

PARAMOUNT DOME

ET AL

CAMERON J-11

9211 - P33 - 2 - 1



Canada Oil and Gas
Lands Administration

Administration du pétrole
et du gaz des terres du Canada

DRILLING AUTHORITY NO. 1057

DATE APPROVED 1983 02 04

Nova Scotia
Newfoundland
Gulf of St. Lawrence

☐ West Coast
☐ Northern
☐ Hudson Bay

☐ Exploratory
☒ Development
☐ Delineation
☐ Service

☒
☐
☐
☐

AUTHORITY TO DRILL A WELL

APPLICATION

This application is submitted with Section 82 of the Canada Oil and Gas Drilling Regulations. When approved under Section 83 of the Regulations, it is the requisite authority for the commencement of drilling operations.

Well Name in Full: PARAMOUNT DOME et al CAMERON J-11
Operator: Paramount Resources Ltd. Drilling Program No.:
Contractor: Adeco Drilling & Engineering Co. Ltd. Permit or Lease No.: 919-71
Drilling Rig or Unit: Adeco # 12 Estimated Well Cost: \$750,000.
Location-Unit: J Section: 11 Grid Area: 60-10-117-15
Coordinates: Lat.: 60°00'40" Long.: 117°17'40"
Area: Cameron Hills UWI: 300116010117150
Elevation-RT/KB: 742 m. (est.) (ASL) Seafloor: (BRT)
Approx. Spud Date: February 1, 1983 Estimated Days on Location: 30
Anticipated Total Depth: 1564 m Target Horizon(s) Slave Point, Sulphur Point,
Keg River

EVALUATION PROGRAM

Ten-metre sample intervals
Five-metre sample intervals Surface Casing to T.D.
Canned sample intervals
Conventional cores at None
Logs and Tests DIL, CNL-FDC, Sonic from T.D. to surface casing

CASING AND CEMENTING PROGRAM

O.D.	Weight:	Grade:	Setting Depth	Cementing Program (Volumes):
244.5	48.07	H-40	600 Series 400	22.5 tonnes
139.7	20.8	J-55	Approx. 1564	as required to reach surface casing

B.O.P. Equipment: 10" 600 Series, 3000 & 6000 p.s.i.

Other Information: Gas Detection System - Bear Paw Logging

Signed: [Signature] Title: Vice President, Operations
Date: December 20, 1982 Company: Paramount Resources Ltd.

APPROVAL

An approved copy of this notice is to be posted at each wellsite.

Signed: [Signature]
Engineering Branch

Date: 83 02 04

File:

Department of Energy,
Mines and Resources

Ministère de l'Énergie,
des Mines et des Ressources

Department of Indian Affairs
and Northern Development

Ministère des Affaires indiennes
et du Nord Canadien

Canada



Nouvelle-Écosse	☐	Côte ouest	☐	Prospection	☐
Terre-Neuve	☐	Nord	☐	Développement	☐
Golfe du St. Laurent	☐	Baie de Hudson	☐	Délimitation	☐
				Service	☐

AUTORISATION DE FORER UN Puits

DEMANDE

Ces informations sont soumises en vertu de l'article 82 du Règlement concernant le forage des puits de pétrole et de gaz naturel au Canada. Lorsqu'approuvée en vertu de l'article 83 du Règlement sur les opérations sur le pétrole et le gaz du Canada, ceci est l'autorisation requise pour commencer des opérations de forage.

Nom du puits au long:
Exploitant: Programme de forage no:
Entrepreneur: Permis ou concession no:
Appareil ou unité de forage: Coût projeté du puits:
Emplacement-Unité Section: Étendue quadrillée:
Coordonnées (Lat): (Long):
Région: Champ/gisement:
Altitude TR/CE: (DNM) Fonds marins: (STR)
Date approximative du démarrage: Durée estimée sur le lieu:
Profondeur totale anticipée: Cible(s) prévue(s)

ÉVALUATION DU PROGRAMME

Prélèvement à dix mètres d'intervalle:
Prélèvement à cinq mètres d'intervalle:
Échantillon en conserve:
Carottes classiques à:
Diagraphies et essais:

PROGRAMME DE TUBAGE ET DE CIMENTATION

Diamètre extérieur de tubages	Masse	Qualité	Profondeur déterminée sous les fonds marins	Programme de Cimentation (Volume)
.....				
.....				
.....				
.....				
.....				
.....				
.....				
.....				
.....				
.....				

Équipement A.E.
.....
.....

Autres informations:
.....
.....
.....

Signé: Titre:
Date: Compagnie:

APPROBATION

Une copie de l'autorisation approuvée doit être affichée à l'emplacement de chaque puits.

Signé par:
Direction de la technique
Date:
Dossier:

MINISTRY OF INDUSTRY AND COMMERCE
 MINISTÈRE DE L'INDUSTRIE ET DU COMMERCE
 OIL & MIN. DIVISION
 DIVISION DU PÉTROLE ET DES MINÉRAUX

WELL COMPLETION DATA RENSEIGNEMENTS SUR LES FORAGES

Drilling Agreement No. 1057
 N° de l'autorisation de forage
 Date issued 1983-02-04
 Date de délivrance

Submit in duplicate within thirty days after the completion, abandonment, recompletion or suspension of every well.

Présenter en double dans les trente jours suivant l'achèvement, le abandon, la réachèvement ou la suspension de chaque puits, au plus tard.

Well Name & No. - Nom et N° du puits
 ARAMOUNT DOME et al CAMERON J-11

Permit No. - N° de permis

License No. - N° de licence

919-71

Owner - Licensee, Lessee - (Déclarant de permis ou de licence, du concessionnaire)
 Dome Petroleum Limited

374

Operator (Révélateur)

Dome Petroleum Resources Ltd.

