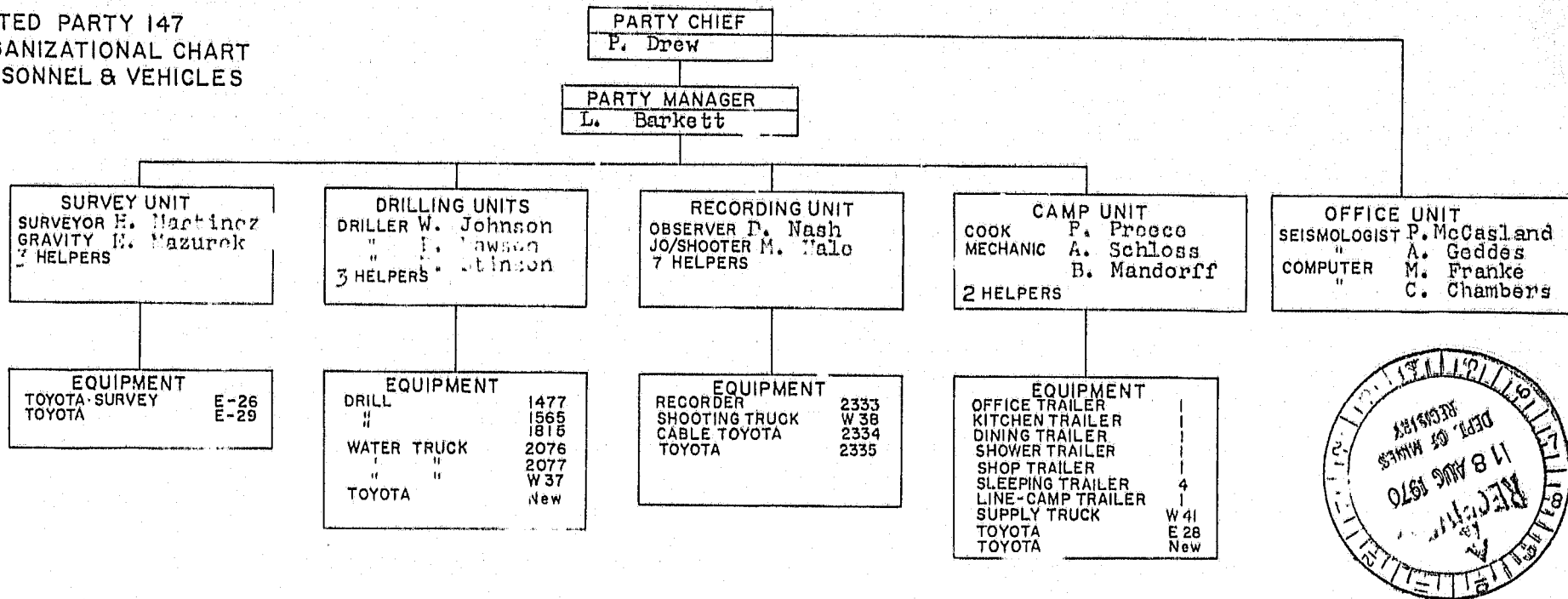
W. J. Brown

supervisor

file.

00008

UNITED PARTY 147
ORGANIZATIONAL CHART
PERSONNEL & VEHICLES



SUMMARY: The crew has a total of 33
personnel - 20 in the field
and 4 in the Adelaide office.

REMARKS: 4th Driller W. Wilson and 1 helper

Drill No. 2065 } Arrived
Water Truck 1745 } July 18th.

PERIOD ENDING: July 17, 1970

PARTY CHIEF: P. J. Drew

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**United
Geophysical
Corporation**

Party 147,
210 Hanley Beach Road,
TORRENSVILLE S.A. 5031.

2650E Foothill Boulevard
Pasadena, California 91109
Tel (213) 795-0421

A Subsidiary of
The Bendix Corporation

August 31, 1970.

Mr. W. Kendall,
Pexa Oil N.L.,
291 George Street,
SYDNEY N.S.W. 2000.

Isake Creek Seismic and Gravity Survey

Report for Period August 1 - 16.

GENERAL: Line PYD was completed with 400% coverage and lines PYP and PYP were shot with 100% coverage. This completed the work for Pexa Oil.

STATISTICS:

Recording Hours	161.25
No. of Production Spreads (400%)	50
No. of Production Spreads (100%)	156
Total No. of Shots	246
Miles Shot 400	6.25
Miles Shot 100	50.75
Miles Shot Total	56.99
Drilling Hours	253.0
No. of Holes Drilled	211
No. of CPGs Drilled	137
Total Footage	19,895
Surveying: Miles Pegged	55
Miles Leveled	57

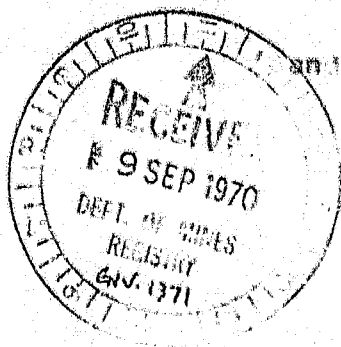
WORK DONE: The dozer completed the work on the 11th of August. Some time was spent pulling equipment on the western end of PYP.

Drilling conditions remained good and once the CPG program was completed, one drill was sufficient to give the recording crew ample holes.

Line PYD was completed with 400% subsurface coverage. Lines PY and PYP were shot with 100% ft. splits to obtain 100% coverage.

Two offset profiles and uphole surveys were shot on PYP and PY to obtain information on velocity distributions.

Work was completed on the 16th.



Page 2.

GRAVITY: Operator Ed Mazurek returned to Adelaide and D. Matthee completed the work.

PERSONNEL AND EQUIPMENT: Equipment and Personnel remained the same except for a change in gravity man as mentioned above. Full details are on the attached list.

INTERPRETATION: Quality of the single fold section on the western end of PYO was poor and the playback section is needed before interpretation can be made. Quality on PY is poor to fair and fair to good on PYP. General structure on these lines seems to follow the gravity picture. Final sections are needed to confirm this.

CONCLUSION: This period saw the conclusion of the Pease Creek Seismic and Gravity survey. We wish to thank Pease Oil and in particular Mr. W. Kendall for valuable advice and information.

Respectfully submitted,

P. J. Drew
.....
P. J. Drew
Party Chief.

UJ/cr

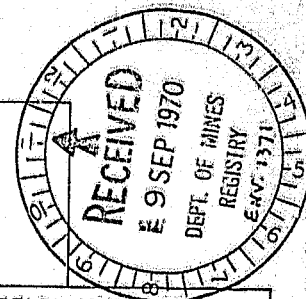
CC: - ORG 161
- Adelaide
- Brisbane
- Supervisor
- File

UNITED PARTY 147
ORGANIZATIONAL CHART
PERSONNEL & VEHICLES

00011

PARTY CHIEF
P. Drew

PARTY MANAGER
L. Barkett



SURVEY UNIT
SURVEYOR H. Martinez
GRAVITY E. Mazurek
B. Matthes
3 HELPERS

EQUIPMENT
TOYOTA SURVEY E-26
TOYOTA E-29

DRILLING UNITS
DRILLER W. Johnson
" P. Dawson
" M. Stinson
3 HELPERS

EQUIPMENT
DRILL 1477
" 1565
" 1816
WATER TRUCK 2076
" " 2077
" " W37
TOYOTA New

RECORDING UNIT
OBSERVER D. Nash
JO/SHOOTER M. Hale
7 HELPERS

EQUIPMENT
RECORDER 2333
SHOOTING TRUCK W38
CABLE TOYOTA 2334
TOYOTA 2335

CAMP UNIT
COOK F. Preece
MECHANIC A. Schloss
B. Mandorff
2 HELPERS

EQUIPMENT
OFFICE TRAILER 1
KITCHEN TRAILER 1
DINING TRAILER 1
SHOWER TRAILER 1
SHOP TRAILER 1
SLEEPING TRAILER 4
LINE-CAMP TRAILER 1
SUPPLY TRUCK W41
TOYOTA E28
TOYOTA New

OFFICE UNIT
SEISMOLOGIST P. McCasland
" A. Geddes
COMPUTER M. Franke
" C. Chambers

SUMMARY: The crew has a total of 33
personnel - 29 in the field
and 4 in the Adelaide office.