Exploratory License No. - N° de licence de sondage
 393

Location - EMPLACEMENT

Section 11 Grid - (N° de section, N° de grille)
 60.10-117-15

Latitude 60°00' 36.938"N

Longitude 117°17' 37.478"W

Universal Well Location Reference - Référence universelle d'emplacement du puits

60.01026°N 117.29374°W

300J116010117150

Date	Depth - Profondeur	Notes
83-02-10		Drilling started
		Interval: Open to Production none
		Interval(s) de production
83-02-28	1565	
83-03-04		
83-03-04		

Elevation: Gr. 734.59 X.B. 739

Altitude du sol du centre d'entre-deux

Rig No. 12

Drilling Contractor Adaco Drilling

Contractor's Business License No. 023

N° du permis de l'entrepreneur

CEMENT RECORD - TUBAGE

Casing Size (Inches) Diamètre for Tubage	Grade Qualité	Weight Poids	Amount Quantité	Set or Fixation	Sacks of Cement and Additives Sacs de ciment et d'additifs
244.5	J-55	53.57	403.26	402	32 tonnes OWG + 28 Lact 2

Geological Test Essai (des formations)	Elevation - Profondeur Depth Sous la surface du sol	Depth - Profondeur Sous la surface de la mer	Core - de	Core - de	Core - de	Core - de	Core - de	Core - de
Labemun	501	+238	NO CORES					
Leah Marie	619	+120						
Port Simpson	628	+111						
Win Falls	735	+ 4						
May River	898	-159						
Leaverhill Lake	1190	-451						
Luskwa	1234	-495						
Slave Point	1259	-520						
Port Vermilion	1291	-552	1	CNL FDC GR Caliper	1563	402	✓	
Fort Mountain	1308	-569	1	DILL-SP	1563	402	✓	
Alphur Point	1312	-573	1	BHC Sonic GR Caliper	1553	402	✓	
Luskwa	1324	-585						
Leg River	1447	-708						
Chinchaga	1521	-782						
Granite Wash	1545	-806						
Pre-Cambrian	1556	-817						

INFORMATION IS OBLIGED, A VOI				INFORMATION IS OBLIGED, A VOI			
Date	To - J	Remarks - Remarques	Date	From - de	To - J	Remarks - Remarques	Date
83-03-04	1565	1225 Plug #1-no feel required					
83-03-04	417	384 Plug #2 felt w/ 100 kn					
83-03-05	10	surface Plug #3					

DRILL STEM TESTS - ESSAIS AUX TIGES

No. - N°	Date	Formation	From - de	To - J	V.D. Mins. (minutes)	V.S. Mins. (minutes)	S.S.I. Mins. (minutes)	S.S.I.H.P. (minutes)	S.S.I.H.P. (minutes)	1.F.S.H.P. (minutes)	1.F.S.H.P. (minutes)	1.F.S.H.P. (minutes)	1.F.S.H.P. (minutes)	Remarks - Remarques
1	83-03-01	Sulphur Pt.	1309	1325	Misrun, packer	seats failed.								
2	83-03-02	"	1307	1325	10, 60	20	90	2551	5567	672	775	15478	14754	No fluid to surface. Rec. 56 m drilling mud.
3	83-03-03	Slave Point	1284	1266	10, 60	20	90	681	1021	255	426	14601	15033	No fluid to surface. Rec. 10 m drilling mud.

ANALYSIS - ANALYSE

ANALYSIS - ANALYSE						PRESENT STATUS OF WELL ETAT ACTUEL DU PUITS		
Sample Location	From - de	To - J	Source	Remarks - Remarques	Oil	Gas	Dry	Susp.
NONE PERFORMED								

Company: **Paramount Resources Ltd.**

Signed by: *[Signature]*

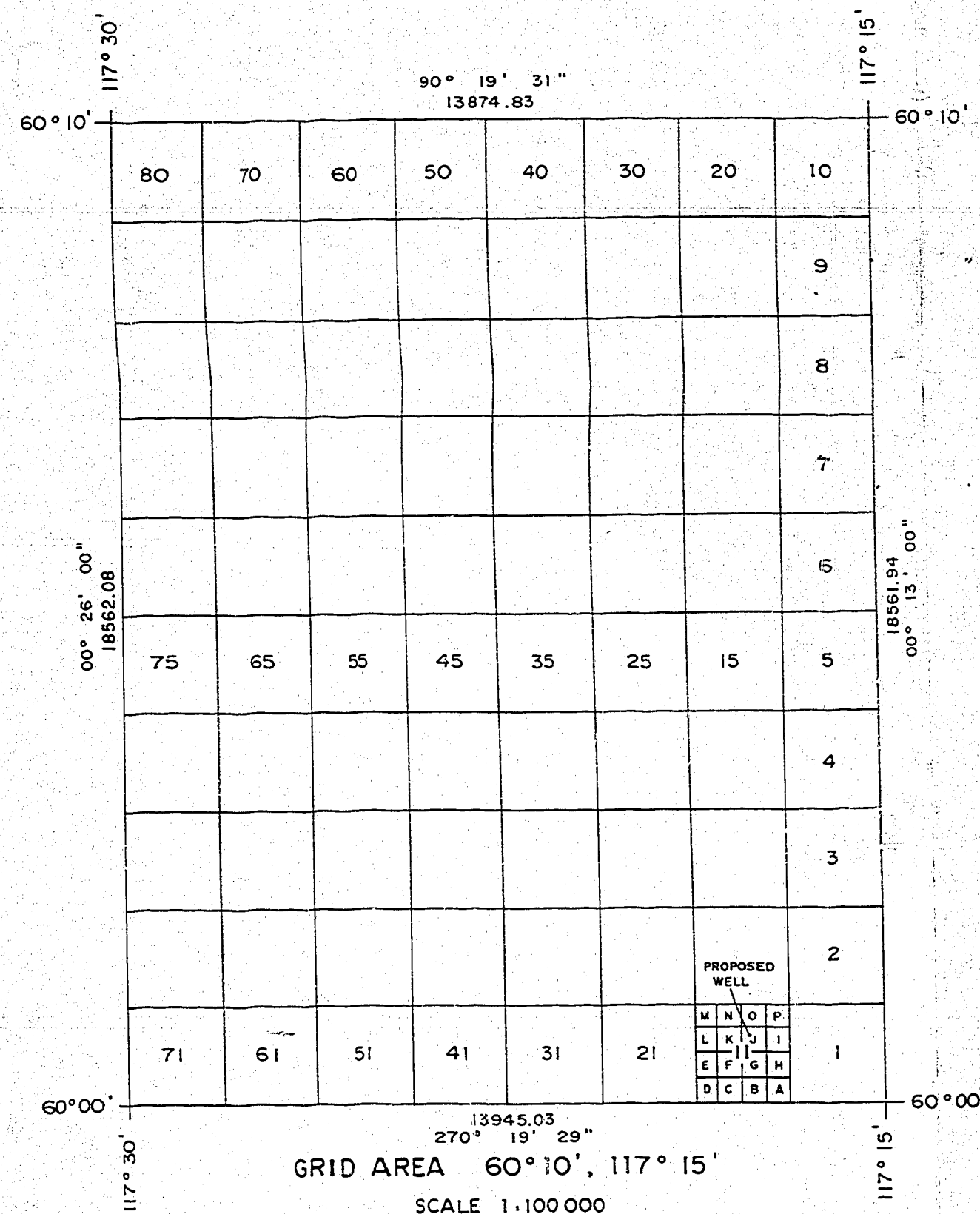
Title: **Vice President, Operations**

Date: **83-03-14**

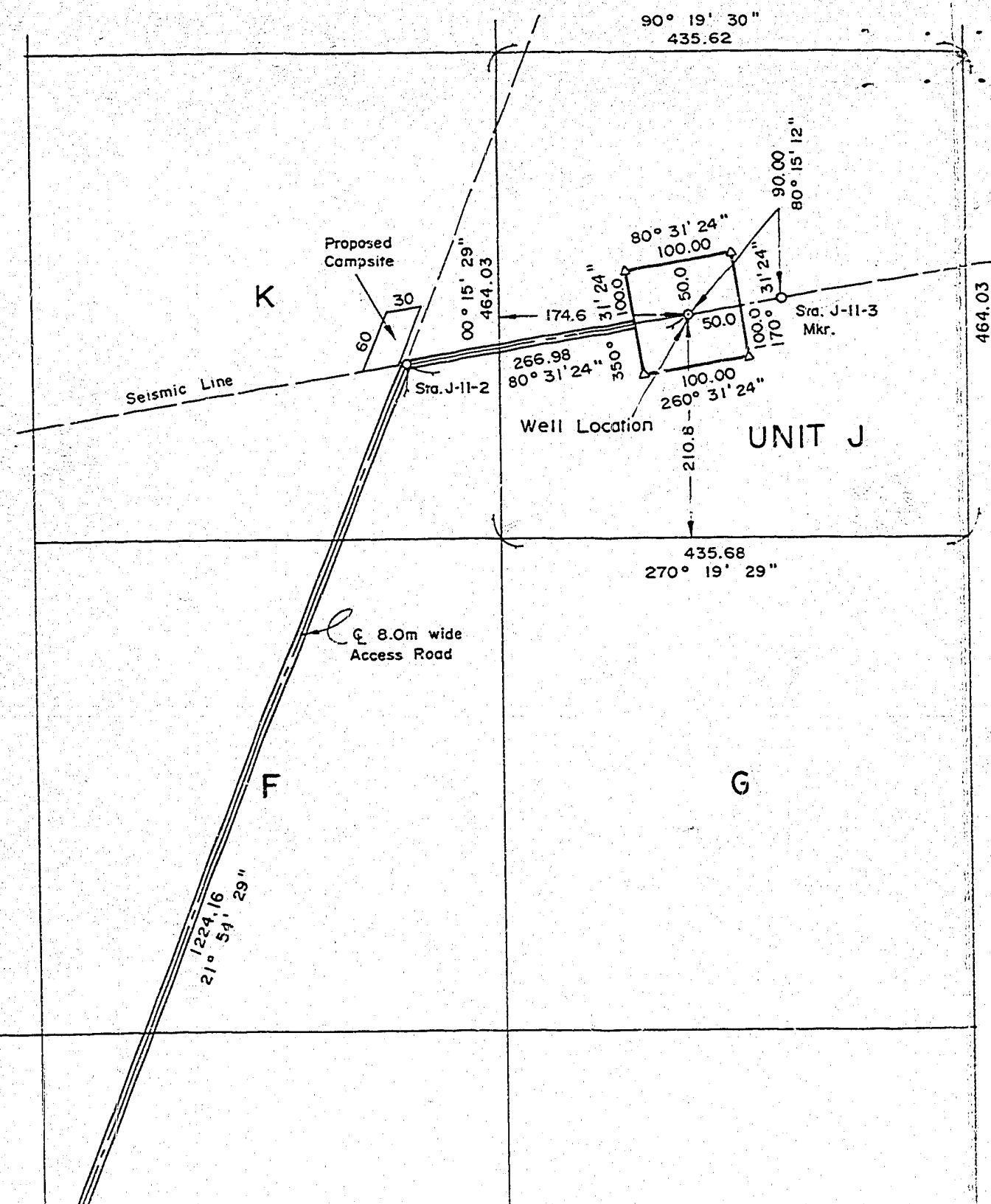
Form to be prepared in duplicate and forwarded to the District Conservation Engineer.