REMARKS: 4th Driller G. Wilson and 1 helper

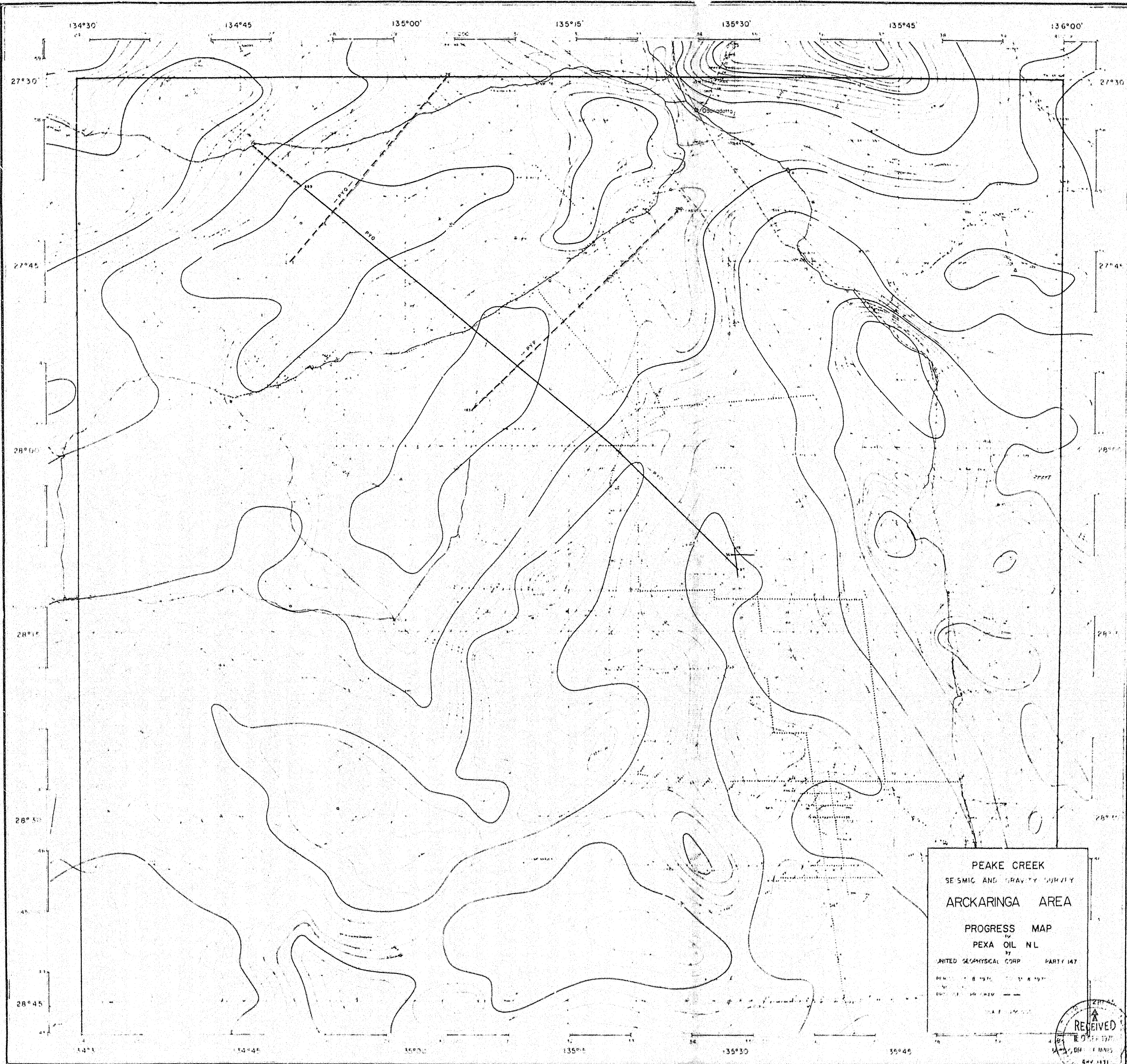
Drill No. 2065
Water 17/15 Extra Vehicles