Presenter for formation samples & fluid samples in conservation in District.

10F



GEOGRAPHIC AND UTM COORDINATES (1927 N.A.D.)				
STATION	LATITUDE	LONGITUDE	NORTHINGS	EASTINGS
BOUNDARY MONUMENTS				
281			6 651 204.09	482 883.96
283				
UNIT J-11				
N.E. Corner			6 652 635.42	483 882.27
N.W. Corner			6 652 637.89	483 446.66
S.E. Corner			6 652 171.39	483 880.24
S.W. Corner			6 652 173.86	483 444.57
TRAVERSE STATIONS				
J-11-1			6 651 204.01	482 900.02
J-11-2			6 652 339.76	483 356.78
J-11-3			6 652 398.54	483 708.88
PROPOSED WELL Paramount Dome et al. Cameron J-11				
0	60° 00' 36.938"	117° 17' 37.478"	6 652 383.70	483 620.12



WELL SITE GROUND ELEVATIONS @

Well Loc. = 734.59
 N.E. Corner = 735.40
 N.W. Corner = 737.16
 S.W. Corner = 734.37
 S.E. Corner = 733.61

Made B.T.s at Sta. J-11-1

0.10 m Ø Pine 88° 01' 29" N.az. 16.37 m
 0.08 m Ø Poplar 202° 56' 19" N.az. 18.39 m
 0.14 m Ø Pine 349° 03' 29" N.az. 26.33 m

Made B.T.s at Sta. J-11-2

0.12 m Ø Pine 249° 00' 29" N.az. 12.70 m
 0.09 m Ø Pine 39° 43' 19" N.az. 21.17 m
 0.08 m Ø Pine 147° 27' 39" N.az. 13.74 m

LEGEND:

UTM coordinates are computed for Zone 11, central meridian 117° W. Bearings were derived from the bearing 270° 18' 23" computed between boundary monuments 281 and 283, and are referred to meridian 117° W.

Distances are expressed in metres and decimals thereof. Distances shown in traverse are measured distances reduced to the horizontal at general ground level.

For the computation of coordinates measured distances have been reduced to the UTM plane by multiplying them by an average combined scale factor of 0.9996. Coordinates were then adjusted to fit the control.

Distances shown on grid area subdivisions are UTM plane.

Authorized control monuments found

Monuments placed (2 cm X 60 cm Iron Bar)

Monuments placed (1 cm X 45 cm Iron Bar)

Mkr. denotes metal marker post 2.0 m long placed 0.3 m W.

Traverse lines

Elevations were derived from ground at Boundary Mon. 283 (743.04)

Survey was completed prior to drilling; therefore well as drilled may not necessarily agree with proposed location.

All traverse distances are independently check measured.

GRID AREA 60
NORTHWEST TERRITORIES
CANADA OIL AND GAS

SCALE 1:5000

SURVEYED FOR
PARAMOUNT RESOURCES
BY: LYLE E. FORD
1983



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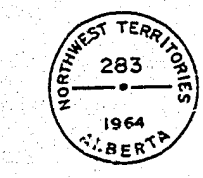
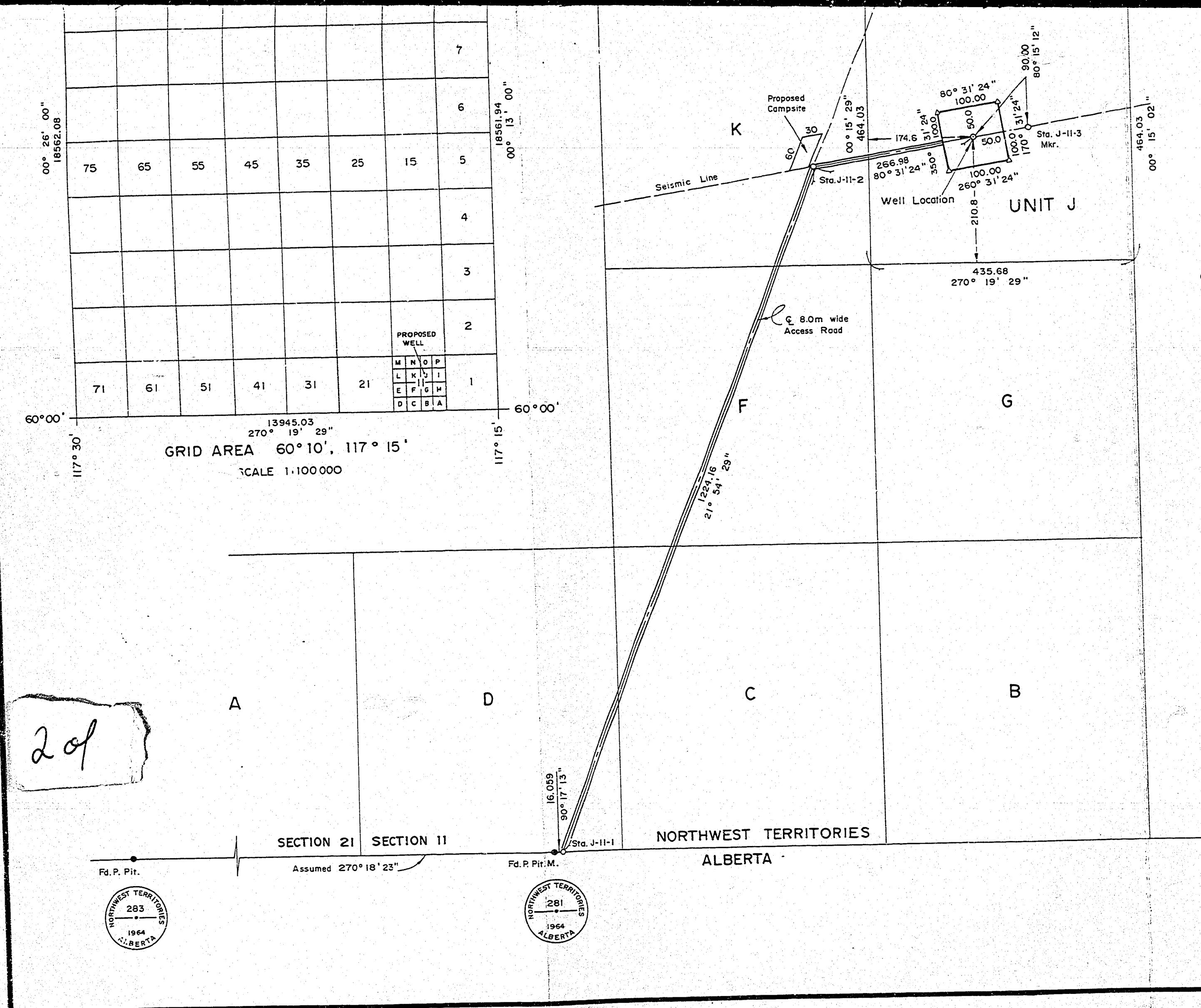
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THIS SURVEY WAS EXECUTED
FEBRUARY 2 TO FEBRUARY 4

PARAMOUNT RESOURCES

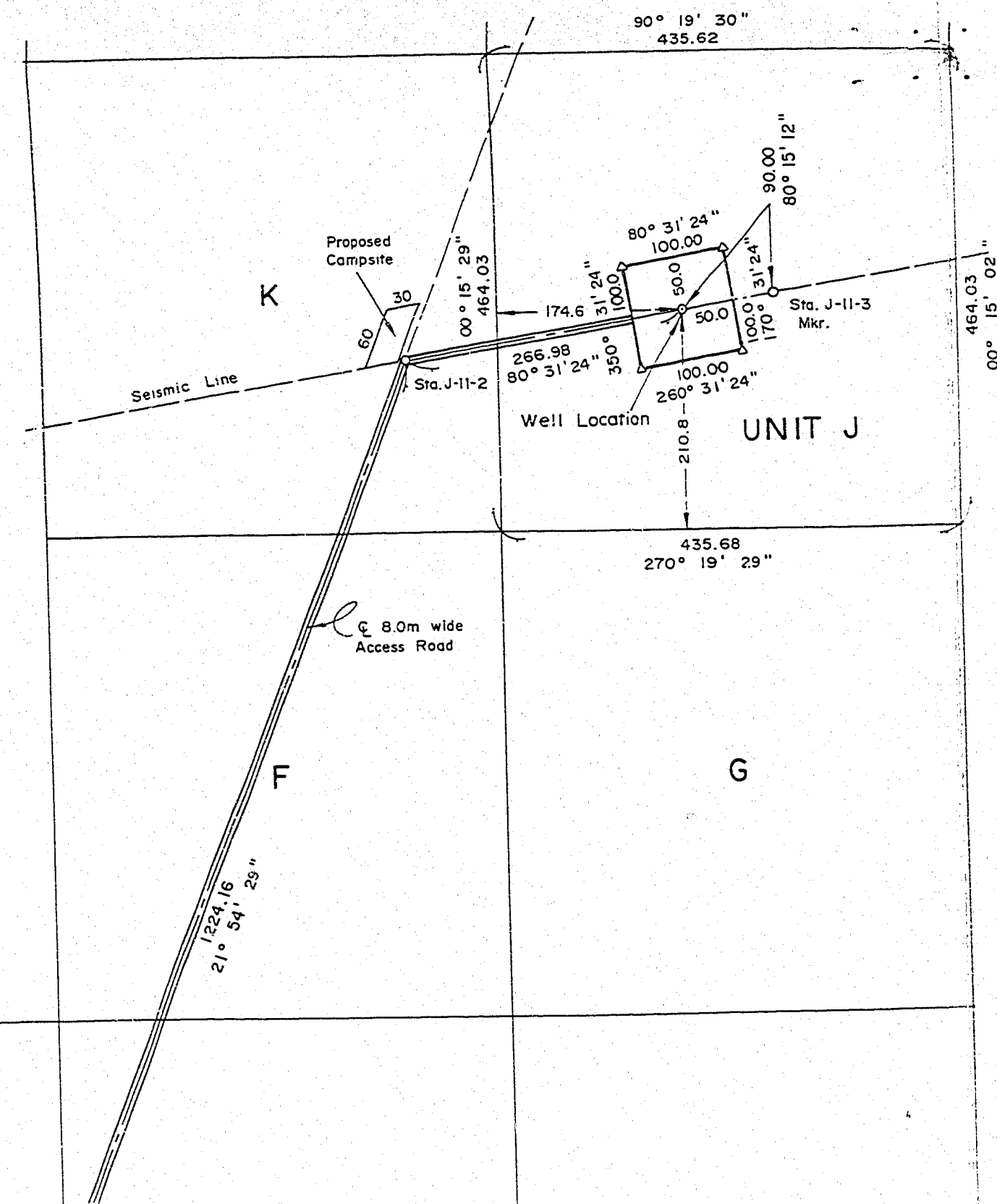
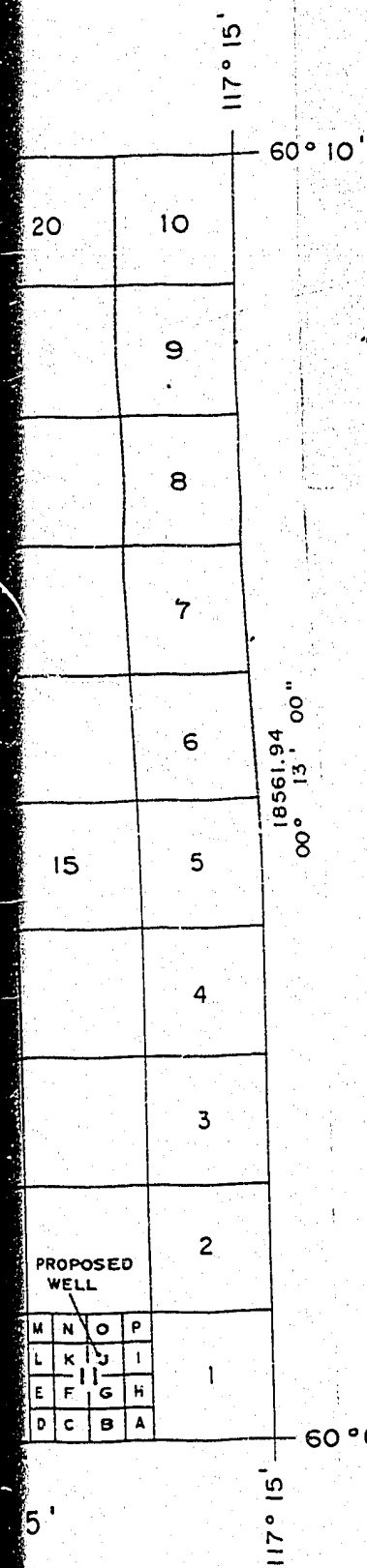
(signature, title) *L. E. Ford*
(signature) _____