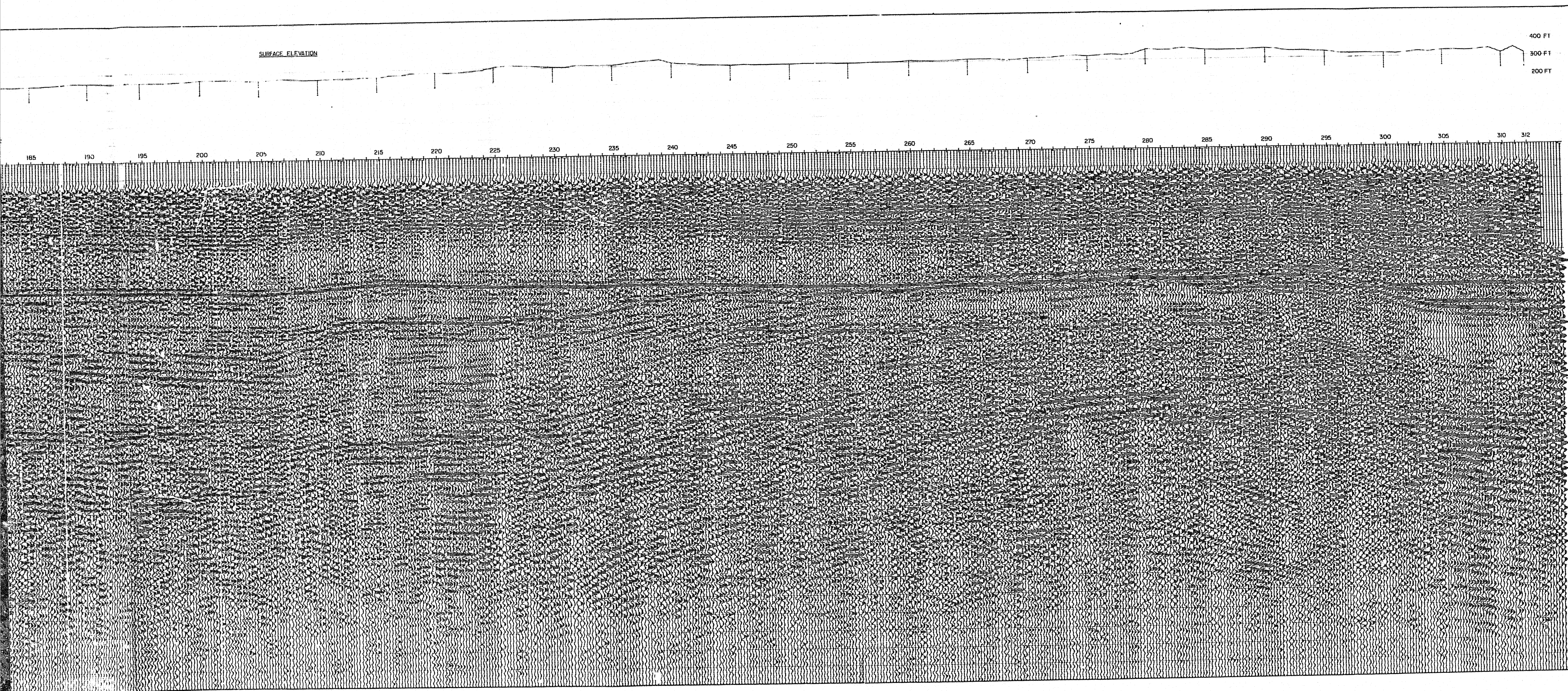
PERIOD ENDING: August 31, 1970

PARTY CHIEF: P. J. Drew

AREA PROSPECT PEAKE CREEK STATE SOUTH AUSTRALIA PARTY # 147 PARTY MANAGER L BARKETT SUPERVISOR H.D. GRAY

ENV 1371-1





 DIGITAL TECHNOLOGY PTY. LTD.