McElhanney Surveying & Engineering Ltd.
450 999-8th Street S.W. Calgary, Alta.
Phone (403) 245-4711



2 of

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Authorized control monuments found

Monuments placed (2 cm X 60cm Iron Bar) ○

Monuments placed (1 cm X 45cm Iron Bar) △

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Traverse lines

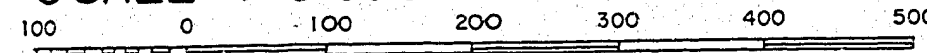
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PLAN AND FIELD NOTES OF SURVEY OF PROPOSED EXPLORATORY WELL PARAMOUNT DOME ET AL CAMERON IN UNIT J, SECTION 11 GRID AREA 60° 10', 117° 15' NORTHWEST TERRITORIES CANADA OIL AND GAS LAND REGULATIONS

SCALE 1:5000



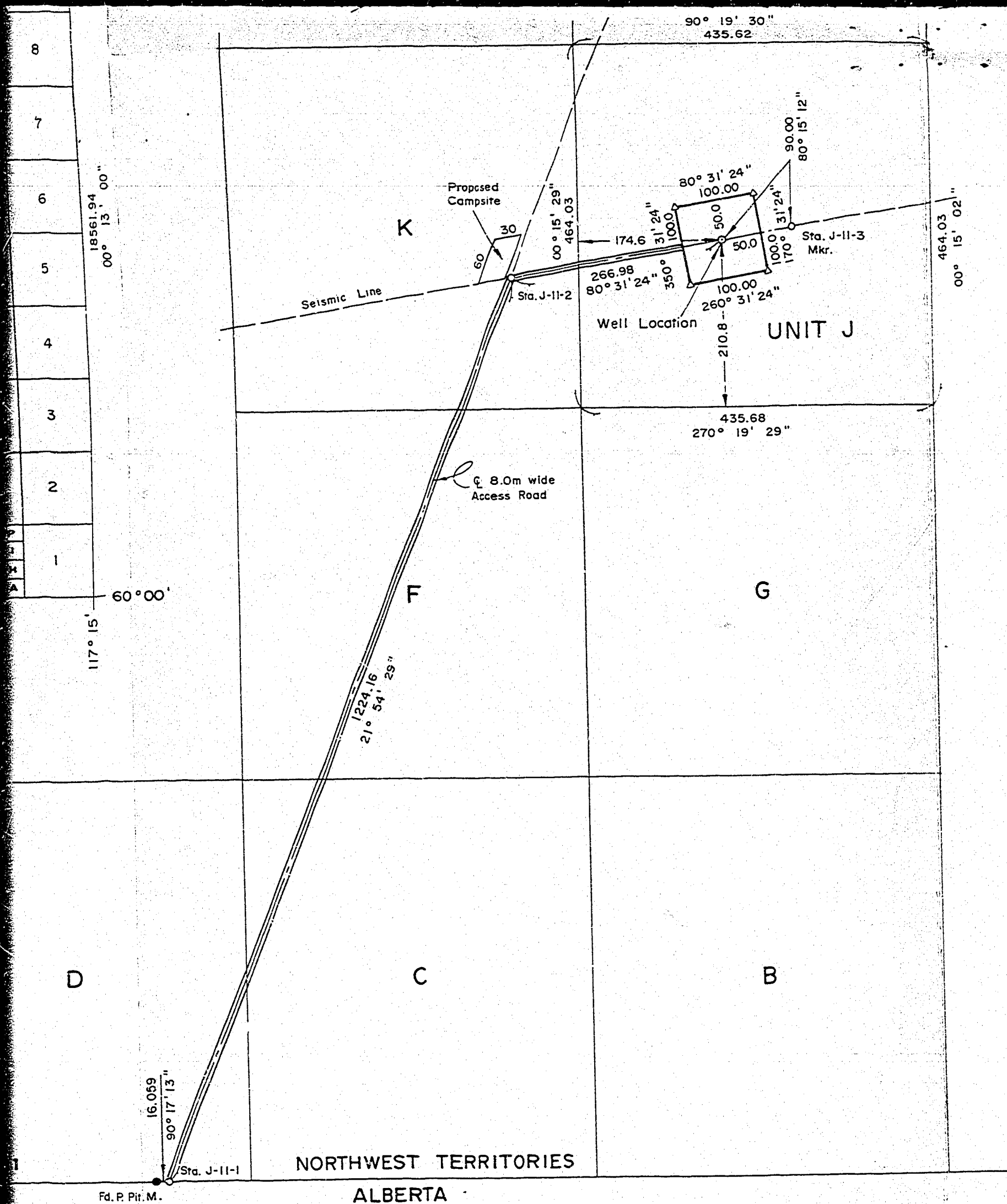
SURVEYED FOR
PARAMOUNT RESOURCES LTD.
BY: LYLE E. FORD C.L.S.
1983

I, Lyle E. Ford, of The City of Calgary, Alberta, Canada Lands Surveyor, make oath and say that I have in my own proper person, according to law and the instructions of the Surveyor General of Canada Lands, faithfully and correctly executed the survey shown by this plan and field notes, and that the said plan and field notes are correct and true to the best of my knowledge and belief.
SO HELP ME GOD.

Sworn before me at The City of Calgary
in The Province of Alberta this 18th
day of February, 1983.

Bernard J. McKenna
Bernard J. McKenna 84-07-11
A Commissioner For Oaths in and for
The Province of Alberta.

Lyle E. Ford
Canada Lands Surveyor



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IN UNIT J, SECTION 11
 GRID AREA 60°10', 117°15'
 NORTHWEST TERRITORIES
 CANADA OIL AND GAS LAND REGULATIONS

SCALE 1:5000

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PARAMOUNT RESOURCES LTD.
 BY: LYLE E. FORD C.L.S.
 1983

I, Lyle E. Ford, of The City of Calgary, Alberta, Canada Lands Surveyor, make oath and say that I have in my own proper person, according to law and the instructions of the Surveyor General of Canada Lands, faithfully and correctly executed the survey shown by this plan and field notes, and that the said plan and field notes are correct and true to the best of my knowledge and belief.
 SO HELP ME GOD.

Sworn before me at The City of Calgary
 in The Province of Alberta this 18th
 day of February, 1983.

Bernard J. McKenna
 Bernard J. McKenna 84-07-11