LINE: PYO
DIRECTION: NORTHWEST
PROJECT: ARCKARINGA
CLIENT: PEXA OIL N.L.

SHOT BY UNITED GEOPHYSICAL CORP DATE 7/70
PROCESSING DATE 8/70
PROCESSING MONITORED BY

FIELD PARAMETERS

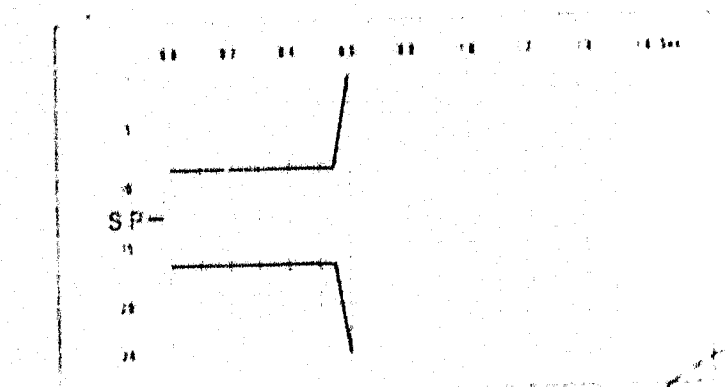
RECORDING ANALOG
TYPE 51E -FM
ENERGY SOURCE DYNAMITE
FOLD 6/1

SPREAD DIMENSIONS

DIST. BETWEEN GEO 15' AMPLIFIER TYPE
GEO/GROUP 12 GEOPHONE TYPE
GROUP INTERVAL 220' GAIN MODE
SP. INTERVAL 440' FIELD FILTER OUT - 2/78