 A Commissioner For Oaths in and for
 The Province of Alberta.

Lyle E. Ford
 Canada Lands Surveyor

THIS SURVEY WAS EXECUTED DURING THE PERIOD
 FEBRUARY 2 TO FEBRUARY 4, 1983, BY LYLE E. FORD, C.L.S.

PARAMOUNT RESOURCES LTD.

(signature, title) *Lyle E. Ford V.P. Operations*

(signature) _____

Witness

Date

4 of 4

McElhanney Surveying & Engineering Ltd.
 450 999-8th Street S.W. Calgary, Alta.
 Phone (403) 245-4711

ACTION SLIP

WELL HISTORY REPORTS

Project No. 9211-P33-2-1

The following action has been taken:

Receipt acknowledged ✓

Well card made ✓

Reports and maps and logs date-stamped ✓

Reports labelled ✓

Date Rec'd entered in Project Ledger ✓

Confidential Sections removed:

(micro) paleontological —

palynological —

OR Source Rock Analyses —
Geochemical Analyses —

Other

Land Management memo sent ✓

REVIEW and APPROVAL MADE BY:

Engineering Branch

Resource Evaluation *DR into 83-11-14*

Environmental Protection

PLEASE NOTE COMMENTS ON ATTACHED SHEET

PROJECT NUMBER 9211-P33-2-1

COMPANY Paramount Resources Ltd.

REPORT TITLE well history: Paramount Dome et al Cameron J-11

COMMENTS:

ENGINEERING BRANCH

ENGINEERING BRANCH
"Well Termination Record" form is missing

ENVIRONMENTAL PROTECTION BRANCH

RESOURCE EVALUATION BRANCH

a pretty sparse report but reasonable
 DRS - 83-11-14

DRS - 83-11-14

FINAL WELL REPORT

PARAMOUNT DOME et al CAMERON J-11

Section I - Summary of Well Data

- (a) Well Name and Number
Paramount Dome et al Cameron J-11
- (b) Permittee, Licencee or Lessee
Dome Petroleum Limited
- (c) Operator
Paramount Resources Limited
1800, 717 Seventh Avenue S. W.
Calgary, Alberta T2P 0Z3
- (d) Location
N.W.T. Unit J, Section 11, Grid 60°10'N, 117°15'W
Universal Well Location Reference No. 60.01026°N, 117.29374°W
Unique Well Identifier 300J116010117150
- (e) Co-ordinates
210.8 m N of S Boundary of Unit J
174.6 m E of W Boundary of Unit J
- (f) Permit or Lease Number
Lease No. 919-71
- (g) Drilling Contractor
Adeco Drilling & Engineering Co. Ltd.
505 Second Street S. W.
Calgary, Alberta T2P 1N8
- (h) Drilling Authority
No. 1057, issued 1983-02-04
- (i) Classification
New Field Wildcat
- (j) Elevations
Ground 734.6 m K.B. 738.7 m
- (k) Spud Date
1983-02-10
- (l) Completed Drilling Date
1983-02-28
- (m) Total Depth
1565 m