PROCESSING SEQUENCE

MUTE DIAGRAM



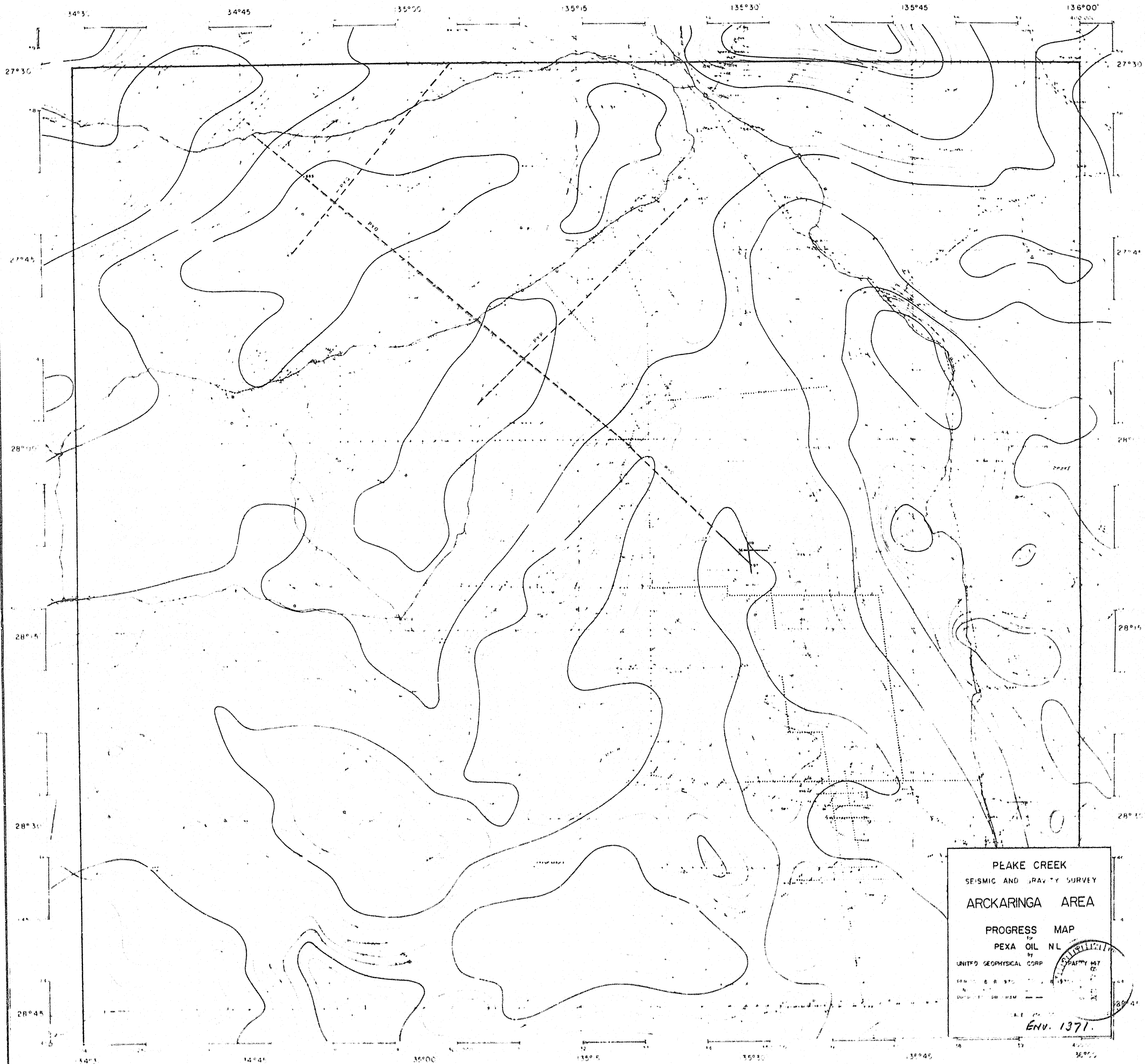
FRAME 1 ENV 1371-3

400 FT
300 FT
200 FT

SURFACE ELEVATION

97 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235

FRAME 2 ENV 1371-3



PEAKE CREEK
SEISMIC AND GRAVITY SURVEY
ARCKARINGA AREA
PROGRESS MAP
for
PEXA OIL NL
by
UNITED GEOPHYSICAL CORP.
DATE: 1977
DRAWN BY: JSM
CHECKED BY: JSM
ENV. 1371.

MONTHLY STATISTICAL REPORT

DATE JULY 1970 CLIENT: PEXA OIL N.L.

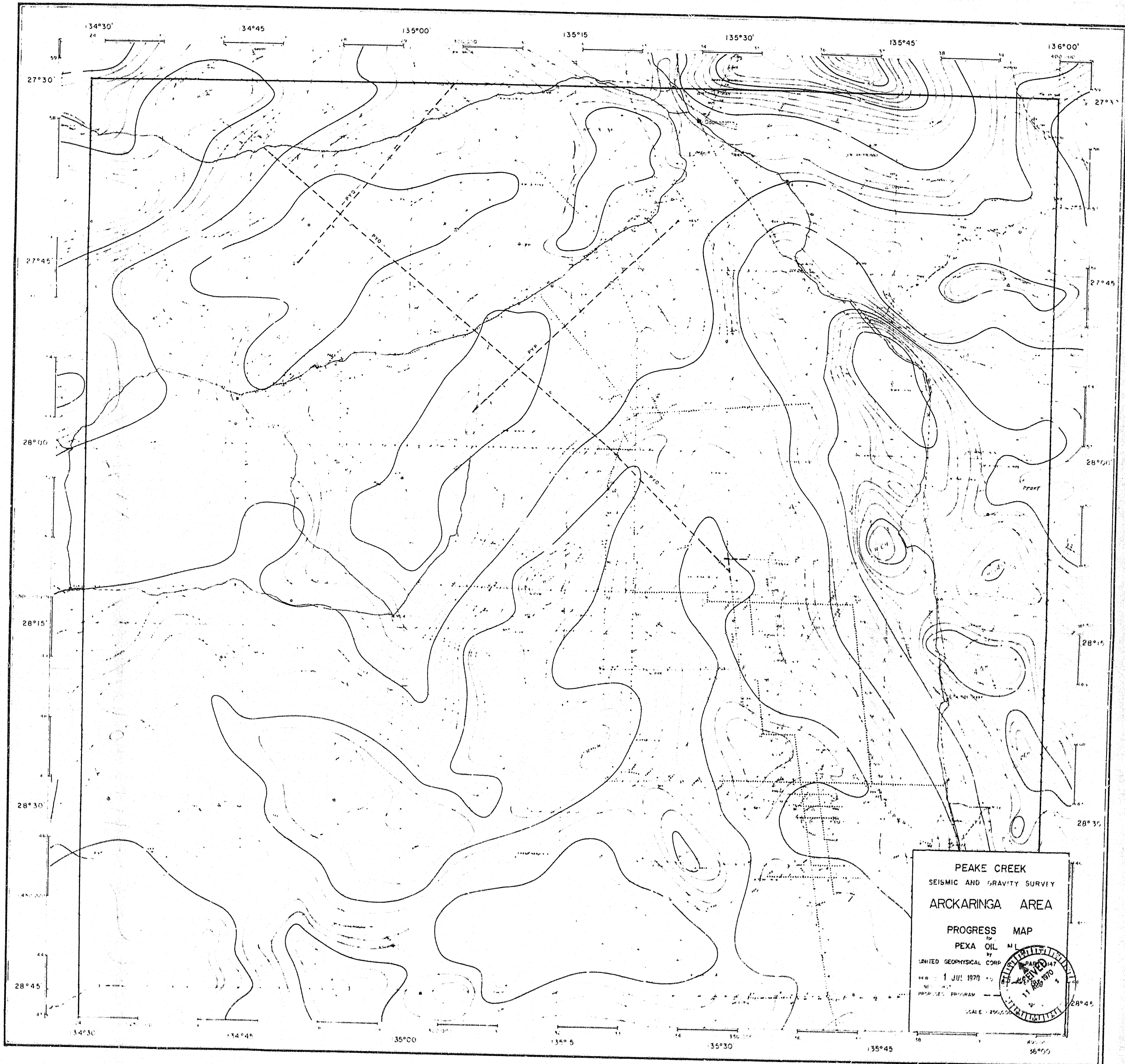
AREA _____ PROSPECT PEAKE CREEK STATE _____

CONTRACTOR UNITED GEOPHYSICAL CORPORATION

PARTY MANAGER L. BARKETT SUPERVISOR H. D. GRAY

DATE & DAY		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	COMMENTS		
RECORDING	UNIT #	2																																	
	TYPE AMP RT 00	3																																	
	TYPE GEOPH MS	4																																	
	NT GEOPHMS RACE	5																																	
	TYPE SPREAD	6																																	
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RECORDING	RECEIVED	17																																	
	USED ON JOB	18																																	
	ON HAND	19																																	
	TRANSFERRED	20																																	
	RECEIVED	21																																	
EXPLOSIVES	USED ON JOB	22																																	
	ON HAND	23																																	
	TRANSFERRED	24																																	
	RECEIVED	25																																	
	USED ON JOB	26																																	
NETMATS	ON HAND	27																																	
	TRANSFERRED	28																																	
	RECEIVED	29																																	
	USED ON JOB	30																																	
	ON HAND	31																																	
BOOSTERS	TRANSFERRED	32																																	
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	USED ON JOB	34																																	
	ON HAND	35																																	
	TRANSFERRED	36																																	
D	NT HOLES	37																																	
	FOOTAGE	38																																	
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	TOTAL TIME	41																																	
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	FOOTAGE	43																																	
	FIELD TIME	44																																	
	DRIVING TIME	45																																	
	TOTAL TIME	46																																	
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	DRIVING TIME	50																																	
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	FIELD TIME	69																																	
	DRIVING TIME	70																																	
	TOTAL TIME	71																																	
W	NT HOLES	72																																	
	FOOTAGE	73																																	
	FIELD TIME	74																																	
	DRIVING TIME	75																																	
	TOTAL TIME	76																																	
GROUP TOTALS	NT HOLES	77																																	
	FOOTAGE	78																																	
	FIELD TIME	79																																	

ENV 1371-5



ENV 1371-6 ENV. 1371.

ENV 1371-7