- (n) Well Status
Dry and Abandoned
- (o) Date Rig Released
1983-03-04
- (p) Hole sizes to total depth
508 mm to 18 m
311.5 mm to 402 m
222.25 mm to 1565 m (T.D.)
- (q) Casing
406.4 mm conductor 81.84 kg/m to 18 m
244.5 mm 53.57 kg J-55 ST&C landed at 402 m

Section II - Geological Summary

(a) Formation Tops

<u>Formation</u>	<u>Samples</u>	<u>E-log</u>
Wabamun	-	501
Jean Marie	-	619
Fort Simpson	-	628
Twin Falls	-	735
Hay River	-	898
Beaverhill Lake	-	1190
Muskwa	-	1234
Slave Point	1267	1259
Fort Vermilion	-	1291
Watt Mountain	1310	1308
Sulphur Point	1317	1312
Muskeg	1338	1324
Keg River	1468.5	1447
Chinchaga	1524	1521
Granite Wash	1555	1545
pre-Cambrian	1559	1556

- (b) Coring
No coring was undertaken in this well.
- (c) Core Descriptions
Not applicable.
- (d) Sample Descriptions
Appended.
- (e) Paleontological Determinations
None were made.

Section III - Engineering Summary

(a) Drill Stem Tests

DST #1 1309-1325 Sulphur Point Conventional Straddle
Misrun - packer seats failed.

DST #2 1307-1325 Sulphur Point Inflatable Straddle
Times 10, 20, 60, 90
pre-Flow WAB increasing to FAB, no GTS.
Valve Open FAB throughout, no GTS.
HP 15478/14754 SIP 2551/5567
pre-Flow P 792 FP 672/775
Recovered 56 m drilling mud, salt 1924 ppm.

DST #3 1226-1284 Slave Point Inflatable Straddle
Times 10, 20, 60, 90
pre-Flow WAB, no GTS.
Valve Open WAB, no GTS
HP 14601/15033 SIP 681/1021
pre-Flow P 255 FP 255/426
Recovered 10 m drilling mud.

DST Charts attached.

(b) Casing Record
See Section ~~II~~ (q).
I

(c) Bit Record
Appended.

(d) Mud Report
Appended.

(e) Deviation Record

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
24 m	3/8°	242	1 1/4	541	3/4
48	1	270	1	633	1/2
68	1	307	3/4	844	1/2
96	1	325	1/2	994	1/2
133	1	344	1/2	1145	0
159	2	363	1/2	1285	1/2
223	1	393	1/2	1435	1/2

(f) Abandonment Plugs

Plug #1 1565-1225 13 m³ OW Class G
down at 83-03-04 0015 hrs., no feel.

Plug #2 417-387 3 m³ OW Class G
down at 83-03-04 0200 hrs. felt with 100 kN

Plug #3 10-surface 0.123 m³
down at 83-03-04 2000 hours.

(g) Lost Circulation Zones
In unconsolidated surface deposits only.

(h) Blowouts
No blowouts occurred.

Section IV - Logs

DILL-SP	1983-03-01	1553-402 m
CNL-FDC GR Caliper	1983-03-01	1564-402 m
BHC Sonic GR Caliper	1983-03-01	1554-402 m

3 copies previously forwarded to C.O.G.L.A., Yellowknife

Section V - Analyses

(a) No cores, oil or gas were recovered from this well for analysis.
Analyses of water extracted from the mud recovered in DST #2 and #3 are attached.

Bit Record

No.	Size	Make	Model	Ser. No.	Depth		Drill/		Hours
					In	Out	Ream	M	
1	311.2	Smith	DTJ	SBA192	0	41	D	41	5
2	311.2	Smith	DTS	SBE382	41	62	D	21	4.5
3	222.2	Hughes West.	J3	91570	62	167	D	105	15.75
4	311.2	"	X1G	85282	62	167	R	105	14.75
					167	168	D	1	.25
5	222.2	"	X3A	90005	168	272	D	104	11.5
6	311.2	Smith	DTJ	SBE322	168	250	R	82	7.5
7	222.2	Smith	FDT	CV0629	272	394	D	122	10.25
6 RR	311.2	Smith	DTJ	SBE322	250	394	R	144	8.75
					394	402	D	8	0.5
8	222.2	Hughes West.	J11	89595	402	1295	D	893	110
9	222.2	Smith	F2	CW8506	1295	1499	D	204	62.5
10	222.2	Smith	F2	CW8513	1499	1530	D	31	15.75
11	222.2	Hughes West.	JD4	84237	1530	1565	D	35	28.5



Phone: (403) 263-0160

Mission Mud Control Ltd.

Head Office: 400, 706 - 7th Avenue S.W., Calgary, Alberta T2P 0Z1

Paramount Resources Limited
1800 Elveden House,
717 - 7th Avenue, S.W.,
Calgary, Alberta.

Re: Paramount Dome et al Cameron
J-11

PRODUCT LIST

PRODUCT	UNITS	QUANTITY
Aluminum Sterate	25 lb.	2
Benex	2 lb.	52
Bicarbonate of Soda	100 lb.	1
Caustic Soda	55 lb.	30
Caustic Soda	50 lb.	17
Gel	100 lb.	932
Peltex	55 lb.	27
S.A.P.P.	88 lb.	1
Sawdust	40 lb.	150
Soda Ash	88 lb.	5
Seperan	55 lb.	2
Stayflo/Drispac	55 lb.	12
Ironite Sponge	50 lb.	12